PROJECTE EXECUTIU

PROJECTE EXECUTIU D'INSTAL·LACIÓ DE COBERTA A LES PISTES POLIESPORTIVES DEL PAVELLÓ DEL TEMPLE

Ajuntament de Tortosa

Març de 2025

ALTER | ENGINYERIA

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1. INTRODUCCIÓ

El present projecte té com a finalitat la instal·lació d'una coberta metàl·lica per a cobrir les pistes poliesportives existents adjacents al pavelló del Temple, a dia d'avui descobertes, situades al terme municipal de Tortosa.

1.1. Antecedents

En data 1 d'octubre de 2024, l'Ajuntament de Tortosa adjudica a l'empresa Alter Enginyeria Aplicada, SLP, la redacció del *Projecte executiu d'instal·lació de coberta a les pistes poliesportives del pavelló del Temple*.

1.2. Dades bàsiques

- **Promotor**

  Ajuntament de Tortosa, amb NIF P4315700G.

- **Situació**

  Tortosa, Baix Ebre, Tarragona.

- **Accés**

  Avinguda del Canal, al costat del pavelló esportiu del barri del Temple.

- **Autor del Projecte**

  Àngel Mulet Baubí, enginyer de camins, canals i ports, col·legiat 31.205, de l'empresa Alter Enginyeria Aplicada, SLP.

- **Característiques de Tortosa, municipi on cal executar la coberta:**

Taula 1. Fitxa resum de les dades del municipi de Tortosa.

Població 2023:	34.864 habitants
Altitud:	12 msnm
Superfície:	218,51 km^2
Ubicació:	40°48'44.96" N, 0°31'17.76" E
Comarca:	Baix Ebre
Àmbit Territorial:	Terres de l'Ebre
Província:	Tarragona

- **Característiques del pavelló esportiu municipal del Temple, adjacent a la coberta objecte d'aquest projecte:**

  Està situat al barri del Temple, a la zona dels Portals de Tortosa. Té a prop els centres educatius següents:

  - Institut Cristòfol Despuig
  - Escola Sant Llàtzer
  - Institut-Escola El Temple.

Tal com s'indica a la pàgina web https://www.tortosasport.cat/, el pavelló municipal del Temple disposa de 44 x 22 metres (1.188 m^2) de superfície de fusta elàstica. Disposa de 6 vestidors col·lectius i 2 individuals, 2 magatzems esportius de 73 m^2 i unes grades amb 246 seients.

Figura 1. Imatge de l'interior del pavelló del Temple.

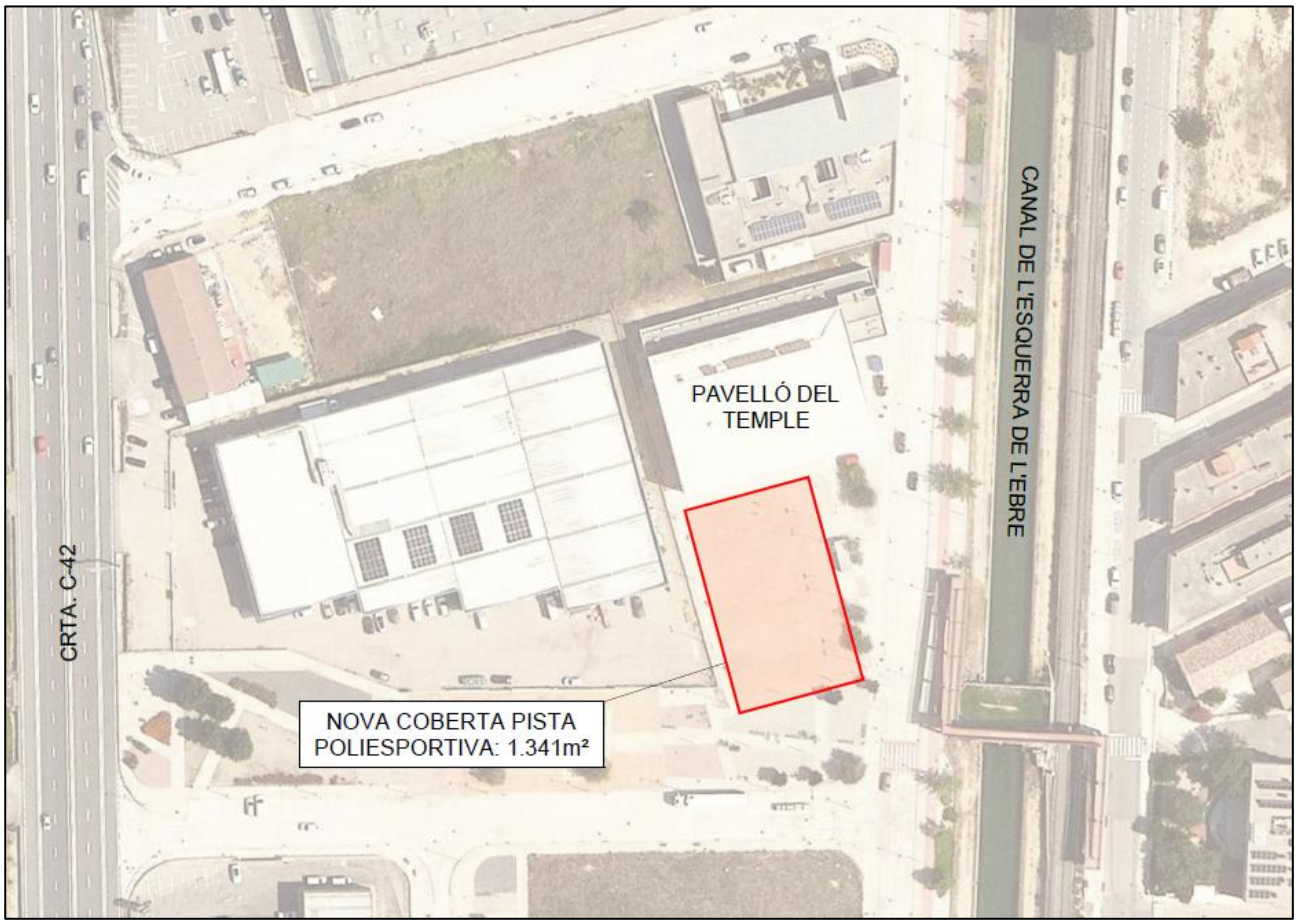


2. OBJECTE DEL PROJECTE

El present projecte té per objectiu la instal·lació d'una coberta metàl·lica per a cobrir les pistes poliesportives adjacents al pavelló municipal del Temple, situada al terme municipal de Tortosa.

A més, també es tindrà en compte l'adequació de les diverses tipologies de paviment i de les instal·lacions existents, especialment la d'enllumenat, per tal que es disposi d'una il·luminació correcta tant sota la coberta com a les voreres del voltant.

Figura 2. Emplaçament de la coberta a instal·lar.



2.1. Condicionants

La solució adoptada del projecte ve condicionada, especialment, per dos factors:

1. Planejament Urbanístic (l'espai de què es disposa)
2. Aspectes normatius establerts pel Consell Català de l'Esport (dimensions de la pista poliesportiva).

2.1.1. Planejament Urbanístic

En relació al Planejament Urbanístic, en aquest cas, cal recórrer al Pla Parcial "Portal de Ciutat – Nord", de data de setembre de 2004, del servei d'Urbanisme de l'Ajuntament de Tortosa, inclòs en el text refós que incorpora les prescripcions fixades per la Comissió Territorial d'Urbanisme de Terres de l'Ebre (CTUTE) en sessió de 16 de juliol de 2004.

Seguidament, es mostra una imatge extreta del plànol d'ordenació física i parcel·lari indicatiu del Pla Parcial "Portal de Ciutat – Nord":

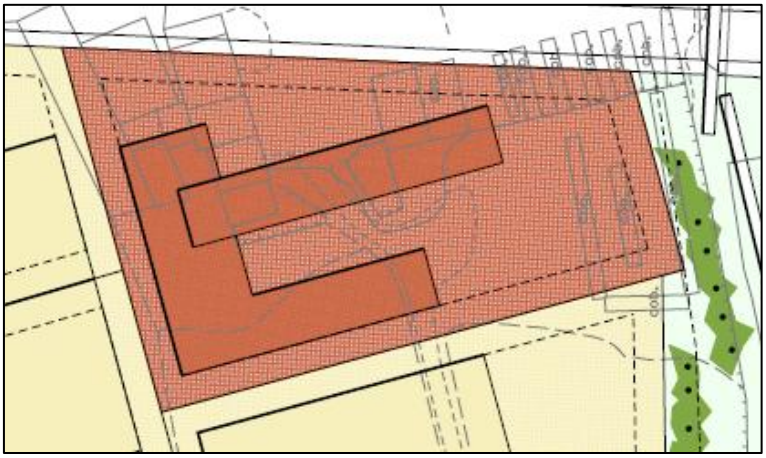
Figura 3. Plànol del Pla Parcial "Portal de Ciutat – Nord".



Al plànol anterior, es destaca, amb un color més intens, l'àmbit de l'actual pavelló municipal del Temple i de la pista poliesportiva a cobrir, qualificat com a equipament.

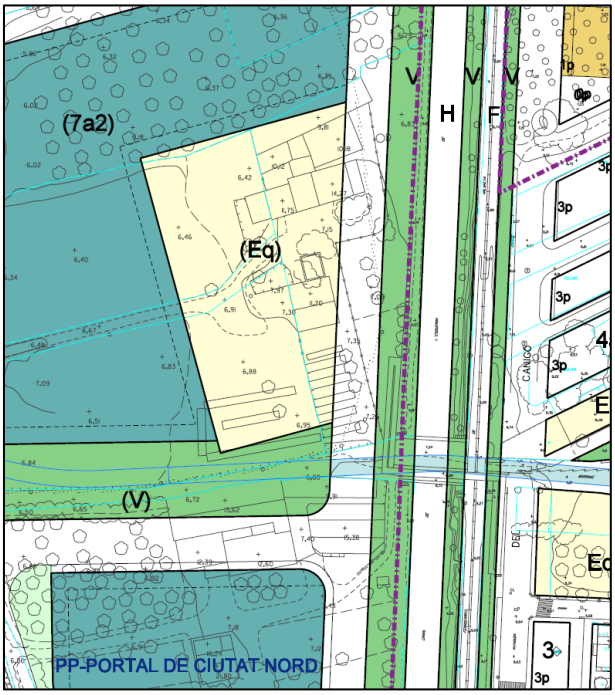
Quant a la separació existent (real) entre el pavelló esportiu del Temple i el muret delimitador amb la parcel·la privada adjacent, aquesta és de quatre (4) metres, distància que s'adopta per a la redacció d'aquest projecte, tal com s'ha indicat des del servei d'Urbanisme de l'Ajuntament de Tortosa.

Figura 4. Detall de l'àmbit qualificat com a equipament.



Aquesta qualificació d'equipament es detalla al Pla d'Ordenació Urbanística Municipal de Tortosa, a la revisió de juliol de 2007, concretament al plànol 4.01 Qualificació i gestió del sòl:

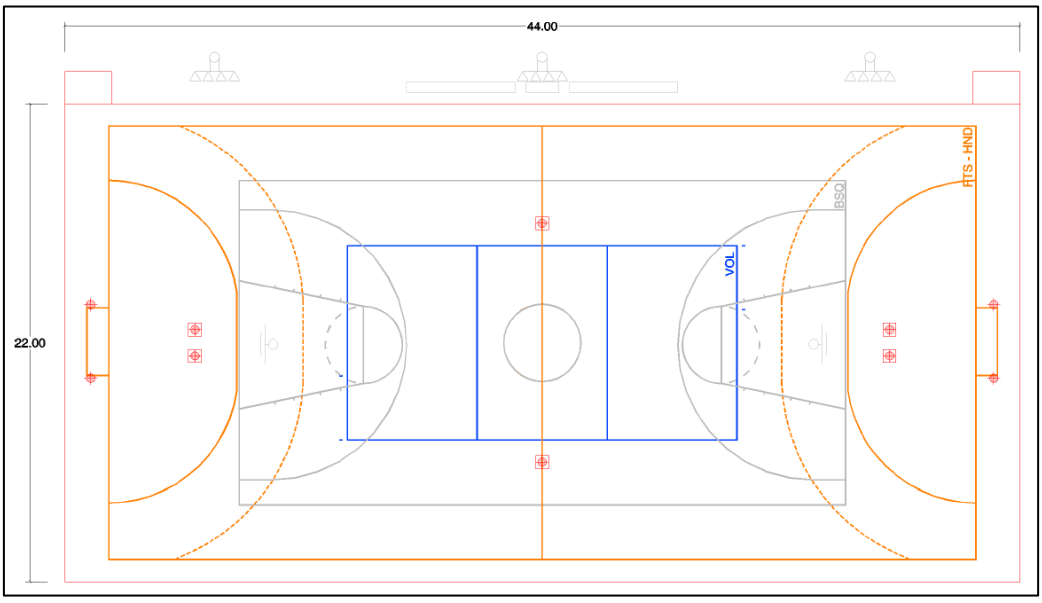
Figura 5. Plànol de qualificació d'equipament de l'àmbit d'objecte d'aquest projecte.



2.1.2. Aspectes normatius establerts pel Consell Català de l'Esport per a les instal·lacions esportives de la xarxa bàsica del PIEC

Després d'un estudi d'alternatives a partir de l'espai disponible i seguint els requeriments tipològics i els aspectes normatius establerts pel Consell Català de l'Esport per a les instal·lacions esportives de la xarxa bàsica del Pla Director d'Instal·lacions i Equipaments Esportius (PIEC), en aquest document, es proposa l'execució d'una pista doble poliesportiva, la qual es coneguda com a POL-2.

Figura 6. Detall extret de la fitxa tècnica de la POL-2 del Consell Català de l'Esport.



3. TOPOGRAFIA I CARTOGRAFIA

Per a la redacció d'aquest projecte, s' ha realitzat un aixecament topogràfic i s'han consultat i utilitzat diferents mapes i plànols per la definició de la proposta que es realitza en aquest projecte.

3.1. Topografia

L'aixecament topogràfic s'ha realitzat amb mitjans i personal propi amb un receptor GPS Geodèsic amb precisió centimètrica marca Trimble, model R6 i una Estació Total Estació Total marca Trimble model S8, amb precisió angular de 1" i amb una precisió en distància de ±(3 mm + 3 ppm). En total s'han aixecat 48 punts en un àmbit de 1.675m².

3.1.1. Llistat de punts

A continuació, es llisten les coordenades dels punts de l'aixecament topogràfic:

Punt	Coord. X	Coord. Y	Coord. Z	Codi
1	290966,007	4519116,159	7,779	pm
2	290967,570	4519112,756	7,758	bor
3	290968,655	4519108,748	7,705	bor
4	290970,626	4519116,186	7,791	pm
6	290971,450	4519116,194	7,841	bor t
7	290972,359	4519112,748	8,109	bor t
9	290972,474	4519112,351	7,828	bor t
12	290974,922	4519113,019	7,887	bor t
13	290975,653	4519110,741	7,857	bor t
14	290987,353	4519113,926	8,067	bor t
15	290986,649	4519116,215	8,062	bor t
17	290986,549	4519116,617	8,239	bor t
18	290998,183	4519119,779	8,387	bor t
20	290998,313	4519119,343	8,241	bor t
21	290999,270	4519117,198	8,221	bor t
22	291003,228	4519118,260	8,277	bor t
23	291002,535	4519120,477	8,279	bor t

Punt	Coord. X	Coord. Y	Coord. Z	Codi
24	290991,181	4519117,853	8,332	bor t
25	290998,115	4519119,734	8,400	bor t
26	291002,413	4519120,927	8,410	bor t
27	290994,350	4519133,710	8,405	bor t
28	290997,729	4519138,331	8,424	bor t
29	290990,245	4519148,933	8,407	bor t
30	290993,735	4519153,150	8,461	bor t
31	290978,928	4519145,057	8,269	co
32	290967,235	4519141,947	8,131	bor t
33	290964,795	4519139,790	8,011	rig
34	290964,641	4519139,744	7,995	rig
35	290964,521	4519139,693	8,022	rig
36	290964,065	4519139,490	8,059	pm
37	290968,128	4519124,974	7,936	pm
38	290968,660	4519124,982	7,909	rig
39	290968,802	4519125,022	7,878	rig
40	290968,947	4519125,084	7,879	rig

Punt	Coord. X	Coord. Y	Coord. Z	Codi
41	290971,099	4519127,415	8,143	bor t
42	290982,799	4519130,561	8,247	co
43	290973,979	4519116,811	8,107	bor t
44	290974,882	4519113,465	8,107	bor t
45	290971,438	4519116,280	7,823	rig
46	290971,287	4519116,244	7,776	rig
47	290971,158	4519116,213	7,814	rig
100	290991,033	4519163,112	8,460	Edi

Punt	Coord. X	Coord. Y	Coord. Z	Codi
101	290990,955	4519163,401	8,460	Edi
102	290960,506	4519154,843	8,150	Edi
103	290960,143	4519155,055	8,150	Edi
120	290989,877	4519167,464	8,460	Edi
121	290974,893	4519163,401	8,460	Edi
122	290962,310	4519159,990	8,460	Edi
123	290958,326	4519159,641	8,460	Edi

3.2. Cartografia

Per la confecció dels plànols s'han utilitzat a mode auxiliar la Cartografia Topogràfica escala 1:1.000 i la Topografia Territorial escala 1:5000 del Catàleg d'alta resolució de l'Institut Cartogràfic de Geològic de Catalunya (ICGC) així com les Ortofotos a escala 1:2.500.

Taula 2. Relació de cartografia de l'ICGC emprada.

Tipus de mapa	Escala
Cartografia Topogràfica	1:1000
Topografia Territorial	1:5.000
Ortofotomapa	1:25 cm vigent

4. ESTAT ACTUAL

En l'actualitat, al costat del pavelló esportiu municipal del Temple, es disposa d'una pista poliesportiva, amb tres pistes de mini bàsquet a l'aire lliure, descobertes, utilitzades habitualment i de manera lliure per a practicar esport.

A més, segons la informació facilitada per l'Ajuntament de Tortosa, hi ha una sèrie d'entitats esportives que, degut al creixement d'esportistes, sol·liciten una ampliació dels recursos esportius per a dur a terme els entrenaments requerits.

És llavors quan apareix la necessitat de cobrir aquesta pista perquè es pugui practicar esport sota d'una coberta, amb el resguard que aquesta ofereix respecte de la meteorologia.

Figura 7. Fotografia de l'àmbit del projecte. Font pròpia.



Figura 8. Fotografia de l'àmbit del projecte, amb el pavelló del Temple al fons. Font pròpia.

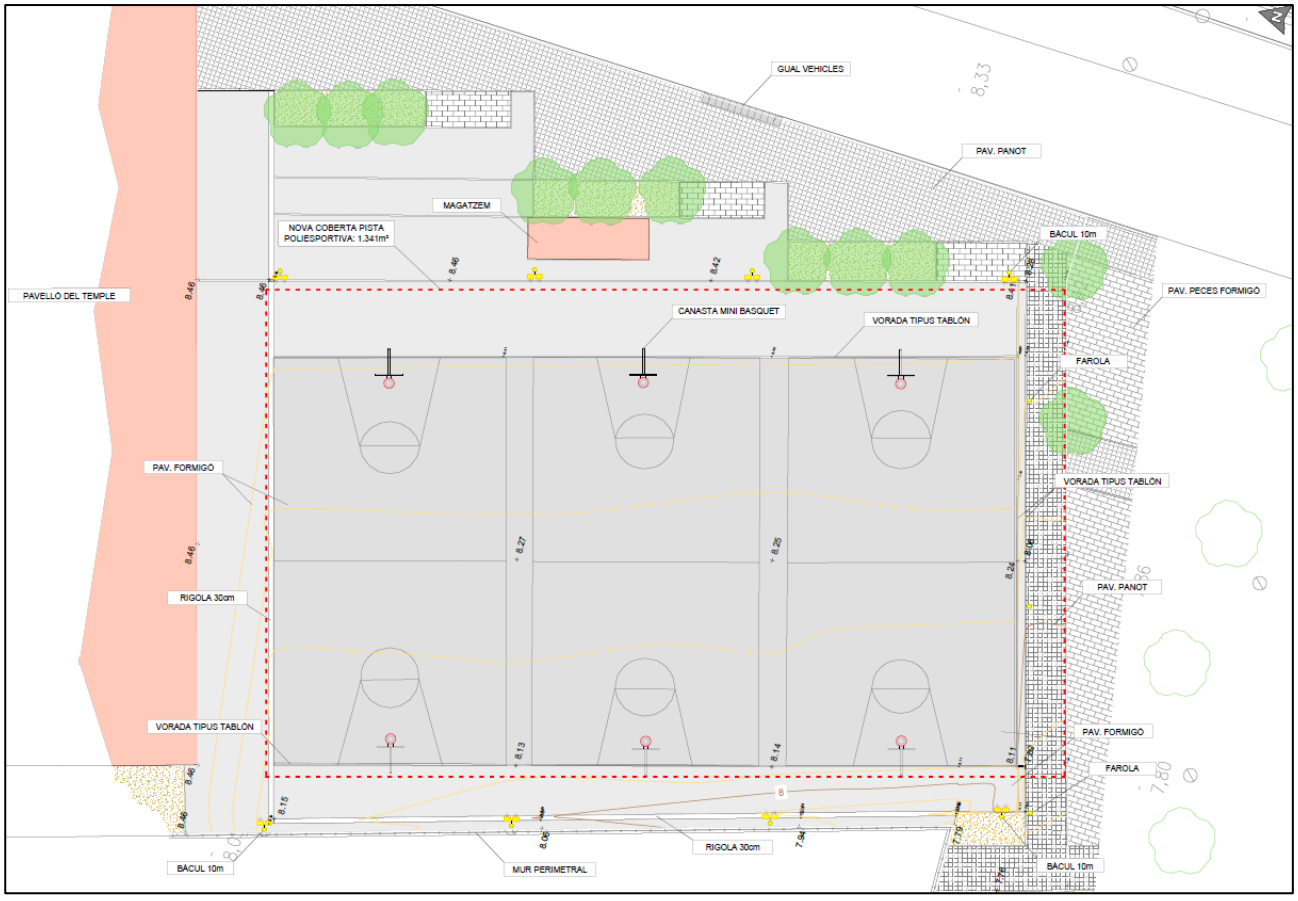


Figura 9. Fotografia de l'àmbit del projecte, amb el pavelló del Temple al fons. Font pròpia.



En la imatge adjunta a continuació, extreta d'un dels plànols d'estat actual i topografia, es pot observar que la nova coberta de la pista poliesportiva serà 1.341 m^2. A la documentació gràfica, es detallen tots els elements existents, com el magatzem, els bàculs d'enllumenat, les cistelles de mini bàsquet i les diverses tipologies de paviment.

Figura 10. Estat actual.



5. DESCRIPCIÓ DE LA SOLUCIÓ ADOPTADA

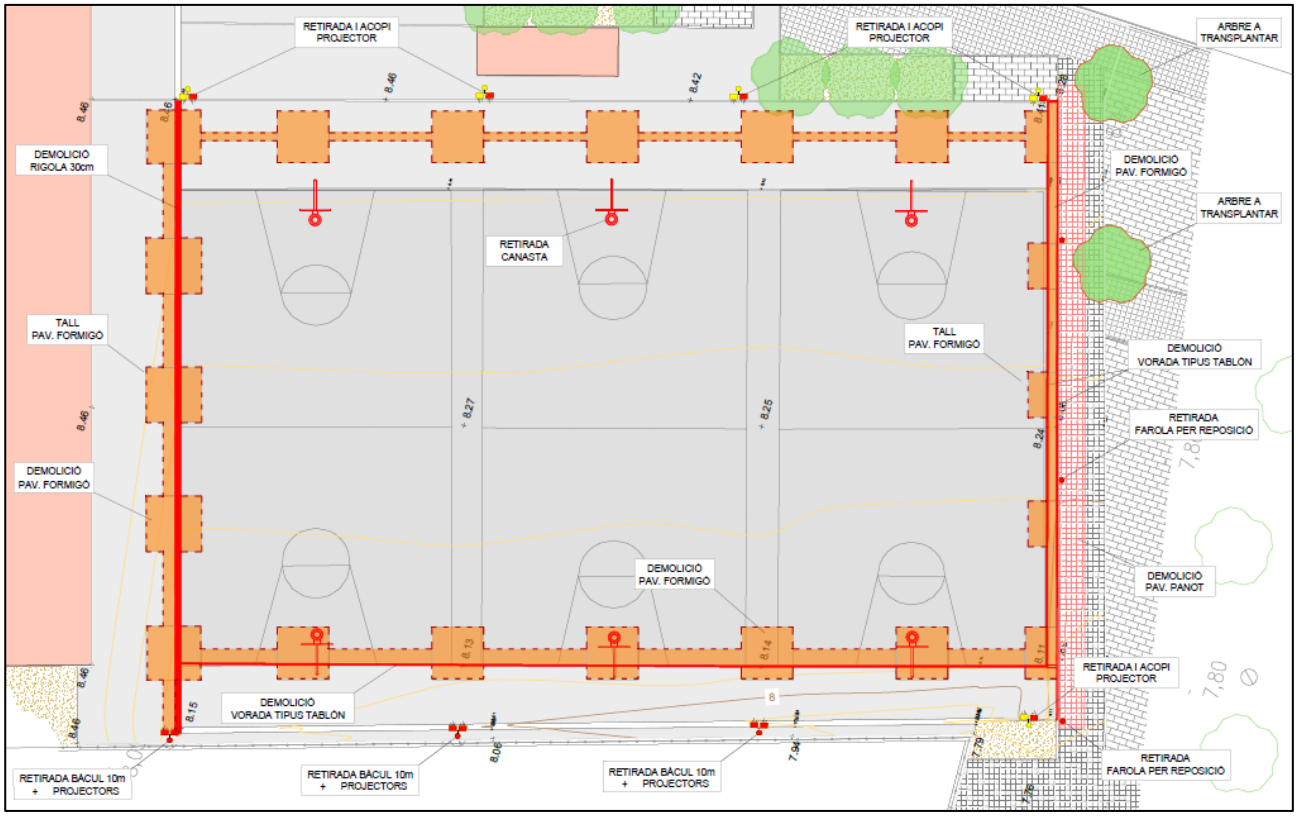
D'acord amb els antecedents i els condicionants ja esmentats anteriorment, es projecta una solució basada en la instal·lació d'una coberta metàl·lica, tal com es detalla als subcapítols següents, basats en les actuacions a realitzar, que són les següents:

- Enderrocs i desmuntatges
- Moviments de terres i fonamentació
- Estructura i coberta
- Ferms i paviments
- Instal·lacions.

5.1. Enderrocs i desmuntatges

El capítol d'enderrocs i desmuntatges, entre altres tasques especificades en els plànols i en el pressupost, inclou les demolicions de paviment de formigó, rigola de formigó, vorada paviment de panots, a més dels desmuntatges de llumeneres, columnes i equipaments esportius.

Figura 11. Imatge extreta del plànol d'enderrocs i desmuntatges d'aquest mateix projecte.



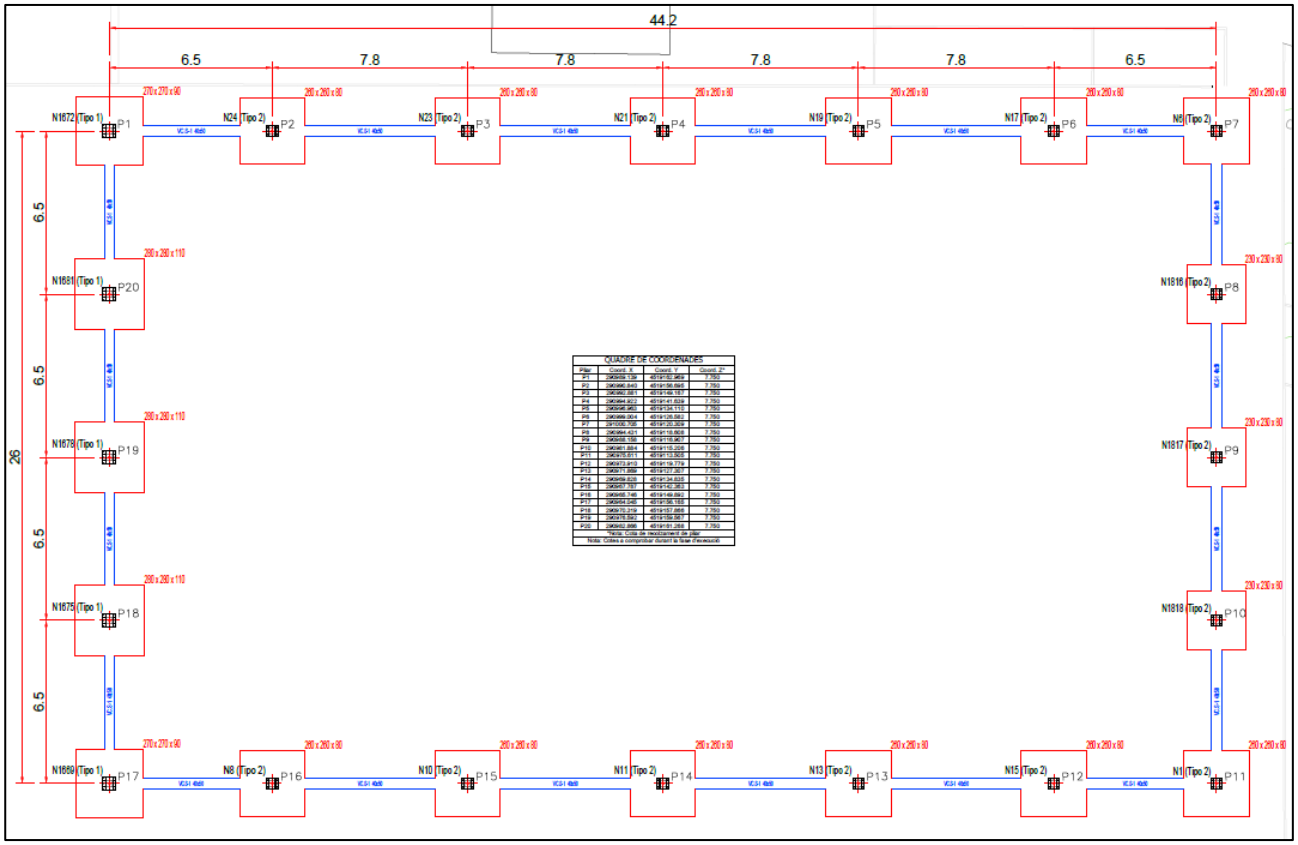
5.2. Moviments de terres i fonamentació

L'apartat de moviment de terres contemplat al pressupost inclou els metres cúbics d'excavació per tal d'executar, a posteriori, la fonamentació de l'estructura de la coberta.

En relació a la pròpia fonamentació, es durant a terme, in situ, sabates amb formigó armat compost per: formigó HA-25 i armadura per a enceps AP 500 S en barres corrugades d'acer B 500 S.

En total, es construiran 20 sabates, les mides de les quals varien entre 280x280x110 mm, 270x270x90 mm, 260x260x80 mm i 230x230x80 mm.

Figura 12. Replanteig de la fonamentació.



5.3. Estructura i coberta

Tal com ja s'ha anat indicant anteriorment, l'objectiu principal d'aquest projecte rau en cobrir la pista poliesportiva actual. Per tant, es proposa **una coberta de 1.341 metres quadrats**, amb les característiques següents:

Coberta amb perfil nervat de planxa d'acer per a cobertes galvanitzada i lacada, **amb 4 nervis separats entre 250 i 275 mm** i una alçària entre 30 i 35 mm, de **0,6 mm de gruix**, amb una inèrcia entre 8 i 9 cm^4 i una massa superficial entre 5 i 6 Kg/m^2, acabat llis de color estàndard, col·locat amb fixacions mecàniques.

Quant a la pròpia estructura, aquesta és galvanitzada en calent, d'acer S235, composta d'una retícula espacial de barres tubulars (de Ø40x3mm a Ø60x3 mm), connectades entre elles mitjançant unions

caragolades a nusos de 8 eixos amb xapes de gruix 6mm, 5mm i 4mm solapades parcialment entre elles, formant mòduls d'1,3 metres, connectada a pilars mitjançant caragols d'M27, qualitat 8.8, per a cobrir llums superiors a 10 m. Tota fabricada, subministrada i instal·lada sota la norma UNE 1090.

Es poden consultar els detalls dels càlculs estructurals a l'**annex 2, Càlcul d'estructures**.

Figura 13. Planta projecte de la coberta inclinada.

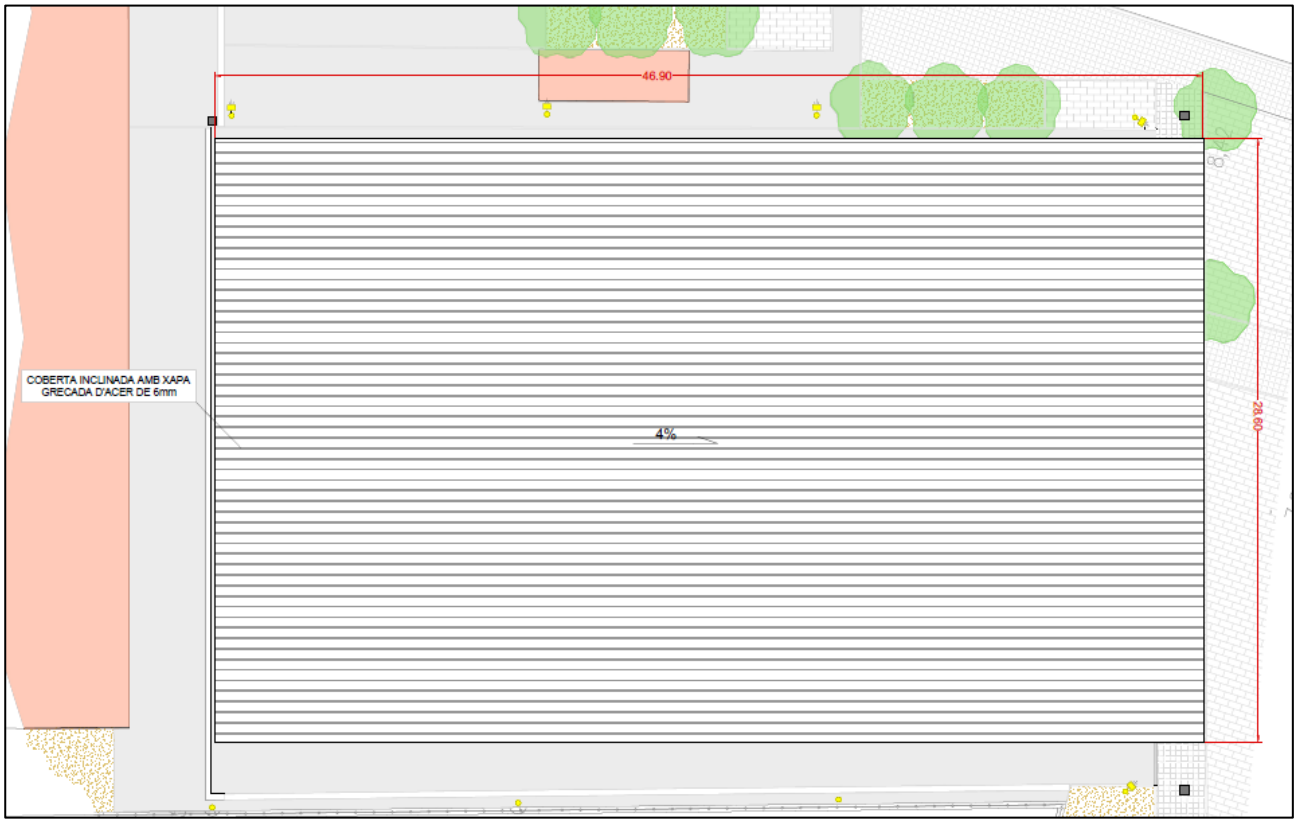
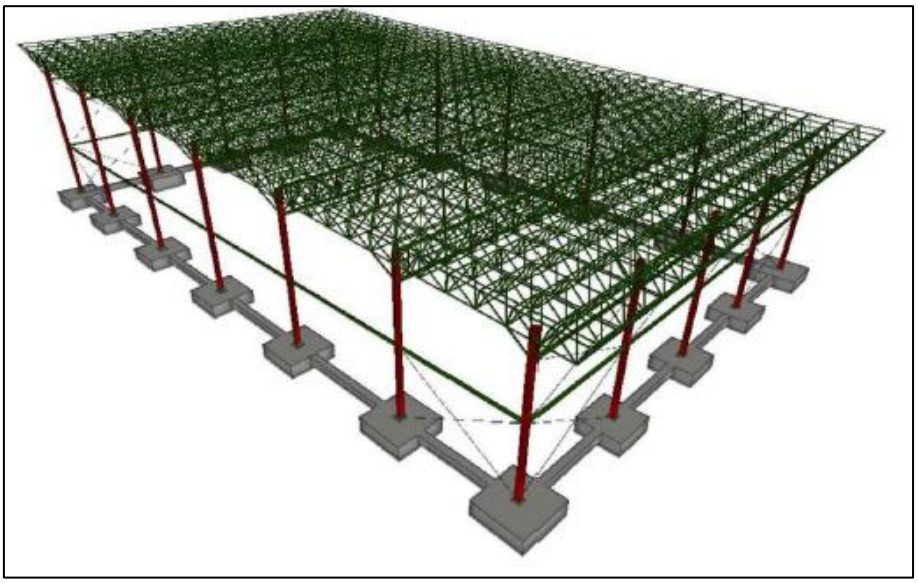


Figura 14. Vista tridimensional de l'estructura projectada.



En aquest apartat, també s'inclouen dos baixants per a les aigües pluvials recollides a la coberta, al costat sud, a la part més baixa de la coberta, tal com està dibuixat als plànols d'aquest projecte i com es pot observar a les imatges següents:

Figura 15. Detall extret de l'alçat est dels plànols.

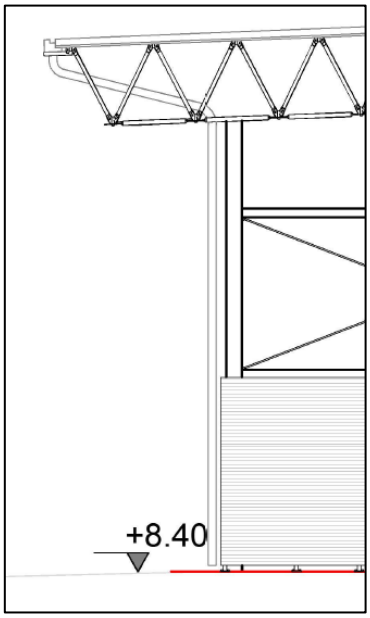


Figura 16. Detall extret de l'alçat oest dels plànols.

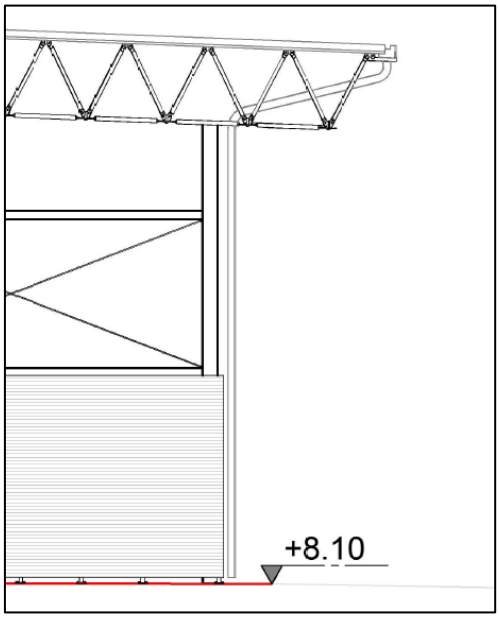


Figura 17. Imatges de detalls constructius dels baixants d'aigües pluvials.



Figura 18. Imatges de detalls constructius dels baixants d'aigües pluvials.

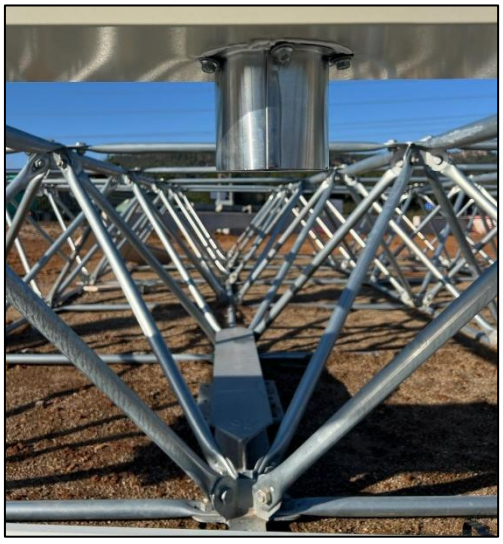


Figura 19. Imatges de detalls constructius dels baixants d'aigües pluvials.



Figura 20. Imatges de detalls constructius dels baixants d'aigües pluvials.



5.4. Paviments i tancament perimetral

En aquest subcapítol, s'expliquen les feines previstes a realitzar de cara a la pavimentació de la pista i els seus voltants. Es contemplen les següents tipologies de paviments:

- Paviment de formigó per a paviments HF-3,5 MPa, amb acabat ratllat manual.
- Paviment de formigó per a paviments HF-3,5 MPa, amb acabat remolinat mecànic.
- Peça recta de formigó per a vorades.
- Rigola de 30 cm d'amplària de peça prefabricada de formigó, per a cuneta de 30x12 cm amb canal en V a la cara superior.
- Paviment de panot per a vorera de color de 20x20x4 cm, amb base de formigó en massa HM-20.

A més, també s'hi inclou el tancament perimetral de la pista, amb:

- Dos (2) portes metàl·liques de xapa ondulada d'acer galvanitzat, de fulla corredissa, dimensions 450x300 cm, perfils rectangulars en cèrcol sòcol inferior realitzat amb xapa grecada de 1,2 mm d'espessor a dos cares, per a accés de vehicles i amb porta per a vianants integrada de 100x210cm.
- Clos d'estructura de característiques similars al pavelló del Temple, format per panells de xapa ondulada d'acer galvanitzat d'1mm d'espessor, amb bastidor electrosoldat i pals de perfil buit d'acer galvanitzat.

Figura 21. Tancament del pavelló del Temple.



Figura 22. Alçat sud, on s'aprecien el tancaments.

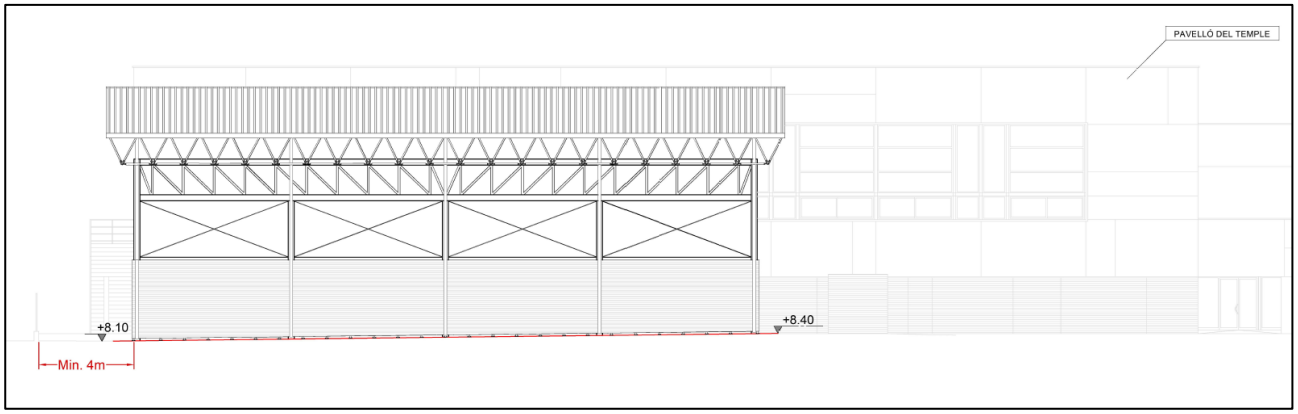


Figura 23. Alçat nord, on s'aprecien el tancaments.

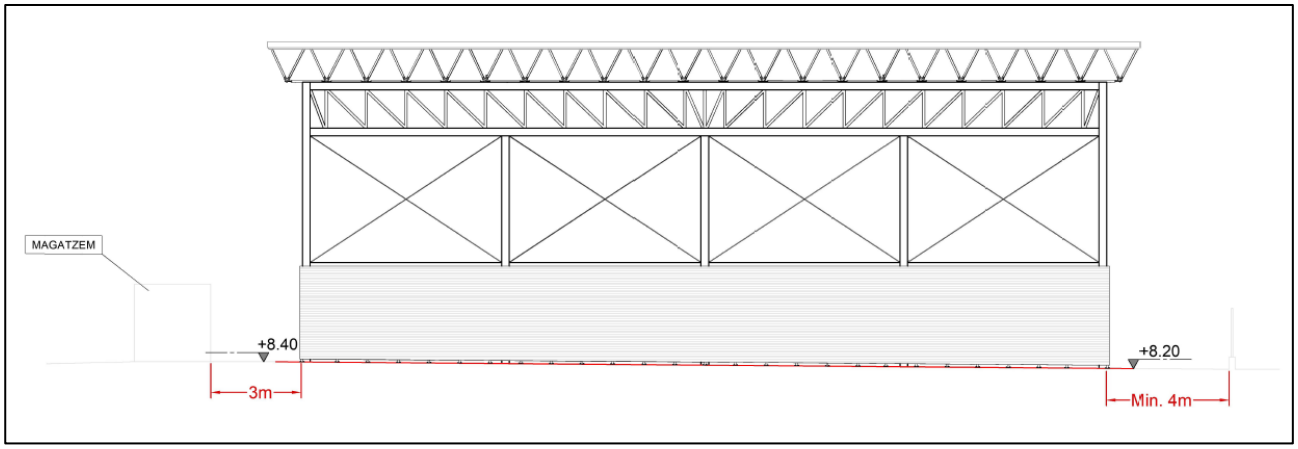


Figura 24. Alçat est, on s'aprecien el tancaments.

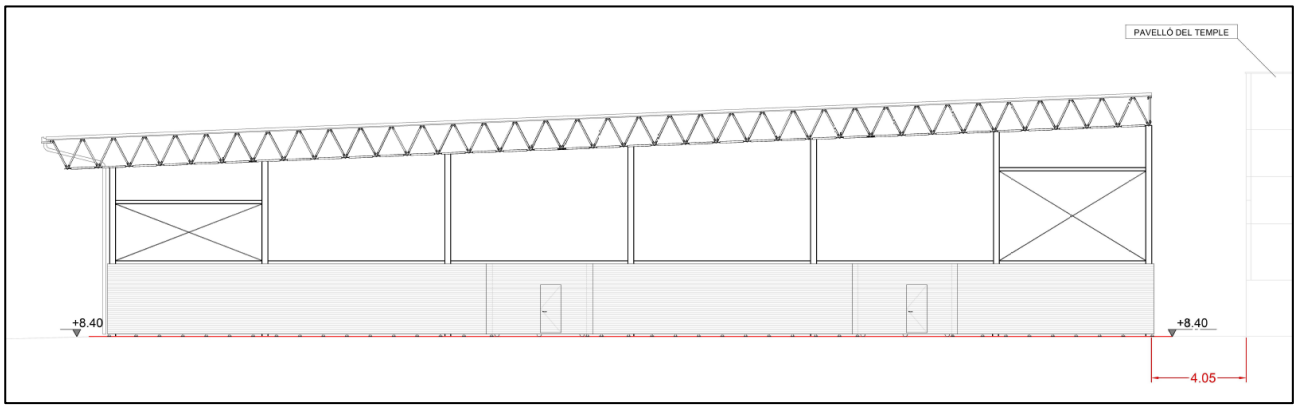
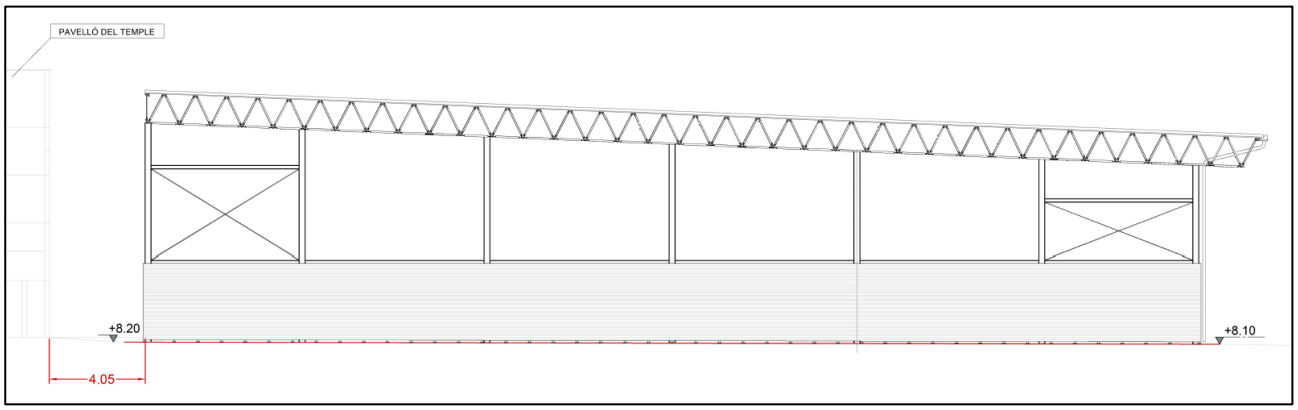


Figura 25. Alçat oest, on s'aprecien el tancaments.



5.5. Instal·lacions

En relació a les instal·lacions, per un costat, hi ha l'enllumenat; i, per l'altre, la il·luminació de la pista.

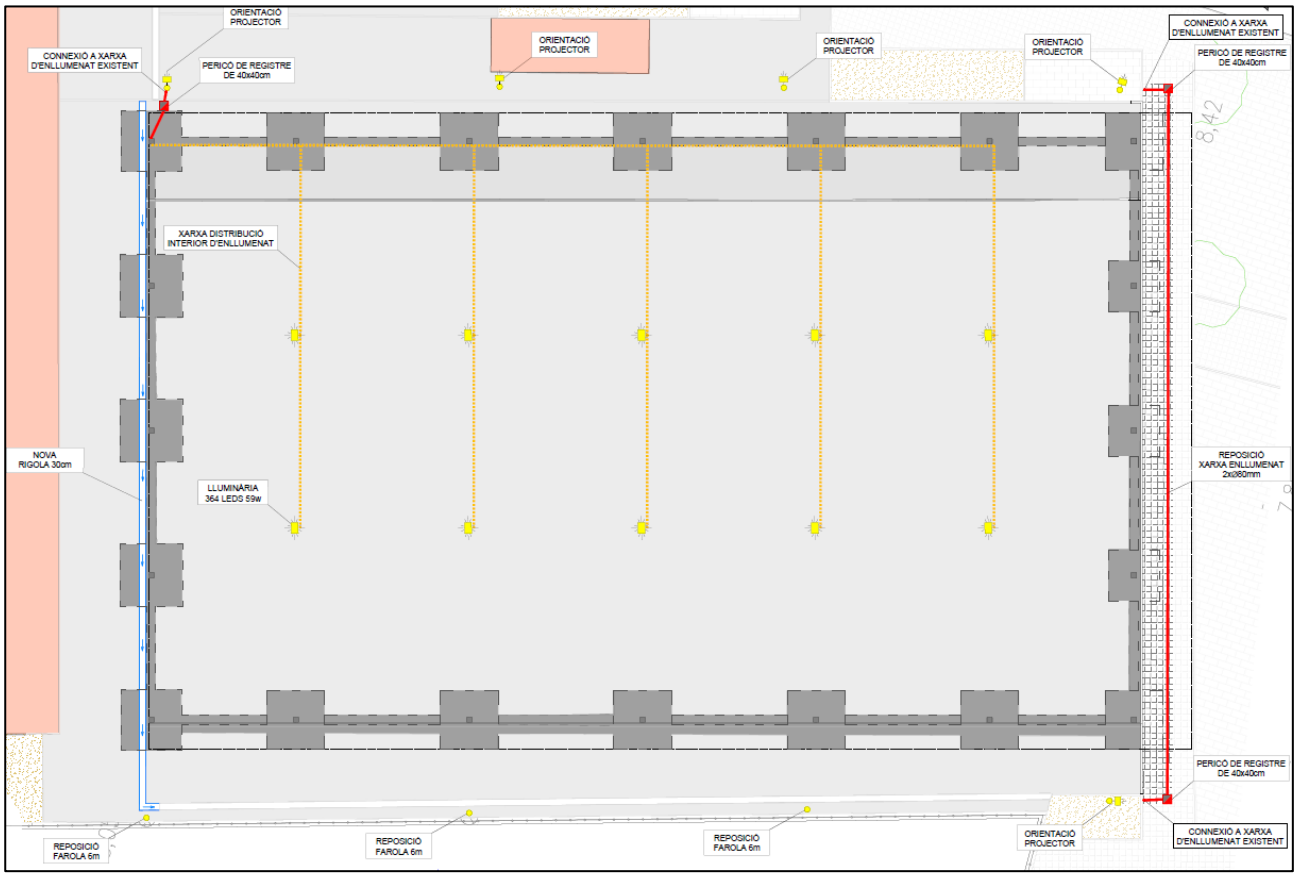
En el subapartat d'enllumenat, s'inclou:

- Canalització amb dos tubs de PVC corrugat de diàmetre nominal DN80mm.
- Cable amb conductor de coure de tensió assignada0,6/1 kV, de designació RV-K.
- Tres pericons de registre de formigó prefabricat.
- Recol·locació de tres faroles existents de secció circular.
- Reorientació de cinc llumeneres existents per a vials.

I, en relació a la il·luminació de la pista:

- Deu unitats de campanes LED per a indústria, no regulable, de 278 mm de diàmetre i 162 mm d'altura, de 100 W, alimentació a 220/240 V i 50-60 Hz, amb llum LED SMD, temperatura de color 4000 K.

Figura 26. Planta d'instal·lacions.



6. SERVEIS AFECTATS I EXPROPIACIONS

6.1. Serveis afectats

En les visites de camp a l'àmbit del projecte i a les reunions amb l'Ajuntament de Tortosa, s'han identificat els següents serveis afectats per la realització de les obres:

- L'enllumenat públic.
- La rigola lateral, cuneta, que recull les aigües pluvials pel lateral.

6.2. Expropiacions

No es contempla cap expropiació, ja que es tracta, de cobrir l'equipament existent.

7. PLANIFICACIÓ D'OBRA

La planificació i plantejament dels treballs constitueix l'Annex núm. 4, *Programa de Treballs*, d'aquest projecte.

El contractista presentarà un programa de treballs que s'haurà d'ajustar al termini previst.

8. TERMINI D'EXECUCIÓ I GARANTIA

El termini d'execució de les obres s'estableix en **TRES (3) MESOS**.

El termini de garantia s'estableix en **UN (1) ANY** a partir de la recepció definitiva de les obres per part de l'empresa Promotora.

Durant aquest període el Contractista està obligat a la conservació, manteniment i reparació de les obres fins a la recepció definitiva de les mateixes. Per a dites feines, no s'ha previst cap abonament independent, ja que es considera que les despeses ocasionades per aquestes reparacions o qualsevol altre derivat de les mateixes està inclòs en els preus unitaris corresponents a les diferents Unitats d'Obra.

9. CONTROL DE QUALITAT

Per compte del Contractista, i fins a l'u per cent (1%) de l'import del pressupost d'execució material (PEM), anirà l'abonament de les factures del laboratori que es derivin del control de qualitat, segons l'esquema aprovat per la Propietat d'acord amb la Direcció Facultativa.

A criteri de la Direcció Facultativa, o Serveis Tècnics de la Propietat, es podrà ampliar o reduir el nombre de controls, que s'abonaran sempre a partir dels preus acceptats.

9.1. Acer

- Determinació de les característiques geomètriques d'una proveta d'acer per a armar formigons, segons la norma UNE EN ISO 15630-1.
- Determinació del límit elàstic per a una deformació romanent del 0.2%, resistència a la tracció, allargament i estricció d'una proveta d'acer per a armar formigons, segons la norma UNE-EN ISO 15630-1.
- Assaig de doblegament-desdoblegament d'una proveta d'acer per a armar formigons, segons la norma UNE-EN ISO 15630-1.
- Determinació de l'àrea de la secció recta transversal equivalent d'una proveta d'acer per armar formigons, segons la norma UNE36068.
- Mesura del desplom i de la fletxa d'elements verticals i bigues d'acer, segons la instrucció EAE-11 art. 9.2.2.2.
- Jornada per a inspecció visual d'unions soldades segons les normes UNE 14044 i UNE EN 13018 i per a assaig mitjançant partícules magnètiques i/o líquids penetrants segons les normes UNE-EN ISO 17638 i UNE EN 571-1 i la seva acceptació segons les normes UNE-EN ISO 23277 i UNE-EN ISO 23278.

9.2. Formigó

- Mesura de la consistència pel mètode del con d'Abrams d'una mostra de formigó fresc, segons la norma UNE-EN 12350-2.

- Mostreig, realització de con d'Abrams, elaboració de les provetes, cura, recapçament i assaig a compressió d'una sèrie de cinc provetes cilíndriques de 15x30 cm, segons la norma UNE-EN 12350-1, UNE-EN 12350-2, UNE-EN 12390-1, UNE-EN 12390-2 i UNE-EN 12390-3.
- Determinació del contingut d'aire pel mètode de pressió d'una mostra de formigó fresc, segons la norma UNE-EN 12350-7.
- Extracció amb determinació del gruix d'un testimoni de formigó d'una capa de paviment.
- Determinació in situ, mitjançant pèndol de fricció, de la resistència al lliscament/relliscada de paviments polits i no polits, segons la norma UNE ENV 12633.

9.3. Coberta

- *Replanteig:* Situació i les dimensions dels elements es corresponen amb les mides i formes referides al projecte executiu o als plànols definitius del final d'obra.
- *Geometria:* Els materials i sistemes subministrats corresponen amb els indicats al projecte i que la seva recepció s'ha efectuat d'acord amb les exigències normatives vigents.
- *Col·locació:* Abans de la col·locació, es verificarà que es donen les condicions necessàries per a la seva correcta disposició.
- *Execució:* Es comprovarà la correcta disposició i execució d'acord amb les prescripcions i detalls del projecte i que es compleixen les condicions i restriccions referides a la normativa que els afecta.
- *Materials:* S'inspeccionarà la seva correcta disposició, geomètrica i funcionalitat per comprovar que es troba dins de les toleràncies d'acceptació definides al projecte i a la normativa que li aplica.
- *Prova d'estanquitat de cobertes:* CTE HS1 Protecció front la humitat.

10. GESTIÓ DE RESIDUS

En compliment del Reial Decret 105/2008, d'1 de febrer, pel qual es regula la producció i gestió dels residus de construcció i demolició, i en compliment del Decret 89/2010, de 29 de juny, pel qual s'aprova el Programa de gestió de residus de la construcció de Catalunya (PROGROC), es regula la producció i gestió de residus de la construcció i demolició, i el cànon sobre la deposició controlada dels residus de la construcció, corresponents a la normativa catalana vigent, es realitza un Estudi de Gestió de Residus.

El pressupost d'execució material dedicat a la gestió de residus puja la quantitat de **5.403,83 €**. Els costos de la gestió de residus estan inclosos de manera proporcional als preus simples del pressupost general.

Figura 27. Detall del capítol de gestió de residus del pressupost.

Obra			01	Pressupost PRE_COBERTA TEMPLE			
Capítol			08	GESTIÓ DE RESIDUS			
NUM.	CODI	UA	DESCRIPCIÓ		PREU	AMIDAMENT	IMPORT
1	P2R6-4I5G	m3	Càrrega amb mitjans mecànics i transport de residus inerts o no especials a instal·lació autoritzada de gestió de residus, amb camió per a transport de 12 t, amb un recorregut de més de 10 i fins a 15 km (P - 18)		10,64	256,310	2.727,14
2	P2RA-EU2R	m3	Disposició controlada en dipòsit autoritzat inclòs el cànon sobre la deposició controlada dels residus de la construcció, segons la LLEI 8/2008, de residus de formigó inerts amb una densitat 1,45 t/m3, procedents de construcció o demolició, amb codi 17 01 01 segons la Llista Europea de Residus (P - 19)		15,57	53,850	838,44
3	P2RA-EU2T	m3	Disposició controlada en dipòsit autoritzat inclòs el cànon sobre la deposició controlada dels residus de la construcció, segons la LLEI 8/2008, de residus de terra inerts amb una densitat 1,6 t/m3, procedents d'excavació, amb codi 17 05 04 segons la Llista Europea de Residus (P - 20)		9,08	202,450	1.838,25
TOTAL	**Capítol**		**01.08**				**5.403,83**

Atenent l'article 5.1 del R.D. 105/2008, abans d'iniciar les obres, el posseïdor dels residus que correspon al que executa l'obra, haurà de presentar a la propietat un *Pla de gestió de residus de construcció i demolició*, que haurà de ser aprovat per la Direcció Facultativa i acceptat per la propietat.

11. SEGURETAT I SALUT

En aplicació de l'article 4 del Reial Decret 1627/1997, de 24 d'octubre, pel qual s'implanta l'obligatorietat de la inclusió d'un Estudi de Seguretat i Salut o Estudi Bàsic de Seguretat i Salut, s'adjunta el mateix en l'*Annex núm. 6 Estudi de Seguretat i Salut*.

És obligació del contractista el compliment de tota la normativa que faci referència a la prevenció de Riscos Laborals i a la Seguretat i Salut en la Construcció, en concret de la Llei 31/1995, de 8 de novembre, de Prevenció de Riscos Laborals (BOE 269 de 10/11/1995) i del Reial Decret 1627/1997, de 24 d'octubre, pel que s'estableixen les disposicions mínimes de Seguretat i Salut en les obres de Construcció (BOE 265 de 25/10/1997), i posteriors modificacions d'ambdues.

El pressupost d'execució material dedicat a Seguretat i Salut de les obres, puja la quantitat de **1.000 €**. Els costos relatius a aquesta activitat estan inclosos en el Capítol de Seguretat i Salut del Pressupost General.

D'acord amb l'article 7 de l' esmentat Reial Decret, el contractista ha d'elaborar un Pla de Seguretat i Salut, en el que desenvolupi i adopti les mesures referides en l'Estudi Bàsic de Seguretat i Salut contingut en aquest projecte, adaptant-lo a les circumstàncies físiques de mitjans i mètodes amb que executi els treballs.

El **Pla de Seguretat i Salut** haurà de ser aprovat pel **Coordinador/a de Seguretat i Salut de les obres** abans de que aquestes s'iniciïn.

12. PRESSUPOST

En el present apartat, es defineix el pressupost del *Projecte executiu d'instal·lació de coberta a les pistes poliesportives del pavelló del Temple*.

Aquest pressupost inclou totes les despeses corresponents a l'execució de les actuacions proposades en aquest projecte. Tenint en compte l'exposat, el Pressupost, queda desglossat de la manera següent:

PRESSUPOST D'EXECUCIÓ MATERIAL.....		229.991,34
13 % DESPESES GENERALS SOBRE 229.991,34.....		29.898,87
6 % BENEFICI INDUSTRIAL SOBRE 229.991,34.....		13.799,48
	Subtotal	273.689,69
21 % IVA SOBRE 273.689,69.....		57.474,83
TOTAL PRESSUPOST PER CONTRACTE	€	331.164,52

Per tant, el total del Pressupost d'Execució per Contracte és de **TRES-CENTS TRENTA-UN MIL CENT SEIXANTA-QUATRE EUROS AMB CINQUANTA-DOS CÈNTIMS (331.164,52 €)**.

El detall del pressupost i dels diferents apartats del mateix consten en l'Annex núm. 7, *Pressupost per al coneixement de l'administració*, i al document número 4, *Pressupost*, del projecte.

13. DOCUMENTS QUE COMPOSEN EL PROJECTE

El present projecte està format pels següents documents:

DOCUMENT Núm. 1 MEMÒRIA I ANNEXOS

MEMÒRIA

ANNEXOS

ANNEX Núm. 1. *REPORTATGE FOTOGRÀFIC*
ANNEX Núm. 2. *CÀLCUL D'ESTRUCTURES*
ANNEX Núm. 3. *ESTUDI LUMÍNIC*

ANNEX Núm. 4. *PROGRAMA DE TREBALLS*

ANNEX Núm. 5. *ESTUDI DE GESTIÓ DE RESIDUS*

ANNEX Núm. 6. *ESTUDI DE SEGURETAT I SALUT*

ANNEX Núm. 7. *PRESSUPOST PER AL CONEIXEMENT DE L'ADMINISTRACIÓ*

DOCUMENT Núm. 2.- PLÀNOLS

PLÀNOL Núm. 1. SITUACIÓ I EMPLAÇAMENT

PLÀNOL Núm. 2.1. ESTAT ACTUAL I TOPOGRAFIA

PLÀNOL Núm. 2.2. ESTAT ACTUAL I TOPOGRAFIA

PLÀNOL Núm. 3. DEMOLICIONS I ENDERROCS

PLÀNOL Núm. 4.1. PLANTA I ALÇATS PROJECTE. DETALL PLANTA.

PLÀNOL Núm. 4.2. PLANTA I ALÇATS PROJECTE. DETALL COBERTA.

PLÀNOL Núm. 4.3. PLANTA I ALÇATS PROJECTE. ALÇATS SUD I NORD.

PLÀNOL Núm. 4.4. PLANTA I ALÇATS PROJECTE. ALÇATS EST I OEST.

PLÀNOL Núm. 4.5. PLANTA I ALÇATS PROJECTE. DETALLS CONSTRUCTIUS TANCAMENT.

PLÀNOL Núm. 4.6. PLANTA I ALÇATS PROJECTE. DETALLS CONSTRUCTIUS COBERTA.

PLÀNOL Núm. 5.1. FONAMENTACIÓ I ESTRUCTURA. REPLANTEIG FONAMENTACIÓ.

PLÀNOL Núm. 5.2. FONAMENTACIÓ I ESTRUCTURA. DETALLS SABATES AÏLLADES.

PLÀNOL Núm. 5.3. FONAMENTACIÓ I ESTRUCTURA. DETALLS BIGUES CENTRADORES.

PLÀNOL Núm. 5.4. FONAMENTACIÓ I ESTRUCTURA. DETALLS ANCORATGES.

PLÀNOL Núm. 5.5. FONAMENTACIÓ I ESTRUCTURA. DETALLS UNIONS.

PLÀNOL Núm. 5.6. FONAMENTACIÓ I ESTRUCTURA. ALÇATS LONGITUDINALS.

PLÀNOL Núm. 5.7. FONAMENTACIÓ I ESTRUCTURA. ENCAVALLADES I.

PLÀNOL Núm. 5.8. FONAMENTACIÓ I ESTRUCTURA. ENCAVALLADES II.

PLÀNOL Núm. 5.9. FONAMENTACIÓ I ESTRUCTURA. ENCAVALLADES III, VISTES 3D.

PLÀNOL Núm. 5.10. FONAMENTACIÓ I ESTRUCTURA. VISTA ESTRUCTURA 3D.

PLÀNOL Núm. 6. PLANTA INSTAL·LACIONS

DOCUMENT Núm. 3.- PLEC DE PRESCRIPCIONS TÈCNIQUES

PLEC DE PRESCRIPCIONS TÈCNIQUES GENERALS

PLEC DE PRESCRIPCIONS TÈCNIQUES PARTICULARS

DOCUMENT Núm. 4.- PRESSUPOST

QUADRE PREUS NÚM. 1

QUADRE PREUS NÚM. 2

JUSTIFICACIÓ DE PREUS

AMIDAMENTS

PRESSUPOST

RESUM DE PRESSUPOST

ÚLTIM FULL

Tortosa, a la data de la signatura digital.



Àngel Mulet Baubí

Enginyer de camins, canals i ports

Col·legiat núm. 31.205

Alter Enginyeria Aplicada, SLP

ANNEX 01 – REPORTATGE FOTOGRÀFIC

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1. INTRODUCCIÓ 2

2. REPORTATGE FOTOGRÀFIC 2

1. INTRODUCCIÓ

Les fotografies d'aquest annex han estat realitzades durant les visites en la fase de redacció del projecte.

2. REPORTATGE FOTOGRÀFIC

Figura 1. Imatge de les instal·lacions existents. Font pròpia.



Figura 2. Imatge de les instal·lacions existents. Font pròpia.



Figura 3. Imatge de les instal·lacions existents. Font pròpia.



Figura 4. Imatge de les instal·lacions existents. Font pròpia.

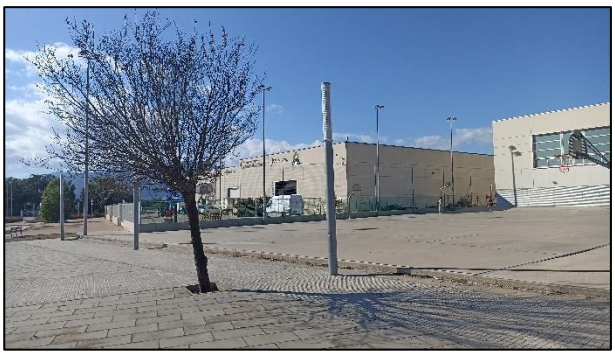


Figura 5. Imatge de les instal·lacions existents. Font pròpia.



Figura 6. Imatge de les instal·lacions existents. Font pròpia.

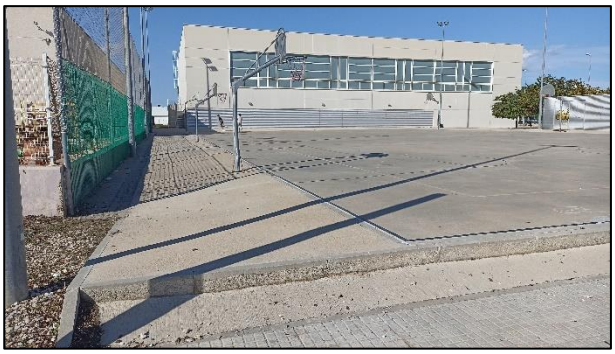


Figura 7. Imatge de les instal·lacions existents. Font pròpia.



Figura 8. Imatge de les instal·lacions existents. Font pròpia.

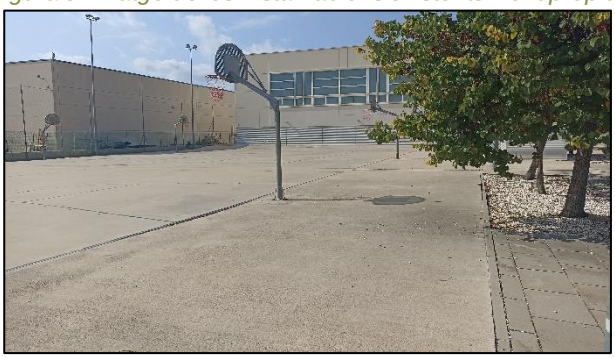


Figura 9. Imatge de les instal·lacions existents. Font pròpia.



Figura 10. Imatge de les instal·lacions existents. Font pròpia.

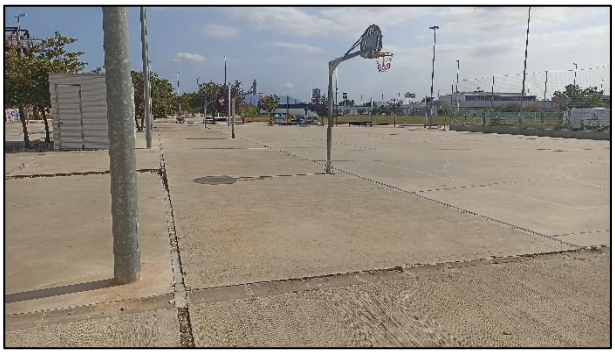


Figura 11. Imatge de les instal·lacions existents. Font pròpia.



Figura 12. Imatge de les instal·lacions existents. Font pròpia.



Figura 13. Imatge de les instal·lacions existents. Font pròpia.



Figura 14. Imatge de les instal·lacions existents. Font pròpia.



Figura 15. Imatge de les instal·lacions existents. Font pròpia.



Figura 16. Imatge de les instal·lacions existents. Font pròpia.



Figura 17. Imatge de les instal·lacions existents. Font pròpia.



Figura 18. Imatge de les instal·lacions existents. Font pròpia.



Figura 19. Imatge de les instal·lacions existents. Font pròpia.



Figura 20. Imatge de les instal·lacions existents. Font pròpia.



ANNEX 02 – CÀLCUL D'ESTRUCTURES

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1. INTRODUCCIÓ

En aquest document es recullen totes les dades necessàries, així com les hipòtesis tingudes en compte per al càlcul de l'estructura la coberta metàl·lica per a les pistes esportives existents situades al costat del pavelló del Temple, a la ciutat de Tortosa.

La coberta s'ha adaptat a les dimensions existents en planta, de forma que els pòrtics i els pilars s'han modulat en base a la organització funcional de les mateixes, així com respectant les distàncies a edificacions veïnes segons el planejament vigent.

Per tal de no generar problemes amb l'evacuació de l'aigua de pluja, la coberta s'ha concebut a una sola aigua (pendent 4%) i amb una alçada mínima de 5,72 m al seu punt més baix per a garantir un espai lliure en alçada compatible amb els esports que s'hi han de practicar.

D'altra banda, la coberta ja contempla l'existència d'un tancament perimetral de les pistes en fases posteriors, així com la capacitat de disposar-hi plaques fotovoltaiques a sobre.

IMPORTANT:

Si, en fase d'obra, es proposa un canvi estructural, caldrà justificar-ho correctament amb els càlculs i les observacions oportunes.

1.1. Estructura

L'estructura de la coberta és completament metàl·lica, utilitzant pòrtics amb encavallades i una malla espacial de tetraedres formant la coberta pròpiament dita.

Tots els perfils metàl·lics utilitzats en el càlcul són tubulars perquè es considera que tant estèticament, com estructuralment, són els més indicats.

En els plànols de l'estructura, les cotes han de coincidir amb les dels plànols arquitectònics ja que són aquests últims els que fixaran la geometria precisa de l'obra. Queda segons el parer de la Direcció Facultativa de l'obra, si les variacions que puguin existir entre tots dos per diverses causes, són admissibles o han de ser reconsiderades en l'anàlisi de l'estructura. L'exposat ha de ser així, per a evitar errors greus que es generin en la construcció de l'obra en contemplar-se més d'un plànol de cotes.

1.2. Fonamentació

La fonamentació és de tipus superficial, tota ella de formigó armat. Es composa de sabates aïllades centrades sota cada pilar unides per bigues centradores seguint el perímetre del tancament de les pistes.

1.3. Mètode de càlcul

1.3.1. Formigó armat

Per a l'obtenció de les sol·licitacions s'ha considerat els principis de la Mecànica Racional i les teories clàssiques de la Resistència de Materials i Elasticitat.

El mètode de càlcul aplicat és dels Estats Límits, en el qual es pretén limitar que l'efecte de les accions exteriors ponderades per uns coeficients, sigui inferior a la resposta de l'estructura, minorant les resistències dels materials. En els estats límits últims es comproven els corresponents a: equilibri, esgotament o trencament, adherència, ancoratge i fatiga (si és procedent). En els estats límits d'utilització, es comprova: deformacions (fletxes), i vibracions (si és procedent).

Definits els estats de càrrega segons el seu origen, es procedeix a calcular les combinacions possibles amb els coeficients de majoració i minoració corresponents d'acord amb els coeficients de seguretat definits en l'annex 18 del C.E.21 i les combinacions d'hipòtesis bàsiques definides en l'annex 19.

Situacions no sísmiques

$$\sum_{j \geq 1} \gamma_{Gj} G_{kj} + \gamma_{Q1} \Psi_{p1} Q_{k1} + \sum_{i > 1} \gamma_{Qi} \Psi_{ai} Q_{ki}$$

Situacions sísmiques

$$\sum_{j \geq 1} \gamma_{Gj} G_{kj} + \gamma_{A} A_{E} + \sum_{i \geq 1} \gamma_{Qi} \Psi_{ai} Q_{ki}$$

L'obtenció dels esforços en les diferents hipòtesis simples de l'entramat estructural, es faran d'acord amb un càlcul lineal de primer orde, és a dir admetent proporcionalitat entre esforços i deformacions, el principi de superposició d'accions, i un comportament lineal i geomètric dels materials i l'estructura.

Per a l'obtenció de les sol·licitacions determinants en el dimensionament dels elements dels forjats (bigues, biguetes, lloses, nervis) s'obtindran els diagrames envolupants per a cada esforç i per al dimensionament dels suports es comproven totes les combinacions definides.

1.3.2. Acer laminat i conformat

Es dimensiona els elements metàl·lics d'acord amb la norma que s'hagi seleccionat CTE ES-A (Seguretat estructural: Acer), C.E.21 o EC-3, determinant-se coeficients d'aprofitament i deformacions, així com l'estabilitat, d'acord amb els principis de la Mecànica Racional i la Resistència de Materials.

Es realitza un càlcul lineal de primer orde, admetent-se localment plastificacions d'acord amb l'indicat a la normativa escollida.

L'estructura se suposa sotmesa a les accions exteriors, ponderant-se per a l'obtenció dels coeficients d'aprofitament i comprovació de seccions, i sense majorar per a les comprovacions de deformacions, d'acord amb els límits d'esgotament de tensions i límits de fletxa establerts.

Per al càlcul dels elements comprimits es té en compte el vinclament per compressió, i per als flectats el vinclament lateral, d'acord amb les indicacions de la norma.

1.3.3. Murs de fàbrica ceràmica i bloc de formigó

Per al càlcul i comprovació de tensions de les fàbriques de ceràmica es tindrà en compte l'indicat a la norma CTE ES-F, i l'Eurocodi EC-6 en els blocs de formigó.

El càlcul de sol·licitacions es farà d'acord amb els principis de la Mecànica Racional i la Resistència de Materials. S'efectuen les comprovacions d'estabilitat del conjunt de les parets portants enfront d'accions horitzontals, així com el dimensionament de les fonamentacions d'acord amb les càrregues excèntriques que sol·liciten els murs.

1.3.4. Fusta

S'efectuen les comprovacions d'acord amb el CTE ES-M (Seguretat estructural Fusta) i l'Eurocodi EC-5.

1.4. Càlculs per ordinador

Per a l'obtenció de les sol·licitacions i el dimensionament dels diferents elements estructurals, s'ha utilitzat el programa informàtic d'ordinador CYPE 3D (versió 2024.f).

Els resultats més rellevants del càlcul, així com les dades d'entrada, s'adjunten al final d'aquesta mateixa memòria.

2. CARACTERÍSTIQUES DELS MATERIALS A UTILITZAR

Els materials a utilitzar així com les característiques definitòries d'estos, nivells de control previstos, així com els coeficients de seguretat, s'indiquen en els següents apartats.

2.1. Formigó armat

2.1.1. Formigons

	Fonamentació i murs
Tipus de formigó	HA-25/F/30/XC2
Tipus de ciment segons RC-16	CEM II/A-L 42.5R
Quantitat màx/mín de ciment (kg/m^3)	400/275
Màxima relació a/c permesa	0.60
Assentament del Con d'Abrams (cm)	10 a 15
Consistència del formigó	Fluïda
Sistema de compactació	Vibrat
Nivell de Control Previst	Estadístic (N≥3)
Coeficient de Minoració	1.5
Resistència de càlcul del formigó: f_{cd} (N/mm^2)	16.67

2.1.2. Acer en barres

	Tota l'obra
Designació	B-500-S
Límit Elàstic (N/mm^2)	500
Nivell de Control Previst	Normal
Coeficient de Minoració	1.15
Resistència de càlcul de l'acer (barres): f_{yd} (N/mm^2)	434.78

2.1.3. Acer en mallats

	Tota l'obra
Designació:	ME 15x30 ϕ5 B-500-T
Límit Elàstic (N/mm^2)	500

2.1.4. Execució

	Tota l'obra
Nivell de Control previst	Normal
Coeficient de Majoració de les accions desfavorables Permanents/Variables	Veure punt 8 d'aquesta memòria

2.2. Acers laminats

		Tota l'obra
Acer en Perfils	Classe i Designació	S-275 JR
	Límit Elàstic (N/mm^2)	275
Acer en Xapes	Classe i Designació	S-275 JR
	Límit Elàstic (N/mm^2)	275

2.3. Acers conformats

		Tota l'obra
Acer en Perfiles	Classe i Designació	S-235 JR
	Límit Elàstic (N/mm^2)	235
Acer en Xapes	Classe i Designació	S-235 JR
	Límit Elàstic (N/mm^2)	235

2.4. Unions entre elements d'acer

		Tota l'obra
Sistema i Designació	Soldadures	Estructural
	Cargols Ordinaris	A-4t
	Cargols Calibrats	A-4t
	Cargols d'Alta Resistència	A-10t (10.9)
	Perns o Cargols d'Ancoratge	B-500-S

2.5. Murs de fàbrica

No existeixen elements estructurals d'aquesta naturalesa.

2.6. Fusta

No existeixen elements estructurals d'aquesta naturalesa.

2.7. Assajos a realitzar

- ***Formigó armat.*** D'acord amb els nivells de control previstos, es realitzaran els assajos pertinents dels materials, acer i formigó segons s'indica en C.E.21.
- ***Acers estructurals.*** Es faran els assajos pertinents d'acord amb l'indicat en el C.E.21 o en el capítol 12 del CTE ES-A, segons la norma seleccionada.
- ***Fàbrica ceràmica.*** Se seguiran les condicions de control de l'execució del Capítol 8 de la norma CTE ES-F.
- ***Fusta.*** Se seguiran les condicions de control de l'execució del Capítol 13 de la norma CTE ES-M.

2.8. Assentaments admissibles i límits de deformació

Assentaments admissibles de la fonamentació. D'acord amb la norma CTE ES-C, article 2.4.3, i en funció del tipus de terreny, tipus i característiques de l'edifici, es considera acceptable un assentament màxim admissible de 50 mm (terreny definit en l'apartat 7 d'esta memòria).

Límits de deformació de l'estructura. Segons l'exposat en l'article 4.3.3 de la norma CTE ES, s'han verificat en l'estructura les fletxes dels diferents elements, així com l'indicat en l'apartat 7.4 del C.E.21, limitació de deformacions. S'ha verificat tant l'enfonsament local com el total d'acord amb l'exposat en 4.3.3.2 de la citada norma.

Per al càlcul de les fletxes en els elements de formigó armat flectats, bigues i forjats, es tindran en compte tant les deformacions instantànies com les diferides, calculant-se les inèrcies equivalents d'acord amb l'indicat a la norma.

Per al càlcul de les fletxes s'ha tingut en compte tant el procés constructiu, com les condicions ambientals, edat de posada en càrrega, d'acord amb unes condicions habituals de la pràctica constructiva en l'edificació convencional. Per tant, a partir d'aquests supòsits s'estimen els coeficients de fluència pertinents per a la determinació de la fletxa activa, suma de les fletxes instantànies més les diferides produïdes amb posterioritat a la construcció dels envans.

En els elements de formigó armat s'estableixen els següents límits:

Fletxes actives màximes relatives i absolutes per a elements de formigó armat i acer		
Estructura no solidària amb altres elements	**Estructura solidària amb altres elements**	
	Envans ordinaris o paviments rígids amb juntes	**Envans ordinaris o paviments rígids sense juntes**
BIGUES I LLOSES Relativa δ /L<1/300	Relativa δ /L<1/400	Relativa δ /L<1/500
FORJATS UNIDIRECCIONALS Relativa δ /L<1/300	Relativa δ /L<1/500 Relativa δ /L<1/1000+0.5cm	Relativa δ /L<1/500 Relativa δ /L<1/1000+0.5cm

Desplaçaments horitzontals	
Local	Total
Desplom relatiu a l'alçada entre plantes δ /h<1/250	Desplom relatiu a l'alçada total de l'edifici δ /H<1/500

2.9. Recobriments

El recobriment de les armadures principals s'estableix sobre la base d'un doble criteri, d'una banda la durabilitat segons el tipus d'exposició a l'ambient, i d'altra banda, l'estabilitat enfront del foc segons les característiques i l'ús de l'edifici.

Recobriment de les armadures principals segons el criteri de durabilitat			
Resistència del formigó	Classe d'exposició	Recobriment mínim	Recobriment adoptat
25<fck<40	XC2	20 mm	50 mm

Segons el CTE DB SI, per a un edifici residencial amb una alçada de coronació inferior als 28 metres, els elements estructurals hauran de presentar, com a mínim, la següent resistència davant del foc:

Ús del sector d'incendi considerat	Plantes de soterrani	Altura d'evacuació de l'edifici < 28m	Altura d'evacuació de l'edifici ≥ 28m
Residencial d'habitatge, públic, docent o administratiu	R 120	R 90	R 120
Comercial, pública concurrència	R 120	R 120	R 180
Aparcament situat sota ús diferent	R 120	R 120	R 120
Aparcament robotitzat	R 180	R 180	R 180

Pel que respecta a la fonamentació, no té sentit parlar de resistència davant del foc, però sí per a l'estructura que conformen els pòrtics i la malla 3D de barres. En aquest sentit, caldria assegurar un R90 mitjançant pintures intumescents o morters especials, però mentre sigui una coberta sobre un espai obert on l'evacuació sigui molt ràpida, n'hi ha prou amb garantir un R30.

2.10. Fissuració

En la taula següent, es reflecteixen els valors de la màxima obertura de fissura permesa per a cadascuna de les classes d'exposició considerades, així com la màxima obertura de fissura adoptada en els càlculs per a la fonamentació:

Classe d'exposició	$w_{màx}$ permesa (mm)	$w_{màx}$ adoptada (mm)
XC2	0.3	0.3

3. ACCIONS GRAVITATÒRIES

3.1. Càrregues superficials

3.1.1. Pes propi de la coberta

S'ha suposat que es disposarà una xapa simple grecada i lacada sobre la capa superior de malla de tetràedres, el seu pes propi serà de 0.1kN/m2.

3.1.2. Càrregues mortes

Planta	Zona	Càrrega en kN/m^2
Coberta	Plaques solars	0.14

3.1.3. Sobrecàrrega d'ús

Planta	Zona	Càrrega en kN/m^2
Coberta	Tota	0.4

3.1.4. Sobrecàrrega de neu

Planta	Zona	Càrrega en kN/m^2
Coberta	Tota	0.4 (incompatible amb ús)

4. ACCIONS DEL VENT SEGONS CTE DB-SE-AE

La situació i geometria de la coberta fan que es consideri l'acció del vent en dues direccions perpendiculars i per a les situacions de pressió i succió.

- La pressió bàsica correspon a la de la Zona C: q_b = 0.52kN/m2
- El coeficient d'exposició correspon a la situació IV a uns 15m d'alçada: C_e = 2.1
- Els coeficients de pressió (C_p) seran variables en haver casuístiques de pressió i de succió que generen 8 situacions de càrrega possibles.

5. ACCIONS TÈRMIQUES I REOLÒGIQUES

D'acord amb l'exposat en el CTE DB ES-AE, no és necessari tenir en compte les accions reològiques ni tèrmiques amb dimensions inferiors a 40m.

6. ACCIONS SÍSMIQUES

D'acord amb la norma de construcció sismorresistent NCSE-02, per l'ús i la situació de l'edifici, en el terme municipal de Tortosa, es consideren les accions sísmiques.

6.1. Dades de càlcul

Classificació de la construcció	IMPORTÀNCIA NORMAL	
Coeficient de risc ρ	**ρ** = 1	
Acceleració bàsica	$\mathbf{a_b}$ = 0'04g	
Coeficient de contribució	**k** = 1'0	
Coeficient del terreny	Tipo III	**C** = 3
Coeficient d'amplificació del terreny	**S** = C / 1'28	
Acceleració de càlcul	$\mathbf{a_c} = \mathbf{a_b}\ \rho\ \mathbf{S}$ = 0.051g	
Esmorteïment (en % respecte del crític)	5%	
Fracció quasi-permanent de sobrecàrrega	0'5	
Ductilitat	BAIXA	
Períodes de vibració de l'estructura	Veure llistats de resultats del càlcul	

6.2. Mètode de càlcul emprat

El mètode de càlcul utilitzat es l'Anàlisi Modal Espectral, amb els espectres de la norma i les seves consideracions de càlcul.

7. ACCIONS DEL TERRENY. CAPACITAT PORTANT

Segons l'estudi geotècnic realitzat per Ohmiterra Maestrat SL, (ref. 1001-151, amb data 22/01/2010) és possible l'execució d'una fonamentació superficial sobre una capa de llims i graves alternats que apareixen sota la capa de reblerts semi compactats, a una cota pròxima al metre seixanta de profunditat respecte del nivell original del terreny.

Com a valor de la capacitat de càrrega màxima admissible, s'adopta un valor mitjà per a totes les sabates de σ_{adm} **= 100kN/m2** (1,0kp/cm²). Els assentaments màxims esperables són inferiors a 20mm.

El terreny presenta una agressivitat nul·la enfront del formigó, segons els valors establerts en la Taula D.22 del CTE ES-C.

No es detecta la presència de nivell freàtic en profunditats relativament superficials.

8. COMBINACIONS D'ACCIONS CONSIDERADES EN E.L.U.

8.1. Formigó armat

E.L.U. de ruptura. Formigó i fonamentacions: C.E.21/CTE

- ***Situacions no sísmiques***

$$\sum_{j \geq 1} \gamma_{Gj} G_{kj} + \gamma_{Q1} \Psi_{p1} Q_{k1} + \sum_{i>1} \gamma_{Qi} \Psi_{ai} Q_{ki}$$

- ***Situacions sísmiques***

$$\sum_{j \geq 1} \gamma_{Gj} G_{kj} + \gamma_{A} A_{E} + \sum_{i \geq 1} \gamma_{Qi} \Psi_{ai} Q_{ki}$$

Situació 1: Persistent o transitòria				
	Coeficients parcials de seguretat (γ)		Coeficients de combinació (ψ)	
	Favorable	Desfavorable	Principal (ψ_p)	Acompanyament (ψ_a)
Càrrega permanent (G)	1.00	1.35	1.00	1.00
Sobrecàrrega (Q)	0.00	1.50	1.00	0.70
Vent (Q)	0.00	1.50	1.00	0.60
Neu (Q)	0.00	1.50	1.00	0.50
Sisme (A)				

Situació 2: Sísmica				
	Coeficients parcials de seguretat (γ)		Coeficients de combinació (ψ)	
	Favorable	Desfavorable	Principal (ψ_p)	Acompanyament (ψ_a)
Càrrega permanent (G)	1.00	1.00	1.00	1.00
Sobrecàrrega (Q)	0.00	1.00	0.30	0.30
Vent (Q)	0.00	1.00	0.00	0.00
Neu (Q)	0.00	1.00	0.00	0.00
Sisme (A)	-1.00	1.00	1.00	0.30(*)

(*) Fracció de les sol·licitacions sísmiques a considerar en la direcció ortogonal: Les sol·licitacions obtingudes dels resultats de l'anàlisi en cadascuna de les direccions ortogonals es combinaran amb el 30% dels de l'altra.

E.L.U. de ruptura. Formigó en fonamentacions: CTE

- ***Situacions no sísmiques***

$$\sum_{j \geq 1} \gamma_{Gj} G_{kj} + \gamma_{Q1} \Psi_{p1} Q_{k1} + \sum_{i>1} \gamma_{Qi} \Psi_{ai} Q_{ki}$$

- ***Situacions sísmiques***

$$\sum_{j \geq 1} \gamma_{Gj} G_{kj} + \gamma_{A} A_{E} + \sum_{i \geq 1} \gamma_{Qi} \Psi_{ai} Q_{ki}$$

Situació 1: Persistent o transitòria				
	Coeficients parcials de seguretat (γ)		Coeficients de combinació (ψ)	
	Favorable	Desfavorable	Principal (ψ_p)	Acompanyament (ψ_a)
Càrrega permanent (G)	1.00	1.60	1.00	1.00
Sobrecàrrega (Q)	0.00	1.60	1.00	0.70
Vent (Q)	0.00	1.60	1.00	0.60
Neu (Q)	0.00	1.60	1.00	0.50
Sisme (A)				

Situació 2: Sísmica				
	Coeficients parcials de seguretat (γ)		Coeficients de combinació (ψ)	
	Favorable	Desfavorable	Principal (ψ_p)	Acompanyament (ψ_a)
Càrrega permanent (G)	1.00	1.00	1.00	1.00
Sobrecàrrega (Q)	0.00	1.00	0.30	0.30
Vent (Q)	0.00	1.00	0.00	0.00
Neu (Q)	0.00	1.00	0.00	0.00
Sisme (A)	-1.00	1.00	1.00	0.30(*)

(*) Fracció de les sol·licitacions sísmiques a considerar en la direcció ortogonal: Les sol·licitacions obtingudes dels resultats de l'anàlisi en cadascuna de les direccions ortogonals es combinaran amb el 30% dels de l'altra.

8.2. Acer laminat

E.L.U. de ruptura. Acer laminat: CTE DB-SE A y C.E.21

- ***Situacions no sísmiques***

$$\sum_{j \geq 1} \gamma_{Gj} G_{kj} + \gamma_{Q1} \Psi_{p1} Q_{k1} + \sum_{i > 1} \gamma_{Qi} \Psi_{ai} Q_{ki}$$

- ***Situacions sísmiques***

$$\sum_{j \geq 1} \gamma_{Gj} G_{kj} + \gamma_{A} A_{E} + \sum_{i \geq 1} \gamma_{Qi} \Psi_{ai} Q_{ki}$$

Situació 1: Persistent o transitòria				
	Coeficients parcials de seguretat (γ)		Coeficients de combinació (ψ)	
	Favorable	Desfavorable	Principal (ψ_p)	Acompanyament (ψ_a)
Càrrega permanent (G)	0.80	1.35	1.00	1.00
Sobrecàrrega (Q)	0.00	1.50	1.00	0.70
Vent (Q)	0.00	1.50	1.00	0.60
Neu (Q)	0.00	1.50	1.00	0.50
Sisme (A)				

Situació 2: Sísmica				
	Coeficients parcials de seguretat (γ)		Coeficients de combinació (ψ)	
	Favorable	Desfavorable	Principal (ψ_p)	Acompanyament (ψ_a)
Càrrega permanent (G)	1.00	1.00	1.00	1.00
Sobrecàrrega (Q)	0.00	1.00	0.30	0.30
Vent (Q)	0.00	1.00	0.00	0.00
Neu (Q)	0.00	1.00	0.00	0.00
Sisme (A)	-1.00	1.00	1.00	0.30(*)

(*) Fracció de les sol·licitacions sísmiques a considerar en la direcció ortogonal: Les sol·licitacions obtingudes dels resultats de l'anàlisi en cadascuna de les direccions ortogonals es combinaran amb el 30% dels de l'altra.

8.3. Acer conformat

E.L.U. de ruptura. Acer laminat: CTE DB-SE A i EC-3

S'apliquen els mateixos coeficients i combinacions que en l'acer laminat.

8.4. Fusta

E.L.U. de ruptura. Fusta: CTE DB-SE M i EC-5

S'apliquen els mateixos coeficients i combinacions que en l'acer laminat i conformat.

8.5. Fàbrica ceràmica

E.L.U. de ruptura. Fàbrica: CTE DB-SE F

S'apliquen els mateixos coeficients i combinacions que en l'acer laminat i conformat.

9. COMBINACIONS D'ACCIONS CONSIDERADES EN E.L.S.

- **Tensions sobre el terreny** (per a comprovar tensions en sabates, bigues i lloses de fonamentació)
- **Desplaçaments** (per a comprovar desploms)
  - ***Situacions no sísmiques***

$$\sum_{j \geq 1} \gamma_{Gj} G_{kj} + \sum_{i \geq 1} \gamma_{Qi} Q_{ki}$$

  - ***Situacions sísmiques***

$$\sum_{j \geq 1} \gamma_{Gj} G_{kj} + \gamma_A A_E + \sum_{i \geq 1} \gamma_{Qi} Q_{ki}$$

Situació 1: Accions variables sense sisme		
	Coeficients parcials de seguretat (γ)	
	Favorable	Desfavorable
Càrrega permanent (G)	1.00	1.00
Sobrecàrrega (Q)	0.00	1.00
Vent (Q)	0.00	1.00
Neu (Q)	0.00	1.00
Sisme (A)	-	-

Situació 2: Sísmica		
	Coeficients parcials de seguretat (γ)	
	Favorable	Desfavorable
Càrrega permanent (G)	1.00	1.00
Sobrecàrrega (Q)	0.00	1.00
Vent (Q)	0.00	1.00
Neu (Q)	0.00	1.00
Sisme (A)	-1.00	1.00

10. AMIDAMENTS I LLISTATS DE CÀLCUL

A continuació, s'adjunten els llistats de càlcul generats pel software implementat.

1. ESTRUCTURA

1.1. Geometría

1.1.1. Barras

1.1.1.1. Resumen de medición

Resumen de medición												
Material		Serie	Perfil	Longitud			Volumen			Peso		
Tipo	Designación			Perfil (m)	Serie (m)	Material (m)	Perfil (m³)	Serie (m³)	Material (m³)	Perfil (kg)	Serie (kg)	Material (kg)
			SHS 250x8.0	169.100			1.271			9981.10		
			SHS 80x3.0	524.615			0.472			3707.55		
			SHS 250x5.0	364.000			1.760			13812.98		
		SHS			1057.715			3.503			27501.64	
			Ø20	329.514			0.104			812.63		
		Redondos			329.514			0.104			812.63	
			RHS 140x120x4.0	166.400			0.328			2578.29		
		RHS			166.400			0.328			2578.29	
	S275					1553.629			3.935			30892.56
			O-60x2	4504.693			1.642			12886.73		
			O-125x4	182.227			0.277			2175.10		
			O-40x2	5045.040			1.205			9455.79		
			O-40x3	47.407			0.017			129.77		
		Huecos redondos			9779.368			3.140			24647.39	
	S235					9779.368			3.140			24647.39
Acero laminado						11332.997			7.075			55539.95

1.1.1.2. Medición de superficies

Acero laminado: Medición de las superficies a pintar				
Serie	Perfil	Superficie unitaria (m²/m)	Longitud (m)	Superficie (m²)
SHS	SHS 250x8.0	0.965	169.100	163.157
	SHS 80x3.0	0.309	524.615	162.340
	SHS 250x5.0	0.982	364.000	357.606
Huecos redondos	O-60x2	0.188	4504.693	849.115
	O-125x4	0.393	182.227	71.561
	O-40x2	0.126	5045.040	633.978
	O-40x3	0.126	47.407	5.957
Redondos	Ø20	0.063	329.514	20.704
RHS	RHS 140x120x4.0	0.506	166.400	84.189
			Total	2348.608

1.2. Uniones

1.2.1. Medición

Elementos de tornillería			
Tipo	Material	Cantidad	Descripción
Tuercas	Clase 6	160	ISO 4032-M20
Arandelas	Dureza 200 HV	160	ISO 7089-20

Placas de anclaje				
Material	Elementos	Cantidad	Dimensiones (mm)	Peso (kg)
S275	Placa base	15	450x450x22	524.58
		5	530x530x30	330.76
	Rigidizadores pasantes	30	450/250x100/0x8	65.94
		10	530/310x110/0x12	43.52
	Rigidizadores no pasantes	60	92/0x100/0x8	17.33
		20	128/18x110/0x12	15.13
			Total	997.26
B 500 S, Ys = 1.15 (corrugado)	Pernos de anclaje	40	Ø 20 - L = 860	84.84
		120	Ø 20 - L = 652	192.95
			Total	277.79

2. CIMENTACIÓN

2.1. Elementos de cimentación aislados

2.1.1. Medición

Referencias: N29, N11, N13, N15, N17, N19, N1, N9, N21, N23, N25 y N27		B 500 S, Ys=1.15	Total
Nombre de armado		Ø16	
Parrilla inferior - Armado X	Longitud (m) Peso (kg)	13x2.45 13x3.87	31.85 50.27
Parrilla inferior - Armado Y	Longitud (m) Peso (kg)	13x2.45 13x3.87	31.85 50.27
Parrilla superior - Armado X	Longitud (m) Peso (kg)	13x2.45 13x3.87	31.85 50.27
Parrilla superior - Armado Y	Longitud (m) Peso (kg)	13x2.45 13x3.87	31.85 50.27
Totales	Longitud (m) Peso (kg)	127.40 201.08	 201.08
Total con mermas (10.00%)	Longitud (m) Peso (kg)	140.14 221.19	 221.19

Referencias: N3, N5 y N7		B 500 S, Ys=1.15	Total
Nombre de armado		Ø12	
Parrilla inferior - Armado X	Longitud (m) Peso (kg)	20x2.15 20x1.91	43.00 38.18

Referencias: N3, N5 y N7		B 500 S, Ys=1.15	Total
Nombre de armado		Ø12	
Parrilla inferior - Armado Y	Longitud (m) Peso (kg)	20x2.15 20x1.91	43.00 38.18
Parrilla superior - Armado X	Longitud (m) Peso (kg)	20x2.15 20x1.91	43.00 38.18
Parrilla superior - Armado Y	Longitud (m) Peso (kg)	20x2.15 20x1.91	43.00 38.18
Totales	Longitud (m) Peso (kg)	172.00 152.72	 152.72
Total con mermas (10.00%)	Longitud (m) Peso (kg)	189.20 167.99	 167.99

Referencias: N1695 y N1692		B 500 S, Ys=1.15	Total
Nombre de armado		Ø20	
Parrilla inferior - Armado X	Longitud (m) Peso (kg)	10x2.55 10x6.29	25.50 62.89
Parrilla inferior - Armado Y	Longitud (m) Peso (kg)	10x2.55 10x6.29	25.50 62.89
Parrilla superior - Armado X	Longitud (m) Peso (kg)	10x2.93 10x7.23	29.30 72.26
Parrilla superior - Armado Y	Longitud (m) Peso (kg)	10x2.93 10x7.23	29.30 72.26
Totales	Longitud (m) Peso (kg)	109.60 270.30	 270.30
Total con mermas (10.00%)	Longitud (m) Peso (kg)	120.56 297.33	 297.33

Referencias: N1704, N1701 y N1698		B 500 S, Ys=1.15	Total
Nombre de armado		Ø16	
Parrilla inferior - Armado X	Longitud (m) Peso (kg)	19x2.65 19x4.18	50.35 79.47
Parrilla inferior - Armado Y	Longitud (m) Peso (kg)	19x2.65 19x4.18	50.35 79.47
Parrilla superior - Armado X	Longitud (m) Peso (kg)	19x2.95 19x4.66	56.05 88.46
Parrilla superior - Armado Y	Longitud (m) Peso (kg)	19x2.95 19x4.66	56.05 88.46
Totales	Longitud (m) Peso (kg)	212.80 335.86	 335.86
Total con mermas (10.00%)	Longitud (m) Peso (kg)	234.08 369.45	 369.45

Resumen de medición (se incluyen mermas de acero)

	B 500 S, Ys=1.15 (kg)				Hormigón (m³)	
Elemento	Ø12	Ø16	Ø20	Total	HA-25, Yc=1.5	Limpieza
Referencias: N29, N11, N13, N15, N17, N19, N1, N9, N21, N23, N25 y N27		12x221.19		2654.28	12x5.41	12x0.68
Referencias: N3, N5 y N7	3x167.99			503.97	3x4.23	3x0.53
Referencias: N1695 y N1692			2x297.33	594.66	2x6.56	2x0.73
Referencias: N1704, N1701 y N1698		3x369.45		1108.35	3x8.62	3x0.78
Totales	503.97	3762.63	594.66	4861.26	116.59	13.51

2.2. Vigas

2.2.1. Medición

Referencias: VC.S-1 [N11-N13], VC.S-1 [N13-N15], VC.S-1 [N15-N17], VC.S-1 [N17-N19], VC.S-1 [N21-N23], VC.S-1 [N23-N25], VC.S-1 [N25-N27] y VC.S-1 [N27-N29]		B 500 S, Ys=1.15			Total
Nombre de armado		Ø8	Ø12	Ø16	
Armado viga - Armado de piel	Longitud (m) Peso (kg)		2x8.16 2x7.24		16.32 14.49
Armado viga - Armado inferior	Longitud (m) Peso (kg)			4x8.18 4x12.91	32.72 51.64
Armado viga - Armado superior	Longitud (m) Peso (kg)			4x8.28 4x13.07	33.12 52.27
Armado viga - Estribo	Longitud (m) Peso (kg)	19x1.53 19x0.60			29.07 11.47
Totales	Longitud (m) Peso (kg)	29.07 11.47	16.32 14.49	65.84 103.91	 129.87
Total con mermas (10.00%)	Longitud (m) Peso (kg)	31.98 12.62	17.95 15.94	72.42 114.30	 142.86

Referencias: VC.S-1 [N19-N1], VC.S-1 [N3-N5], VC.S-1 [N5-N7], VC.S-1 [N9-N21], VC.S-1 [N1704-N1701], VC.S-1 [N1701-N1698] y VC.S-1 [N1692-N11]		B 500 S, Ys=1.15			Total
Nombre de armado		Ø8	Ø12	Ø16	
Armado viga - Armado de piel	Longitud (m) Peso (kg)		2x6.86 2x6.09		13.72 12.18
Armado viga - Armado inferior	Longitud (m) Peso (kg)			4x6.88 4x10.86	27.52 43.44
Armado viga - Armado superior	Longitud (m) Peso (kg)			4x6.98 4x11.02	27.92 44.07
Armado viga - Estribo	Longitud (m) Peso (kg)	14x1.53 14x0.60			21.42 8.45
Totales	Longitud (m) Peso (kg)	21.42 8.45	13.72 12.18	55.44 87.51	 108.14
Total con mermas (10.00%)	Longitud (m) Peso (kg)	23.56 9.30	15.09 13.39	60.98 96.26	 118.95

Referencia: VC.S-1 [N1-N3]		B 500 S, Ys=1.15			Total
Nombre de armado		Ø8	Ø12	Ø16	
Armado viga - Armado de piel	Longitud (m) Peso (kg)		2x7.01 2x6.22		14.02 12.45
Armado viga - Armado inferior	Longitud (m) Peso (kg)			4x6.98 4x11.02	27.92 44.07
Armado viga - Armado superior	Longitud (m) Peso (kg)			4x7.18 4x11.33	28.72 45.33
Armado viga - Estribo	Longitud (m) Peso (kg)	15x1.53 15x0.60			22.95 9.06
Totales	Longitud (m) Peso (kg)	22.95 9.06	14.02 12.45	56.64 89.40	 110.91
Total con mermas (10.00%)	Longitud (m) Peso (kg)	25.25 9.97	15.42 13.69	62.30 98.34	 122.00

Referencia: VC.S-1 [N7-N9]		B 500 S, Ys=1.15			Total
Nombre de armado		Ø8	Ø12	Ø16	
Armado viga - Armado de piel	Longitud (m) Peso (kg)		2x6.87 2x6.10		13.74 12.20
Armado viga - Armado inferior	Longitud (m) Peso (kg)			4x6.88 4x10.86	27.52 43.44
Armado viga - Armado superior	Longitud (m) Peso (kg)			4x6.99 4x11.03	27.96 44.13
Armado viga - Estribo	Longitud (m) Peso (kg)	15x1.53 15x0.60			22.95 9.06

Referencia: VC.S-1 [N7-N9]		B 500 S, Ys=1.15			Total
Nombre de armado		Ø8	Ø12	Ø16	
Totales	Longitud (m) Peso (kg)	22.95 9.06	13.74 12.20	55.48 87.57	 108.83
Total con mermas (10.00%)	Longitud (m) Peso (kg)	25.25 9.97	15.11 13.42	61.03 96.32	 119.71

Referencia: VC.S-1 [N29-N1695]		B 500 S, Ys=1.15			Total
Nombre de armado		Ø8	Ø12	Ø16	
Armado viga - Armado de piel	Longitud (m) Peso (kg)		2x6.88 2x6.11		13.76 12.22
Armado viga - Armado inferior	Longitud (m) Peso (kg)			4x6.88 4x10.86	27.52 43.44
Armado viga - Armado superior	Longitud (m) Peso (kg)			4x7.01 4x11.06	28.04 44.26
Armado viga - Estribo	Longitud (m) Peso (kg)	14x1.53 14x0.60			21.42 8.45
Totales	Longitud (m) Peso (kg)	21.42 8.45	13.76 12.22	55.56 87.70	 108.37
Total con mermas (10.00%)	Longitud (m) Peso (kg)	23.56 9.30	15.14 13.44	61.12 96.47	 119.21

Referencia: VC.S-1 [N1695-N1704]		B 500 S, Ys=1.15			Total
Nombre de armado		Ø8	Ø12	Ø16	
Armado viga - Armado de piel	Longitud (m) Peso (kg)		2x6.92 2x6.14		13.84 12.29
Armado viga - Armado inferior	Longitud (m) Peso (kg)			4x6.89 4x10.87	27.56 43.50
Armado viga - Armado superior	Longitud (m) Peso (kg)			4x7.06 4x11.14	28.24 44.57
Armado viga - Estribo	Longitud (m) Peso (kg)	14x1.53 14x0.60			21.42 8.45
Totales	Longitud (m) Peso (kg)	21.42 8.45	13.84 12.29	55.80 88.07	 108.81
Total con mermas (10.00%)	Longitud (m) Peso (kg)	23.56 9.30	15.22 13.51	61.38 96.88	 119.69

Referencia: VC.S-1 [N1698-N1692]		B 500 S, Ys=1.15			Total
Nombre de armado		Ø8	Ø12	Ø16	
Armado viga - Armado de piel	Longitud (m) Peso (kg)		2x7.11 2x6.31		14.22 12.63
Armado viga - Armado inferior	Longitud (m) Peso (kg)			4x7.07 4x11.16	28.28 44.63
Armado viga - Armado superior	Longitud (m) Peso (kg)			4x7.31 4x11.54	29.24 46.15
Armado viga - Estribo	Longitud (m) Peso (kg)	14x1.53 14x0.60			21.42 8.45
Totales	Longitud (m) Peso (kg)	21.42 8.45	14.22 12.63	57.52 90.78	 111.86
Total con mermas (10.00%)	Longitud (m) Peso (kg)	23.56 9.30	15.64 13.89	63.27 99.86	 123.05

Resumen de medición (se incluyen mermas de acero)

Elemento	B 500 S, Ys=1.15 (kg)				Hormigón (m³)	
	Ø8	Ø12	Ø16	Total	HA-25, Yc=1.5	Limpieza
Referencias: VC.S-1 [N11-N13], VC.S-1 [N13-N15], VC.S-1 [N15-N17], VC.S-1 [N17-N19], VC.S-1 [N21-N23], VC.S-1 [N23-N25], VC.S-1 [N25-N27] y VC.S-1 [N27-N29]	8x12.62	8x15.94	8x114.30	1142.88	8x1.04	8x0.21
Referencias: VC.S-1 [N19-N1], VC.S-1 [N3-N5], VC.S-1 [N5-N7], VC.S-1 [N9-N21], VC.S-1 [N1704-N1701], VC.S-1 [N1701-N1698] y VC.S-1 [N1692-N11]	7x9.29	7x13.40	7x96.26	832.65	7x0.78	7x0.16
Referencia: VC.S-1 [N1-N3]	9.96	13.70	98.34	122.00	0.81	0.16
Referencia: VC.S-1 [N7-N9]	9.96	13.42	96.33	119.71	0.81	0.16
Referencia: VC.S-1 [N29-N1695]	9.30	13.44	96.47	119.21	0.77	0.15
Referencia: VC.S-1 [N1695-N1704]	9.29	13.52	96.88	119.69	0.75	0.15
Referencia: VC.S-1 [N1698-N1692]	9.30	13.89	99.86	123.05	0.75	0.15
Totales	213.80	289.29	2076.10	2579.19	17.67	3.53

ÍNDICE

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1. DATOS DE OBRA

1.1. Normas consideradas

Cimentación: Código Estructural

Aceros laminados y armados: CTE DB SE-A

Categoría de uso: G1. Cubiertas accesibles únicamente para mantenimiento. No concomitante con el resto de acciones variables

1.2. Estados límite

E.L.U. de rotura. Hormigón en cimentaciones E.L.U. de rotura. Acero laminado	CTE Cota de nieve: Altitud inferior o igual a 1000 m
Tensiones sobre el terreno Desplazamientos	Acciones características

1.2.1. Situaciones de proyecto

Para las distintas situaciones de proyecto, las combinaciones de acciones se definirán de acuerdo con los siguientes criterios:

- Situaciones persistentes o transitorias

- Con coeficientes de combinación

$$\sum_{j\geq 1}\gamma_{Gj}G_{kj} + \gamma_P P_k + \gamma_{Q1}\Psi_{p1}Q_{k1} + \sum_{i>1}\gamma_{Qi}\Psi_{ai}Q_{ki}$$

- Sin coeficientes de combinación

$$\sum_{j\geq 1}\gamma_{Gj}G_{kj} + \gamma_P P_k + \sum_{i\geq 1}\gamma_{Qi}Q_{ki}$$

- Situaciones sísmicas

- Con coeficientes de combinación

$$\sum_{j\geq 1}\gamma_{Gj}G_{kj} + \gamma_P P_k + \gamma_{A_E}A_E + \sum_{i\geq 1}\gamma_{Qi}\Psi_{ai}Q_{ki}$$

- Sin coeficientes de combinación

$$\sum_{j\geq 1}\gamma_{Gj}G_{kj} + \gamma_P P_k + \gamma_{A_E}A_E + \sum_{i\geq 1}\gamma_{Qi}Q_{ki}$$

- Donde:

G_k	Acción permanente
P_k	Acción de pretensado
Q_k	Acción variable
A_E	Acción sísmica
γ_G	Coeficiente parcial de seguridad de las acciones permanentes
γ_P	Coeficiente parcial de seguridad de la acción de pretensado
$\gamma_{Q,1}$	Coeficiente parcial de seguridad de la acción variable principal
$\gamma_{Q,i}$	Coeficiente parcial de seguridad de las acciones variables de acompañamiento
γ_{AE}	Coeficiente parcial de seguridad de la acción sísmica
$\psi_{p,1}$	Coeficiente de combinación de la acción variable principal
$\psi_{a,i}$	Coeficiente de combinación de las acciones variables de acompañamiento

Para cada situación de proyecto y estado límite los coeficientes a utilizar serán:

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Persistente o transitoria				
	Coeficientes parciales de seguridad (γ)		Coeficientes de combinación (ψ)	
	Favorable	Desfavorable	Principal (ψ_p)	Acompañamiento (ψ_a)
Carga permanente (G)	1.000	1.600	-	-
Sobrecarga (Q)	0.000	1.600	0.000	0.000
Viento (Q)	0.000	1.600	1.000	0.600
Nieve (Q)	0.000	1.600	1.000	0.500

Persistente o transitoria (G1)				
	Coeficientes parciales de seguridad (γ)		Coeficientes de combinación (ψ)	
	Favorable	Desfavorable	Principal (ψ_p)	Acompañamiento (ψ_a)
Carga permanente (G)	1.000	1.600	-	-
Sobrecarga (Q)	0.000	1.600	1.000	0.000
Viento (Q)	0.000	1.600	0.000	0.000
Nieve (Q)	0.000	1.600	0.000	0.000

Sísmica				
	Coeficientes parciales de seguridad (γ)		Coeficientes de combinación (ψ)	
	Favorable	Desfavorable	Principal (ψ_p)	Acompañamiento (ψ_a)
Carga permanente (G)	1.000	1.000	-	-
Sobrecarga (Q)	0.000	1.000	0.000	0.000
Viento (Q)	0.000	1.000	0.000	0.000
Nieve (Q)	0.000	1.000	0.000	0.000
Sismo (E)	-1.000	1.000	1.000	0.300[1]

Notas:
[1] Fracción de las solicitaciones sísmicas a considerar en la dirección ortogonal: Las solicitaciones obtenidas de los resultados del análisis en cada una de las direcciones ortogonales se combinarán con el 30 % de los de la otra.

E.L.U. de rotura. Acero laminado: CTE DB SE-A

Persistente o transitoria				
	Coeficientes parciales de seguridad (γ)		Coeficientes de combinación (ψ)	
	Favorable	Desfavorable	Principal (ψ_p)	Acompañamiento (ψ_a)
Carga permanente (G)	0.800	1.350	-	-
Sobrecarga (Q)	0.000	1.500	0.000	0.000
Viento (Q)	0.000	1.500	1.000	0.600
Nieve (Q)	0.000	1.500	1.000	0.500

Persistente o transitoria (G1)				
	Coeficientes parciales de seguridad (γ)		Coeficientes de combinación (ψ)	
	Favorable	Desfavorable	Principal (ψ_p)	Acompañamiento (ψ_a)
Carga permanente (G)	0.800	1.350	-	-
Sobrecarga (Q)	0.000	1.500	1.000	0.000
Viento (Q)	0.000	1.500	0.000	0.000
Nieve (Q)	0.000	1.500	0.000	0.000

Sísmica				
	Coeficientes parciales de seguridad (γ)		Coeficientes de combinación (ψ)	
	Favorable	Desfavorable	Principal (ψ_p)	Acompañamiento (ψ_a)
Carga permanente (G)	1.000	1.000	-	-
Sobrecarga (Q)	0.000	1.000	0.000	0.000
Viento (Q)	0.000	1.000	0.000	0.000
Nieve (Q)	0.000	1.000	0.000	0.000
Sismo (E)	-1.000	1.000	1.000	0.300[1]

Notas:
[1] Fracción de las solicitaciones sísmicas a considerar en la dirección ortogonal: Las solicitaciones obtenidas de los resultados del análisis en cada una de las direcciones ortogonales se combinarán con el 30 % de los de la otra.

Accidental de incendio				
	Coeficientes parciales de seguridad (γ)		Coeficientes de combinación (ψ)	
	Favorable	Desfavorable	Principal (ψ_p)	Acompañamiento (ψ_a)
Carga permanente (G)	1.000	1.000	-	-
Sobrecarga (Q)	0.000	1.000	0.000	0.000
Viento (Q)	0.000	1.000	0.500	0.000
Nieve (Q)	0.000	1.000	0.200	0.000

Tensiones sobre el terreno

Característica				
	Coeficientes parciales de seguridad (γ)		Coeficientes de combinación (ψ)	
	Favorable	Desfavorable	Principal (ψ_p)	Acompañamiento (ψ_a)
Carga permanente (G)	1.000	1.000	-	-
Sobrecarga (Q)	0.000	1.000	0.000	0.000
Viento (Q)	0.000	1.000	1.000	1.000
Nieve (Q)	0.000	1.000	1.000	1.000

Característica				
	Coeficientes parciales de seguridad (γ)		Coeficientes de combinación (ψ)	
	Favorable	Desfavorable	Principal (ψ_p)	Acompañamiento (ψ_a)
Carga permanente (G)	1.000	1.000	-	-
Sobrecarga (Q)	0.000	1.000	1.000	1.000
Viento (Q)	0.000	1.000	1.000	1.000
Nieve (Q)	0.000	1.000	1.000	1.000

Sísmica				
	Coeficientes parciales de seguridad (γ)		Coeficientes de combinación (ψ)	
	Favorable	Desfavorable	Principal (ψ_p)	Acompañamiento (ψ_a)
Carga permanente (G)	1.000	1.000	-	-
Sobrecarga (Q)	0.000	1.000	0.000	0.000
Viento (Q)				
Nieve (Q)				
Sismo (E)	-1.000	1.000	1.000	0.000

Desplazamientos

Característica				
	Coeficientes parciales de seguridad (γ)		Coeficientes de combinación (ψ)	
	Favorable	Desfavorable	Principal (ψ_p)	Acompañamiento (ψ_a)
Carga permanente (G)	1.000	1.000	-	-
Sobrecarga (Q)	0.000	1.000	0.000	0.000
Viento (Q)	0.000	1.000	1.000	1.000
Nieve (Q)	0.000	1.000	1.000	1.000

Característica				
	Coeficientes parciales de seguridad (γ)		Coeficientes de combinación (ψ)	
	Favorable	Desfavorable	Principal (ψ_p)	Acompañamiento (ψ_a)
Carga permanente (G)	1.000	1.000	-	-
Sobrecarga (Q)	0.000	1.000	1.000	1.000
Viento (Q)	0.000	1.000	1.000	1.000
Nieve (Q)	0.000	1.000	1.000	1.000

Sísmica				
	Coeficientes parciales de seguridad (γ)		Coeficientes de combinación (ψ)	
	Favorable	Desfavorable	Principal (ψ_p)	Acompañamiento (ψ_a)
Carga permanente (G)	1.000	1.000	-	-
Sobrecarga (Q)	0.000	1.000	0.000	0.000
Viento (Q)				
Nieve (Q)				
Sismo (E)	-1.000	1.000	1.000	0.000

1.2.2. Combinaciones

- **Nombres de las hipótesis**

PP	Peso propio
CM 1	Càrregues mortes
Q 1	SCcob
Q 2	SCtanc
V x+(1)	V x+(1)
V x+(2)	V x+(2)
Vy+(1)	Vy+(1)
Vy+(2)	Vy+(2)
V x-(1)	V x-(1)
V x-(2)	V x-(2)
V y-(1)	V y-(1)
V y-(2)	V y-(2)
N 1	Neu
SX	Sismo X
SY	Sismo Y

- **E.L.U. de rotura. Hormigón en cimentaciones**

Comb.	PP	CM 1	Q 1	Q 2	V x+(1)	V x+(2)	Vy+(1)	Vy+(2)	V x-(1)	V x-(2)	V y-(1)	V y-(2)	N 1	SX	SY
1	1.000	1.000													
2	1.600	1.000													
3	1.000	1.600													
4	1.600	1.600													
5	1.000	1.000			1.600										
6	1.600	1.000			1.600										
7	1.000	1.600			1.600										
8	1.600	1.600			1.600										
9	1.000	1.000				1.600									
10	1.600	1.000				1.600									
11	1.000	1.600				1.600									
12	1.600	1.600				1.600									
13	1.000	1.000					1.600								
14	1.600	1.000					1.600								
15	1.000	1.600					1.600								
16	1.600	1.600					1.600								
17	1.000	1.000						1.600							
18	1.600	1.000						1.600							
19	1.000	1.600						1.600							
20	1.600	1.600						1.600							
21	1.000	1.000							1.600						
22	1.600	1.000							1.600						
23	1.000	1.600							1.600						
24	1.600	1.600							1.600						
25	1.000	1.000								1.600					
26	1.600	1.000								1.600					
27	1.000	1.600								1.600					
28	1.600	1.600								1.600					
29	1.000	1.000									1.600				
30	1.600	1.000									1.600				
31	1.000	1.600									1.600				
32	1.600	1.600									1.600				
33	1.000	1.000										1.600			
34	1.600	1.000										1.600			
35	1.000	1.600										1.600			
36	1.600	1.600										1.600			
37	1.000	1.000											1.600		
38	1.600	1.000											1.600		
39	1.000	1.600											1.600		
40	1.600	1.600											1.600		
41	1.000	1.000			0.960								1.600		
42	1.600	1.000			0.960								1.600		
43	1.000	1.600			0.960								1.600		
44	1.600	1.600			0.960								1.600		
45	1.000	1.000				0.960							1.600		
46	1.600	1.000				0.960							1.600		
47	1.000	1.600				0.960							1.600		
48	1.600	1.600				0.960							1.600		
49	1.000	1.000					0.960						1.600		
50	1.600	1.000					0.960						1.600		
51	1.000	1.600					0.960						1.600		
52	1.600	1.600					0.960						1.600		
53	1.000	1.000						0.960					1.600		
54	1.600	1.000						0.960					1.600		
55	1.000	1.600						0.960					1.600		
56	1.600	1.600						0.960					1.600		
57	1.000	1.000							0.960				1.600		
58	1.600	1.000							0.960				1.600		
59	1.000	1.600							0.960				1.600		
60	1.600	1.600							0.960				1.600		
61	1.000	1.000								0.960			1.600		
62	1.600	1.000								0.960			1.600		
63	1.000	1.600								0.960			1.600		
64	1.600	1.600								0.960			1.600		
65	1.000	1.000									0.960		1.600		
66	1.600	1.000									0.960		1.600		

Comb.	PP	CM 1	Q 1	Q 2	V x+(1)	V x+(2)	Vy+(1)	Vy+(2)	V x-(1)	V x-(2)	V y-(1)	V y-(2)	N 1	SX	SY
67	1.000	1.600									0.960		1.600		
68	1.600	1.600									0.960		1.600		
69	1.000	1.000										0.960	1.600		
70	1.600	1.000										0.960	1.600		
71	1.000	1.600										0.960	1.600		
72	1.600	1.600										0.960	1.600		
73	1.000	1.000			1.600								0.800		
74	1.600	1.000			1.600								0.800		
75	1.000	1.600			1.600								0.800		
76	1.600	1.600			1.600								0.800		
77	1.000	1.000				1.600							0.800		
78	1.600	1.000				1.600							0.800		
79	1.000	1.600				1.600							0.800		
80	1.600	1.600				1.600							0.800		
81	1.000	1.000					1.600						0.800		
82	1.600	1.000					1.600						0.800		
83	1.000	1.600					1.600						0.800		
84	1.600	1.600					1.600						0.800		
85	1.000	1.000						1.600					0.800		
86	1.600	1.000						1.600					0.800		
87	1.000	1.600						1.600					0.800		
88	1.600	1.600						1.600					0.800		
89	1.000	1.000							1.600				0.800		
90	1.600	1.000							1.600				0.800		
91	1.000	1.600							1.600				0.800		
92	1.600	1.600							1.600				0.800		
93	1.000	1.000								1.600			0.800		
94	1.600	1.000								1.600			0.800		
95	1.000	1.600								1.600			0.800		
96	1.600	1.600								1.600			0.800		
97	1.000	1.000									1.600		0.800		
98	1.600	1.000									1.600		0.800		
99	1.000	1.600									1.600		0.800		
100	1.600	1.600									1.600		0.800		
101	1.000	1.000										1.600	0.800		
102	1.600	1.000										1.600	0.800		
103	1.000	1.600										1.600	0.800		
104	1.600	1.600										1.600	0.800		
105	1.000	1.000	1.600												
106	1.600	1.000	1.600												
107	1.000	1.600	1.600												
108	1.600	1.600	1.600												
109	1.000	1.000		1.600											
110	1.600	1.000		1.600											
111	1.000	1.600		1.600											
112	1.600	1.600		1.600											
113	1.000	1.000	1.600	1.600											
114	1.600	1.000	1.600	1.600											
115	1.000	1.600	1.600	1.600											
116	1.600	1.600	1.600	1.600											
117	1.000	1.000												-0.300	-1.000
118	1.000	1.000												0.300	-1.000
119	1.000	1.000												-1.000	-0.300
120	1.000	1.000												-1.000	0.300
121	1.000	1.000												0.300	1.000
122	1.000	1.000												-0.300	1.000
123	1.000	1.000												1.000	0.300
124	1.000	1.000												1.000	-0.300

- **E.L.U. de rotura. Acero laminado**

1. Coeficientes para situaciones persistentes o transitorias y sísmicas

Comb.	PP	CM 1	Q 1	Q 2	V x+(1)	V x+(2)	Vy+(1)	Vy+(2)	V x-(1)	V x-(2)	V y-(1)	V y-(2)	N 1	SX	SY
1	0.800	0.800													
2	1.350	0.800													
3	0.800	1.350													
4	1.350	1.350													
5	0.800	0.800			1.500										
6	1.350	0.800			1.500										
7	0.800	1.350			1.500										
8	1.350	1.350			1.500										
9	0.800	0.800				1.500									
10	1.350	0.800				1.500									
11	0.800	1.350				1.500									
12	1.350	1.350				1.500									
13	0.800	0.800					1.500								
14	1.350	0.800					1.500								
15	0.800	1.350					1.500								
16	1.350	1.350					1.500								
17	0.800	0.800						1.500							
18	1.350	0.800						1.500							
19	0.800	1.350						1.500							
20	1.350	1.350						1.500							
21	0.800	0.800							1.500						
22	1.350	0.800							1.500						
23	0.800	1.350							1.500						
24	1.350	1.350							1.500						
25	0.800	0.800								1.500					
26	1.350	0.800								1.500					
27	0.800	1.350								1.500					
28	1.350	1.350								1.500					
29	0.800	0.800									1.500				
30	1.350	0.800									1.500				
31	0.800	1.350									1.500				
32	1.350	1.350									1.500				
33	0.800	0.800										1.500			
34	1.350	0.800										1.500			
35	0.800	1.350										1.500			
36	1.350	1.350										1.500			
37	0.800	0.800											1.500		
38	1.350	0.800											1.500		
39	0.800	1.350											1.500		
40	1.350	1.350											1.500		
41	0.800	0.800			0.900								1.500		
42	1.350	0.800			0.900								1.500		
43	0.800	1.350			0.900								1.500		
44	1.350	1.350			0.900								1.500		
45	0.800	0.800				0.900							1.500		
46	1.350	0.800				0.900							1.500		
47	0.800	1.350				0.900							1.500		
48	1.350	1.350				0.900							1.500		
49	0.800	0.800					0.900						1.500		
50	1.350	0.800					0.900						1.500		
51	0.800	1.350					0.900						1.500		
52	1.350	1.350					0.900						1.500		
53	0.800	0.800						0.900					1.500		
54	1.350	0.800						0.900					1.500		
55	0.800	1.350						0.900					1.500		
56	1.350	1.350						0.900					1.500		
57	0.800	0.800							0.900				1.500		
58	1.350	0.800							0.900				1.500		
59	0.800	1.350							0.900				1.500		
60	1.350	1.350							0.900				1.500		
61	0.800	0.800								0.900			1.500		
62	1.350	0.800								0.900			1.500		
63	0.800	1.350								0.900			1.500		
64	1.350	1.350								0.900			1.500		
65	0.800	0.800									0.900		1.500		

Comb.	PP	CM 1	Q 1	Q 2	V x+(1)	V x+(2)	Vy+(1)	Vy+(2)	V x-(1)	V x-(2)	V y-(1)	V y-(2)	N 1	SX	SY
66	1.350	0.800									0.900		1.500		
67	0.800	1.350									0.900		1.500		
68	1.350	1.350									0.900		1.500		
69	0.800	0.800										0.900	1.500		
70	1.350	0.800										0.900	1.500		
71	0.800	1.350										0.900	1.500		
72	1.350	1.350										0.900	1.500		
73	0.800	0.800			1.500								0.750		
74	1.350	0.800			1.500								0.750		
75	0.800	1.350			1.500								0.750		
76	1.350	1.350			1.500								0.750		
77	0.800	0.800				1.500							0.750		
78	1.350	0.800				1.500							0.750		
79	0.800	1.350				1.500							0.750		
80	1.350	1.350				1.500							0.750		
81	0.800	0.800					1.500						0.750		
82	1.350	0.800					1.500						0.750		
83	0.800	1.350					1.500						0.750		
84	1.350	1.350					1.500						0.750		
85	0.800	0.800						1.500					0.750		
86	1.350	0.800						1.500					0.750		
87	0.800	1.350						1.500					0.750		
88	1.350	1.350						1.500					0.750		
89	0.800	0.800							1.500				0.750		
90	1.350	0.800							1.500				0.750		
91	0.800	1.350							1.500				0.750		
92	1.350	1.350							1.500				0.750		
93	0.800	0.800								1.500			0.750		
94	1.350	0.800								1.500			0.750		
95	0.800	1.350								1.500			0.750		
96	1.350	1.350								1.500			0.750		
97	0.800	0.800									1.500		0.750		
98	1.350	0.800									1.500		0.750		
99	0.800	1.350									1.500		0.750		
100	1.350	1.350									1.500		0.750		
101	0.800	0.800										1.500	0.750		
102	1.350	0.800										1.500	0.750		
103	0.800	1.350										1.500	0.750		
104	1.350	1.350										1.500	0.750		
105	0.800	0.800	1.500												
106	1.350	0.800	1.500												
107	0.800	1.350	1.500												
108	1.350	1.350	1.500												
109	0.800	0.800		1.500											
110	1.350	0.800		1.500											
111	0.800	1.350		1.500											
112	1.350	1.350		1.500											
113	0.800	0.800	1.500	1.500											
114	1.350	0.800	1.500	1.500											
115	0.800	1.350	1.500	1.500											
116	1.350	1.350	1.500	1.500											
117	1.000	1.000												-0.300	-1.000
118	1.000	1.000												0.300	-1.000
119	1.000	1.000												-1.000	-0.300
120	1.000	1.000												-1.000	0.300
121	1.000	1.000												0.300	1.000
122	1.000	1.000												-0.300	1.000
123	1.000	1.000												1.000	0.300
124	1.000	1.000												1.000	-0.300

2. Coeficientes para situaciones accidentales de incendio

Comb.	PP	CM 1	Q 1	Q 2	V x+(1)	V x+(2)	Vy+(1)	Vy+(2)	V x-(1)	V x-(2)	V y-(1)	V y-(2)	N 1	SX	SY
1	1.000	1.000													
2	1.000	1.000			0.500										
3	1.000	1.000				0.500									
4	1.000	1.000					0.500								
5	1.000	1.000						0.500							
6	1.000	1.000							0.500						
7	1.000	1.000								0.500					
8	1.000	1.000									0.500				
9	1.000	1.000										0.500			
10	1.000	1.000											0.200		

- **Tensiones sobre el terreno**
- **Desplazamientos**

Comb.	PP	CM 1	Q 1	Q 2	V x+(1)	V x+(2)	Vy+(1)	Vy+(2)	V x-(1)	V x-(2)	V y-(1)	V y-(2)	N 1	SX	SY
1	1.000	1.000													
2	1.000	1.000			1.000										
3	1.000	1.000				1.000									
4	1.000	1.000					1.000								
5	1.000	1.000						1.000							
6	1.000	1.000							1.000						
7	1.000	1.000								1.000					
8	1.000	1.000									1.000				
9	1.000	1.000										1.000			
10	1.000	1.000											1.000		
11	1.000	1.000			1.000								1.000		
12	1.000	1.000				1.000							1.000		
13	1.000	1.000					1.000						1.000		
14	1.000	1.000						1.000					1.000		
15	1.000	1.000							1.000				1.000		
16	1.000	1.000								1.000			1.000		
17	1.000	1.000									1.000		1.000		
18	1.000	1.000										1.000	1.000		
19	1.000	1.000	1.000												
20	1.000	1.000		1.000											
21	1.000	1.000	1.000	1.000											
22	1.000	1.000	1.000		1.000										
23	1.000	1.000		1.000	1.000										
24	1.000	1.000	1.000	1.000	1.000										
25	1.000	1.000	1.000			1.000									
26	1.000	1.000		1.000		1.000									
27	1.000	1.000	1.000	1.000		1.000									
28	1.000	1.000	1.000				1.000								
29	1.000	1.000		1.000			1.000								
30	1.000	1.000	1.000	1.000			1.000								
31	1.000	1.000	1.000					1.000							
32	1.000	1.000		1.000				1.000							
33	1.000	1.000	1.000	1.000				1.000							
34	1.000	1.000	1.000						1.000						
35	1.000	1.000		1.000					1.000						
36	1.000	1.000	1.000	1.000					1.000						
37	1.000	1.000	1.000							1.000					
38	1.000	1.000		1.000						1.000					
39	1.000	1.000	1.000	1.000						1.000					
40	1.000	1.000	1.000								1.000				
41	1.000	1.000		1.000							1.000				
42	1.000	1.000	1.000	1.000							1.000				
43	1.000	1.000	1.000									1.000			
44	1.000	1.000		1.000								1.000			
45	1.000	1.000	1.000	1.000								1.000			
46	1.000	1.000	1.000										1.000		
47	1.000	1.000		1.000									1.000		
48	1.000	1.000	1.000	1.000									1.000		
49	1.000	1.000	1.000		1.000								1.000		
50	1.000	1.000		1.000	1.000								1.000		
51	1.000	1.000	1.000	1.000	1.000								1.000		
52	1.000	1.000	1.000			1.000							1.000		
53	1.000	1.000		1.000		1.000							1.000		
54	1.000	1.000	1.000	1.000		1.000							1.000		
55	1.000	1.000	1.000				1.000						1.000		
56	1.000	1.000		1.000			1.000						1.000		
57	1.000	1.000	1.000	1.000			1.000						1.000		
58	1.000	1.000	1.000					1.000					1.000		
59	1.000	1.000		1.000				1.000					1.000		
60	1.000	1.000	1.000	1.000				1.000					1.000		
61	1.000	1.000	1.000						1.000				1.000		
62	1.000	1.000		1.000					1.000				1.000		
63	1.000	1.000	1.000	1.000					1.000				1.000		
64	1.000	1.000	1.000							1.000			1.000		
65	1.000	1.000		1.000						1.000			1.000		
66	1.000	1.000	1.000	1.000						1.000			1.000		

Comb.	PP	CM 1	Q 1	Q 2	V x+(1)	V x+(2)	Vy+(1)	Vy+(2)	V x-(1)	V x-(2)	V y-(1)	V y-(2)	N 1	SX	SY
67	1.000	1.000	1.000								1.000		1.000		
68	1.000	1.000		1.000							1.000		1.000		
69	1.000	1.000	1.000	1.000							1.000		1.000		
70	1.000	1.000	1.000									1.000	1.000		
71	1.000	1.000		1.000								1.000	1.000		
72	1.000	1.000	1.000	1.000								1.000	1.000		
73	1.000	1.000												-1.000	
74	1.000	1.000												1.000	
75	1.000	1.000													-1.000
76	1.000	1.000													1.000

1.3. Sismo

Norma utilizada: NCSE-02
Norma de Construcción Sismorresistente NCSE-02

Método de cálculo: Análisis mediante espectros de respuesta (NCSE-02, 3.6.2)

1.3.1. Datos generales de sismo

Caracterización del emplazamiento
a_b: Aceleración básica (NCSE-02, 2.1 y Anejo 1) a_b : *0.040* g
K: Coeficiente de contribución (NCSE-02, 2.1 y Anejo 1) **K** : *1.00*
Tipo de suelo (NCSE-02, 2.4): Tipo III

Sistema estructural
Ductilidad (NCSE-02, Tabla 3.1): Ductilidad baja
Ω: Amortiguamiento (NCSE-02, Tabla 3.1) Ω : *5.00* %

Tipo de construcción (NCSE-02, 2.2): Construcciones de importancia normal

Parámetros de cálculo
Número de modos de vibración que intervienen en el análisis: Según norma
Fracción de sobrecarga de uso : *0.50*
Fracción de sobrecarga de nieve : *0.50*

Efectos de la componente sísmica vertical
No se consideran

No se realiza análisis de los efectos de 2º orden

Direcciones de análisis
Acción sísmica según X
Acción sísmica según Y

1.4. Resistencia al fuego

Perfiles de acero
Norma: CTE DB SI. Anejo D: Resistencia al fuego de los elementos de acero.
Resistencia requerida: R 30

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1. ESTRUCTURA

1.1. Geometría

1.1.1. Nudos

Referencias:

Δ_x, Δ_y, Δ_z: Desplazamientos prescritos en ejes globales.

θ_x, θ_y, θ_z: Giros prescritos en ejes globales.

Cada grado de libertad se marca con 'X' si está coaccionado y, en caso contrario, con '-'.

Nudos

Referencia	Coordenadas			Vinculación exterior						Vinculación interior
	X (m)	Y (m)	Z (m)	Δ_x	Δ_y	Δ_z	θ_x	θ_y	θ_z	
N1	44.200	1.300	-1.300	X	X	X	X	X	X	Empotrado
N2	44.200	1.300	6.500	-	-	-	-	-	-	Empotrado
N3	44.200	7.800	-1.300	X	X	X	X	X	X	Empotrado
N4	44.200	7.800	6.500	-	-	-	-	-	-	Empotrado
N5	44.200	14.300	-1.300	X	X	X	X	X	X	Empotrado
N6	44.200	14.300	6.500	-	-	-	-	-	-	Empotrado
N7	44.200	20.800	-1.300	X	X	X	X	X	X	Empotrado
N8	44.200	20.800	6.500	-	-	-	-	-	-	Empotrado
N9	44.200	27.300	-1.300	X	X	X	X	X	X	Empotrado
N10	44.200	27.300	6.500	-	-	-	-	-	-	Empotrado
N11	6.500	1.300	-1.300	X	X	X	X	X	X	Empotrado
N12	6.500	1.300	8.385	-	-	-	-	-	-	Empotrado
N13	14.300	1.300	-1.300	X	X	X	X	X	X	Empotrado
N14	14.300	1.300	7.995	-	-	-	-	-	-	Empotrado
N15	22.100	1.300	-1.300	X	X	X	X	X	X	Empotrado
N16	22.100	1.300	7.605	-	-	-	-	-	-	Empotrado
N17	29.900	1.300	-1.300	X	X	X	X	X	X	Empotrado
N18	29.900	1.300	7.215	-	-	-	-	-	-	Empotrado
N19	37.700	1.300	-1.300	X	X	X	X	X	X	Empotrado
N20	37.700	1.300	6.825	-	-	-	-	-	-	Empotrado
N21	37.700	27.300	-1.300	X	X	X	X	X	X	Empotrado
N22	37.700	27.300	6.825	-	-	-	-	-	-	Empotrado
N23	29.900	27.300	-1.300	X	X	X	X	X	X	Empotrado
N24	29.900	27.300	7.215	-	-	-	-	-	-	Empotrado
N25	22.100	27.300	-1.300	X	X	X	X	X	X	Empotrado
N26	22.100	27.300	7.605	-	-	-	-	-	-	Empotrado
N27	14.300	27.300	-1.300	X	X	X	X	X	X	Empotrado
N28	14.300	27.300	7.995	-	-	-	-	-	-	Empotrado
N29	6.500	27.300	-1.300	X	X	X	X	X	X	Empotrado
N30	6.500	27.300	8.385	-	-	-	-	-	-	Empotrado
N31	0.065	28.600	10.008	-	-	-	-	-	-	Empotrado
N32	46.865	28.600	7.668	-	-	-	-	-	-	Empotrado
N33	46.865	0.000	7.668	-	-	-	-	-	-	Empotrado
N34	0.065	0.000	10.008	-	-	-	-	-	-	Empotrado
N35	46.865	1.300	7.668	-	-	-	-	-	-	Empotrado
N36	46.865	2.600	7.668	-	-	-	-	-	-	Empotrado
N37	46.865	3.900	7.668	-	-	-	-	-	-	Empotrado
N38	46.865	5.200	7.668	-	-	-	-	-	-	Empotrado
N39	46.865	6.500	7.668	-	-	-	-	-	-	Empotrado
N40	46.865	7.800	7.668	-	-	-	-	-	-	Empotrado
N41	46.865	9.100	7.668	-	-	-	-	-	-	Empotrado
N42	46.865	10.400	7.668	-	-	-	-	-	-	Empotrado
N43	46.865	11.700	7.668	-	-	-	-	-	-	Empotrado
N44	46.865	13.000	7.668	-	-	-	-	-	-	Empotrado
N45	46.865	14.300	7.668	-	-	-	-	-	-	Empotrado

Nudos										
Referencia	Coordenadas			Vinculación exterior						Vinculación interior
	X (m)	Y (m)	Z (m)	Δ_x	Δ_y	Δ_z	θ_x	θ_y	θ_z	
N46	46.865	15.600	7.668	-	-	-	-	-	-	Empotrado
N47	46.865	16.900	7.668	-	-	-	-	-	-	Empotrado
N48	46.865	18.200	7.668	-	-	-	-	-	-	Empotrado
N49	46.865	19.500	7.668	-	-	-	-	-	-	Empotrado
N50	46.865	20.800	7.668	-	-	-	-	-	-	Empotrado
N51	46.865	22.100	7.668	-	-	-	-	-	-	Empotrado
N52	46.865	23.400	7.668	-	-	-	-	-	-	Empotrado
N53	46.865	24.700	7.668	-	-	-	-	-	-	Empotrado
N54	46.865	26.000	7.668	-	-	-	-	-	-	Empotrado
N55	46.865	27.300	7.668	-	-	-	-	-	-	Empotrado
N56	45.565	0.000	7.733	-	-	-	-	-	-	Empotrado
N57	45.565	1.300	7.733	-	-	-	-	-	-	Empotrado
N58	45.565	2.600	7.733	-	-	-	-	-	-	Empotrado
N59	45.565	3.900	7.733	-	-	-	-	-	-	Empotrado
N60	45.565	5.200	7.733	-	-	-	-	-	-	Empotrado
N61	45.565	6.500	7.733	-	-	-	-	-	-	Empotrado
N62	45.565	7.800	7.733	-	-	-	-	-	-	Empotrado
N63	45.565	9.100	7.733	-	-	-	-	-	-	Empotrado
N64	45.565	10.400	7.733	-	-	-	-	-	-	Empotrado
N65	45.565	11.700	7.733	-	-	-	-	-	-	Empotrado
N66	45.565	13.000	7.733	-	-	-	-	-	-	Empotrado
N67	45.565	14.300	7.733	-	-	-	-	-	-	Empotrado
N68	45.565	15.600	7.733	-	-	-	-	-	-	Empotrado
N69	45.565	16.900	7.733	-	-	-	-	-	-	Empotrado
N70	45.565	18.200	7.733	-	-	-	-	-	-	Empotrado
N71	45.565	19.500	7.733	-	-	-	-	-	-	Empotrado
N72	45.565	20.800	7.733	-	-	-	-	-	-	Empotrado
N73	45.565	22.100	7.733	-	-	-	-	-	-	Empotrado
N74	45.565	23.400	7.733	-	-	-	-	-	-	Empotrado
N75	45.565	24.700	7.733	-	-	-	-	-	-	Empotrado
N76	45.565	26.000	7.733	-	-	-	-	-	-	Empotrado
N77	45.565	27.300	7.733	-	-	-	-	-	-	Empotrado
N78	45.565	28.600	7.733	-	-	-	-	-	-	Empotrado
N79	44.265	0.000	7.798	-	-	-	-	-	-	Empotrado
N80	44.265	1.300	7.798	-	-	-	-	-	-	Empotrado
N81	44.265	2.600	7.798	-	-	-	-	-	-	Empotrado
N82	44.265	3.900	7.798	-	-	-	-	-	-	Empotrado
N83	44.265	5.200	7.798	-	-	-	-	-	-	Empotrado
N84	44.265	6.500	7.798	-	-	-	-	-	-	Empotrado
N85	44.265	7.800	7.798	-	-	-	-	-	-	Empotrado
N86	44.265	9.100	7.798	-	-	-	-	-	-	Empotrado
N87	44.265	10.400	7.798	-	-	-	-	-	-	Empotrado
N88	44.265	11.700	7.798	-	-	-	-	-	-	Empotrado
N89	44.265	13.000	7.798	-	-	-	-	-	-	Empotrado
N90	44.265	14.300	7.798	-	-	-	-	-	-	Empotrado
N91	44.265	15.600	7.798	-	-	-	-	-	-	Empotrado
N92	44.265	16.900	7.798	-	-	-	-	-	-	Empotrado
N93	44.265	18.200	7.798	-	-	-	-	-	-	Empotrado
N94	44.265	19.500	7.798	-	-	-	-	-	-	Empotrado
N95	44.265	20.800	7.798	-	-	-	-	-	-	Empotrado
N96	44.265	22.100	7.798	-	-	-	-	-	-	Empotrado
N97	44.265	23.400	7.798	-	-	-	-	-	-	Empotrado
N98	44.265	24.700	7.798	-	-	-	-	-	-	Empotrado
N99	44.265	26.000	7.798	-	-	-	-	-	-	Empotrado
N100	44.265	27.300	7.798	-	-	-	-	-	-	Empotrado

Nudos										
Referencia	Coordenadas			Vinculación exterior						Vinculación interior
	X (m)	Y (m)	Z (m)	Δ_x	Δ_y	Δ_z	θ_x	θ_y	θ_z	
N101	44.265	28.600	7.798	-	-	-	-	-	-	Empotrado
N102	42.965	0.000	7.863	-	-	-	-	-	-	Empotrado
N103	42.965	1.300	7.863	-	-	-	-	-	-	Empotrado
N104	42.965	2.600	7.863	-	-	-	-	-	-	Empotrado
N105	42.965	3.900	7.863	-	-	-	-	-	-	Empotrado
N106	42.965	5.200	7.863	-	-	-	-	-	-	Empotrado
N107	42.965	6.500	7.863	-	-	-	-	-	-	Empotrado
N108	42.965	7.800	7.863	-	-	-	-	-	-	Empotrado
N109	42.965	9.100	7.863	-	-	-	-	-	-	Empotrado
N110	42.965	10.400	7.863	-	-	-	-	-	-	Empotrado
N111	42.965	11.700	7.863	-	-	-	-	-	-	Empotrado
N112	42.965	13.000	7.863	-	-	-	-	-	-	Empotrado
N113	42.965	14.300	7.863	-	-	-	-	-	-	Empotrado
N114	42.965	15.600	7.863	-	-	-	-	-	-	Empotrado
N115	42.965	16.900	7.863	-	-	-	-	-	-	Empotrado
N116	42.965	18.200	7.863	-	-	-	-	-	-	Empotrado
N117	42.965	19.500	7.863	-	-	-	-	-	-	Empotrado
N118	42.965	20.800	7.863	-	-	-	-	-	-	Empotrado
N119	42.965	22.100	7.863	-	-	-	-	-	-	Empotrado
N120	42.965	23.400	7.863	-	-	-	-	-	-	Empotrado
N121	42.965	24.700	7.863	-	-	-	-	-	-	Empotrado
N122	42.965	26.000	7.863	-	-	-	-	-	-	Empotrado
N123	42.965	27.300	7.863	-	-	-	-	-	-	Empotrado
N124	42.965	28.600	7.863	-	-	-	-	-	-	Empotrado
N125	41.665	0.000	7.928	-	-	-	-	-	-	Empotrado
N126	41.665	1.300	7.928	-	-	-	-	-	-	Empotrado
N127	41.665	2.600	7.928	-	-	-	-	-	-	Empotrado
N128	41.665	3.900	7.928	-	-	-	-	-	-	Empotrado
N129	41.665	5.200	7.928	-	-	-	-	-	-	Empotrado
N130	41.665	6.500	7.928	-	-	-	-	-	-	Empotrado
N131	41.665	7.800	7.928	-	-	-	-	-	-	Empotrado
N132	41.665	9.100	7.928	-	-	-	-	-	-	Empotrado
N133	41.665	10.400	7.928	-	-	-	-	-	-	Empotrado
N134	41.665	11.700	7.928	-	-	-	-	-	-	Empotrado
N135	41.665	13.000	7.928	-	-	-	-	-	-	Empotrado
N136	41.665	14.300	7.928	-	-	-	-	-	-	Empotrado
N137	41.665	15.600	7.928	-	-	-	-	-	-	Empotrado
N138	41.665	16.900	7.928	-	-	-	-	-	-	Empotrado
N139	41.665	18.200	7.928	-	-	-	-	-	-	Empotrado
N140	41.665	19.500	7.928	-	-	-	-	-	-	Empotrado
N141	41.665	20.800	7.928	-	-	-	-	-	-	Empotrado
N142	41.665	22.100	7.928	-	-	-	-	-	-	Empotrado
N143	41.665	23.400	7.928	-	-	-	-	-	-	Empotrado
N144	41.665	24.700	7.928	-	-	-	-	-	-	Empotrado
N145	41.665	26.000	7.928	-	-	-	-	-	-	Empotrado
N146	41.665	27.300	7.928	-	-	-	-	-	-	Empotrado
N147	41.665	28.600	7.928	-	-	-	-	-	-	Empotrado
N148	40.365	0.000	7.993	-	-	-	-	-	-	Empotrado
N149	40.365	1.300	7.993	-	-	-	-	-	-	Empotrado
N150	40.365	2.600	7.993	-	-	-	-	-	-	Empotrado
N151	40.365	3.900	7.993	-	-	-	-	-	-	Empotrado
N152	40.365	5.200	7.993	-	-	-	-	-	-	Empotrado
N153	40.365	6.500	7.993	-	-	-	-	-	-	Empotrado
N154	40.365	7.800	7.993	-	-	-	-	-	-	Empotrado
N155	40.365	9.100	7.993	-	-	-	-	-	-	Empotrado

Nudos										
Referencia	Coordenadas			Vinculación exterior						Vinculación interior
	X (m)	Y (m)	Z (m)	Δ_x	Δ_y	Δ_z	θ_x	θ_y	θ_z	
N156	40.365	10.400	7.993	-	-	-	-	-	-	Empotrado
N157	40.365	11.700	7.993	-	-	-	-	-	-	Empotrado
N158	40.365	13.000	7.993	-	-	-	-	-	-	Empotrado
N159	40.365	14.300	7.993	-	-	-	-	-	-	Empotrado
N160	40.365	15.600	7.993	-	-	-	-	-	-	Empotrado
N161	40.365	16.900	7.993	-	-	-	-	-	-	Empotrado
N162	40.365	18.200	7.993	-	-	-	-	-	-	Empotrado
N163	40.365	19.500	7.993	-	-	-	-	-	-	Empotrado
N164	40.365	20.800	7.993	-	-	-	-	-	-	Empotrado
N165	40.365	22.100	7.993	-	-	-	-	-	-	Empotrado
N166	40.365	23.400	7.993	-	-	-	-	-	-	Empotrado
N167	40.365	24.700	7.993	-	-	-	-	-	-	Empotrado
N168	40.365	26.000	7.993	-	-	-	-	-	-	Empotrado
N169	40.365	27.300	7.993	-	-	-	-	-	-	Empotrado
N170	40.365	28.600	7.993	-	-	-	-	-	-	Empotrado
N171	39.065	0.000	8.058	-	-	-	-	-	-	Empotrado
N172	39.065	1.300	8.058	-	-	-	-	-	-	Empotrado
N173	39.065	2.600	8.058	-	-	-	-	-	-	Empotrado
N174	39.065	3.900	8.058	-	-	-	-	-	-	Empotrado
N175	39.065	5.200	8.058	-	-	-	-	-	-	Empotrado
N176	39.065	6.500	8.058	-	-	-	-	-	-	Empotrado
N177	39.065	7.800	8.058	-	-	-	-	-	-	Empotrado
N178	39.065	9.100	8.058	-	-	-	-	-	-	Empotrado
N179	39.065	10.400	8.058	-	-	-	-	-	-	Empotrado
N180	39.065	11.700	8.058	-	-	-	-	-	-	Empotrado
N181	39.065	13.000	8.058	-	-	-	-	-	-	Empotrado
N182	39.065	14.300	8.058	-	-	-	-	-	-	Empotrado
N183	39.065	15.600	8.058	-	-	-	-	-	-	Empotrado
N184	39.065	16.900	8.058	-	-	-	-	-	-	Empotrado
N185	39.065	18.200	8.058	-	-	-	-	-	-	Empotrado
N186	39.065	19.500	8.058	-	-	-	-	-	-	Empotrado
N187	39.065	20.800	8.058	-	-	-	-	-	-	Empotrado
N188	39.065	22.100	8.058	-	-	-	-	-	-	Empotrado
N189	39.065	23.400	8.058	-	-	-	-	-	-	Empotrado
N190	39.065	24.700	8.058	-	-	-	-	-	-	Empotrado
N191	39.065	26.000	8.058	-	-	-	-	-	-	Empotrado
N192	39.065	27.300	8.058	-	-	-	-	-	-	Empotrado
N193	39.065	28.600	8.058	-	-	-	-	-	-	Empotrado
N194	37.765	0.000	8.123	-	-	-	-	-	-	Empotrado
N195	37.765	1.300	8.123	-	-	-	-	-	-	Empotrado
N196	37.765	2.600	8.123	-	-	-	-	-	-	Empotrado
N197	37.765	3.900	8.123	-	-	-	-	-	-	Empotrado
N198	37.765	5.200	8.123	-	-	-	-	-	-	Empotrado
N199	37.765	6.500	8.123	-	-	-	-	-	-	Empotrado
N200	37.765	7.800	8.123	-	-	-	-	-	-	Empotrado
N201	37.765	9.100	8.123	-	-	-	-	-	-	Empotrado
N202	37.765	10.400	8.123	-	-	-	-	-	-	Empotrado
N203	37.765	11.700	8.123	-	-	-	-	-	-	Empotrado
N204	37.765	13.000	8.123	-	-	-	-	-	-	Empotrado
N205	37.765	14.300	8.123	-	-	-	-	-	-	Empotrado
N206	37.765	15.600	8.123	-	-	-	-	-	-	Empotrado
N207	37.765	16.900	8.123	-	-	-	-	-	-	Empotrado
N208	37.765	18.200	8.123	-	-	-	-	-	-	Empotrado
N209	37.765	19.500	8.123	-	-	-	-	-	-	Empotrado
N210	37.765	20.800	8.123	-	-	-	-	-	-	Empotrado

Nudos										
Referencia	Coordenadas			Vinculación exterior						Vinculación interior
	X (m)	Y (m)	Z (m)	Δ_x	Δ_y	Δ_z	θ_x	θ_y	θ_z	
N211	37.765	22.100	8.123	-	-	-	-	-	-	Empotrado
N212	37.765	23.400	8.123	-	-	-	-	-	-	Empotrado
N213	37.765	24.700	8.123	-	-	-	-	-	-	Empotrado
N214	37.765	26.000	8.123	-	-	-	-	-	-	Empotrado
N215	37.765	27.300	8.123	-	-	-	-	-	-	Empotrado
N216	37.765	28.600	8.123	-	-	-	-	-	-	Empotrado
N217	36.465	0.000	8.188	-	-	-	-	-	-	Empotrado
N218	36.465	1.300	8.188	-	-	-	-	-	-	Empotrado
N219	36.465	2.600	8.188	-	-	-	-	-	-	Empotrado
N220	36.465	3.900	8.188	-	-	-	-	-	-	Empotrado
N221	36.465	5.200	8.188	-	-	-	-	-	-	Empotrado
N222	36.465	6.500	8.188	-	-	-	-	-	-	Empotrado
N223	36.465	7.800	8.188	-	-	-	-	-	-	Empotrado
N224	36.465	9.100	8.188	-	-	-	-	-	-	Empotrado
N225	36.465	10.400	8.188	-	-	-	-	-	-	Empotrado
N226	36.465	11.700	8.188	-	-	-	-	-	-	Empotrado
N227	36.465	13.000	8.188	-	-	-	-	-	-	Empotrado
N228	36.465	14.300	8.188	-	-	-	-	-	-	Empotrado
N229	36.465	15.600	8.188	-	-	-	-	-	-	Empotrado
N230	36.465	16.900	8.188	-	-	-	-	-	-	Empotrado
N231	36.465	18.200	8.188	-	-	-	-	-	-	Empotrado
N232	36.465	19.500	8.188	-	-	-	-	-	-	Empotrado
N233	36.465	20.800	8.188	-	-	-	-	-	-	Empotrado
N234	36.465	22.100	8.188	-	-	-	-	-	-	Empotrado
N235	36.465	23.400	8.188	-	-	-	-	-	-	Empotrado
N236	36.465	24.700	8.188	-	-	-	-	-	-	Empotrado
N237	36.465	26.000	8.188	-	-	-	-	-	-	Empotrado
N238	36.465	27.300	8.188	-	-	-	-	-	-	Empotrado
N239	36.465	28.600	8.188	-	-	-	-	-	-	Empotrado
N240	35.165	0.000	8.253	-	-	-	-	-	-	Empotrado
N241	35.165	1.300	8.253	-	-	-	-	-	-	Empotrado
N242	35.165	2.600	8.253	-	-	-	-	-	-	Empotrado
N243	35.165	3.900	8.253	-	-	-	-	-	-	Empotrado
N244	35.165	5.200	8.253	-	-	-	-	-	-	Empotrado
N245	35.165	6.500	8.253	-	-	-	-	-	-	Empotrado
N246	35.165	7.800	8.253	-	-	-	-	-	-	Empotrado
N247	35.165	9.100	8.253	-	-	-	-	-	-	Empotrado
N248	35.165	10.400	8.253	-	-	-	-	-	-	Empotrado
N249	35.165	11.700	8.253	-	-	-	-	-	-	Empotrado
N250	35.165	13.000	8.253	-	-	-	-	-	-	Empotrado
N251	35.165	14.300	8.253	-	-	-	-	-	-	Empotrado
N252	35.165	15.600	8.253	-	-	-	-	-	-	Empotrado
N253	35.165	16.900	8.253	-	-	-	-	-	-	Empotrado
N254	35.165	18.200	8.253	-	-	-	-	-	-	Empotrado
N255	35.165	19.500	8.253	-	-	-	-	-	-	Empotrado
N256	35.165	20.800	8.253	-	-	-	-	-	-	Empotrado
N257	35.165	22.100	8.253	-	-	-	-	-	-	Empotrado
N258	35.165	23.400	8.253	-	-	-	-	-	-	Empotrado
N259	35.165	24.700	8.253	-	-	-	-	-	-	Empotrado
N260	35.165	26.000	8.253	-	-	-	-	-	-	Empotrado
N261	35.165	27.300	8.253	-	-	-	-	-	-	Empotrado
N262	35.165	28.600	8.253	-	-	-	-	-	-	Empotrado
N263	33.865	0.000	8.318	-	-	-	-	-	-	Empotrado
N264	33.865	1.300	8.318	-	-	-	-	-	-	Empotrado
N265	33.865	2.600	8.318	-	-	-	-	-	-	Empotrado

Nudos										
Referencia	Coordenadas			Vinculación exterior						Vinculación interior
	X (m)	Y (m)	Z (m)	Δ_x	Δ_y	Δ_z	θ_x	θ_y	θ_z	
N266	33.865	3.900	8.318	-	-	-	-	-	-	Empotrado
N267	33.865	5.200	8.318	-	-	-	-	-	-	Empotrado
N268	33.865	6.500	8.318	-	-	-	-	-	-	Empotrado
N269	33.865	7.800	8.318	-	-	-	-	-	-	Empotrado
N270	33.865	9.100	8.318	-	-	-	-	-	-	Empotrado
N271	33.865	10.400	8.318	-	-	-	-	-	-	Empotrado
N272	33.865	11.700	8.318	-	-	-	-	-	-	Empotrado
N273	33.865	13.000	8.318	-	-	-	-	-	-	Empotrado
N274	33.865	14.300	8.318	-	-	-	-	-	-	Empotrado
N275	33.865	15.600	8.318	-	-	-	-	-	-	Empotrado
N276	33.865	16.900	8.318	-	-	-	-	-	-	Empotrado
N277	33.865	18.200	8.318	-	-	-	-	-	-	Empotrado
N278	33.865	19.500	8.318	-	-	-	-	-	-	Empotrado
N279	33.865	20.800	8.318	-	-	-	-	-	-	Empotrado
N280	33.865	22.100	8.318	-	-	-	-	-	-	Empotrado
N281	33.865	23.400	8.318	-	-	-	-	-	-	Empotrado
N282	33.865	24.700	8.318	-	-	-	-	-	-	Empotrado
N283	33.865	26.000	8.318	-	-	-	-	-	-	Empotrado
N284	33.865	27.300	8.318	-	-	-	-	-	-	Empotrado
N285	33.865	28.600	8.318	-	-	-	-	-	-	Empotrado
N286	32.565	0.000	8.383	-	-	-	-	-	-	Empotrado
N287	32.565	1.300	8.383	-	-	-	-	-	-	Empotrado
N288	32.565	2.600	8.383	-	-	-	-	-	-	Empotrado
N289	32.565	3.900	8.383	-	-	-	-	-	-	Empotrado
N290	32.565	5.200	8.383	-	-	-	-	-	-	Empotrado
N291	32.565	6.500	8.383	-	-	-	-	-	-	Empotrado
N292	32.565	7.800	8.383	-	-	-	-	-	-	Empotrado
N293	32.565	9.100	8.383	-	-	-	-	-	-	Empotrado
N294	32.565	10.400	8.383	-	-	-	-	-	-	Empotrado
N295	32.565	11.700	8.383	-	-	-	-	-	-	Empotrado
N296	32.565	13.000	8.383	-	-	-	-	-	-	Empotrado
N297	32.565	14.300	8.383	-	-	-	-	-	-	Empotrado
N298	32.565	15.600	8.383	-	-	-	-	-	-	Empotrado
N299	32.565	16.900	8.383	-	-	-	-	-	-	Empotrado
N300	32.565	18.200	8.383	-	-	-	-	-	-	Empotrado
N301	32.565	19.500	8.383	-	-	-	-	-	-	Empotrado
N302	32.565	20.800	8.383	-	-	-	-	-	-	Empotrado
N303	32.565	22.100	8.383	-	-	-	-	-	-	Empotrado
N304	32.565	23.400	8.383	-	-	-	-	-	-	Empotrado
N305	32.565	24.700	8.383	-	-	-	-	-	-	Empotrado
N306	32.565	26.000	8.383	-	-	-	-	-	-	Empotrado
N307	32.565	27.300	8.383	-	-	-	-	-	-	Empotrado
N308	32.565	28.600	8.383	-	-	-	-	-	-	Empotrado
N309	31.265	0.000	8.448	-	-	-	-	-	-	Empotrado
N310	31.265	1.300	8.448	-	-	-	-	-	-	Empotrado
N311	31.265	2.600	8.448	-	-	-	-	-	-	Empotrado
N312	31.265	3.900	8.448	-	-	-	-	-	-	Empotrado
N313	31.265	5.200	8.448	-	-	-	-	-	-	Empotrado
N314	31.265	6.500	8.448	-	-	-	-	-	-	Empotrado
N315	31.265	7.800	8.448	-	-	-	-	-	-	Empotrado
N316	31.265	9.100	8.448	-	-	-	-	-	-	Empotrado
N317	31.265	10.400	8.448	-	-	-	-	-	-	Empotrado
N318	31.265	11.700	8.448	-	-	-	-	-	-	Empotrado
N319	31.265	13.000	8.448	-	-	-	-	-	-	Empotrado
N320	31.265	14.300	8.448	-	-	-	-	-	-	Empotrado

Nudos										
Referencia	Coordenadas			Vinculación exterior						Vinculación interior
	X (m)	Y (m)	Z (m)	Δ_x	Δ_y	Δ_z	θ_x	θ_y	θ_z	
N321	31.265	15.600	8.448	-	-	-	-	-	-	Empotrado
N322	31.265	16.900	8.448	-	-	-	-	-	-	Empotrado
N323	31.265	18.200	8.448	-	-	-	-	-	-	Empotrado
N324	31.265	19.500	8.448	-	-	-	-	-	-	Empotrado
N325	31.265	20.800	8.448	-	-	-	-	-	-	Empotrado
N326	31.265	22.100	8.448	-	-	-	-	-	-	Empotrado
N327	31.265	23.400	8.448	-	-	-	-	-	-	Empotrado
N328	31.265	24.700	8.448	-	-	-	-	-	-	Empotrado
N329	31.265	26.000	8.448	-	-	-	-	-	-	Empotrado
N330	31.265	27.300	8.448	-	-	-	-	-	-	Empotrado
N331	31.265	28.600	8.448	-	-	-	-	-	-	Empotrado
N332	29.965	0.000	8.513	-	-	-	-	-	-	Empotrado
N333	29.965	1.300	8.513	-	-	-	-	-	-	Empotrado
N334	29.965	2.600	8.513	-	-	-	-	-	-	Empotrado
N335	29.965	3.900	8.513	-	-	-	-	-	-	Empotrado
N336	29.965	5.200	8.513	-	-	-	-	-	-	Empotrado
N337	29.965	6.500	8.513	-	-	-	-	-	-	Empotrado
N338	29.965	7.800	8.513	-	-	-	-	-	-	Empotrado
N339	29.965	9.100	8.513	-	-	-	-	-	-	Empotrado
N340	29.965	10.400	8.513	-	-	-	-	-	-	Empotrado
N341	29.965	11.700	8.513	-	-	-	-	-	-	Empotrado
N342	29.965	13.000	8.513	-	-	-	-	-	-	Empotrado
N343	29.965	14.300	8.513	-	-	-	-	-	-	Empotrado
N344	29.965	15.600	8.513	-	-	-	-	-	-	Empotrado
N345	29.965	16.900	8.513	-	-	-	-	-	-	Empotrado
N346	29.965	18.200	8.513	-	-	-	-	-	-	Empotrado
N347	29.965	19.500	8.513	-	-	-	-	-	-	Empotrado
N348	29.965	20.800	8.513	-	-	-	-	-	-	Empotrado
N349	29.965	22.100	8.513	-	-	-	-	-	-	Empotrado
N350	29.965	23.400	8.513	-	-	-	-	-	-	Empotrado
N351	29.965	24.700	8.513	-	-	-	-	-	-	Empotrado
N352	29.965	26.000	8.513	-	-	-	-	-	-	Empotrado
N353	29.965	27.300	8.513	-	-	-	-	-	-	Empotrado
N354	29.965	28.600	8.513	-	-	-	-	-	-	Empotrado
N355	28.665	0.000	8.578	-	-	-	-	-	-	Empotrado
N356	28.665	1.300	8.578	-	-	-	-	-	-	Empotrado
N357	28.665	2.600	8.578	-	-	-	-	-	-	Empotrado
N358	28.665	3.900	8.578	-	-	-	-	-	-	Empotrado
N359	28.665	5.200	8.578	-	-	-	-	-	-	Empotrado
N360	28.665	6.500	8.578	-	-	-	-	-	-	Empotrado
N361	28.665	7.800	8.578	-	-	-	-	-	-	Empotrado
N362	28.665	9.100	8.578	-	-	-	-	-	-	Empotrado
N363	28.665	10.400	8.578	-	-	-	-	-	-	Empotrado
N364	28.665	11.700	8.578	-	-	-	-	-	-	Empotrado
N365	28.665	13.000	8.578	-	-	-	-	-	-	Empotrado
N366	28.665	14.300	8.578	-	-	-	-	-	-	Empotrado
N367	28.665	15.600	8.578	-	-	-	-	-	-	Empotrado
N368	28.665	16.900	8.578	-	-	-	-	-	-	Empotrado
N369	28.665	18.200	8.578	-	-	-	-	-	-	Empotrado
N370	28.665	19.500	8.578	-	-	-	-	-	-	Empotrado
N371	28.665	20.800	8.578	-	-	-	-	-	-	Empotrado
N372	28.665	22.100	8.578	-	-	-	-	-	-	Empotrado
N373	28.665	23.400	8.578	-	-	-	-	-	-	Empotrado
N374	28.665	24.700	8.578	-	-	-	-	-	-	Empotrado
N375	28.665	26.000	8.578	-	-	-	-	-	-	Empotrado

Nudos										
Referencia	Coordenadas			Vinculación exterior						Vinculación interior
	X (m)	Y (m)	Z (m)	Δ_x	Δ_y	Δ_z	θ_x	θ_y	θ_z	
N376	28.665	27.300	8.578	-	-	-	-	-	-	Empotrado
N377	28.665	28.600	8.578	-	-	-	-	-	-	Empotrado
N378	27.365	0.000	8.643	-	-	-	-	-	-	Empotrado
N379	27.365	1.300	8.643	-	-	-	-	-	-	Empotrado
N380	27.365	2.600	8.643	-	-	-	-	-	-	Empotrado
N381	27.365	3.900	8.643	-	-	-	-	-	-	Empotrado
N382	27.365	5.200	8.643	-	-	-	-	-	-	Empotrado
N383	27.365	6.500	8.643	-	-	-	-	-	-	Empotrado
N384	27.365	7.800	8.643	-	-	-	-	-	-	Empotrado
N385	27.365	9.100	8.643	-	-	-	-	-	-	Empotrado
N386	27.365	10.400	8.643	-	-	-	-	-	-	Empotrado
N387	27.365	11.700	8.643	-	-	-	-	-	-	Empotrado
N388	27.365	13.000	8.643	-	-	-	-	-	-	Empotrado
N389	27.365	14.300	8.643	-	-	-	-	-	-	Empotrado
N390	27.365	15.600	8.643	-	-	-	-	-	-	Empotrado
N391	27.365	16.900	8.643	-	-	-	-	-	-	Empotrado
N392	27.365	18.200	8.643	-	-	-	-	-	-	Empotrado
N393	27.365	19.500	8.643	-	-	-	-	-	-	Empotrado
N394	27.365	20.800	8.643	-	-	-	-	-	-	Empotrado
N395	27.365	22.100	8.643	-	-	-	-	-	-	Empotrado
N396	27.365	23.400	8.643	-	-	-	-	-	-	Empotrado
N397	27.365	24.700	8.643	-	-	-	-	-	-	Empotrado
N398	27.365	26.000	8.643	-	-	-	-	-	-	Empotrado
N399	27.365	27.300	8.643	-	-	-	-	-	-	Empotrado
N400	27.365	28.600	8.643	-	-	-	-	-	-	Empotrado
N401	26.065	0.000	8.708	-	-	-	-	-	-	Empotrado
N402	26.065	1.300	8.708	-	-	-	-	-	-	Empotrado
N403	26.065	2.600	8.708	-	-	-	-	-	-	Empotrado
N404	26.065	3.900	8.708	-	-	-	-	-	-	Empotrado
N405	26.065	5.200	8.708	-	-	-	-	-	-	Empotrado
N406	26.065	6.500	8.708	-	-	-	-	-	-	Empotrado
N407	26.065	7.800	8.708	-	-	-	-	-	-	Empotrado
N408	26.065	9.100	8.708	-	-	-	-	-	-	Empotrado
N409	26.065	10.400	8.708	-	-	-	-	-	-	Empotrado
N410	26.065	11.700	8.708	-	-	-	-	-	-	Empotrado
N411	26.065	13.000	8.708	-	-	-	-	-	-	Empotrado
N412	26.065	14.300	8.708	-	-	-	-	-	-	Empotrado
N413	26.065	15.600	8.708	-	-	-	-	-	-	Empotrado
N414	26.065	16.900	8.708	-	-	-	-	-	-	Empotrado
N415	26.065	18.200	8.708	-	-	-	-	-	-	Empotrado
N416	26.065	19.500	8.708	-	-	-	-	-	-	Empotrado
N417	26.065	20.800	8.708	-	-	-	-	-	-	Empotrado
N418	26.065	22.100	8.708	-	-	-	-	-	-	Empotrado
N419	26.065	23.400	8.708	-	-	-	-	-	-	Empotrado
N420	26.065	24.700	8.708	-	-	-	-	-	-	Empotrado
N421	26.065	26.000	8.708	-	-	-	-	-	-	Empotrado
N422	26.065	27.300	8.708	-	-	-	-	-	-	Empotrado
N423	26.065	28.600	8.708	-	-	-	-	-	-	Empotrado
N424	24.765	0.000	8.773	-	-	-	-	-	-	Empotrado
N425	24.765	1.300	8.773	-	-	-	-	-	-	Empotrado
N426	24.765	2.600	8.773	-	-	-	-	-	-	Empotrado
N427	24.765	3.900	8.773	-	-	-	-	-	-	Empotrado
N428	24.765	5.200	8.773	-	-	-	-	-	-	Empotrado
N429	24.765	6.500	8.773	-	-	-	-	-	-	Empotrado
N430	24.765	7.800	8.773	-	-	-	-	-	-	Empotrado

Nudos										
Referencia	Coordenadas			Vinculación exterior						Vinculación interior
	X (m)	Y (m)	Z (m)	Δ_x	Δ_y	Δ_z	θ_x	θ_y	θ_z	
N431	24.765	9.100	8.773	-	-	-	-	-	-	Empotrado
N432	24.765	10.400	8.773	-	-	-	-	-	-	Empotrado
N433	24.765	11.700	8.773	-	-	-	-	-	-	Empotrado
N434	24.765	13.000	8.773	-	-	-	-	-	-	Empotrado
N435	24.765	14.300	8.773	-	-	-	-	-	-	Empotrado
N436	24.765	15.600	8.773	-	-	-	-	-	-	Empotrado
N437	24.765	16.900	8.773	-	-	-	-	-	-	Empotrado
N438	24.765	18.200	8.773	-	-	-	-	-	-	Empotrado
N439	24.765	19.500	8.773	-	-	-	-	-	-	Empotrado
N440	24.765	20.800	8.773	-	-	-	-	-	-	Empotrado
N441	24.765	22.100	8.773	-	-	-	-	-	-	Empotrado
N442	24.765	23.400	8.773	-	-	-	-	-	-	Empotrado
N443	24.765	24.700	8.773	-	-	-	-	-	-	Empotrado
N444	24.765	26.000	8.773	-	-	-	-	-	-	Empotrado
N445	24.765	27.300	8.773	-	-	-	-	-	-	Empotrado
N446	24.765	28.600	8.773	-	-	-	-	-	-	Empotrado
N447	23.465	0.000	8.838	-	-	-	-	-	-	Empotrado
N448	23.465	1.300	8.838	-	-	-	-	-	-	Empotrado
N449	23.465	2.600	8.838	-	-	-	-	-	-	Empotrado
N450	23.465	3.900	8.838	-	-	-	-	-	-	Empotrado
N451	23.465	5.200	8.838	-	-	-	-	-	-	Empotrado
N452	23.465	6.500	8.838	-	-	-	-	-	-	Empotrado
N453	23.465	7.800	8.838	-	-	-	-	-	-	Empotrado
N454	23.465	9.100	8.838	-	-	-	-	-	-	Empotrado
N455	23.465	10.400	8.838	-	-	-	-	-	-	Empotrado
N456	23.465	11.700	8.838	-	-	-	-	-	-	Empotrado
N457	23.465	13.000	8.838	-	-	-	-	-	-	Empotrado
N458	23.465	14.300	8.838	-	-	-	-	-	-	Empotrado
N459	23.465	15.600	8.838	-	-	-	-	-	-	Empotrado
N460	23.465	16.900	8.838	-	-	-	-	-	-	Empotrado
N461	23.465	18.200	8.838	-	-	-	-	-	-	Empotrado
N462	23.465	19.500	8.838	-	-	-	-	-	-	Empotrado
N463	23.465	20.800	8.838	-	-	-	-	-	-	Empotrado
N464	23.465	22.100	8.838	-	-	-	-	-	-	Empotrado
N465	23.465	23.400	8.838	-	-	-	-	-	-	Empotrado
N466	23.465	24.700	8.838	-	-	-	-	-	-	Empotrado
N467	23.465	26.000	8.838	-	-	-	-	-	-	Empotrado
N468	23.465	27.300	8.838	-	-	-	-	-	-	Empotrado
N469	23.465	28.600	8.838	-	-	-	-	-	-	Empotrado
N470	22.165	0.000	8.903	-	-	-	-	-	-	Empotrado
N471	22.165	1.300	8.903	-	-	-	-	-	-	Empotrado
N472	22.165	2.600	8.903	-	-	-	-	-	-	Empotrado
N473	22.165	3.900	8.903	-	-	-	-	-	-	Empotrado
N474	22.165	5.200	8.903	-	-	-	-	-	-	Empotrado
N475	22.165	6.500	8.903	-	-	-	-	-	-	Empotrado
N476	22.165	7.800	8.903	-	-	-	-	-	-	Empotrado
N477	22.165	9.100	8.903	-	-	-	-	-	-	Empotrado
N478	22.165	10.400	8.903	-	-	-	-	-	-	Empotrado
N479	22.165	11.700	8.903	-	-	-	-	-	-	Empotrado
N480	22.165	13.000	8.903	-	-	-	-	-	-	Empotrado
N481	22.165	14.300	8.903	-	-	-	-	-	-	Empotrado
N482	22.165	15.600	8.903	-	-	-	-	-	-	Empotrado
N483	22.165	16.900	8.903	-	-	-	-	-	-	Empotrado
N484	22.165	18.200	8.903	-	-	-	-	-	-	Empotrado
N485	22.165	19.500	8.903	-	-	-	-	-	-	Empotrado

Nudos										
Referencia	Coordenadas			Vinculación exterior						Vinculación interior
	X (m)	Y (m)	Z (m)	Δ_x	Δ_y	Δ_z	θ_x	θ_y	θ_z	
N486	22.165	20.800	8.903	-	-	-	-	-	-	Empotrado
N487	22.165	22.100	8.903	-	-	-	-	-	-	Empotrado
N488	22.165	23.400	8.903	-	-	-	-	-	-	Empotrado
N489	22.165	24.700	8.903	-	-	-	-	-	-	Empotrado
N490	22.165	26.000	8.903	-	-	-	-	-	-	Empotrado
N491	22.165	27.300	8.903	-	-	-	-	-	-	Empotrado
N492	22.165	28.600	8.903	-	-	-	-	-	-	Empotrado
N493	20.865	0.000	8.968	-	-	-	-	-	-	Empotrado
N494	20.865	1.300	8.968	-	-	-	-	-	-	Empotrado
N495	20.865	2.600	8.968	-	-	-	-	-	-	Empotrado
N496	20.865	3.900	8.968	-	-	-	-	-	-	Empotrado
N497	20.865	5.200	8.968	-	-	-	-	-	-	Empotrado
N498	20.865	6.500	8.968	-	-	-	-	-	-	Empotrado
N499	20.865	7.800	8.968	-	-	-	-	-	-	Empotrado
N500	20.865	9.100	8.968	-	-	-	-	-	-	Empotrado
N501	20.865	10.400	8.968	-	-	-	-	-	-	Empotrado
N502	20.865	11.700	8.968	-	-	-	-	-	-	Empotrado
N503	20.865	13.000	8.968	-	-	-	-	-	-	Empotrado
N504	20.865	14.300	8.968	-	-	-	-	-	-	Empotrado
N505	20.865	15.600	8.968	-	-	-	-	-	-	Empotrado
N506	20.865	16.900	8.968	-	-	-	-	-	-	Empotrado
N507	20.865	18.200	8.968	-	-	-	-	-	-	Empotrado
N508	20.865	19.500	8.968	-	-	-	-	-	-	Empotrado
N509	20.865	20.800	8.968	-	-	-	-	-	-	Empotrado
N510	20.865	22.100	8.968	-	-	-	-	-	-	Empotrado
N511	20.865	23.400	8.968	-	-	-	-	-	-	Empotrado
N512	20.865	24.700	8.968	-	-	-	-	-	-	Empotrado
N513	20.865	26.000	8.968	-	-	-	-	-	-	Empotrado
N514	20.865	27.300	8.968	-	-	-	-	-	-	Empotrado
N515	20.865	28.600	8.968	-	-	-	-	-	-	Empotrado
N516	19.565	0.000	9.033	-	-	-	-	-	-	Empotrado
N517	19.565	1.300	9.033	-	-	-	-	-	-	Empotrado
N518	19.565	2.600	9.033	-	-	-	-	-	-	Empotrado
N519	19.565	3.900	9.033	-	-	-	-	-	-	Empotrado
N520	19.565	5.200	9.033	-	-	-	-	-	-	Empotrado
N521	19.565	6.500	9.033	-	-	-	-	-	-	Empotrado
N522	19.565	7.800	9.033	-	-	-	-	-	-	Empotrado
N523	19.565	9.100	9.033	-	-	-	-	-	-	Empotrado
N524	19.565	10.400	9.033	-	-	-	-	-	-	Empotrado
N525	19.565	11.700	9.033	-	-	-	-	-	-	Empotrado
N526	19.565	13.000	9.033	-	-	-	-	-	-	Empotrado
N527	19.565	14.300	9.033	-	-	-	-	-	-	Empotrado
N528	19.565	15.600	9.033	-	-	-	-	-	-	Empotrado
N529	19.565	16.900	9.033	-	-	-	-	-	-	Empotrado
N530	19.565	18.200	9.033	-	-	-	-	-	-	Empotrado
N531	19.565	19.500	9.033	-	-	-	-	-	-	Empotrado
N532	19.565	20.800	9.033	-	-	-	-	-	-	Empotrado
N533	19.565	22.100	9.033	-	-	-	-	-	-	Empotrado
N534	19.565	23.400	9.033	-	-	-	-	-	-	Empotrado
N535	19.565	24.700	9.033	-	-	-	-	-	-	Empotrado
N536	19.565	26.000	9.033	-	-	-	-	-	-	Empotrado
N537	19.565	27.300	9.033	-	-	-	-	-	-	Empotrado
N538	19.565	28.600	9.033	-	-	-	-	-	-	Empotrado
N539	18.265	0.000	9.098	-	-	-	-	-	-	Empotrado
N540	18.265	1.300	9.098	-	-	-	-	-	-	Empotrado

Nudos										
Referencia	Coordenadas			Vinculación exterior						Vinculación interior
	X (m)	Y (m)	Z (m)	Δ_x	Δ_y	Δ_z	θ_x	θ_y	θ_z	
N541	18.265	2.600	9.098	-	-	-	-	-	-	Empotrado
N542	18.265	3.900	9.098	-	-	-	-	-	-	Empotrado
N543	18.265	5.200	9.098	-	-	-	-	-	-	Empotrado
N544	18.265	6.500	9.098	-	-	-	-	-	-	Empotrado
N545	18.265	7.800	9.098	-	-	-	-	-	-	Empotrado
N546	18.265	9.100	9.098	-	-	-	-	-	-	Empotrado
N547	18.265	10.400	9.098	-	-	-	-	-	-	Empotrado
N548	18.265	11.700	9.098	-	-	-	-	-	-	Empotrado
N549	18.265	13.000	9.098	-	-	-	-	-	-	Empotrado
N550	18.265	14.300	9.098	-	-	-	-	-	-	Empotrado
N551	18.265	15.600	9.098	-	-	-	-	-	-	Empotrado
N552	18.265	16.900	9.098	-	-	-	-	-	-	Empotrado
N553	18.265	18.200	9.098	-	-	-	-	-	-	Empotrado
N554	18.265	19.500	9.098	-	-	-	-	-	-	Empotrado
N555	18.265	20.800	9.098	-	-	-	-	-	-	Empotrado
N556	18.265	22.100	9.098	-	-	-	-	-	-	Empotrado
N557	18.265	23.400	9.098	-	-	-	-	-	-	Empotrado
N558	18.265	24.700	9.098	-	-	-	-	-	-	Empotrado
N559	18.265	26.000	9.098	-	-	-	-	-	-	Empotrado
N560	18.265	27.300	9.098	-	-	-	-	-	-	Empotrado
N561	18.265	28.600	9.098	-	-	-	-	-	-	Empotrado
N562	16.965	0.000	9.163	-	-	-	-	-	-	Empotrado
N563	16.965	1.300	9.163	-	-	-	-	-	-	Empotrado
N564	16.965	2.600	9.163	-	-	-	-	-	-	Empotrado
N565	16.965	3.900	9.163	-	-	-	-	-	-	Empotrado
N566	16.965	5.200	9.163	-	-	-	-	-	-	Empotrado
N567	16.965	6.500	9.163	-	-	-	-	-	-	Empotrado
N568	16.965	7.800	9.163	-	-	-	-	-	-	Empotrado
N569	16.965	9.100	9.163	-	-	-	-	-	-	Empotrado
N570	16.965	10.400	9.163	-	-	-	-	-	-	Empotrado
N571	16.965	11.700	9.163	-	-	-	-	-	-	Empotrado
N572	16.965	13.000	9.163	-	-	-	-	-	-	Empotrado
N573	16.965	14.300	9.163	-	-	-	-	-	-	Empotrado
N574	16.965	15.600	9.163	-	-	-	-	-	-	Empotrado
N575	16.965	16.900	9.163	-	-	-	-	-	-	Empotrado
N576	16.965	18.200	9.163	-	-	-	-	-	-	Empotrado
N577	16.965	19.500	9.163	-	-	-	-	-	-	Empotrado
N578	16.965	20.800	9.163	-	-	-	-	-	-	Empotrado
N579	16.965	22.100	9.163	-	-	-	-	-	-	Empotrado
N580	16.965	23.400	9.163	-	-	-	-	-	-	Empotrado
N581	16.965	24.700	9.163	-	-	-	-	-	-	Empotrado
N582	16.965	26.000	9.163	-	-	-	-	-	-	Empotrado
N583	16.965	27.300	9.163	-	-	-	-	-	-	Empotrado
N584	16.965	28.600	9.163	-	-	-	-	-	-	Empotrado
N585	15.665	0.000	9.228	-	-	-	-	-	-	Empotrado
N586	15.665	1.300	9.228	-	-	-	-	-	-	Empotrado
N587	15.665	2.600	9.228	-	-	-	-	-	-	Empotrado
N588	15.665	3.900	9.228	-	-	-	-	-	-	Empotrado
N589	15.665	5.200	9.228	-	-	-	-	-	-	Empotrado
N590	15.665	6.500	9.228	-	-	-	-	-	-	Empotrado
N591	15.665	7.800	9.228	-	-	-	-	-	-	Empotrado
N592	15.665	9.100	9.228	-	-	-	-	-	-	Empotrado
N593	15.665	10.400	9.228	-	-	-	-	-	-	Empotrado
N594	15.665	11.700	9.228	-	-	-	-	-	-	Empotrado
N595	15.665	13.000	9.228	-	-	-	-	-	-	Empotrado

Nudos										
Referencia	Coordenadas			Vinculación exterior						Vinculación interior
	X (m)	Y (m)	Z (m)	Δ_x	Δ_y	Δ_z	θ_x	θ_y	θ_z	
N596	15.665	14.300	9.228	-	-	-	-	-	-	Empotrado
N597	15.665	15.600	9.228	-	-	-	-	-	-	Empotrado
N598	15.665	16.900	9.228	-	-	-	-	-	-	Empotrado
N599	15.665	18.200	9.228	-	-	-	-	-	-	Empotrado
N600	15.665	19.500	9.228	-	-	-	-	-	-	Empotrado
N601	15.665	20.800	9.228	-	-	-	-	-	-	Empotrado
N602	15.665	22.100	9.228	-	-	-	-	-	-	Empotrado
N603	15.665	23.400	9.228	-	-	-	-	-	-	Empotrado
N604	15.665	24.700	9.228	-	-	-	-	-	-	Empotrado
N605	15.665	26.000	9.228	-	-	-	-	-	-	Empotrado
N606	15.665	27.300	9.228	-	-	-	-	-	-	Empotrado
N607	15.665	28.600	9.228	-	-	-	-	-	-	Empotrado
N608	14.365	0.000	9.293	-	-	-	-	-	-	Empotrado
N609	14.365	1.300	9.293	-	-	-	-	-	-	Empotrado
N610	14.365	2.600	9.293	-	-	-	-	-	-	Empotrado
N611	14.365	3.900	9.293	-	-	-	-	-	-	Empotrado
N612	14.365	5.200	9.293	-	-	-	-	-	-	Empotrado
N613	14.365	6.500	9.293	-	-	-	-	-	-	Empotrado
N614	14.365	7.800	9.293	-	-	-	-	-	-	Empotrado
N615	14.365	9.100	9.293	-	-	-	-	-	-	Empotrado
N616	14.365	10.400	9.293	-	-	-	-	-	-	Empotrado
N617	14.365	11.700	9.293	-	-	-	-	-	-	Empotrado
N618	14.365	13.000	9.293	-	-	-	-	-	-	Empotrado
N619	14.365	14.300	9.293	-	-	-	-	-	-	Empotrado
N620	14.365	15.600	9.293	-	-	-	-	-	-	Empotrado
N621	14.365	16.900	9.293	-	-	-	-	-	-	Empotrado
N622	14.365	18.200	9.293	-	-	-	-	-	-	Empotrado
N623	14.365	19.500	9.293	-	-	-	-	-	-	Empotrado
N624	14.365	20.800	9.293	-	-	-	-	-	-	Empotrado
N625	14.365	22.100	9.293	-	-	-	-	-	-	Empotrado
N626	14.365	23.400	9.293	-	-	-	-	-	-	Empotrado
N627	14.365	24.700	9.293	-	-	-	-	-	-	Empotrado
N628	14.365	26.000	9.293	-	-	-	-	-	-	Empotrado
N629	14.365	27.300	9.293	-	-	-	-	-	-	Empotrado
N630	14.365	28.600	9.293	-	-	-	-	-	-	Empotrado
N631	13.065	0.000	9.358	-	-	-	-	-	-	Empotrado
N632	13.065	1.300	9.358	-	-	-	-	-	-	Empotrado
N633	13.065	2.600	9.358	-	-	-	-	-	-	Empotrado
N634	13.065	3.900	9.358	-	-	-	-	-	-	Empotrado
N635	13.065	5.200	9.358	-	-	-	-	-	-	Empotrado
N636	13.065	6.500	9.358	-	-	-	-	-	-	Empotrado
N637	13.065	7.800	9.358	-	-	-	-	-	-	Empotrado
N638	13.065	9.100	9.358	-	-	-	-	-	-	Empotrado
N639	13.065	10.400	9.358	-	-	-	-	-	-	Empotrado
N640	13.065	11.700	9.358	-	-	-	-	-	-	Empotrado
N641	13.065	13.000	9.358	-	-	-	-	-	-	Empotrado
N642	13.065	14.300	9.358	-	-	-	-	-	-	Empotrado
N643	13.065	15.600	9.358	-	-	-	-	-	-	Empotrado
N644	13.065	16.900	9.358	-	-	-	-	-	-	Empotrado
N645	13.065	18.200	9.358	-	-	-	-	-	-	Empotrado
N646	13.065	19.500	9.358	-	-	-	-	-	-	Empotrado
N647	13.065	20.800	9.358	-	-	-	-	-	-	Empotrado
N648	13.065	22.100	9.358	-	-	-	-	-	-	Empotrado
N649	13.065	23.400	9.358	-	-	-	-	-	-	Empotrado
N650	13.065	24.700	9.358	-	-	-	-	-	-	Empotrado

Nudos										
Referencia	Coordenadas			Vinculación exterior						Vinculación interior
	X (m)	Y (m)	Z (m)	Δ_x	Δ_y	Δ_z	θ_x	θ_y	θ_z	
N651	13.065	26.000	9.358	-	-	-	-	-	-	Empotrado
N652	13.065	27.300	9.358	-	-	-	-	-	-	Empotrado
N653	13.065	28.600	9.358	-	-	-	-	-	-	Empotrado
N654	11.765	0.000	9.423	-	-	-	-	-	-	Empotrado
N655	11.765	1.300	9.423	-	-	-	-	-	-	Empotrado
N656	11.765	2.600	9.423	-	-	-	-	-	-	Empotrado
N657	11.765	3.900	9.423	-	-	-	-	-	-	Empotrado
N658	11.765	5.200	9.423	-	-	-	-	-	-	Empotrado
N659	11.765	6.500	9.423	-	-	-	-	-	-	Empotrado
N660	11.765	7.800	9.423	-	-	-	-	-	-	Empotrado
N661	11.765	9.100	9.423	-	-	-	-	-	-	Empotrado
N662	11.765	10.400	9.423	-	-	-	-	-	-	Empotrado
N663	11.765	11.700	9.423	-	-	-	-	-	-	Empotrado
N664	11.765	13.000	9.423	-	-	-	-	-	-	Empotrado
N665	11.765	14.300	9.423	-	-	-	-	-	-	Empotrado
N666	11.765	15.600	9.423	-	-	-	-	-	-	Empotrado
N667	11.765	16.900	9.423	-	-	-	-	-	-	Empotrado
N668	11.765	18.200	9.423	-	-	-	-	-	-	Empotrado
N669	11.765	19.500	9.423	-	-	-	-	-	-	Empotrado
N670	11.765	20.800	9.423	-	-	-	-	-	-	Empotrado
N671	11.765	22.100	9.423	-	-	-	-	-	-	Empotrado
N672	11.765	23.400	9.423	-	-	-	-	-	-	Empotrado
N673	11.765	24.700	9.423	-	-	-	-	-	-	Empotrado
N674	11.765	26.000	9.423	-	-	-	-	-	-	Empotrado
N675	11.765	27.300	9.423	-	-	-	-	-	-	Empotrado
N676	11.765	28.600	9.423	-	-	-	-	-	-	Empotrado
N677	10.465	0.000	9.488	-	-	-	-	-	-	Empotrado
N678	10.465	1.300	9.488	-	-	-	-	-	-	Empotrado
N679	10.465	2.600	9.488	-	-	-	-	-	-	Empotrado
N680	10.465	3.900	9.488	-	-	-	-	-	-	Empotrado
N681	10.465	5.200	9.488	-	-	-	-	-	-	Empotrado
N682	10.465	6.500	9.488	-	-	-	-	-	-	Empotrado
N683	10.465	7.800	9.488	-	-	-	-	-	-	Empotrado
N684	10.465	9.100	9.488	-	-	-	-	-	-	Empotrado
N685	10.465	10.400	9.488	-	-	-	-	-	-	Empotrado
N686	10.465	11.700	9.488	-	-	-	-	-	-	Empotrado
N687	10.465	13.000	9.488	-	-	-	-	-	-	Empotrado
N688	10.465	14.300	9.488	-	-	-	-	-	-	Empotrado
N689	10.465	15.600	9.488	-	-	-	-	-	-	Empotrado
N690	10.465	16.900	9.488	-	-	-	-	-	-	Empotrado
N691	10.465	18.200	9.488	-	-	-	-	-	-	Empotrado
N692	10.465	19.500	9.488	-	-	-	-	-	-	Empotrado
N693	10.465	20.800	9.488	-	-	-	-	-	-	Empotrado
N694	10.465	22.100	9.488	-	-	-	-	-	-	Empotrado
N695	10.465	23.400	9.488	-	-	-	-	-	-	Empotrado
N696	10.465	24.700	9.488	-	-	-	-	-	-	Empotrado
N697	10.465	26.000	9.488	-	-	-	-	-	-	Empotrado
N698	10.465	27.300	9.488	-	-	-	-	-	-	Empotrado
N699	10.465	28.600	9.488	-	-	-	-	-	-	Empotrado
N700	9.165	0.000	9.553	-	-	-	-	-	-	Empotrado
N701	9.165	1.300	9.553	-	-	-	-	-	-	Empotrado
N702	9.165	2.600	9.553	-	-	-	-	-	-	Empotrado
N703	9.165	3.900	9.553	-	-	-	-	-	-	Empotrado
N704	9.165	5.200	9.553	-	-	-	-	-	-	Empotrado
N705	9.165	6.500	9.553	-	-	-	-	-	-	Empotrado

Nudos

Referencia	Coordenadas			Vinculación exterior					Vinculación interior
	X (m)	Y (m)	Z (m)	Δ_x	Δ_y	Δ_z	θ_x	θ_y	θ_z	
N706	9.165	7.800	9.553	-	-	-	-	-	-	Empotrado
N707	9.165	9.100	9.553	-	-	-	-	-	-	Empotrado
N708	9.165	10.400	9.553	-	-	-	-	-	-	Empotrado
N709	9.165	11.700	9.553	-	-	-	-	-	-	Empotrado
N710	9.165	13.000	9.553	-	-	-	-	-	-	Empotrado
N711	9.165	14.300	9.553	-	-	-	-	-	-	Empotrado
N712	9.165	15.600	9.553	-	-	-	-	-	-	Empotrado
N713	9.165	16.900	9.553	-	-	-	-	-	-	Empotrado
N714	9.165	18.200	9.553	-	-	-	-	-	-	Empotrado
N715	9.165	19.500	9.553	-	-	-	-	-	-	Empotrado
N716	9.165	20.800	9.553	-	-	-	-	-	-	Empotrado
N717	9.165	22.100	9.553	-	-	-	-	-	-	Empotrado
N718	9.165	23.400	9.553	-	-	-	-	-	-	Empotrado
N719	9.165	24.700	9.553	-	-	-	-	-	-	Empotrado
N720	9.165	26.000	9.553	-	-	-	-	-	-	Empotrado
N721	9.165	27.300	9.553	-	-	-	-	-	-	Empotrado
N722	9.165	28.600	9.553	-	-	-	-	-	-	Empotrado
N723	7.865	0.000	9.618	-	-	-	-	-	-	Empotrado
N724	7.865	1.300	9.618	-	-	-	-	-	-	Empotrado
N725	7.865	2.600	9.618	-	-	-	-	-	-	Empotrado
N726	7.865	3.900	9.618	-	-	-	-	-	-	Empotrado
N727	7.865	5.200	9.618	-	-	-	-	-	-	Empotrado
N728	7.865	6.500	9.618	-	-	-	-	-	-	Empotrado
N729	7.865	7.800	9.618	-	-	-	-	-	-	Empotrado
N730	7.865	9.100	9.618	-	-	-	-	-	-	Empotrado
N731	7.865	10.400	9.618	-	-	-	-	-	-	Empotrado
N732	7.865	11.700	9.618	-	-	-	-	-	-	Empotrado
N733	7.865	13.000	9.618	-	-	-	-	-	-	Empotrado
N734	7.865	14.300	9.618	-	-	-	-	-	-	Empotrado
N735	7.865	15.600	9.618	-	-	-	-	-	-	Empotrado
N736	7.865	16.900	9.618	-	-	-	-	-	-	Empotrado
N737	7.865	18.200	9.618	-	-	-	-	-	-	Empotrado
N738	7.865	19.500	9.618	-	-	-	-	-	-	Empotrado
N739	7.865	20.800	9.618	-	-	-	-	-	-	Empotrado
N740	7.865	22.100	9.618	-	-	-	-	-	-	Empotrado
N741	7.865	23.400	9.618	-	-	-	-	-	-	Empotrado
N742	7.865	24.700	9.618	-	-	-	-	-	-	Empotrado
N743	7.865	26.000	9.618	-	-	-	-	-	-	Empotrado
N744	7.865	27.300	9.618	-	-	-	-	-	-	Empotrado
N745	7.865	28.600	9.618	-	-	-	-	-	-	Empotrado
N746	6.565	0.000	9.683	-	-	-	-	-	-	Empotrado
N747	6.565	1.300	9.683	-	-	-	-	-	-	Empotrado
N748	6.565	2.600	9.683	-	-	-	-	-	-	Empotrado
N749	6.565	3.900	9.683	-	-	-	-	-	-	Empotrado
N750	6.565	5.200	9.683	-	-	-	-	-	-	Empotrado
N751	6.565	6.500	9.683	-	-	-	-	-	-	Empotrado
N752	6.565	7.800	9.683	-	-	-	-	-	-	Empotrado
N753	6.565	9.100	9.683	-	-	-	-	-	-	Empotrado
N754	6.565	10.400	9.683	-	-	-	-	-	-	Empotrado
N755	6.565	11.700	9.683	-	-	-	-	-	-	Empotrado
N756	6.565	13.000	9.683	-	-	-	-	-	-	Empotrado
N757	6.565	14.300	9.683	-	-	-	-	-	-	Empotrado
N758	6.565	15.600	9.683	-	-	-	-	-	-	Empotrado
N759	6.565	16.900	9.683	-	-	-	-	-	-	Empotrado
N760	6.565	18.200	9.683	-	-	-	-	-	-	Empotrado

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 13/11/24

Nudos

Referencia	Coordenadas			Vinculación exterior					Vinculación interior
	X (m)	Y (m)	Z (m)	Δ_x	Δ_y	Δ_z	θ_x	θ_y	θ_z	
N761	6.565	19.500	9.683	-	-	-	-	-	-	Empotrado
N762	6.565	20.800	9.683	-	-	-	-	-	-	Empotrado
N763	6.565	22.100	9.683	-	-	-	-	-	-	Empotrado
N764	6.565	23.400	9.683	-	-	-	-	-	-	Empotrado
N765	6.565	24.700	9.683	-	-	-	-	-	-	Empotrado
N766	6.565	26.000	9.683	-	-	-	-	-	-	Empotrado
N767	6.565	27.300	9.683	-	-	-	-	-	-	Empotrado
N768	6.565	28.600	9.683	-	-	-	-	-	-	Empotrado
N769	5.265	0.000	9.748	-	-	-	-	-	-	Empotrado
N770	5.265	1.300	9.748	-	-	-	-	-	-	Empotrado
N771	5.265	2.600	9.748	-	-	-	-	-	-	Empotrado
N772	5.265	3.900	9.748	-	-	-	-	-	-	Empotrado
N773	5.265	5.200	9.748	-	-	-	-	-	-	Empotrado
N774	5.265	6.500	9.748	-	-	-	-	-	-	Empotrado
N775	5.265	7.800	9.748	-	-	-	-	-	-	Empotrado
N776	5.265	9.100	9.748	-	-	-	-	-	-	Empotrado
N777	5.265	10.400	9.748	-	-	-	-	-	-	Empotrado
N778	5.265	11.700	9.748	-	-	-	-	-	-	Empotrado
N779	5.265	13.000	9.748	-	-	-	-	-	-	Empotrado
N780	5.265	14.300	9.748	-	-	-	-	-	-	Empotrado
N781	5.265	15.600	9.748	-	-	-	-	-	-	Empotrado
N782	5.265	16.900	9.748	-	-	-	-	-	-	Empotrado
N783	5.265	18.200	9.748	-	-	-	-	-	-	Empotrado
N784	5.265	19.500	9.748	-	-	-	-	-	-	Empotrado
N785	5.265	20.800	9.748	-	-	-	-	-	-	Empotrado
N786	5.265	22.100	9.748	-	-	-	-	-	-	Empotrado
N787	5.265	23.400	9.748	-	-	-	-	-	-	Empotrado
N788	5.265	24.700	9.748	-	-	-	-	-	-	Empotrado
N789	5.265	26.000	9.748	-	-	-	-	-	-	Empotrado
N790	5.265	27.300	9.748	-	-	-	-	-	-	Empotrado
N791	5.265	28.600	9.748	-	-	-	-	-	-	Empotrado
N792	3.965	0.000	9.813	-	-	-	-	-	-	Empotrado
N793	3.965	1.300	9.813	-	-	-	-	-	-	Empotrado
N794	3.965	2.600	9.813	-	-	-	-	-	-	Empotrado
N795	3.965	3.900	9.813	-	-	-	-	-	-	Empotrado
N796	3.965	5.200	9.813	-	-	-	-	-	-	Empotrado
N797	3.965	6.500	9.813	-	-	-	-	-	-	Empotrado
N798	3.965	7.800	9.813	-	-	-	-	-	-	Empotrado
N799	3.965	9.100	9.813	-	-	-	-	-	-	Empotrado
N800	3.965	10.400	9.813	-	-	-	-	-	-	Empotrado
N801	3.965	11.700	9.813	-	-	-	-	-	-	Empotrado
N802	3.965	13.000	9.813	-	-	-	-	-	-	Empotrado
N803	3.965	14.300	9.813	-	-	-	-	-	-	Empotrado
N804	3.965	15.600	9.813	-	-	-	-	-	-	Empotrado
N805	3.965	16.900	9.813	-	-	-	-	-	-	Empotrado
N806	3.965	18.200	9.813	-	-	-	-	-	-	Empotrado
N807	3.965	19.500	9.813	-	-	-	-	-	-	Empotrado
N808	3.965	20.800	9.813	-	-	-	-	-	-	Empotrado
N809	3.965	22.100	9.813	-	-	-	-	-	-	Empotrado
N810	3.965	23.400	9.813	-	-	-	-	-	-	Empotrado
N811	3.965	24.700	9.813	-	-	-	-	-	-	Empotrado
N812	3.965	26.000	9.813	-	-	-	-	-	-	Empotrado
N813	3.965	27.300	9.813	-	-	-	-	-	-	Empotrado
N814	3.965	28.600	9.813	-	-	-	-	-	-	Empotrado
N815	2.665	0.000	9.878	-	-	-	-	-	-	Empotrado

Nudos										
Referencia	Coordenadas			Vinculación exterior						Vinculación interior
	X (m)	Y (m)	Z (m)	Δ_x	Δ_y	Δ_z	θ_x	θ_y	θ_z	
N816	2.665	1.300	9.878	-	-	-	-	-	-	Empotrado
N817	2.665	2.600	9.878	-	-	-	-	-	-	Empotrado
N818	2.665	3.900	9.878	-	-	-	-	-	-	Empotrado
N819	2.665	5.200	9.878	-	-	-	-	-	-	Empotrado
N820	2.665	6.500	9.878	-	-	-	-	-	-	Empotrado
N821	2.665	7.800	9.878	-	-	-	-	-	-	Empotrado
N822	2.665	9.100	9.878	-	-	-	-	-	-	Empotrado
N823	2.665	10.400	9.878	-	-	-	-	-	-	Empotrado
N824	2.665	11.700	9.878	-	-	-	-	-	-	Empotrado
N825	2.665	13.000	9.878	-	-	-	-	-	-	Empotrado
N826	2.665	14.300	9.878	-	-	-	-	-	-	Empotrado
N827	2.665	15.600	9.878	-	-	-	-	-	-	Empotrado
N828	2.665	16.900	9.878	-	-	-	-	-	-	Empotrado
N829	2.665	18.200	9.878	-	-	-	-	-	-	Empotrado
N830	2.665	19.500	9.878	-	-	-	-	-	-	Empotrado
N831	2.665	20.800	9.878	-	-	-	-	-	-	Empotrado
N832	2.665	22.100	9.878	-	-	-	-	-	-	Empotrado
N833	2.665	23.400	9.878	-	-	-	-	-	-	Empotrado
N834	2.665	24.700	9.878	-	-	-	-	-	-	Empotrado
N835	2.665	26.000	9.878	-	-	-	-	-	-	Empotrado
N836	2.665	27.300	9.878	-	-	-	-	-	-	Empotrado
N837	2.665	28.600	9.878	-	-	-	-	-	-	Empotrado
N838	1.365	0.000	9.943	-	-	-	-	-	-	Empotrado
N839	1.365	1.300	9.943	-	-	-	-	-	-	Empotrado
N840	1.365	2.600	9.943	-	-	-	-	-	-	Empotrado
N841	1.365	3.900	9.943	-	-	-	-	-	-	Empotrado
N842	1.365	5.200	9.943	-	-	-	-	-	-	Empotrado
N843	1.365	6.500	9.943	-	-	-	-	-	-	Empotrado
N844	1.365	7.800	9.943	-	-	-	-	-	-	Empotrado
N845	1.365	9.100	9.943	-	-	-	-	-	-	Empotrado
N846	1.365	10.400	9.943	-	-	-	-	-	-	Empotrado
N847	1.365	11.700	9.943	-	-	-	-	-	-	Empotrado
N848	1.365	13.000	9.943	-	-	-	-	-	-	Empotrado
N849	1.365	14.300	9.943	-	-	-	-	-	-	Empotrado
N850	1.365	15.600	9.943	-	-	-	-	-	-	Empotrado
N851	1.365	16.900	9.943	-	-	-	-	-	-	Empotrado
N852	1.365	18.200	9.943	-	-	-	-	-	-	Empotrado
N853	1.365	19.500	9.943	-	-	-	-	-	-	Empotrado
N854	1.365	20.800	9.943	-	-	-	-	-	-	Empotrado
N855	1.365	22.100	9.943	-	-	-	-	-	-	Empotrado
N856	1.365	23.400	9.943	-	-	-	-	-	-	Empotrado
N857	1.365	24.700	9.943	-	-	-	-	-	-	Empotrado
N858	1.365	26.000	9.943	-	-	-	-	-	-	Empotrado
N859	1.365	27.300	9.943	-	-	-	-	-	-	Empotrado
N860	1.365	28.600	9.943	-	-	-	-	-	-	Empotrado
N861	0.065	1.300	10.008	-	-	-	-	-	-	Empotrado
N862	0.065	2.600	10.008	-	-	-	-	-	-	Empotrado
N863	0.065	3.900	10.008	-	-	-	-	-	-	Empotrado
N864	0.065	5.200	10.008	-	-	-	-	-	-	Empotrado
N865	0.065	6.500	10.008	-	-	-	-	-	-	Empotrado
N866	0.065	7.800	10.008	-	-	-	-	-	-	Empotrado
N867	0.065	9.100	10.008	-	-	-	-	-	-	Empotrado
N868	0.065	10.400	10.008	-	-	-	-	-	-	Empotrado
N869	0.065	11.700	10.008	-	-	-	-	-	-	Empotrado
N870	0.065	13.000	10.008	-	-	-	-	-	-	Empotrado

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 13/11/24

Nudos										
Referencia	Coordenadas			Vinculación exterior						Vinculación interior
	X (m)	Y (m)	Z (m)	Δ_x	Δ_y	Δ_z	θ_x	θ_y	θ_z	
N871	0.065	14.300	10.008	-	-	-	-	-	-	Empotrado
N872	0.065	15.600	10.008	-	-	-	-	-	-	Empotrado
N873	0.065	16.900	10.008	-	-	-	-	-	-	Empotrado
N874	0.065	18.200	10.008	-	-	-	-	-	-	Empotrado
N875	0.065	19.500	10.008	-	-	-	-	-	-	Empotrado
N876	0.065	20.800	10.008	-	-	-	-	-	-	Empotrado
N877	0.065	22.100	10.008	-	-	-	-	-	-	Empotrado
N878	0.065	23.400	10.008	-	-	-	-	-	-	Empotrado
N879	0.065	24.700	10.008	-	-	-	-	-	-	Empotrado
N880	0.065	26.000	10.008	-	-	-	-	-	-	Empotrado
N881	0.065	27.300	10.008	-	-	-	-	-	-	Empotrado
N882	46.150	0.650	6.403	-	-	-	-	-	-	Empotrado
N883	46.150	1.950	6.403	-	-	-	-	-	-	Empotrado
N884	46.150	3.250	6.403	-	-	-	-	-	-	Empotrado
N885	46.150	4.550	6.403	-	-	-	-	-	-	Empotrado
N886	46.150	5.850	6.403	-	-	-	-	-	-	Empotrado
N887	46.150	7.150	6.403	-	-	-	-	-	-	Empotrado
N888	46.150	8.450	6.403	-	-	-	-	-	-	Empotrado
N889	46.150	9.750	6.403	-	-	-	-	-	-	Empotrado
N890	46.150	11.050	6.403	-	-	-	-	-	-	Empotrado
N891	46.150	12.350	6.403	-	-	-	-	-	-	Empotrado
N892	46.150	13.650	6.403	-	-	-	-	-	-	Empotrado
N893	46.150	14.950	6.403	-	-	-	-	-	-	Empotrado
N894	46.150	16.250	6.403	-	-	-	-	-	-	Empotrado
N895	46.150	17.550	6.403	-	-	-	-	-	-	Empotrado
N896	46.150	18.850	6.403	-	-	-	-	-	-	Empotrado
N897	46.150	20.150	6.403	-	-	-	-	-	-	Empotrado
N898	46.150	21.450	6.403	-	-	-	-	-	-	Empotrado
N899	46.150	22.750	6.403	-	-	-	-	-	-	Empotrado
N900	46.150	24.050	6.403	-	-	-	-	-	-	Empotrado
N901	46.150	25.350	6.403	-	-	-	-	-	-	Empotrado
N902	46.150	26.650	6.403	-	-	-	-	-	-	Empotrado
N903	46.150	27.950	6.403	-	-	-	-	-	-	Empotrado
N904	44.850	0.650	6.468	-	-	-	-	-	-	Empotrado
N905	44.850	1.950	6.468	-	-	-	-	-	-	Empotrado
N906	44.850	3.250	6.468	-	-	-	-	-	-	Empotrado
N907	44.850	4.550	6.468	-	-	-	-	-	-	Empotrado
N908	44.850	5.850	6.468	-	-	-	-	-	-	Empotrado
N909	44.850	7.150	6.468	-	-	-	-	-	-	Empotrado
N910	44.850	8.450	6.468	-	-	-	-	-	-	Empotrado
N911	44.850	9.750	6.468	-	-	-	-	-	-	Empotrado
N912	44.850	11.050	6.468	-	-	-	-	-	-	Empotrado
N913	44.850	12.350	6.468	-	-	-	-	-	-	Empotrado
N914	44.850	13.650	6.468	-	-	-	-	-	-	Empotrado
N915	44.850	14.950	6.468	-	-	-	-	-	-	Empotrado
N916	44.850	16.250	6.468	-	-	-	-	-	-	Empotrado
N917	44.850	17.550	6.468	-	-	-	-	-	-	Empotrado
N918	44.850	18.850	6.468	-	-	-	-	-	-	Empotrado
N919	44.850	20.150	6.468	-	-	-	-	-	-	Empotrado
N920	44.850	21.450	6.468	-	-	-	-	-	-	Empotrado
N921	44.850	22.750	6.468	-	-	-	-	-	-	Empotrado
N922	44.850	24.050	6.468	-	-	-	-	-	-	Empotrado
N923	44.850	25.350	6.468	-	-	-	-	-	-	Empotrado
N924	44.850	26.650	6.468	-	-	-	-	-	-	Empotrado
N925	44.850	27.950	6.468	-	-	-	-	-	-	Empotrado

Nudos										
Referencia	Coordenadas			Vinculación exterior						Vinculación interior
	X (m)	Y (m)	Z (m)	Δ_x	Δ_y	Δ_z	θ_x	θ_y	θ_z	
N926	43.550	0.650	6.533	-	-	-	-	-	-	Empotrado
N927	43.550	1.950	6.533	-	-	-	-	-	-	Empotrado
N928	43.550	3.250	6.533	-	-	-	-	-	-	Empotrado
N929	43.550	4.550	6.533	-	-	-	-	-	-	Empotrado
N930	43.550	5.850	6.533	-	-	-	-	-	-	Empotrado
N931	43.550	7.150	6.533	-	-	-	-	-	-	Empotrado
N932	43.550	8.450	6.533	-	-	-	-	-	-	Empotrado
N933	43.550	9.750	6.533	-	-	-	-	-	-	Empotrado
N934	43.550	11.050	6.533	-	-	-	-	-	-	Empotrado
N935	43.550	12.350	6.533	-	-	-	-	-	-	Empotrado
N936	43.550	13.650	6.533	-	-	-	-	-	-	Empotrado
N937	43.550	14.950	6.533	-	-	-	-	-	-	Empotrado
N938	43.550	16.250	6.533	-	-	-	-	-	-	Empotrado
N939	43.550	17.550	6.533	-	-	-	-	-	-	Empotrado
N940	43.550	18.850	6.533	-	-	-	-	-	-	Empotrado
N941	43.550	20.150	6.533	-	-	-	-	-	-	Empotrado
N942	43.550	21.450	6.533	-	-	-	-	-	-	Empotrado
N943	43.550	22.750	6.533	-	-	-	-	-	-	Empotrado
N944	43.550	24.050	6.533	-	-	-	-	-	-	Empotrado
N945	43.550	25.350	6.533	-	-	-	-	-	-	Empotrado
N946	43.550	26.650	6.533	-	-	-	-	-	-	Empotrado
N947	43.550	27.950	6.533	-	-	-	-	-	-	Empotrado
N948	42.250	0.650	6.598	-	-	-	-	-	-	Empotrado
N949	42.250	1.950	6.598	-	-	-	-	-	-	Empotrado
N950	42.250	3.250	6.598	-	-	-	-	-	-	Empotrado
N951	42.250	4.550	6.598	-	-	-	-	-	-	Empotrado
N952	42.250	5.850	6.598	-	-	-	-	-	-	Empotrado
N953	42.250	7.150	6.598	-	-	-	-	-	-	Empotrado
N954	42.250	8.450	6.598	-	-	-	-	-	-	Empotrado
N955	42.250	9.750	6.598	-	-	-	-	-	-	Empotrado
N956	42.250	11.050	6.598	-	-	-	-	-	-	Empotrado
N957	42.250	12.350	6.598	-	-	-	-	-	-	Empotrado
N958	42.250	13.650	6.598	-	-	-	-	-	-	Empotrado
N959	42.250	14.950	6.598	-	-	-	-	-	-	Empotrado
N960	42.250	16.250	6.598	-	-	-	-	-	-	Empotrado
N961	42.250	17.550	6.598	-	-	-	-	-	-	Empotrado
N962	42.250	18.850	6.598	-	-	-	-	-	-	Empotrado
N963	42.250	20.150	6.598	-	-	-	-	-	-	Empotrado
N964	42.250	21.450	6.598	-	-	-	-	-	-	Empotrado
N965	42.250	22.750	6.598	-	-	-	-	-	-	Empotrado
N966	42.250	24.050	6.598	-	-	-	-	-	-	Empotrado
N967	42.250	25.350	6.598	-	-	-	-	-	-	Empotrado
N968	42.250	26.650	6.598	-	-	-	-	-	-	Empotrado
N969	42.250	27.950	6.598	-	-	-	-	-	-	Empotrado
N970	40.950	0.650	6.663	-	-	-	-	-	-	Empotrado
N971	40.950	1.950	6.663	-	-	-	-	-	-	Empotrado
N972	40.950	3.250	6.663	-	-	-	-	-	-	Empotrado
N973	40.950	4.550	6.663	-	-	-	-	-	-	Empotrado
N974	40.950	5.850	6.663	-	-	-	-	-	-	Empotrado
N975	40.950	7.150	6.663	-	-	-	-	-	-	Empotrado
N976	40.950	8.450	6.663	-	-	-	-	-	-	Empotrado
N977	40.950	9.750	6.663	-	-	-	-	-	-	Empotrado
N978	40.950	11.050	6.663	-	-	-	-	-	-	Empotrado
N979	40.950	12.350	6.663	-	-	-	-	-	-	Empotrado
N980	40.950	13.650	6.663	-	-	-	-	-	-	Empotrado

Nudos										
Referencia	Coordenadas			Vinculación exterior						Vinculación interior
	X (m)	Y (m)	Z (m)	Δ_x	Δ_y	Δ_z	θ_x	θ_y	θ_z	
N981	40.950	14.950	6.663	-	-	-	-	-	-	Empotrado
N982	40.950	16.250	6.663	-	-	-	-	-	-	Empotrado
N983	40.950	17.550	6.663	-	-	-	-	-	-	Empotrado
N984	40.950	18.850	6.663	-	-	-	-	-	-	Empotrado
N985	40.950	20.150	6.663	-	-	-	-	-	-	Empotrado
N986	40.950	21.450	6.663	-	-	-	-	-	-	Empotrado
N987	40.950	22.750	6.663	-	-	-	-	-	-	Empotrado
N988	40.950	24.050	6.663	-	-	-	-	-	-	Empotrado
N989	40.950	25.350	6.663	-	-	-	-	-	-	Empotrado
N990	40.950	26.650	6.663	-	-	-	-	-	-	Empotrado
N991	40.950	27.950	6.663	-	-	-	-	-	-	Empotrado
N992	39.650	0.650	6.728	-	-	-	-	-	-	Empotrado
N993	39.650	1.950	6.728	-	-	-	-	-	-	Empotrado
N994	39.650	3.250	6.728	-	-	-	-	-	-	Empotrado
N995	39.650	4.550	6.728	-	-	-	-	-	-	Empotrado
N996	39.650	5.850	6.728	-	-	-	-	-	-	Empotrado
N997	39.650	7.150	6.728	-	-	-	-	-	-	Empotrado
N998	39.650	8.450	6.728	-	-	-	-	-	-	Empotrado
N999	39.650	9.750	6.728	-	-	-	-	-	-	Empotrado
N1000	39.650	11.050	6.728	-	-	-	-	-	-	Empotrado
N1001	39.650	12.350	6.728	-	-	-	-	-	-	Empotrado
N1002	39.650	13.650	6.728	-	-	-	-	-	-	Empotrado
N1003	39.650	14.950	6.728	-	-	-	-	-	-	Empotrado
N1004	39.650	16.250	6.728	-	-	-	-	-	-	Empotrado
N1005	39.650	17.550	6.728	-	-	-	-	-	-	Empotrado
N1006	39.650	18.850	6.728	-	-	-	-	-	-	Empotrado
N1007	39.650	20.150	6.728	-	-	-	-	-	-	Empotrado
N1008	39.650	21.450	6.728	-	-	-	-	-	-	Empotrado
N1009	39.650	22.750	6.728	-	-	-	-	-	-	Empotrado
N1010	39.650	24.050	6.728	-	-	-	-	-	-	Empotrado
N1011	39.650	25.350	6.728	-	-	-	-	-	-	Empotrado
N1012	39.650	26.650	6.728	-	-	-	-	-	-	Empotrado
N1013	39.650	27.950	6.728	-	-	-	-	-	-	Empotrado
N1014	38.350	0.650	6.793	-	-	-	-	-	-	Empotrado
N1015	38.350	1.950	6.793	-	-	-	-	-	-	Empotrado
N1016	38.350	3.250	6.793	-	-	-	-	-	-	Empotrado
N1017	38.350	4.550	6.793	-	-	-	-	-	-	Empotrado
N1018	38.350	5.850	6.793	-	-	-	-	-	-	Empotrado
N1019	38.350	7.150	6.793	-	-	-	-	-	-	Empotrado
N1020	38.350	8.450	6.793	-	-	-	-	-	-	Empotrado
N1021	38.350	9.750	6.793	-	-	-	-	-	-	Empotrado
N1022	38.350	11.050	6.793	-	-	-	-	-	-	Empotrado
N1023	38.350	12.350	6.793	-	-	-	-	-	-	Empotrado
N1024	38.350	13.650	6.793	-	-	-	-	-	-	Empotrado
N1025	38.350	14.950	6.793	-	-	-	-	-	-	Empotrado
N1026	38.350	16.250	6.793	-	-	-	-	-	-	Empotrado
N1027	38.350	17.550	6.793	-	-	-	-	-	-	Empotrado
N1028	38.350	18.850	6.793	-	-	-	-	-	-	Empotrado
N1029	38.350	20.150	6.793	-	-	-	-	-	-	Empotrado
N1030	38.350	21.450	6.793	-	-	-	-	-	-	Empotrado
N1031	38.350	22.750	6.793	-	-	-	-	-	-	Empotrado
N1032	38.350	24.050	6.793	-	-	-	-	-	-	Empotrado
N1033	38.350	25.350	6.793	-	-	-	-	-	-	Empotrado
N1034	38.350	26.650	6.793	-	-	-	-	-	-	Empotrado
N1035	38.350	27.950	6.793	-	-	-	-	-	-	Empotrado

Nudos										
Referencia	Coordenadas			Vinculación exterior						Vinculación interior
	X (m)	Y (m)	Z (m)	Δ_x	Δ_y	Δ_z	θ_x	θ_y	θ_z	
N1036	37.050	0.650	6.858	-	-	-	-	-	-	Empotrado
N1037	37.050	1.950	6.858	-	-	-	-	-	-	Empotrado
N1038	37.050	3.250	6.858	-	-	-	-	-	-	Empotrado
N1039	37.050	4.550	6.858	-	-	-	-	-	-	Empotrado
N1040	37.050	5.850	6.858	-	-	-	-	-	-	Empotrado
N1041	37.050	7.150	6.858	-	-	-	-	-	-	Empotrado
N1042	37.050	8.450	6.858	-	-	-	-	-	-	Empotrado
N1043	37.050	9.750	6.858	-	-	-	-	-	-	Empotrado
N1044	37.050	11.050	6.858	-	-	-	-	-	-	Empotrado
N1045	37.050	12.350	6.858	-	-	-	-	-	-	Empotrado
N1046	37.050	13.650	6.858	-	-	-	-	-	-	Empotrado
N1047	37.050	14.950	6.858	-	-	-	-	-	-	Empotrado
N1048	37.050	16.250	6.858	-	-	-	-	-	-	Empotrado
N1049	37.050	17.550	6.858	-	-	-	-	-	-	Empotrado
N1050	37.050	18.850	6.858	-	-	-	-	-	-	Empotrado
N1051	37.050	20.150	6.858	-	-	-	-	-	-	Empotrado
N1052	37.050	21.450	6.858	-	-	-	-	-	-	Empotrado
N1053	37.050	22.750	6.858	-	-	-	-	-	-	Empotrado
N1054	37.050	24.050	6.858	-	-	-	-	-	-	Empotrado
N1055	37.050	25.350	6.858	-	-	-	-	-	-	Empotrado
N1056	37.050	26.650	6.858	-	-	-	-	-	-	Empotrado
N1057	37.050	27.950	6.858	-	-	-	-	-	-	Empotrado
N1058	35.750	0.650	6.923	-	-	-	-	-	-	Empotrado
N1059	35.750	1.950	6.923	-	-	-	-	-	-	Empotrado
N1060	35.750	3.250	6.923	-	-	-	-	-	-	Empotrado
N1061	35.750	4.550	6.923	-	-	-	-	-	-	Empotrado
N1062	35.750	5.850	6.923	-	-	-	-	-	-	Empotrado
N1063	35.750	7.150	6.923	-	-	-	-	-	-	Empotrado
N1064	35.750	8.450	6.923	-	-	-	-	-	-	Empotrado
N1065	35.750	9.750	6.923	-	-	-	-	-	-	Empotrado
N1066	35.750	11.050	6.923	-	-	-	-	-	-	Empotrado
N1067	35.750	12.350	6.923	-	-	-	-	-	-	Empotrado
N1068	35.750	13.650	6.923	-	-	-	-	-	-	Empotrado
N1069	35.750	14.950	6.923	-	-	-	-	-	-	Empotrado
N1070	35.750	16.250	6.923	-	-	-	-	-	-	Empotrado
N1071	35.750	17.550	6.923	-	-	-	-	-	-	Empotrado
N1072	35.750	18.850	6.923	-	-	-	-	-	-	Empotrado
N1073	35.750	20.150	6.923	-	-	-	-	-	-	Empotrado
N1074	35.750	21.450	6.923	-	-	-	-	-	-	Empotrado
N1075	35.750	22.750	6.923	-	-	-	-	-	-	Empotrado
N1076	35.750	24.050	6.923	-	-	-	-	-	-	Empotrado
N1077	35.750	25.350	6.923	-	-	-	-	-	-	Empotrado
N1078	35.750	26.650	6.923	-	-	-	-	-	-	Empotrado
N1079	35.750	27.950	6.923	-	-	-	-	-	-	Empotrado
N1080	34.450	0.650	6.988	-	-	-	-	-	-	Empotrado
N1081	34.450	1.950	6.988	-	-	-	-	-	-	Empotrado
N1082	34.450	3.250	6.988	-	-	-	-	-	-	Empotrado
N1083	34.450	4.550	6.988	-	-	-	-	-	-	Empotrado
N1084	34.450	5.850	6.988	-	-	-	-	-	-	Empotrado
N1085	34.450	7.150	6.988	-	-	-	-	-	-	Empotrado
N1086	34.450	8.450	6.988	-	-	-	-	-	-	Empotrado
N1087	34.450	9.750	6.988	-	-	-	-	-	-	Empotrado
N1088	34.450	11.050	6.988	-	-	-	-	-	-	Empotrado
N1089	34.450	12.350	6.988	-	-	-	-	-	-	Empotrado
N1090	34.450	13.650	6.988	-	-	-	-	-	-	Empotrado

Nudos										
Referencia	Coordenadas			Vinculación exterior						Vinculación interior
	X (m)	Y (m)	Z (m)	Δ_x	Δ_y	Δ_z	θ_x	θ_y	θ_z	
N1091	34.450	14.950	6.988	-	-	-	-	-	-	Empotrado
N1092	34.450	16.250	6.988	-	-	-	-	-	-	Empotrado
N1093	34.450	17.550	6.988	-	-	-	-	-	-	Empotrado
N1094	34.450	18.850	6.988	-	-	-	-	-	-	Empotrado
N1095	34.450	20.150	6.988	-	-	-	-	-	-	Empotrado
N1096	34.450	21.450	6.988	-	-	-	-	-	-	Empotrado
N1097	34.450	22.750	6.988	-	-	-	-	-	-	Empotrado
N1098	34.450	24.050	6.988	-	-	-	-	-	-	Empotrado
N1099	34.450	25.350	6.988	-	-	-	-	-	-	Empotrado
N1100	34.450	26.650	6.988	-	-	-	-	-	-	Empotrado
N1101	34.450	27.950	6.988	-	-	-	-	-	-	Empotrado
N1102	33.150	0.650	7.053	-	-	-	-	-	-	Empotrado
N1103	33.150	1.950	7.053	-	-	-	-	-	-	Empotrado
N1104	33.150	3.250	7.053	-	-	-	-	-	-	Empotrado
N1105	33.150	4.550	7.053	-	-	-	-	-	-	Empotrado
N1106	33.150	5.850	7.053	-	-	-	-	-	-	Empotrado
N1107	33.150	7.150	7.053	-	-	-	-	-	-	Empotrado
N1108	33.150	8.450	7.053	-	-	-	-	-	-	Empotrado
N1109	33.150	9.750	7.053	-	-	-	-	-	-	Empotrado
N1110	33.150	11.050	7.053	-	-	-	-	-	-	Empotrado
N1111	33.150	12.350	7.053	-	-	-	-	-	-	Empotrado
N1112	33.150	13.650	7.053	-	-	-	-	-	-	Empotrado
N1113	33.150	14.950	7.053	-	-	-	-	-	-	Empotrado
N1114	33.150	16.250	7.053	-	-	-	-	-	-	Empotrado
N1115	33.150	17.550	7.053	-	-	-	-	-	-	Empotrado
N1116	33.150	18.850	7.053	-	-	-	-	-	-	Empotrado
N1117	33.150	20.150	7.053	-	-	-	-	-	-	Empotrado
N1118	33.150	21.450	7.053	-	-	-	-	-	-	Empotrado
N1119	33.150	22.750	7.053	-	-	-	-	-	-	Empotrado
N1120	33.150	24.050	7.053	-	-	-	-	-	-	Empotrado
N1121	33.150	25.350	7.053	-	-	-	-	-	-	Empotrado
N1122	33.150	26.650	7.053	-	-	-	-	-	-	Empotrado
N1123	33.150	27.950	7.053	-	-	-	-	-	-	Empotrado
N1124	31.850	0.650	7.118	-	-	-	-	-	-	Empotrado
N1125	31.850	1.950	7.118	-	-	-	-	-	-	Empotrado
N1126	31.850	3.250	7.118	-	-	-	-	-	-	Empotrado
N1127	31.850	4.550	7.118	-	-	-	-	-	-	Empotrado
N1128	31.850	5.850	7.118	-	-	-	-	-	-	Empotrado
N1129	31.850	7.150	7.118	-	-	-	-	-	-	Empotrado
N1130	31.850	8.450	7.118	-	-	-	-	-	-	Empotrado
N1131	31.850	9.750	7.118	-	-	-	-	-	-	Empotrado
N1132	31.850	11.050	7.118	-	-	-	-	-	-	Empotrado
N1133	31.850	12.350	7.118	-	-	-	-	-	-	Empotrado
N1134	31.850	13.650	7.118	-	-	-	-	-	-	Empotrado
N1135	31.850	14.950	7.118	-	-	-	-	-	-	Empotrado
N1136	31.850	16.250	7.118	-	-	-	-	-	-	Empotrado
N1137	31.850	17.550	7.118	-	-	-	-	-	-	Empotrado
N1138	31.850	18.850	7.118	-	-	-	-	-	-	Empotrado
N1139	31.850	20.150	7.118	-	-	-	-	-	-	Empotrado
N1140	31.850	21.450	7.118	-	-	-	-	-	-	Empotrado
N1141	31.850	22.750	7.118	-	-	-	-	-	-	Empotrado
N1142	31.850	24.050	7.118	-	-	-	-	-	-	Empotrado
N1143	31.850	25.350	7.118	-	-	-	-	-	-	Empotrado
N1144	31.850	26.650	7.118	-	-	-	-	-	-	Empotrado
N1145	31.850	27.950	7.118	-	-	-	-	-	-	Empotrado

Nudos

Referencia	Coordenadas			Vinculación exterior						Vinculación interior
	X (m)	Y (m)	Z (m)	Δ_x	Δ_y	Δ_z	θ_x	θ_y	θ_z	
N1146	30.550	0.650	7.183	-	-	-	-	-	-	Empotrado
N1147	30.550	1.950	7.183	-	-	-	-	-	-	Empotrado
N1148	30.550	3.250	7.183	-	-	-	-	-	-	Empotrado
N1149	30.550	4.550	7.183	-	-	-	-	-	-	Empotrado
N1150	30.550	5.850	7.183	-	-	-	-	-	-	Empotrado
N1151	30.550	7.150	7.183	-	-	-	-	-	-	Empotrado
N1152	30.550	8.450	7.183	-	-	-	-	-	-	Empotrado
N1153	30.550	9.750	7.183	-	-	-	-	-	-	Empotrado
N1154	30.550	11.050	7.183	-	-	-	-	-	-	Empotrado
N1155	30.550	12.350	7.183	-	-	-	-	-	-	Empotrado
N1156	30.550	13.650	7.183	-	-	-	-	-	-	Empotrado
N1157	30.550	14.950	7.183	-	-	-	-	-	-	Empotrado
N1158	30.550	16.250	7.183	-	-	-	-	-	-	Empotrado
N1159	30.550	17.550	7.183	-	-	-	-	-	-	Empotrado
N1160	30.550	18.850	7.183	-	-	-	-	-	-	Empotrado
N1161	30.550	20.150	7.183	-	-	-	-	-	-	Empotrado
N1162	30.550	21.450	7.183	-	-	-	-	-	-	Empotrado
N1163	30.550	22.750	7.183	-	-	-	-	-	-	Empotrado
N1164	30.550	24.050	7.183	-	-	-	-	-	-	Empotrado
N1165	30.550	25.350	7.183	-	-	-	-	-	-	Empotrado
N1166	30.550	26.650	7.183	-	-	-	-	-	-	Empotrado
N1167	30.550	27.950	7.183	-	-	-	-	-	-	Empotrado
N1168	29.250	0.650	7.248	-	-	-	-	-	-	Empotrado
N1169	29.250	1.950	7.248	-	-	-	-	-	-	Empotrado
N1170	29.250	3.250	7.248	-	-	-	-	-	-	Empotrado
N1171	29.250	4.550	7.248	-	-	-	-	-	-	Empotrado
N1172	29.250	5.850	7.248	-	-	-	-	-	-	Empotrado
N1173	29.250	7.150	7.248	-	-	-	-	-	-	Empotrado
N1174	29.250	8.450	7.248	-	-	-	-	-	-	Empotrado
N1175	29.250	9.750	7.248	-	-	-	-	-	-	Empotrado
N1176	29.250	11.050	7.248	-	-	-	-	-	-	Empotrado
N1177	29.250	12.350	7.248	-	-	-	-	-	-	Empotrado
N1178	29.250	13.650	7.248	-	-	-	-	-	-	Empotrado
N1179	29.250	14.950	7.248	-	-	-	-	-	-	Empotrado
N1180	29.250	16.250	7.248	-	-	-	-	-	-	Empotrado
N1181	29.250	17.550	7.248	-	-	-	-	-	-	Empotrado
N1182	29.250	18.850	7.248	-	-	-	-	-	-	Empotrado
N1183	29.250	20.150	7.248	-	-	-	-	-	-	Empotrado
N1184	29.250	21.450	7.248	-	-	-	-	-	-	Empotrado
N1185	29.250	22.750	7.248	-	-	-	-	-	-	Empotrado
N1186	29.250	24.050	7.248	-	-	-	-	-	-	Empotrado
N1187	29.250	25.350	7.248	-	-	-	-	-	-	Empotrado
N1188	29.250	26.650	7.248	-	-	-	-	-	-	Empotrado
N1189	29.250	27.950	7.248	-	-	-	-	-	-	Empotrado
N1190	27.950	0.650	7.313	-	-	-	-	-	-	Empotrado
N1191	27.950	1.950	7.313	-	-	-	-	-	-	Empotrado
N1192	27.950	3.250	7.313	-	-	-	-	-	-	Empotrado
N1193	27.950	4.550	7.313	-	-	-	-	-	-	Empotrado
N1194	27.950	5.850	7.313	-	-	-	-	-	-	Empotrado
N1195	27.950	7.150	7.313	-	-	-	-	-	-	Empotrado
N1196	27.950	8.450	7.313	-	-	-	-	-	-	Empotrado
N1197	27.950	9.750	7.313	-	-	-	-	-	-	Empotrado
N1198	27.950	11.050	7.313	-	-	-	-	-	-	Empotrado
N1199	27.950	12.350	7.313	-	-	-	-	-	-	Empotrado
N1200	27.950	13.650	7.313	-	-	-	-	-	-	Empotrado

Nudos

Referencia	Coordenadas			Vinculación exterior						Vinculación interior
	X (m)	Y (m)	Z (m)	Δ_x	Δ_y	Δ_z	θ_x	θ_y	θ_z	
N1201	27.950	14.950	7.313	-	-	-	-	-	-	Empotrado
N1202	27.950	16.250	7.313	-	-	-	-	-	-	Empotrado
N1203	27.950	17.550	7.313	-	-	-	-	-	-	Empotrado
N1204	27.950	18.850	7.313	-	-	-	-	-	-	Empotrado
N1205	27.950	20.150	7.313	-	-	-	-	-	-	Empotrado
N1206	27.950	21.450	7.313	-	-	-	-	-	-	Empotrado
N1207	27.950	22.750	7.313	-	-	-	-	-	-	Empotrado
N1208	27.950	24.050	7.313	-	-	-	-	-	-	Empotrado
N1209	27.950	25.350	7.313	-	-	-	-	-	-	Empotrado
N1210	27.950	26.650	7.313	-	-	-	-	-	-	Empotrado
N1211	27.950	27.950	7.313	-	-	-	-	-	-	Empotrado
N1212	26.650	0.650	7.378	-	-	-	-	-	-	Empotrado
N1213	26.650	1.950	7.378	-	-	-	-	-	-	Empotrado
N1214	26.650	3.250	7.378	-	-	-	-	-	-	Empotrado
N1215	26.650	4.550	7.378	-	-	-	-	-	-	Empotrado
N1216	26.650	5.850	7.378	-	-	-	-	-	-	Empotrado
N1217	26.650	7.150	7.378	-	-	-	-	-	-	Empotrado
N1218	26.650	8.450	7.378	-	-	-	-	-	-	Empotrado
N1219	26.650	9.750	7.378	-	-	-	-	-	-	Empotrado
N1220	26.650	11.050	7.378	-	-	-	-	-	-	Empotrado
N1221	26.650	12.350	7.378	-	-	-	-	-	-	Empotrado
N1222	26.650	13.650	7.378	-	-	-	-	-	-	Empotrado
N1223	26.650	14.950	7.378	-	-	-	-	-	-	Empotrado
N1224	26.650	16.250	7.378	-	-	-	-	-	-	Empotrado
N1225	26.650	17.550	7.378	-	-	-	-	-	-	Empotrado
N1226	26.650	18.850	7.378	-	-	-	-	-	-	Empotrado
N1227	26.650	20.150	7.378	-	-	-	-	-	-	Empotrado
N1228	26.650	21.450	7.378	-	-	-	-	-	-	Empotrado
N1229	26.650	22.750	7.378	-	-	-	-	-	-	Empotrado
N1230	26.650	24.050	7.378	-	-	-	-	-	-	Empotrado
N1231	26.650	25.350	7.378	-	-	-	-	-	-	Empotrado
N1232	26.650	26.650	7.378	-	-	-	-	-	-	Empotrado
N1233	26.650	27.950	7.378	-	-	-	-	-	-	Empotrado
N1234	25.350	0.650	7.443	-	-	-	-	-	-	Empotrado
N1235	25.350	1.950	7.443	-	-	-	-	-	-	Empotrado
N1236	25.350	3.250	7.443	-	-	-	-	-	-	Empotrado
N1237	25.350	4.550	7.443	-	-	-	-	-	-	Empotrado
N1238	25.350	5.850	7.443	-	-	-	-	-	-	Empotrado
N1239	25.350	7.150	7.443	-	-	-	-	-	-	Empotrado
N1240	25.350	8.450	7.443	-	-	-	-	-	-	Empotrado
N1241	25.350	9.750	7.443	-	-	-	-	-	-	Empotrado
N1242	25.350	11.050	7.443	-	-	-	-	-	-	Empotrado
N1243	25.350	12.350	7.443	-	-	-	-	-	-	Empotrado
N1244	25.350	13.650	7.443	-	-	-	-	-	-	Empotrado
N1245	25.350	14.950	7.443	-	-	-	-	-	-	Empotrado
N1246	25.350	16.250	7.443	-	-	-	-	-	-	Empotrado
N1247	25.350	17.550	7.443	-	-	-	-	-	-	Empotrado
N1248	25.350	18.850	7.443	-	-	-	-	-	-	Empotrado
N1249	25.350	20.150	7.443	-	-	-	-	-	-	Empotrado
N1250	25.350	21.450	7.443	-	-	-	-	-	-	Empotrado
N1251	25.350	22.750	7.443	-	-	-	-	-	-	Empotrado
N1252	25.350	24.050	7.443	-	-	-	-	-	-	Empotrado
N1253	25.350	25.350	7.443	-	-	-	-	-	-	Empotrado
N1254	25.350	26.650	7.443	-	-	-	-	-	-	Empotrado
N1255	25.350	27.950	7.443	-	-	-	-	-	-	Empotrado

Nudos										
Referencia	Coordenadas			Vinculación exterior						Vinculación interior
	X (m)	Y (m)	Z (m)	Δ_x	Δ_y	Δ_z	θ_x	θ_y	θ_z	
N1256	24.050	0.650	7.508	-	-	-	-	-	-	Empotrado
N1257	24.050	1.950	7.508	-	-	-	-	-	-	Empotrado
N1258	24.050	3.250	7.508	-	-	-	-	-	-	Empotrado
N1259	24.050	4.550	7.508	-	-	-	-	-	-	Empotrado
N1260	24.050	5.850	7.508	-	-	-	-	-	-	Empotrado
N1261	24.050	7.150	7.508	-	-	-	-	-	-	Empotrado
N1262	24.050	8.450	7.508	-	-	-	-	-	-	Empotrado
N1263	24.050	9.750	7.508	-	-	-	-	-	-	Empotrado
N1264	24.050	11.050	7.508	-	-	-	-	-	-	Empotrado
N1265	24.050	12.350	7.508	-	-	-	-	-	-	Empotrado
N1266	24.050	13.650	7.508	-	-	-	-	-	-	Empotrado
N1267	24.050	14.950	7.508	-	-	-	-	-	-	Empotrado
N1268	24.050	16.250	7.508	-	-	-	-	-	-	Empotrado
N1269	24.050	17.550	7.508	-	-	-	-	-	-	Empotrado
N1270	24.050	18.850	7.508	-	-	-	-	-	-	Empotrado
N1271	24.050	20.150	7.508	-	-	-	-	-	-	Empotrado
N1272	24.050	21.450	7.508	-	-	-	-	-	-	Empotrado
N1273	24.050	22.750	7.508	-	-	-	-	-	-	Empotrado
N1274	24.050	24.050	7.508	-	-	-	-	-	-	Empotrado
N1275	24.050	25.350	7.508	-	-	-	-	-	-	Empotrado
N1276	24.050	26.650	7.508	-	-	-	-	-	-	Empotrado
N1277	24.050	27.950	7.508	-	-	-	-	-	-	Empotrado
N1278	22.750	0.650	7.573	-	-	-	-	-	-	Empotrado
N1279	22.750	1.950	7.573	-	-	-	-	-	-	Empotrado
N1280	22.750	3.250	7.573	-	-	-	-	-	-	Empotrado
N1281	22.750	4.550	7.573	-	-	-	-	-	-	Empotrado
N1282	22.750	5.850	7.573	-	-	-	-	-	-	Empotrado
N1283	22.750	7.150	7.573	-	-	-	-	-	-	Empotrado
N1284	22.750	8.450	7.573	-	-	-	-	-	-	Empotrado
N1285	22.750	9.750	7.573	-	-	-	-	-	-	Empotrado
N1286	22.750	11.050	7.573	-	-	-	-	-	-	Empotrado
N1287	22.750	12.350	7.573	-	-	-	-	-	-	Empotrado
N1288	22.750	13.650	7.573	-	-	-	-	-	-	Empotrado
N1289	22.750	14.950	7.573	-	-	-	-	-	-	Empotrado
N1290	22.750	16.250	7.573	-	-	-	-	-	-	Empotrado
N1291	22.750	17.550	7.573	-	-	-	-	-	-	Empotrado
N1292	22.750	18.850	7.573	-	-	-	-	-	-	Empotrado
N1293	22.750	20.150	7.573	-	-	-	-	-	-	Empotrado
N1294	22.750	21.450	7.573	-	-	-	-	-	-	Empotrado
N1295	22.750	22.750	7.573	-	-	-	-	-	-	Empotrado
N1296	22.750	24.050	7.573	-	-	-	-	-	-	Empotrado
N1297	22.750	25.350	7.573	-	-	-	-	-	-	Empotrado
N1298	22.750	26.650	7.573	-	-	-	-	-	-	Empotrado
N1299	22.750	27.950	7.573	-	-	-	-	-	-	Empotrado
N1300	21.450	0.650	7.638	-	-	-	-	-	-	Empotrado
N1301	21.450	1.950	7.638	-	-	-	-	-	-	Empotrado
N1302	21.450	3.250	7.638	-	-	-	-	-	-	Empotrado
N1303	21.450	4.550	7.638	-	-	-	-	-	-	Empotrado
N1304	21.450	5.850	7.638	-	-	-	-	-	-	Empotrado
N1305	21.450	7.150	7.638	-	-	-	-	-	-	Empotrado
N1306	21.450	8.450	7.638	-	-	-	-	-	-	Empotrado
N1307	21.450	9.750	7.638	-	-	-	-	-	-	Empotrado
N1308	21.450	11.050	7.638	-	-	-	-	-	-	Empotrado
N1309	21.450	12.350	7.638	-	-	-	-	-	-	Empotrado
N1310	21.450	13.650	7.638	-	-	-	-	-	-	Empotrado

Nudos										
Referencia	Coordenadas			Vinculación exterior						Vinculación interior
	X (m)	Y (m)	Z (m)	Δ_x	Δ_y	Δ_z	θ_x	θ_y	θ_z	
N1311	21.450	14.950	7.638	-	-	-	-	-	-	Empotrado
N1312	21.450	16.250	7.638	-	-	-	-	-	-	Empotrado
N1313	21.450	17.550	7.638	-	-	-	-	-	-	Empotrado
N1314	21.450	18.850	7.638	-	-	-	-	-	-	Empotrado
N1315	21.450	20.150	7.638	-	-	-	-	-	-	Empotrado
N1316	21.450	21.450	7.638	-	-	-	-	-	-	Empotrado
N1317	21.450	22.750	7.638	-	-	-	-	-	-	Empotrado
N1318	21.450	24.050	7.638	-	-	-	-	-	-	Empotrado
N1319	21.450	25.350	7.638	-	-	-	-	-	-	Empotrado
N1320	21.450	26.650	7.638	-	-	-	-	-	-	Empotrado
N1321	21.450	27.950	7.638	-	-	-	-	-	-	Empotrado
N1322	20.150	0.650	7.703	-	-	-	-	-	-	Empotrado
N1323	20.150	1.950	7.703	-	-	-	-	-	-	Empotrado
N1324	20.150	3.250	7.703	-	-	-	-	-	-	Empotrado
N1325	20.150	4.550	7.703	-	-	-	-	-	-	Empotrado
N1326	20.150	5.850	7.703	-	-	-	-	-	-	Empotrado
N1327	20.150	7.150	7.703	-	-	-	-	-	-	Empotrado
N1328	20.150	8.450	7.703	-	-	-	-	-	-	Empotrado
N1329	20.150	9.750	7.703	-	-	-	-	-	-	Empotrado
N1330	20.150	11.050	7.703	-	-	-	-	-	-	Empotrado
N1331	20.150	12.350	7.703	-	-	-	-	-	-	Empotrado
N1332	20.150	13.650	7.703	-	-	-	-	-	-	Empotrado
N1333	20.150	14.950	7.703	-	-	-	-	-	-	Empotrado
N1334	20.150	16.250	7.703	-	-	-	-	-	-	Empotrado
N1335	20.150	17.550	7.703	-	-	-	-	-	-	Empotrado
N1336	20.150	18.850	7.703	-	-	-	-	-	-	Empotrado
N1337	20.150	20.150	7.703	-	-	-	-	-	-	Empotrado
N1338	20.150	21.450	7.703	-	-	-	-	-	-	Empotrado
N1339	20.150	22.750	7.703	-	-	-	-	-	-	Empotrado
N1340	20.150	24.050	7.703	-	-	-	-	-	-	Empotrado
N1341	20.150	25.350	7.703	-	-	-	-	-	-	Empotrado
N1342	20.150	26.650	7.703	-	-	-	-	-	-	Empotrado
N1343	20.150	27.950	7.703	-	-	-	-	-	-	Empotrado
N1344	18.850	0.650	7.768	-	-	-	-	-	-	Empotrado
N1345	18.850	1.950	7.768	-	-	-	-	-	-	Empotrado
N1346	18.850	3.250	7.768	-	-	-	-	-	-	Empotrado
N1347	18.850	4.550	7.768	-	-	-	-	-	-	Empotrado
N1348	18.850	5.850	7.768	-	-	-	-	-	-	Empotrado
N1349	18.850	7.150	7.768	-	-	-	-	-	-	Empotrado
N1350	18.850	8.450	7.768	-	-	-	-	-	-	Empotrado
N1351	18.850	9.750	7.768	-	-	-	-	-	-	Empotrado
N1352	18.850	11.050	7.768	-	-	-	-	-	-	Empotrado
N1353	18.850	12.350	7.768	-	-	-	-	-	-	Empotrado
N1354	18.850	13.650	7.768	-	-	-	-	-	-	Empotrado
N1355	18.850	14.950	7.768	-	-	-	-	-	-	Empotrado
N1356	18.850	16.250	7.768	-	-	-	-	-	-	Empotrado
N1357	18.850	17.550	7.768	-	-	-	-	-	-	Empotrado
N1358	18.850	18.850	7.768	-	-	-	-	-	-	Empotrado
N1359	18.850	20.150	7.768	-	-	-	-	-	-	Empotrado
N1360	18.850	21.450	7.768	-	-	-	-	-	-	Empotrado
N1361	18.850	22.750	7.768	-	-	-	-	-	-	Empotrado
N1362	18.850	24.050	7.768	-	-	-	-	-	-	Empotrado
N1363	18.850	25.350	7.768	-	-	-	-	-	-	Empotrado
N1364	18.850	26.650	7.768	-	-	-	-	-	-	Empotrado
N1365	18.850	27.950	7.768	-	-	-	-	-	-	Empotrado

Nudos										
Referencia	Coordenadas			Vinculación exterior						Vinculación interior
	X (m)	Y (m)	Z (m)	Δ_x	Δ_y	Δ_z	θ_x	θ_y	θ_z	
N1366	17.550	0.650	7.833	-	-	-	-	-	-	Empotrado
N1367	17.550	1.950	7.833	-	-	-	-	-	-	Empotrado
N1368	17.550	3.250	7.833	-	-	-	-	-	-	Empotrado
N1369	17.550	4.550	7.833	-	-	-	-	-	-	Empotrado
N1370	17.550	5.850	7.833	-	-	-	-	-	-	Empotrado
N1371	17.550	7.150	7.833	-	-	-	-	-	-	Empotrado
N1372	17.550	8.450	7.833	-	-	-	-	-	-	Empotrado
N1373	17.550	9.750	7.833	-	-	-	-	-	-	Empotrado
N1374	17.550	11.050	7.833	-	-	-	-	-	-	Empotrado
N1375	17.550	12.350	7.833	-	-	-	-	-	-	Empotrado
N1376	17.550	13.650	7.833	-	-	-	-	-	-	Empotrado
N1377	17.550	14.950	7.833	-	-	-	-	-	-	Empotrado
N1378	17.550	16.250	7.833	-	-	-	-	-	-	Empotrado
N1379	17.550	17.550	7.833	-	-	-	-	-	-	Empotrado
N1380	17.550	18.850	7.833	-	-	-	-	-	-	Empotrado
N1381	17.550	20.150	7.833	-	-	-	-	-	-	Empotrado
N1382	17.550	21.450	7.833	-	-	-	-	-	-	Empotrado
N1383	17.550	22.750	7.833	-	-	-	-	-	-	Empotrado
N1384	17.550	24.050	7.833	-	-	-	-	-	-	Empotrado
N1385	17.550	25.350	7.833	-	-	-	-	-	-	Empotrado
N1386	17.550	26.650	7.833	-	-	-	-	-	-	Empotrado
N1387	17.550	27.950	7.833	-	-	-	-	-	-	Empotrado
N1388	16.250	0.650	7.898	-	-	-	-	-	-	Empotrado
N1389	16.250	1.950	7.898	-	-	-	-	-	-	Empotrado
N1390	16.250	3.250	7.898	-	-	-	-	-	-	Empotrado
N1391	16.250	4.550	7.898	-	-	-	-	-	-	Empotrado
N1392	16.250	5.850	7.898	-	-	-	-	-	-	Empotrado
N1393	16.250	7.150	7.898	-	-	-	-	-	-	Empotrado
N1394	16.250	8.450	7.898	-	-	-	-	-	-	Empotrado
N1395	16.250	9.750	7.898	-	-	-	-	-	-	Empotrado
N1396	16.250	11.050	7.898	-	-	-	-	-	-	Empotrado
N1397	16.250	12.350	7.898	-	-	-	-	-	-	Empotrado
N1398	16.250	13.650	7.898	-	-	-	-	-	-	Empotrado
N1399	16.250	14.950	7.898	-	-	-	-	-	-	Empotrado
N1400	16.250	16.250	7.898	-	-	-	-	-	-	Empotrado
N1401	16.250	17.550	7.898	-	-	-	-	-	-	Empotrado
N1402	16.250	18.850	7.898	-	-	-	-	-	-	Empotrado
N1403	16.250	20.150	7.898	-	-	-	-	-	-	Empotrado
N1404	16.250	21.450	7.898	-	-	-	-	-	-	Empotrado
N1405	16.250	22.750	7.898	-	-	-	-	-	-	Empotrado
N1406	16.250	24.050	7.898	-	-	-	-	-	-	Empotrado
N1407	16.250	25.350	7.898	-	-	-	-	-	-	Empotrado
N1408	16.250	26.650	7.898	-	-	-	-	-	-	Empotrado
N1409	16.250	27.950	7.898	-	-	-	-	-	-	Empotrado
N1410	14.950	0.650	7.963	-	-	-	-	-	-	Empotrado
N1411	14.950	1.950	7.963	-	-	-	-	-	-	Empotrado
N1412	14.950	3.250	7.963	-	-	-	-	-	-	Empotrado
N1413	14.950	4.550	7.963	-	-	-	-	-	-	Empotrado
N1414	14.950	5.850	7.963	-	-	-	-	-	-	Empotrado
N1415	14.950	7.150	7.963	-	-	-	-	-	-	Empotrado
N1416	14.950	8.450	7.963	-	-	-	-	-	-	Empotrado
N1417	14.950	9.750	7.963	-	-	-	-	-	-	Empotrado
N1418	14.950	11.050	7.963	-	-	-	-	-	-	Empotrado
N1419	14.950	12.350	7.963	-	-	-	-	-	-	Empotrado
N1420	14.950	13.650	7.963	-	-	-	-	-	-	Empotrado

Nudos										
Referencia	Coordenadas			Vinculación exterior						Vinculación interior
	X (m)	Y (m)	Z (m)	Δ_x	Δ_y	Δ_z	θ_x	θ_y	θ_z	
N1421	14.950	14.950	7.963	-	-	-	-	-	-	Empotrado
N1422	14.950	16.250	7.963	-	-	-	-	-	-	Empotrado
N1423	14.950	17.550	7.963	-	-	-	-	-	-	Empotrado
N1424	14.950	18.850	7.963	-	-	-	-	-	-	Empotrado
N1425	14.950	20.150	7.963	-	-	-	-	-	-	Empotrado
N1426	14.950	21.450	7.963	-	-	-	-	-	-	Empotrado
N1427	14.950	22.750	7.963	-	-	-	-	-	-	Empotrado
N1428	14.950	24.050	7.963	-	-	-	-	-	-	Empotrado
N1429	14.950	25.350	7.963	-	-	-	-	-	-	Empotrado
N1430	14.950	26.650	7.963	-	-	-	-	-	-	Empotrado
N1431	14.950	27.950	7.963	-	-	-	-	-	-	Empotrado
N1432	13.650	0.650	8.028	-	-	-	-	-	-	Empotrado
N1433	13.650	1.950	8.028	-	-	-	-	-	-	Empotrado
N1434	13.650	3.250	8.028	-	-	-	-	-	-	Empotrado
N1435	13.650	4.550	8.028	-	-	-	-	-	-	Empotrado
N1436	13.650	5.850	8.028	-	-	-	-	-	-	Empotrado
N1437	13.650	7.150	8.028	-	-	-	-	-	-	Empotrado
N1438	13.650	8.450	8.028	-	-	-	-	-	-	Empotrado
N1439	13.650	9.750	8.028	-	-	-	-	-	-	Empotrado
N1440	13.650	11.050	8.028	-	-	-	-	-	-	Empotrado
N1441	13.650	12.350	8.028	-	-	-	-	-	-	Empotrado
N1442	13.650	13.650	8.028	-	-	-	-	-	-	Empotrado
N1443	13.650	14.950	8.028	-	-	-	-	-	-	Empotrado
N1444	13.650	16.250	8.028	-	-	-	-	-	-	Empotrado
N1445	13.650	17.550	8.028	-	-	-	-	-	-	Empotrado
N1446	13.650	18.850	8.028	-	-	-	-	-	-	Empotrado
N1447	13.650	20.150	8.028	-	-	-	-	-	-	Empotrado
N1448	13.650	21.450	8.028	-	-	-	-	-	-	Empotrado
N1449	13.650	22.750	8.028	-	-	-	-	-	-	Empotrado
N1450	13.650	24.050	8.028	-	-	-	-	-	-	Empotrado
N1451	13.650	25.350	8.028	-	-	-	-	-	-	Empotrado
N1452	13.650	26.650	8.028	-	-	-	-	-	-	Empotrado
N1453	13.650	27.950	8.028	-	-	-	-	-	-	Empotrado
N1454	12.350	0.650	8.093	-	-	-	-	-	-	Empotrado
N1455	12.350	1.950	8.093	-	-	-	-	-	-	Empotrado
N1456	12.350	3.250	8.093	-	-	-	-	-	-	Empotrado
N1457	12.350	4.550	8.093	-	-	-	-	-	-	Empotrado
N1458	12.350	5.850	8.093	-	-	-	-	-	-	Empotrado
N1459	12.350	7.150	8.093	-	-	-	-	-	-	Empotrado
N1460	12.350	8.450	8.093	-	-	-	-	-	-	Empotrado
N1461	12.350	9.750	8.093	-	-	-	-	-	-	Empotrado
N1462	12.350	11.050	8.093	-	-	-	-	-	-	Empotrado
N1463	12.350	12.350	8.093	-	-	-	-	-	-	Empotrado
N1464	12.350	13.650	8.093	-	-	-	-	-	-	Empotrado
N1465	12.350	14.950	8.093	-	-	-	-	-	-	Empotrado
N1466	12.350	16.250	8.093	-	-	-	-	-	-	Empotrado
N1467	12.350	17.550	8.093	-	-	-	-	-	-	Empotrado
N1468	12.350	18.850	8.093	-	-	-	-	-	-	Empotrado
N1469	12.350	20.150	8.093	-	-	-	-	-	-	Empotrado
N1470	12.350	21.450	8.093	-	-	-	-	-	-	Empotrado
N1471	12.350	22.750	8.093	-	-	-	-	-	-	Empotrado
N1472	12.350	24.050	8.093	-	-	-	-	-	-	Empotrado
N1473	12.350	25.350	8.093	-	-	-	-	-	-	Empotrado
N1474	12.350	26.650	8.093	-	-	-	-	-	-	Empotrado
N1475	12.350	27.950	8.093	-	-	-	-	-	-	Empotrado

Nudos										
Referencia	Coordenadas			Vinculación exterior						Vinculación interior
	X (m)	Y (m)	Z (m)	Δ_x	Δ_y	Δ_z	θ_x	θ_y	θ_z	
N1476	11.050	0.650	8.158	-	-	-	-	-	-	Empotrado
N1477	11.050	1.950	8.158	-	-	-	-	-	-	Empotrado
N1478	11.050	3.250	8.158	-	-	-	-	-	-	Empotrado
N1479	11.050	4.550	8.158	-	-	-	-	-	-	Empotrado
N1480	11.050	5.850	8.158	-	-	-	-	-	-	Empotrado
N1481	11.050	7.150	8.158	-	-	-	-	-	-	Empotrado
N1482	11.050	8.450	8.158	-	-	-	-	-	-	Empotrado
N1483	11.050	9.750	8.158	-	-	-	-	-	-	Empotrado
N1484	11.050	11.050	8.158	-	-	-	-	-	-	Empotrado
N1485	11.050	12.350	8.158	-	-	-	-	-	-	Empotrado
N1486	11.050	13.650	8.158	-	-	-	-	-	-	Empotrado
N1487	11.050	14.950	8.158	-	-	-	-	-	-	Empotrado
N1488	11.050	16.250	8.158	-	-	-	-	-	-	Empotrado
N1489	11.050	17.550	8.158	-	-	-	-	-	-	Empotrado
N1490	11.050	18.850	8.158	-	-	-	-	-	-	Empotrado
N1491	11.050	20.150	8.158	-	-	-	-	-	-	Empotrado
N1492	11.050	21.450	8.158	-	-	-	-	-	-	Empotrado
N1493	11.050	22.750	8.158	-	-	-	-	-	-	Empotrado
N1494	11.050	24.050	8.158	-	-	-	-	-	-	Empotrado
N1495	11.050	25.350	8.158	-	-	-	-	-	-	Empotrado
N1496	11.050	26.650	8.158	-	-	-	-	-	-	Empotrado
N1497	11.050	27.950	8.158	-	-	-	-	-	-	Empotrado
N1498	9.750	0.650	8.223	-	-	-	-	-	-	Empotrado
N1499	9.750	1.950	8.223	-	-	-	-	-	-	Empotrado
N1500	9.750	3.250	8.223	-	-	-	-	-	-	Empotrado
N1501	9.750	4.550	8.223	-	-	-	-	-	-	Empotrado
N1502	9.750	5.850	8.223	-	-	-	-	-	-	Empotrado
N1503	9.750	7.150	8.223	-	-	-	-	-	-	Empotrado
N1504	9.750	8.450	8.223	-	-	-	-	-	-	Empotrado
N1505	9.750	9.750	8.223	-	-	-	-	-	-	Empotrado
N1506	9.750	11.050	8.223	-	-	-	-	-	-	Empotrado
N1507	9.750	12.350	8.223	-	-	-	-	-	-	Empotrado
N1508	9.750	13.650	8.223	-	-	-	-	-	-	Empotrado
N1509	9.750	14.950	8.223	-	-	-	-	-	-	Empotrado
N1510	9.750	16.250	8.223	-	-	-	-	-	-	Empotrado
N1511	9.750	17.550	8.223	-	-	-	-	-	-	Empotrado
N1512	9.750	18.850	8.223	-	-	-	-	-	-	Empotrado
N1513	9.750	20.150	8.223	-	-	-	-	-	-	Empotrado
N1514	9.750	21.450	8.223	-	-	-	-	-	-	Empotrado
N1515	9.750	22.750	8.223	-	-	-	-	-	-	Empotrado
N1516	9.750	24.050	8.223	-	-	-	-	-	-	Empotrado
N1517	9.750	25.350	8.223	-	-	-	-	-	-	Empotrado
N1518	9.750	26.650	8.223	-	-	-	-	-	-	Empotrado
N1519	9.750	27.950	8.223	-	-	-	-	-	-	Empotrado
N1520	8.450	0.650	8.288	-	-	-	-	-	-	Empotrado
N1521	8.450	1.950	8.288	-	-	-	-	-	-	Empotrado
N1522	8.450	3.250	8.288	-	-	-	-	-	-	Empotrado
N1523	8.450	4.550	8.288	-	-	-	-	-	-	Empotrado
N1524	8.450	5.850	8.288	-	-	-	-	-	-	Empotrado
N1525	8.450	7.150	8.288	-	-	-	-	-	-	Empotrado
N1526	8.450	8.450	8.288	-	-	-	-	-	-	Empotrado
N1527	8.450	9.750	8.288	-	-	-	-	-	-	Empotrado
N1528	8.450	11.050	8.288	-	-	-	-	-	-	Empotrado
N1529	8.450	12.350	8.288	-	-	-	-	-	-	Empotrado
N1530	8.450	13.650	8.288	-	-	-	-	-	-	Empotrado

Nudos										
Referencia	Coordenadas			Vinculación exterior						Vinculación interior
	X (m)	Y (m)	Z (m)	Δ_x	Δ_y	Δ_z	θ_x	θ_y	θ_z	
N1531	8.450	14.950	8.288	-	-	-	-	-	-	Empotrado
N1532	8.450	16.250	8.288	-	-	-	-	-	-	Empotrado
N1533	8.450	17.550	8.288	-	-	-	-	-	-	Empotrado
N1534	8.450	18.850	8.288	-	-	-	-	-	-	Empotrado
N1535	8.450	20.150	8.288	-	-	-	-	-	-	Empotrado
N1536	8.450	21.450	8.288	-	-	-	-	-	-	Empotrado
N1537	8.450	22.750	8.288	-	-	-	-	-	-	Empotrado
N1538	8.450	24.050	8.288	-	-	-	-	-	-	Empotrado
N1539	8.450	25.350	8.288	-	-	-	-	-	-	Empotrado
N1540	8.450	26.650	8.288	-	-	-	-	-	-	Empotrado
N1541	8.450	27.950	8.288	-	-	-	-	-	-	Empotrado
N1542	7.150	0.650	8.353	-	-	-	-	-	-	Empotrado
N1543	7.150	1.950	8.353	-	-	-	-	-	-	Empotrado
N1544	7.150	3.250	8.353	-	-	-	-	-	-	Empotrado
N1545	7.150	4.550	8.353	-	-	-	-	-	-	Empotrado
N1546	7.150	5.850	8.353	-	-	-	-	-	-	Empotrado
N1547	7.150	9.750	8.353	-	-	-	-	-	-	Empotrado
N1548	7.150	11.050	8.353	-	-	-	-	-	-	Empotrado
N1549	7.150	12.350	8.353	-	-	-	-	-	-	Empotrado
N1550	7.150	16.250	8.353	-	-	-	-	-	-	Empotrado
N1551	7.150	17.550	8.353	-	-	-	-	-	-	Empotrado
N1552	7.150	18.850	8.353	-	-	-	-	-	-	Empotrado
N1553	7.150	22.750	8.353	-	-	-	-	-	-	Empotrado
N1554	7.150	24.050	8.353	-	-	-	-	-	-	Empotrado
N1555	7.150	25.350	8.353	-	-	-	-	-	-	Empotrado
N1556	7.150	26.650	8.353	-	-	-	-	-	-	Empotrado
N1557	7.150	27.950	8.353	-	-	-	-	-	-	Empotrado
N1558	5.850	0.650	8.418	-	-	-	-	-	-	Empotrado
N1559	5.850	1.950	8.418	-	-	-	-	-	-	Empotrado
N1560	5.850	3.250	8.418	-	-	-	-	-	-	Empotrado
N1561	5.850	4.550	8.418	-	-	-	-	-	-	Empotrado
N1562	5.850	5.850	8.418	-	-	-	-	-	-	Empotrado
N1563	5.850	9.750	8.418	-	-	-	-	-	-	Empotrado
N1564	5.850	11.050	8.418	-	-	-	-	-	-	Empotrado
N1565	5.850	12.350	8.418	-	-	-	-	-	-	Empotrado
N1566	5.850	16.250	8.418	-	-	-	-	-	-	Empotrado
N1567	5.850	17.550	8.418	-	-	-	-	-	-	Empotrado
N1568	5.850	18.850	8.418	-	-	-	-	-	-	Empotrado
N1569	5.850	22.750	8.418	-	-	-	-	-	-	Empotrado
N1570	5.850	24.050	8.418	-	-	-	-	-	-	Empotrado
N1571	5.850	25.350	8.418	-	-	-	-	-	-	Empotrado
N1572	5.850	26.650	8.418	-	-	-	-	-	-	Empotrado
N1573	5.850	27.950	8.418	-	-	-	-	-	-	Empotrado
N1574	4.550	0.650	8.483	-	-	-	-	-	-	Empotrado
N1575	4.550	1.950	8.483	-	-	-	-	-	-	Empotrado
N1576	4.550	3.250	8.483	-	-	-	-	-	-	Empotrado
N1577	4.550	4.550	8.483	-	-	-	-	-	-	Empotrado
N1578	4.550	5.850	8.483	-	-	-	-	-	-	Empotrado
N1579	4.550	7.150	8.483	-	-	-	-	-	-	Empotrado
N1580	4.550	8.450	8.483	-	-	-	-	-	-	Empotrado
N1581	4.550	9.750	8.483	-	-	-	-	-	-	Empotrado
N1582	4.550	11.050	8.483	-	-	-	-	-	-	Empotrado
N1583	4.550	12.350	8.483	-	-	-	-	-	-	Empotrado
N1584	4.550	13.650	8.483	-	-	-	-	-	-	Empotrado
N1585	4.550	14.950	8.483	-	-	-	-	-	-	Empotrado

Nudos

Referencia	Coordenadas			Vinculación exterior						Vinculación interior
	X (m)	Y (m)	Z (m)	Δ_x	Δ_y	Δ_z	θ_x	θ_y	θ_z	
N1586	4.550	16.250	8.483	-	-	-	-	-	-	Empotrado
N1587	4.550	17.550	8.483	-	-	-	-	-	-	Empotrado
N1588	4.550	18.850	8.483	-	-	-	-	-	-	Empotrado
N1589	4.550	20.150	8.483	-	-	-	-	-	-	Empotrado
N1590	4.550	21.450	8.483	-	-	-	-	-	-	Empotrado
N1591	4.550	22.750	8.483	-	-	-	-	-	-	Empotrado
N1592	4.550	24.050	8.483	-	-	-	-	-	-	Empotrado
N1593	4.550	25.350	8.483	-	-	-	-	-	-	Empotrado
N1594	4.550	26.650	8.483	-	-	-	-	-	-	Empotrado
N1595	4.550	27.950	8.483	-	-	-	-	-	-	Empotrado
N1596	3.250	0.650	8.548	-	-	-	-	-	-	Empotrado
N1597	3.250	1.950	8.548	-	-	-	-	-	-	Empotrado
N1598	3.250	3.250	8.548	-	-	-	-	-	-	Empotrado
N1599	3.250	4.550	8.548	-	-	-	-	-	-	Empotrado
N1600	3.250	5.850	8.548	-	-	-	-	-	-	Empotrado
N1601	3.250	7.150	8.548	-	-	-	-	-	-	Empotrado
N1602	3.250	8.450	8.548	-	-	-	-	-	-	Empotrado
N1603	3.250	9.750	8.548	-	-	-	-	-	-	Empotrado
N1604	3.250	11.050	8.548	-	-	-	-	-	-	Empotrado
N1605	3.250	12.350	8.548	-	-	-	-	-	-	Empotrado
N1606	3.250	13.650	8.548	-	-	-	-	-	-	Empotrado
N1607	3.250	14.950	8.548	-	-	-	-	-	-	Empotrado
N1608	3.250	16.250	8.548	-	-	-	-	-	-	Empotrado
N1609	3.250	17.550	8.548	-	-	-	-	-	-	Empotrado
N1610	3.250	18.850	8.548	-	-	-	-	-	-	Empotrado
N1611	3.250	20.150	8.548	-	-	-	-	-	-	Empotrado
N1612	3.250	21.450	8.548	-	-	-	-	-	-	Empotrado
N1613	3.250	22.750	8.548	-	-	-	-	-	-	Empotrado
N1614	3.250	24.050	8.548	-	-	-	-	-	-	Empotrado
N1615	3.250	25.350	8.548	-	-	-	-	-	-	Empotrado
N1616	3.250	26.650	8.548	-	-	-	-	-	-	Empotrado
N1617	3.250	27.950	8.548	-	-	-	-	-	-	Empotrado
N1618	1.950	0.650	8.613	-	-	-	-	-	-	Empotrado
N1619	1.950	1.950	8.613	-	-	-	-	-	-	Empotrado
N1620	1.950	3.250	8.613	-	-	-	-	-	-	Empotrado
N1621	1.950	4.550	8.613	-	-	-	-	-	-	Empotrado
N1622	1.950	5.850	8.613	-	-	-	-	-	-	Empotrado
N1623	1.950	7.150	8.613	-	-	-	-	-	-	Empotrado
N1624	1.950	8.450	8.613	-	-	-	-	-	-	Empotrado
N1625	1.950	9.750	8.613	-	-	-	-	-	-	Empotrado
N1626	1.950	11.050	8.613	-	-	-	-	-	-	Empotrado
N1627	1.950	12.350	8.613	-	-	-	-	-	-	Empotrado
N1628	1.950	13.650	8.613	-	-	-	-	-	-	Empotrado
N1629	1.950	14.950	8.613	-	-	-	-	-	-	Empotrado
N1630	1.950	16.250	8.613	-	-	-	-	-	-	Empotrado
N1631	1.950	17.550	8.613	-	-	-	-	-	-	Empotrado
N1632	1.950	18.850	8.613	-	-	-	-	-	-	Empotrado
N1633	1.950	20.150	8.613	-	-	-	-	-	-	Empotrado
N1634	1.950	21.450	8.613	-	-	-	-	-	-	Empotrado
N1635	1.950	22.750	8.613	-	-	-	-	-	-	Empotrado
N1636	1.950	24.050	8.613	-	-	-	-	-	-	Empotrado
N1637	1.950	25.350	8.613	-	-	-	-	-	-	Empotrado
N1638	1.950	26.650	8.613	-	-	-	-	-	-	Empotrado
N1639	1.950	27.950	8.613	-	-	-	-	-	-	Empotrado
N1640	0.650	0.650	8.678	-	-	-	-	-	-	Empotrado

Nudos

Referencia	Coordenadas			Vinculación exterior						Vinculación interior
	X (m)	Y (m)	Z (m)	Δ_x	Δ_y	Δ_z	θ_x	θ_y	θ_z	
N1641	0.650	1.950	8.678	-	-	-	-	-	-	Empotrado
N1642	0.650	3.250	8.678	-	-	-	-	-	-	Empotrado
N1643	0.650	4.550	8.678	-	-	-	-	-	-	Empotrado
N1644	0.650	5.850	8.678	-	-	-	-	-	-	Empotrado
N1645	0.650	7.150	8.678	-	-	-	-	-	-	Empotrado
N1646	0.650	8.450	8.678	-	-	-	-	-	-	Empotrado
N1647	0.650	9.750	8.678	-	-	-	-	-	-	Empotrado
N1648	0.650	11.050	8.678	-	-	-	-	-	-	Empotrado
N1649	0.650	12.350	8.678	-	-	-	-	-	-	Empotrado
N1650	0.650	13.650	8.678	-	-	-	-	-	-	Empotrado
N1651	0.650	14.950	8.678	-	-	-	-	-	-	Empotrado
N1652	0.650	16.250	8.678	-	-	-	-	-	-	Empotrado
N1653	0.650	17.550	8.678	-	-	-	-	-	-	Empotrado
N1654	0.650	18.850	8.678	-	-	-	-	-	-	Empotrado
N1655	0.650	20.150	8.678	-	-	-	-	-	-	Empotrado
N1656	0.650	21.450	8.678	-	-	-	-	-	-	Empotrado
N1657	0.650	22.750	8.678	-	-	-	-	-	-	Empotrado
N1658	0.650	24.050	8.678	-	-	-	-	-	-	Empotrado
N1659	0.650	25.350	8.678	-	-	-	-	-	-	Empotrado
N1660	0.650	26.650	8.678	-	-	-	-	-	-	Empotrado
N1661	0.650	27.950	8.678	-	-	-	-	-	-	Empotrado
N1662	6.500	1.300	2.500	-	-	-	-	-	-	Empotrado
N1663	44.200	1.300	2.500	-	-	-	-	-	-	Empotrado
N1664	14.300	1.300	2.500	-	-	-	-	-	-	Empotrado
N1665	22.100	1.300	2.500	-	-	-	-	-	-	Empotrado
N1666	29.900	1.300	2.500	-	-	-	-	-	-	Empotrado
N1667	37.700	1.300	2.500	-	-	-	-	-	-	Empotrado
N1668	44.200	27.300	2.500	-	-	-	-	-	-	Empotrado
N1669	44.200	7.800	2.500	-	-	-	-	-	-	Empotrado
N1670	44.200	14.300	2.500	-	-	-	-	-	-	Empotrado
N1671	44.200	20.800	2.500	-	-	-	-	-	-	Empotrado
N1672	6.500	27.300	2.500	-	-	-	-	-	-	Empotrado
N1673	37.700	27.300	2.500	-	-	-	-	-	-	Empotrado
N1674	29.900	27.300	2.500	-	-	-	-	-	-	Empotrado
N1675	22.100	27.300	2.500	-	-	-	-	-	-	Empotrado
N1676	14.300	27.300	2.500	-	-	-	-	-	-	Empotrado
N1677	6.500	1.300	7.085	-	-	-	-	-	-	Empotrado
N1678	6.500	27.300	7.085	-	-	-	-	-	-	Empotrado
N1679	14.300	27.300	6.695	-	-	-	-	-	-	Empotrado
N1680	22.100	27.300	6.305	-	-	-	-	-	-	Empotrado
N1681	29.900	27.300	5.915	-	-	-	-	-	-	Empotrado
N1682	37.700	27.300	5.525	-	-	-	-	-	-	Empotrado
N1683	44.200	27.300	5.200	-	-	-	-	-	-	Empotrado
N1684	44.200	20.800	5.200	-	-	-	-	-	-	Empotrado
N1685	44.200	14.300	5.200	-	-	-	-	-	-	Empotrado
N1686	44.200	7.800	5.200	-	-	-	-	-	-	Empotrado
N1687	44.200	1.300	5.200	-	-	-	-	-	-	Empotrado
N1688	37.700	1.300	5.525	-	-	-	-	-	-	Empotrado
N1689	29.900	1.300	5.915	-	-	-	-	-	-	Empotrado
N1690	22.100	1.300	6.305	-	-	-	-	-	-	Empotrado
N1691	14.300	1.300	6.695	-	-	-	-	-	-	Empotrado
N1692	0.000	1.300	-1.300	X	X	X	X	X	X	Empotrado
N1693	0.000	1.300	2.500	-	-	-	-	-	-	Empotrado
N1694	0.000	1.300	8.710	-	-	-	-	-	-	Empotrado
N1695	0.000	27.300	-1.300	X	X	X	X	X	X	Empotrado

Nudos										
Referencia	Coordenadas			Vinculación exterior						Vinculación interior
	X (m)	Y (m)	Z (m)	Δ_x	Δ_y	Δ_z	θ_x	θ_y	θ_z	
N1696	0.000	27.300	2.500	-	-	-	-	-	-	Empotrado
N1697	0.000	27.300	8.710	-	-	-	-	-	-	Empotrado
N1698	0.000	7.800	-1.300	X	X	X	X	X	X	Empotrado
N1699	0.000	7.800	2.500	-	-	-	-	-	-	Empotrado
N1700	0.000	7.800	8.710	-	-	-	-	-	-	Empotrado
N1701	0.000	14.300	-1.300	X	X	X	X	X	X	Empotrado
N1702	0.000	14.300	2.500	-	-	-	-	-	-	Empotrado
N1703	0.000	14.300	8.710	-	-	-	-	-	-	Empotrado
N1704	0.000	20.800	-1.300	X	X	X	X	X	X	Empotrado
N1705	0.000	20.800	2.500	-	-	-	-	-	-	Empotrado
N1706	0.000	20.800	8.710	-	-	-	-	-	-	Empotrado
N1707	0.000	1.300	7.410	-	-	-	-	-	-	Empotrado
N1708	0.000	7.800	7.410	-	-	-	-	-	-	Empotrado
N1709	0.000	14.300	7.410	-	-	-	-	-	-	Empotrado
N1710	0.000	20.800	7.410	-	-	-	-	-	-	Empotrado
N1711	0.000	27.300	7.410	-	-	-	-	-	-	Empotrado
N1712	7.150	21.450	8.353	-	-	-	-	-	-	Empotrado
N1713	7.150	20.150	8.353	-	-	-	-	-	-	Empotrado
N1714	5.850	20.150	8.418	-	-	-	-	-	-	Empotrado
N1715	5.850	21.450	8.418	-	-	-	-	-	-	Empotrado
N1716	7.150	14.950	8.353	-	-	-	-	-	-	Empotrado
N1717	7.150	13.650	8.353	-	-	-	-	-	-	Empotrado
N1718	5.850	14.950	8.418	-	-	-	-	-	-	Empotrado
N1719	5.850	13.650	8.418	-	-	-	-	-	-	Empotrado
N1720	7.150	8.450	8.353	-	-	-	-	-	-	Empotrado
N1721	5.850	8.450	8.418	-	-	-	-	-	-	Empotrado
N1722	7.150	7.150	8.353	-	-	-	-	-	-	Empotrado
N1723	5.850	7.150	8.418	-	-	-	-	-	-	Empotrado
N1724	14.300	17.550	7.995	-	-	-	-	-	-	Empotrado
N1725	14.300	18.850	7.995	-	-	-	-	-	-	Empotrado
N1726	14.300	20.150	7.995	-	-	-	-	-	-	Empotrado
N1727	14.300	21.450	7.995	-	-	-	-	-	-	Empotrado
N1728	14.300	22.750	7.995	-	-	-	-	-	-	Empotrado
N1729	14.300	24.050	7.995	-	-	-	-	-	-	Empotrado
N1730	14.300	25.350	7.995	-	-	-	-	-	-	Empotrado
N1731	14.300	26.650	7.995	-	-	-	-	-	-	Empotrado
N1732	14.300	1.950	7.995	-	-	-	-	-	-	Empotrado
N1733	14.300	3.250	7.995	-	-	-	-	-	-	Empotrado
N1734	14.300	4.550	7.995	-	-	-	-	-	-	Empotrado
N1735	14.300	5.850	7.995	-	-	-	-	-	-	Empotrado
N1736	14.300	7.150	7.995	-	-	-	-	-	-	Empotrado
N1737	14.300	8.450	7.995	-	-	-	-	-	-	Empotrado
N1738	14.300	9.750	7.995	-	-	-	-	-	-	Empotrado
N1739	14.300	11.050	7.995	-	-	-	-	-	-	Empotrado
N1740	14.300	12.350	7.995	-	-	-	-	-	-	Empotrado
N1741	14.300	13.650	7.995	-	-	-	-	-	-	Empotrado
N1742	14.300	14.950	7.995	-	-	-	-	-	-	Empotrado
N1743	14.300	16.250	7.995	-	-	-	-	-	-	Empotrado
N1744	14.300	4.550	6.695	-	-	-	-	-	-	Empotrado
N1745	14.300	11.050	6.695	-	-	-	-	-	-	Empotrado
N1746	14.300	17.550	6.695	-	-	-	-	-	-	Empotrado
N1747	14.300	24.050	6.695	-	-	-	-	-	-	Empotrado
N1748	14.300	3.250	6.695	-	-	-	-	-	-	Empotrado
N1749	14.300	1.950	6.695	-	-	-	-	-	-	Empotrado
N1750	14.300	5.850	6.695	-	-	-	-	-	-	Empotrado

Nudos										
Referencia	Coordenadas			Vinculación exterior						Vinculación interior
	X (m)	Y (m)	Z (m)	Δ_x	Δ_y	Δ_z	θ_x	θ_y	θ_z	
N1751	14.300	7.150	6.695	-	-	-	-	-	-	Empotrado
N1752	14.300	8.450	6.695	-	-	-	-	-	-	Empotrado
N1753	14.300	9.750	6.695	-	-	-	-	-	-	Empotrado
N1754	14.300	12.350	6.695	-	-	-	-	-	-	Empotrado
N1755	14.300	13.650	6.695	-	-	-	-	-	-	Empotrado
N1756	14.300	14.950	6.695	-	-	-	-	-	-	Empotrado
N1757	14.300	16.250	6.695	-	-	-	-	-	-	Empotrado
N1758	14.300	18.850	6.695	-	-	-	-	-	-	Empotrado
N1759	14.300	20.150	6.695	-	-	-	-	-	-	Empotrado
N1760	14.300	21.450	6.695	-	-	-	-	-	-	Empotrado
N1761	14.300	22.750	6.695	-	-	-	-	-	-	Empotrado
N1762	14.300	25.350	6.695	-	-	-	-	-	-	Empotrado
N1763	14.300	26.650	6.695	-	-	-	-	-	-	Empotrado
N1764	22.100	3.250	7.605	-	-	-	-	-	-	Empotrado
N1765	22.100	4.550	7.605	-	-	-	-	-	-	Empotrado
N1766	22.100	5.850	7.605	-	-	-	-	-	-	Empotrado
N1767	22.100	7.150	7.605	-	-	-	-	-	-	Empotrado
N1768	22.100	8.450	7.605	-	-	-	-	-	-	Empotrado
N1769	22.100	9.750	7.605	-	-	-	-	-	-	Empotrado
N1770	22.100	4.550	6.305	-	-	-	-	-	-	Empotrado
N1771	22.100	5.850	6.305	-	-	-	-	-	-	Empotrado
N1772	22.100	7.150	6.305	-	-	-	-	-	-	Empotrado
N1773	22.100	8.450	6.305	-	-	-	-	-	-	Empotrado
N1774	22.100	9.750	6.305	-	-	-	-	-	-	Empotrado
N1775	22.100	11.050	6.305	-	-	-	-	-	-	Empotrado
N1776	22.100	1.950	7.605	-	-	-	-	-	-	Empotrado
N1777	22.100	1.950	6.305	-	-	-	-	-	-	Empotrado
N1778	22.100	3.250	6.305	-	-	-	-	-	-	Empotrado
N1779	22.100	11.050	7.605	-	-	-	-	-	-	Empotrado
N1780	22.100	12.350	7.605	-	-	-	-	-	-	Empotrado
N1781	22.100	13.650	7.605	-	-	-	-	-	-	Empotrado
N1782	22.100	14.950	7.605	-	-	-	-	-	-	Empotrado
N1783	22.100	12.350	6.305	-	-	-	-	-	-	Empotrado
N1784	22.100	13.650	6.305	-	-	-	-	-	-	Empotrado
N1785	22.100	14.950	6.305	-	-	-	-	-	-	Empotrado
N1786	22.100	16.250	6.305	-	-	-	-	-	-	Empotrado
N1787	22.100	16.250	7.605	-	-	-	-	-	-	Empotrado
N1788	22.100	17.550	7.605	-	-	-	-	-	-	Empotrado
N1789	22.100	18.850	7.605	-	-	-	-	-	-	Empotrado
N1790	22.100	17.550	6.305	-	-	-	-	-	-	Empotrado
N1791	22.100	18.850	6.305	-	-	-	-	-	-	Empotrado
N1792	22.100	20.150	7.605	-	-	-	-	-	-	Empotrado
N1793	22.100	21.450	7.605	-	-	-	-	-	-	Empotrado
N1794	22.100	20.150	6.305	-	-	-	-	-	-	Empotrado
N1795	22.100	21.450	6.305	-	-	-	-	-	-	Empotrado
N1796	22.100	22.750	6.305	-	-	-	-	-	-	Empotrado
N1797	22.100	22.750	7.605	-	-	-	-	-	-	Empotrado
N1798	22.100	24.050	7.605	-	-	-	-	-	-	Empotrado
N1799	22.100	25.350	7.605	-	-	-	-	-	-	Empotrado
N1800	22.100	24.050	6.305	-	-	-	-	-	-	Empotrado
N1801	22.100	25.350	6.305	-	-	-	-	-	-	Empotrado
N1802	22.100	26.650	6.305	-	-	-	-	-	-	Empotrado
N1803	22.100	26.650	7.605	-	-	-	-	-	-	Empotrado
N1804	29.900	3.250	7.215	-	-	-	-	-	-	Empotrado
N1805	29.900	4.550	7.215	-	-	-	-	-	-	Empotrado

Nudos										
Referencia	Coordenadas			Vinculación exterior						Vinculación interior
	X (m)	Y (m)	Z (m)	Δ_x	Δ_y	Δ_z	θ_x	θ_y	θ_z	
N1806	29.900	5.850	7.215	-	-	-	-	-	-	Empotrado
N1807	29.900	7.150	7.215	-	-	-	-	-	-	Empotrado
N1808	29.900	8.450	7.215	-	-	-	-	-	-	Empotrado
N1809	29.900	9.750	7.215	-	-	-	-	-	-	Empotrado
N1810	29.900	4.550	5.915	-	-	-	-	-	-	Empotrado
N1811	29.900	5.850	5.915	-	-	-	-	-	-	Empotrado
N1812	29.900	7.150	5.915	-	-	-	-	-	-	Empotrado
N1813	29.900	8.450	5.915	-	-	-	-	-	-	Empotrado
N1814	29.900	9.750	5.915	-	-	-	-	-	-	Empotrado
N1815	29.900	11.050	5.915	-	-	-	-	-	-	Empotrado
N1816	29.900	1.950	7.215	-	-	-	-	-	-	Empotrado
N1817	29.900	1.950	5.915	-	-	-	-	-	-	Empotrado
N1818	29.900	3.250	5.915	-	-	-	-	-	-	Empotrado
N1819	29.900	11.050	7.215	-	-	-	-	-	-	Empotrado
N1820	29.900	12.350	7.215	-	-	-	-	-	-	Empotrado
N1821	29.900	13.650	7.215	-	-	-	-	-	-	Empotrado
N1822	29.900	14.950	7.215	-	-	-	-	-	-	Empotrado
N1823	29.900	12.350	5.915	-	-	-	-	-	-	Empotrado
N1824	29.900	13.650	5.915	-	-	-	-	-	-	Empotrado
N1825	29.900	14.950	5.915	-	-	-	-	-	-	Empotrado
N1826	29.900	16.250	5.915	-	-	-	-	-	-	Empotrado
N1827	29.900	16.250	7.215	-	-	-	-	-	-	Empotrado
N1828	29.900	17.550	7.215	-	-	-	-	-	-	Empotrado
N1829	29.900	18.850	7.215	-	-	-	-	-	-	Empotrado
N1830	29.900	17.550	5.915	-	-	-	-	-	-	Empotrado
N1831	29.900	18.850	5.915	-	-	-	-	-	-	Empotrado
N1832	29.900	20.150	7.215	-	-	-	-	-	-	Empotrado
N1833	29.900	21.450	7.215	-	-	-	-	-	-	Empotrado
N1834	29.900	20.150	5.915	-	-	-	-	-	-	Empotrado
N1835	29.900	21.450	5.915	-	-	-	-	-	-	Empotrado
N1836	29.900	22.750	5.915	-	-	-	-	-	-	Empotrado
N1837	29.900	22.750	7.215	-	-	-	-	-	-	Empotrado
N1838	29.900	24.050	7.215	-	-	-	-	-	-	Empotrado
N1839	29.900	25.350	7.215	-	-	-	-	-	-	Empotrado
N1840	29.900	24.050	5.915	-	-	-	-	-	-	Empotrado
N1841	29.900	25.350	5.915	-	-	-	-	-	-	Empotrado
N1842	29.900	26.650	5.915	-	-	-	-	-	-	Empotrado
N1843	29.900	26.650	7.215	-	-	-	-	-	-	Empotrado
N1844	37.700	3.250	6.825	-	-	-	-	-	-	Empotrado
N1845	37.700	4.550	6.825	-	-	-	-	-	-	Empotrado
N1846	37.700	5.850	6.825	-	-	-	-	-	-	Empotrado
N1847	37.700	7.150	6.825	-	-	-	-	-	-	Empotrado
N1848	37.700	8.450	6.825	-	-	-	-	-	-	Empotrado
N1849	37.700	9.750	6.825	-	-	-	-	-	-	Empotrado
N1850	37.700	4.550	5.525	-	-	-	-	-	-	Empotrado
N1851	37.700	5.850	5.525	-	-	-	-	-	-	Empotrado
N1852	37.700	7.150	5.525	-	-	-	-	-	-	Empotrado
N1853	37.700	8.450	5.525	-	-	-	-	-	-	Empotrado
N1854	37.700	9.750	5.525	-	-	-	-	-	-	Empotrado
N1855	37.700	11.050	5.525	-	-	-	-	-	-	Empotrado
N1856	37.700	1.950	6.825	-	-	-	-	-	-	Empotrado
N1857	37.700	1.950	5.525	-	-	-	-	-	-	Empotrado
N1858	37.700	3.250	5.525	-	-	-	-	-	-	Empotrado
N1859	37.700	11.050	6.825	-	-	-	-	-	-	Empotrado
N1860	37.700	12.350	6.825	-	-	-	-	-	-	Empotrado

Nudos										
Referencia	Coordenadas			Vinculación exterior						Vinculación interior
	X (m)	Y (m)	Z (m)	Δ_x	Δ_y	Δ_z	θ_x	θ_y	θ_z	
N1861	37.700	13.650	6.825	-	-	-	-	-	-	Empotrado
N1862	37.700	14.950	6.825	-	-	-	-	-	-	Empotrado
N1863	37.700	12.350	5.525	-	-	-	-	-	-	Empotrado
N1864	37.700	13.650	5.525	-	-	-	-	-	-	Empotrado
N1865	37.700	14.950	5.525	-	-	-	-	-	-	Empotrado
N1866	37.700	16.250	5.525	-	-	-	-	-	-	Empotrado
N1867	37.700	16.250	6.825	-	-	-	-	-	-	Empotrado
N1868	37.700	17.550	6.825	-	-	-	-	-	-	Empotrado
N1869	37.700	18.850	6.825	-	-	-	-	-	-	Empotrado
N1870	37.700	17.550	5.525	-	-	-	-	-	-	Empotrado
N1871	37.700	18.850	5.525	-	-	-	-	-	-	Empotrado
N1872	37.700	20.150	6.825	-	-	-	-	-	-	Empotrado
N1873	37.700	21.450	6.825	-	-	-	-	-	-	Empotrado
N1874	37.700	20.150	5.525	-	-	-	-	-	-	Empotrado
N1875	37.700	21.450	5.525	-	-	-	-	-	-	Empotrado
N1876	37.700	22.750	5.525	-	-	-	-	-	-	Empotrado
N1877	37.700	22.750	6.825	-	-	-	-	-	-	Empotrado
N1878	37.700	24.050	6.825	-	-	-	-	-	-	Empotrado
N1879	37.700	25.350	6.825	-	-	-	-	-	-	Empotrado
N1880	37.700	24.050	5.525	-	-	-	-	-	-	Empotrado
N1881	37.700	25.350	5.525	-	-	-	-	-	-	Empotrado
N1882	37.700	26.650	5.525	-	-	-	-	-	-	Empotrado
N1883	37.700	26.650	6.825	-	-	-	-	-	-	Empotrado
N1884	6.500	3.250	8.385	-	-	-	-	-	-	Empotrado
N1885	6.500	4.550	8.385	-	-	-	-	-	-	Empotrado
N1886	6.500	5.850	8.385	-	-	-	-	-	-	Empotrado
N1887	6.500	7.150	8.385	-	-	-	-	-	-	Empotrado
N1888	6.500	8.450	8.385	-	-	-	-	-	-	Empotrado
N1889	6.500	9.750	8.385	-	-	-	-	-	-	Empotrado
N1890	6.500	4.550	7.085	-	-	-	-	-	-	Empotrado
N1891	6.500	5.850	7.085	-	-	-	-	-	-	Empotrado
N1892	6.500	7.150	7.085	-	-	-	-	-	-	Empotrado
N1893	6.500	8.450	7.085	-	-	-	-	-	-	Empotrado
N1894	6.500	9.750	7.085	-	-	-	-	-	-	Empotrado
N1895	6.500	11.050	7.085	-	-	-	-	-	-	Empotrado
N1896	6.500	1.950	8.385	-	-	-	-	-	-	Empotrado
N1897	6.500	1.950	7.085	-	-	-	-	-	-	Empotrado
N1898	6.500	3.250	7.085	-	-	-	-	-	-	Empotrado
N1899	6.500	11.050	8.385	-	-	-	-	-	-	Empotrado
N1900	6.500	12.350	8.385	-	-	-	-	-	-	Empotrado
N1901	6.500	13.650	8.385	-	-	-	-	-	-	Empotrado
N1902	6.500	14.950	8.385	-	-	-	-	-	-	Empotrado
N1903	6.500	12.350	7.085	-	-	-	-	-	-	Empotrado
N1904	6.500	13.650	7.085	-	-	-	-	-	-	Empotrado
N1905	6.500	14.950	7.085	-	-	-	-	-	-	Empotrado
N1906	6.500	16.250	7.085	-	-	-	-	-	-	Empotrado
N1907	6.500	16.250	8.385	-	-	-	-	-	-	Empotrado
N1908	6.500	17.550	8.385	-	-	-	-	-	-	Empotrado
N1909	6.500	18.850	8.385	-	-	-	-	-	-	Empotrado
N1910	6.500	17.550	7.085	-	-	-	-	-	-	Empotrado
N1911	6.500	18.850	7.085	-	-	-	-	-	-	Empotrado
N1912	6.500	20.150	8.385	-	-	-	-	-	-	Empotrado
N1913	6.500	21.450	8.385	-	-	-	-	-	-	Empotrado
N1914	6.500	20.150	7.085	-	-	-	-	-	-	Empotrado
N1915	6.500	21.450	7.085	-	-	-	-	-	-	Empotrado

Nudos										
Referencia	Coordenadas			Vinculación exterior						Vinculación interior
	X (m)	Y (m)	Z (m)	Δ_x	Δ_y	Δ_z	θ_x	θ_y	θ_z	
N1916	6.500	22.750	7.085	-	-	-	-	-	-	Empotrado
N1917	6.500	22.750	8.385	-	-	-	-	-	-	Empotrado
N1918	6.500	24.050	8.385	-	-	-	-	-	-	Empotrado
N1919	6.500	25.350	8.385	-	-	-	-	-	-	Empotrado
N1920	6.500	24.050	7.085	-	-	-	-	-	-	Empotrado
N1921	6.500	25.350	7.085	-	-	-	-	-	-	Empotrado
N1922	6.500	26.650	7.085	-	-	-	-	-	-	Empotrado
N1923	6.500	26.650	8.385	-	-	-	-	-	-	Empotrado
N1924	22.100	14.300	6.305	-	-	-	-	-	-	Empotrado
N1925	14.300	14.300	6.695	-	-	-	-	-	-	Empotrado
N1926	6.500	14.300	7.085	-	-	-	-	-	-	Empotrado
N1927	29.900	14.300	5.915	-	-	-	-	-	-	Empotrado
N1928	37.700	14.300	5.525	-	-	-	-	-	-	Empotrado

ÍNDICE

1. ESTRUCTURA 2
1.1. Geometría 2
1.1.1. Barras 2

1. ESTRUCTURA

1.1. Geometría

1.1.1. Barras

1.1.1.1. Materiales utilizados

Materiales utilizados

Material		E (MPa)	ν	G (MPa)	f_y (MPa)	α_t (m/m°C)	γ (kN/m³)
Tipo	Designación						
Acero laminado	S275	210000.00	0.300	81000.00	275.00	0.000012	77.01
	S235	210000.00	0.300	81000.00	235.00	0.000012	77.01

Notación:
E: Módulo de elasticidad
ν: Módulo de Poisson
G: Módulo de cortadura
f_y: Límite elástico
α_t: Coeficiente de dilatación
γ: Peso específico

1.1.1.2. Descripción

Descripción

Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
Acero laminado	S275	N1/N1663	N1/N2	SHS 250x8.0 (SHS)	3.800	1.00	1.00	-	-
		N1663/N1687	N1/N2	SHS 250x8.0 (SHS)	2.700	1.00	1.00	-	-
		N1687/N2	N1/N2	SHS 250x8.0 (SHS)	1.300	1.00	1.00	-	-
		N3/N1669	N3/N4	SHS 250x8.0 (SHS)	3.800	1.00	1.00	-	-
		N1669/N1686	N3/N4	SHS 250x8.0 (SHS)	2.700	1.00	1.00	-	-
		N1686/N4	N3/N4	SHS 250x8.0 (SHS)	1.300	1.00	1.00	-	-
		N5/N1670	N5/N6	SHS 250x8.0 (SHS)	3.800	1.00	1.00	-	-
		N1670/N1685	N5/N6	SHS 250x8.0 (SHS)	2.700	1.00	1.00	-	-
		N1685/N6	N5/N6	SHS 250x8.0 (SHS)	1.300	1.00	1.00	-	-
		N7/N1671	N7/N8	SHS 250x8.0 (SHS)	3.800	1.00	1.00	-	-
		N1671/N1684	N7/N8	SHS 250x8.0 (SHS)	2.700	1.00	1.00	-	-
		N1684/N8	N7/N8	SHS 250x8.0 (SHS)	1.300	1.00	1.00	-	-
		N9/N1668	N9/N10	SHS 250x8.0 (SHS)	3.800	1.00	1.00	-	-
		N1668/N1683	N9/N10	SHS 250x8.0 (SHS)	2.700	1.00	1.00	-	-
		N1683/N10	N9/N10	SHS 250x8.0 (SHS)	1.300	1.00	1.00	-	-
		N11/N1662	N11/N12	SHS 250x10.0 (SHS)	3.800	1.00	1.00	-	-
		N1662/N1677	N11/N12	SHS 250x10.0 (SHS)	4.585	1.00	1.00	-	-
		N1677/N12	N11/N12	SHS 250x10.0 (SHS)	1.300	1.00	1.00	-	-
		N13/N1664	N13/N14	SHS 250x10.0 (SHS)	3.800	1.00	1.00	-	-
		N1664/N1691	N13/N14	SHS 250x10.0 (SHS)	4.195	1.00	1.00	-	-
		N1691/N14	N13/N14	SHS 250x10.0 (SHS)	1.300	1.00	1.00	-	-
		N15/N1665	N15/N16	SHS 250x10.0 (SHS)	3.800	1.00	1.00	-	-
		N1665/N1690	N15/N16	SHS 250x10.0 (SHS)	3.805	1.00	1.00	-	-
		N1690/N16	N15/N16	SHS 250x10.0 (SHS)	1.300	1.00	1.00	-	-
		N17/N1666	N17/N18	SHS 250x10.0 (SHS)	3.800	1.00	1.00	-	-
		N1666/N1689	N17/N18	SHS 250x10.0 (SHS)	3.415	1.00	1.00	-	-
		N1689/N18	N17/N18	SHS 250x10.0 (SHS)	1.300	1.00	1.00	-	-
		N19/N1667	N19/N20	SHS 250x10.0 (SHS)	3.800	1.00	1.00	-	-
		N1667/N1688	N19/N20	SHS 250x10.0 (SHS)	3.025	1.00	1.00	-	-
		N1688/N20	N19/N20	SHS 250x10.0 (SHS)	1.300	1.00	1.00	-	-
		N21/N1673	N21/N22	SHS 250x10.0 (SHS)	3.800	1.00	1.00	-	-
		N1673/N1682	N21/N22	SHS 250x10.0 (SHS)	3.025	1.00	1.00	-	-
		N1682/N22	N21/N22	SHS 250x10.0 (SHS)	1.300	1.00	1.00	-	-
		N23/N1674	N23/N24	SHS 250x10.0 (SHS)	3.800	1.00	1.00	-	-
		N1674/N1681	N23/N24	SHS 250x10.0 (SHS)	3.415	1.00	1.00	-	-
		N1681/N24	N23/N24	SHS 250x10.0 (SHS)	1.300	1.00	1.00	-	-
		N25/N1675	N25/N26	SHS 250x10.0 (SHS)	3.800	1.00	1.00	-	-
		N1675/N1680	N25/N26	SHS 250x10.0 (SHS)	3.805	1.00	1.00	-	-

Descripción

Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1680/N26	N25/N26	SHS 250x10.0 (SHS)	1.300	1.00	1.00	-	-
		N27/N1676	N27/N28	SHS 250x10.0 (SHS)	3.800	1.00	1.00	-	-
		N1676/N1679	N27/N28	SHS 250x10.0 (SHS)	4.195	1.00	1.00	-	-
		N1679/N28	N27/N28	SHS 250x10.0 (SHS)	1.300	1.00	1.00	-	-
		N29/N1672	N29/N30	SHS 250x10.0 (SHS)	3.800	1.00	1.00	-	-
		N1672/N1678	N29/N30	SHS 250x10.0 (SHS)	4.585	1.00	1.00	-	-
		N1678/N30	N29/N30	SHS 250x10.0 (SHS)	1.300	1.00	1.00	-	-
		N1663/N1669	N1663/N1668	RHS 140x120x4.0 (RHS)	6.500	1.00	1.00	-	-
		N1669/N1670	N1663/N1668	RHS 140x120x4.0 (RHS)	6.500	1.00	1.00	-	-
		N1670/N1671	N1663/N1668	RHS 140x120x4.0 (RHS)	6.500	1.00	1.00	-	-
		N1671/N1668	N1663/N1668	RHS 140x120x4.0 (RHS)	6.500	1.00	1.00	-	-
		N1677/N1558	N1677/N1558	CHS 80.0x6.0 (CHS)	1.619	1.00	1.00	-	-
		N1677/N1542	N1677/N1542	CHS 80.0x6.0 (CHS)	1.566	1.00	1.00	-	-
		N1677/N1559	N1677/N1559	CHS 80.0x6.0 (CHS)	1.619	1.00	1.00	-	-
		N1677/N1543	N1677/N1543	CHS 80.0x6.0 (CHS)	1.566	1.00	1.00	-	-
		N1691/N1432	N1691/N1432	CHS 80.0x6.0 (CHS)	1.619	1.00	1.00	-	-
		N1691/N1433	N1691/N1433	CHS 80.0x6.0 (CHS)	1.619	1.00	1.00	-	-
		N1691/N1411	N1691/N1411	CHS 80.0x6.0 (CHS)	1.566	1.00	1.00	-	-
		N1691/N1410	N1691/N1410	CHS 80.0x6.0 (CHS)	1.566	1.00	1.00	-	-
		N1678/N1572	N1678/N1572	CHS 80.0x6.0 (CHS)	1.619	1.00	1.00	-	-
		N1678/N1573	N1678/N1573	CHS 80.0x6.0 (CHS)	1.619	1.00	1.00	-	-
		N1678/N1557	N1678/N1557	CHS 80.0x6.0 (CHS)	1.566	1.00	1.00	-	-
		N1678/N1556	N1678/N1556	CHS 80.0x6.0 (CHS)	1.566	1.00	1.00	-	-
		N1679/N1452	N1679/N1452	CHS 80.0x6.0 (CHS)	1.619	1.00	1.00	-	-
		N1679/N1453	N1679/N1453	CHS 80.0x6.0 (CHS)	1.619	1.00	1.00	-	-
		N1679/N1431	N1679/N1431	CHS 80.0x6.0 (CHS)	1.566	1.00	1.00	-	-
		N1679/N1430	N1679/N1430	CHS 80.0x6.0 (CHS)	1.566	1.00	1.00	-	-
		N1680/N1320	N1680/N1320	CHS 80.0x6.0 (CHS)	1.619	1.00	1.00	-	-
		N1680/N1321	N1680/N1321	CHS 80.0x6.0 (CHS)	1.619	1.00	1.00	-	-
		N1680/N1299	N1680/N1299	CHS 80.0x6.0 (CHS)	1.566	1.00	1.00	-	-
		N1680/N1298	N1680/N1298	CHS 80.0x6.0 (CHS)	1.566	1.00	1.00	-	-
		N1681/N1188	N1681/N1188	CHS 80.0x6.0 (CHS)	1.619	1.00	1.00	-	-
		N1681/N1189	N1681/N1189	CHS 80.0x6.0 (CHS)	1.619	1.00	1.00	-	-
		N1681/N1167	N1681/N1167	CHS 80.0x6.0 (CHS)	1.566	1.00	1.00	-	-
		N1681/N1166	N1681/N1166	CHS 80.0x6.0 (CHS)	1.566	1.00	1.00	-	-
		N1682/N1057	N1682/N1057	CHS 80.0x6.0 (CHS)	1.619	1.00	1.00	-	-
		N1682/N1056	N1682/N1056	CHS 80.0x6.0 (CHS)	1.619	1.00	1.00	-	-
		N1682/N1035	N1682/N1035	CHS 80.0x6.0 (CHS)	1.566	1.00	1.00	-	-
		N1682/N1034	N1682/N1034	CHS 80.0x6.0 (CHS)	1.566	1.00	1.00	-	-
		N1683/N946	N1683/N946	CHS 80.0x6.0 (CHS)	1.619	1.00	1.00	-	-
		N1683/N947	N1683/N947	CHS 80.0x6.0 (CHS)	1.619	1.00	1.00	-	-
		N1683/N925	N1683/N925	CHS 80.0x6.0 (CHS)	1.566	1.00	1.00	-	-
		N1683/N924	N1683/N924	CHS 80.0x6.0 (CHS)	1.566	1.00	1.00	-	-
		N1684/N941	N1684/N941	CHS 80.0x6.0 (CHS)	1.619	1.00	1.00	-	-
		N1684/N942	N1684/N942	CHS 80.0x6.0 (CHS)	1.619	1.00	1.00	-	-
		N1684/N920	N1684/N920	CHS 80.0x6.0 (CHS)	1.566	1.00	1.00	-	-
		N1684/N919	N1684/N919	CHS 80.0x6.0 (CHS)	1.566	1.00	1.00	-	-
		N1685/N936	N1685/N936	CHS 80.0x6.0 (CHS)	1.619	1.00	1.00	-	-
		N1685/N937	N1685/N937	CHS 80.0x6.0 (CHS)	1.619	1.00	1.00	-	-
		N1685/N915	N1685/N915	CHS 80.0x6.0 (CHS)	1.566	1.00	1.00	-	-
		N1685/N914	N1685/N914	CHS 80.0x6.0 (CHS)	1.566	1.00	1.00	-	-
		N1686/N931	N1686/N931	CHS 80.0x6.0 (CHS)	1.619	1.00	1.00	-	-
		N1686/N932	N1686/N932	CHS 80.0x6.0 (CHS)	1.619	1.00	1.00	-	-
		N1686/N910	N1686/N910	CHS 80.0x6.0 (CHS)	1.566	1.00	1.00	-	-
		N1686/N909	N1686/N909	CHS 80.0x6.0 (CHS)	1.566	1.00	1.00	-	-
		N1687/N926	N1687/N926	CHS 80.0x6.0 (CHS)	1.619	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1687/N927	N1687/N927	CHS 80.0x6.0 (CHS)	1.619	1.00	1.00	-	-
		N1687/N905	N1687/N905	CHS 80.0x6.0 (CHS)	1.566	1.00	1.00	-	-
		N1687/N904	N1687/N904	CHS 80.0x6.0 (CHS)	1.566	1.00	1.00	-	-
		N1688/N1036	N1688/N1036	CHS 80.0x6.0 (CHS)	1.619	1.00	1.00	-	-
		N1688/N1037	N1688/N1037	CHS 80.0x6.0 (CHS)	1.619	1.00	1.00	-	-
		N1688/N1015	N1688/N1015	CHS 80.0x6.0 (CHS)	1.566	1.00	1.00	-	-
		N1688/N1014	N1688/N1014	CHS 80.0x6.0 (CHS)	1.566	1.00	1.00	-	-
		N1689/N1168	N1689/N1168	CHS 80.0x6.0 (CHS)	1.619	1.00	1.00	-	-
		N1689/N1169	N1689/N1169	CHS 80.0x6.0 (CHS)	1.619	1.00	1.00	-	-
		N1689/N1147	N1689/N1147	CHS 80.0x6.0 (CHS)	1.566	1.00	1.00	-	-
		N1689/N1146	N1689/N1146	CHS 80.0x6.0 (CHS)	1.566	1.00	1.00	-	-
		N1690/N1300	N1690/N1300	CHS 80.0x6.0 (CHS)	1.619	1.00	1.00	-	-
		N1690/N1301	N1690/N1301	CHS 80.0x6.0 (CHS)	1.619	1.00	1.00	-	-
		N1690/N1279	N1690/N1279	CHS 80.0x6.0 (CHS)	1.566	1.00	1.00	-	-
		N1690/N1278	N1690/N1278	CHS 80.0x6.0 (CHS)	1.566	1.00	1.00	-	-
		N1/N1667	N1/N1667	Ø20 (Redondos)	7.529	0.00	0.00	-	-
		N19/N1663	N19/N1663	Ø20 (Redondos)	7.529	0.00	0.00	-	-
		N7/N1668	N7/N1668	Ø20 (Redondos)	7.529	0.00	0.00	-	-
		N9/N1671	N9/N1671	Ø20 (Redondos)	7.529	0.00	0.00	-	-
		N1/N1669	N1/N1669	Ø20 (Redondos)	7.529	0.00	0.00	-	-
		N3/N1663	N3/N1663	Ø20 (Redondos)	7.529	0.00	0.00	-	-
		N9/N1673	N9/N1673	Ø20 (Redondos)	7.529	0.00	0.00	-	-
		N21/N1668	N21/N1668	Ø20 (Redondos)	7.529	0.00	0.00	-	-
		N1692/N1693	N1692/N1694	SHS 250x10.0 (SHS)	3.800	1.00	1.00	-	-
		N1693/N1707	N1692/N1694	SHS 250x10.0 (SHS)	4.910	1.00	1.00	-	-
		N1707/N1694	N1692/N1694	SHS 250x10.0 (SHS)	1.300	1.00	1.00	-	-
		N1695/N1696	N1695/N1697	SHS 250x10.0 (SHS)	3.800	1.00	1.00	-	-
		N1696/N1711	N1695/N1697	SHS 250x10.0 (SHS)	4.910	1.00	1.00	-	-
		N1711/N1697	N1695/N1697	SHS 250x10.0 (SHS)	1.300	1.00	1.00	-	-
		N1698/N1699	N1698/N1700	SHS 250x10.0 (SHS)	3.800	1.00	1.00	-	-
		N1699/N1708	N1698/N1700	SHS 250x10.0 (SHS)	4.910	1.00	1.00	-	-
		N1708/N1700	N1698/N1700	SHS 250x10.0 (SHS)	1.300	1.00	1.00	-	-
		N1701/N1702	N1701/N1703	SHS 250x10.0 (SHS)	3.800	1.00	1.00	-	-
		N1702/N1709	N1701/N1703	SHS 250x10.0 (SHS)	4.910	1.00	1.00	-	-
		N1709/N1703	N1701/N1703	SHS 250x10.0 (SHS)	1.300	1.00	1.00	-	-
		N1704/N1705	N1704/N1706	SHS 250x10.0 (SHS)	3.800	1.00	1.00	-	-
		N1705/N1710	N1704/N1706	SHS 250x10.0 (SHS)	4.910	1.00	1.00	-	-
		N1710/N1706	N1704/N1706	SHS 250x10.0 (SHS)	1.300	1.00	1.00	-	-
		N1693/N1699	N1693/N1696	RHS 140x120x4.0 (RHS)	6.500	1.00	1.00	-	-
		N1699/N1702	N1693/N1696	RHS 140x120x4.0 (RHS)	6.500	1.00	1.00	-	-
		N1702/N1705	N1693/N1696	RHS 140x120x4.0 (RHS)	6.500	1.00	1.00	-	-
		N1705/N1696	N1693/N1696	RHS 140x120x4.0 (RHS)	6.500	1.00	1.00	-	-
		N1696/N1672	N1696/N1668	RHS 140x120x4.0 (RHS)	6.500	1.00	1.00	-	-
		N1672/N1676	N1696/N1668	RHS 140x120x4.0 (RHS)	7.800	1.00	1.00	-	-
		N1676/N1675	N1696/N1668	RHS 140x120x4.0 (RHS)	7.800	1.00	1.00	-	-
		N1675/N1674	N1696/N1668	RHS 140x120x4.0 (RHS)	7.800	1.00	1.00	-	-
		N1674/N1673	N1696/N1668	RHS 140x120x4.0 (RHS)	7.800	1.00	1.00	-	-
		N1673/N1668	N1696/N1668	RHS 140x120x4.0 (RHS)	6.500	1.00	1.00	-	-
		N1693/N1662	N1693/N1663	RHS 140x120x4.0 (RHS)	6.500	1.00	1.00	-	-
		N1662/N1664	N1693/N1663	RHS 140x120x4.0 (RHS)	7.800	1.00	1.00	-	-
		N1664/N1665	N1693/N1663	RHS 140x120x4.0 (RHS)	7.800	1.00	1.00	-	-
		N1665/N1666	N1693/N1663	RHS 140x120x4.0 (RHS)	7.800	1.00	1.00	-	-
		N1666/N1667	N1693/N1663	RHS 140x120x4.0 (RHS)	7.800	1.00	1.00	-	-
		N1667/N1663	N1693/N1663	RHS 140x120x4.0 (RHS)	6.500	1.00	1.00	-	-
		N1692/N1662	N1692/N1662	Ø20 (Redondos)	7.529	0.00	0.00	-	-
		N11/N1693	N11/N1693	Ø20 (Redondos)	7.529	0.00	0.00	-	-

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 13/11/24

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1698/N1693	N1698/N1693	Ø20 (Redondos)	7.529	0.00	0.00	-	-
		N1692/N1699	N1692/N1699	Ø20 (Redondos)	7.529	0.00	0.00	-	-
		N1704/N1696	N1704/N1696	Ø20 (Redondos)	7.529	0.00	0.00	-	-
		N1695/N1705	N1695/N1705	Ø20 (Redondos)	7.529	0.00	0.00	-	-
		N1695/N1672	N1695/N1672	Ø20 (Redondos)	7.529	0.00	0.00	-	-
		N29/N1696	N29/N1696	Ø20 (Redondos)	7.529	0.00	0.00	-	-
		N1711/N1661	N1711/N1661	CHS 80.0x6.0 (CHS)	1.566	1.00	1.00	-	-
		N1711/N1660	N1711/N1660	CHS 80.0x6.0 (CHS)	1.566	1.00	1.00	-	-
		N1710/N1655	N1710/N1655	CHS 80.0x6.0 (CHS)	1.566	1.00	1.00	-	-
		N1710/N1656	N1710/N1656	CHS 80.0x6.0 (CHS)	1.566	1.00	1.00	-	-
		N1709/N1650	N1709/N1650	CHS 80.0x6.0 (CHS)	1.566	1.00	1.00	-	-
		N1709/N1651	N1709/N1651	CHS 80.0x6.0 (CHS)	1.566	1.00	1.00	-	-
		N1708/N1645	N1708/N1645	CHS 80.0x6.0 (CHS)	1.566	1.00	1.00	-	-
		N1708/N1646	N1708/N1646	CHS 80.0x6.0 (CHS)	1.566	1.00	1.00	-	-
		N1707/N1640	N1707/N1640	CHS 80.0x6.0 (CHS)	1.566	1.00	1.00	-	-
		N1707/N1641	N1707/N1641	CHS 80.0x6.0 (CHS)	1.566	1.00	1.00	-	-
		N14/N1732	N14/N28	SHS 140x8.0 (SHS)	0.650	1.00	1.00	-	-
		N1732/N1733	N14/N28	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1733/N1734	N14/N28	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1734/N1735	N14/N28	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1735/N1736	N14/N28	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1736/N1737	N14/N28	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1737/N1738	N14/N28	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1738/N1739	N14/N28	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1739/N1740	N14/N28	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1740/N1741	N14/N28	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1741/N1742	N14/N28	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1742/N1743	N14/N28	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1743/N1724	N14/N28	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1724/N1725	N14/N28	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1725/N1726	N14/N28	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1726/N1727	N14/N28	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1727/N1728	N14/N28	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1728/N1729	N14/N28	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1729/N1730	N14/N28	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1730/N1731	N14/N28	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1731/N28	N14/N28	SHS 140x8.0 (SHS)	0.650	1.00	1.00	-	-
		N1691/N1749	N1691/N1679	SHS 140x8.0 (SHS)	0.650	1.00	1.00	-	-
		N1749/N1748	N1691/N1679	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1748/N1744	N1691/N1679	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1744/N1750	N1691/N1679	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1750/N1751	N1691/N1679	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1751/N1752	N1691/N1679	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1752/N1753	N1691/N1679	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1753/N1745	N1691/N1679	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1745/N1754	N1691/N1679	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1754/N1755	N1691/N1679	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1755/N1925	N1691/N1679	SHS 140x8.0 (SHS)	0.650	1.00	1.00	-	-
		N1925/N1756	N1691/N1679	SHS 140x8.0 (SHS)	0.650	1.00	1.00	-	-
		N1756/N1757	N1691/N1679	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1757/N1746	N1691/N1679	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1746/N1758	N1691/N1679	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1758/N1759	N1691/N1679	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1759/N1760	N1691/N1679	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1760/N1761	N1691/N1679	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1761/N1747	N1691/N1679	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1747/N1762	N1691/N1679	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1762/N1763	N1691/N1679	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1763/N1679	N1691/N1679	SHS 140x8.0 (SHS)	0.650	1.00	1.00	-	-
		N1744/N1734	N1744/N1734	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1745/N1739	N1745/N1739	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1746/N1724	N1746/N1724	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1747/N1729	N1747/N1729	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1744/N1413	N1744/N1413	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1744/N1435	N1744/N1435	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1745/N1440	N1745/N1440	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1746/N1445	N1746/N1445	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1747/N1450	N1747/N1450	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1747/N1428	N1747/N1428	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1748/N1733	N1748/N1733	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1749/N1732	N1749/N1732	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1750/N1735	N1750/N1735	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1751/N1736	N1751/N1736	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1752/N1737	N1752/N1737	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1753/N1738	N1753/N1738	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1754/N1740	N1754/N1740	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1755/N1741	N1755/N1741	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1756/N1742	N1756/N1742	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1757/N1743	N1757/N1743	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1758/N1725	N1758/N1725	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1759/N1726	N1759/N1726	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1760/N1727	N1760/N1727	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1761/N1728	N1761/N1728	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1762/N1730	N1762/N1730	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1763/N1731	N1763/N1731	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1749/N1433	N1749/N1433	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1749/N1411	N1749/N1411	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1748/N1434	N1748/N1434	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1748/N1412	N1748/N1412	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1750/N1436	N1750/N1436	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1750/N1414	N1750/N1414	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1751/N1437	N1751/N1437	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1751/N1415	N1751/N1415	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1752/N1438	N1752/N1438	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1752/N1416	N1752/N1416	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1753/N1439	N1753/N1439	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1753/N1417	N1753/N1417	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1745/N1418	N1745/N1418	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1754/N1441	N1754/N1441	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1754/N1419	N1754/N1419	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1755/N1442	N1755/N1442	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1755/N1420	N1755/N1420	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1756/N1443	N1756/N1443	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1756/N1421	N1756/N1421	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1757/N1444	N1757/N1444	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1757/N1422	N1757/N1422	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1746/N1423	N1746/N1423	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1758/N1446	N1758/N1446	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1758/N1424	N1758/N1424	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1759/N1447	N1759/N1447	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1759/N1425	N1759/N1425	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1760/N1448	N1760/N1448	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 13/11/24

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1760/N1426	N1760/N1426	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1761/N1449	N1761/N1449	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1761/N1427	N1761/N1427	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1762/N1451	N1762/N1451	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1762/N1429	N1762/N1429	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1763/N1452	N1763/N1452	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1763/N1430	N1763/N1430	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N16/N1776	N16/N26	SHS 140x8.0 (SHS)	0.650	1.00	1.00	-	-
		N1776/N1764	N16/N26	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1764/N1765	N16/N26	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1765/N1766	N16/N26	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1766/N1767	N16/N26	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1767/N1768	N16/N26	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1768/N1769	N16/N26	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1769/N1779	N16/N26	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1779/N1780	N16/N26	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1780/N1781	N16/N26	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1781/N1782	N16/N26	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1782/N1787	N16/N26	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1787/N1788	N16/N26	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1788/N1789	N16/N26	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1789/N1792	N16/N26	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1792/N1793	N16/N26	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1793/N1797	N16/N26	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1797/N1798	N16/N26	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1798/N1799	N16/N26	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1799/N1803	N16/N26	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1803/N26	N16/N26	SHS 140x8.0 (SHS)	0.650	1.00	1.00	-	-
		N1690/N1777	N1690/N1680	SHS 140x8.0 (SHS)	0.650	1.00	1.00	-	-
		N1777/N1778	N1690/N1680	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1778/N1770	N1690/N1680	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1770/N1771	N1690/N1680	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1771/N1772	N1690/N1680	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1772/N1773	N1690/N1680	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1773/N1774	N1690/N1680	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1774/N1775	N1690/N1680	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1775/N1783	N1690/N1680	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1783/N1784	N1690/N1680	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1784/N1924	N1690/N1680	SHS 140x8.0 (SHS)	0.650	1.00	1.00	-	-
		N1924/N1785	N1690/N1680	SHS 140x8.0 (SHS)	0.650	1.00	1.00	-	-
		N1785/N1786	N1690/N1680	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1786/N1790	N1690/N1680	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1790/N1791	N1690/N1680	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1791/N1794	N1690/N1680	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1794/N1795	N1690/N1680	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1795/N1796	N1690/N1680	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1796/N1800	N1690/N1680	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1800/N1801	N1690/N1680	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1801/N1802	N1690/N1680	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1802/N1680	N1690/N1680	SHS 140x8.0 (SHS)	0.650	1.00	1.00	-	-
		N1770/N1765	N1770/N1765	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1770/N1281	N1770/N1281	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1770/N1303	N1770/N1303	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1771/N1766	N1771/N1766	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1772/N1767	N1772/N1767	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1773/N1768	N1773/N1768	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1774/N1769	N1774/N1769	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1771/N1304	N1771/N1304	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1771/N1282	N1771/N1282	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1772/N1305	N1772/N1305	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1772/N1283	N1772/N1283	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1773/N1306	N1773/N1306	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1773/N1284	N1773/N1284	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1774/N1307	N1774/N1307	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1774/N1285	N1774/N1285	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1778/N1764	N1778/N1764	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1777/N1279	N1777/N1279	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1778/N1302	N1778/N1302	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1778/N1280	N1778/N1280	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1777/N1776	N1777/N1776	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1777/N1301	N1777/N1301	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1775/N1779	N1775/N1779	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1775/N1308	N1775/N1308	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1783/N1780	N1783/N1780	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1784/N1781	N1784/N1781	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1785/N1782	N1785/N1782	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1775/N1286	N1775/N1286	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1783/N1309	N1783/N1309	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1783/N1287	N1783/N1287	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1784/N1310	N1784/N1310	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1784/N1288	N1784/N1288	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1785/N1311	N1785/N1311	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1785/N1289	N1785/N1289	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1790/N1788	N1790/N1788	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1790/N1313	N1790/N1313	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1786/N1787	N1786/N1787	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1786/N1312	N1786/N1312	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1786/N1290	N1786/N1290	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1790/N1291	N1790/N1291	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1791/N1789	N1791/N1789	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1794/N1792	N1794/N1792	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1795/N1793	N1795/N1793	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1791/N1314	N1791/N1314	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1791/N1292	N1791/N1292	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1794/N1315	N1794/N1315	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1794/N1293	N1794/N1293	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1795/N1316	N1795/N1316	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1795/N1294	N1795/N1294	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1800/N1798	N1800/N1798	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1800/N1318	N1800/N1318	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1800/N1296	N1800/N1296	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1796/N1797	N1796/N1797	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1801/N1799	N1801/N1799	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1796/N1317	N1796/N1317	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1796/N1295	N1796/N1295	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1801/N1319	N1801/N1319	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1802/N1803	N1802/N1803	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1801/N1297	N1801/N1297	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1802/N1320	N1802/N1320	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1802/N1298	N1802/N1298	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N18/N1816	N18/N24	SHS 140x8.0 (SHS)	0.650	1.00	1.00	-	-
		N1816/N1804	N18/N24	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-



Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 13/11/24

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1804/N1805	N18/N24	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1805/N1806	N18/N24	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1806/N1807	N18/N24	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1807/N1808	N18/N24	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1808/N1809	N18/N24	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1809/N1819	N18/N24	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1819/N1820	N18/N24	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1820/N1821	N18/N24	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1821/N1822	N18/N24	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1822/N1827	N18/N24	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1827/N1828	N18/N24	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1828/N1829	N18/N24	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1829/N1832	N18/N24	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1832/N1833	N18/N24	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1833/N1837	N18/N24	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1837/N1838	N18/N24	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1838/N1839	N18/N24	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1839/N1843	N18/N24	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1843/N24	N18/N24	SHS 140x8.0 (SHS)	0.650	1.00	1.00	-	-
		N1689/N1817	N1689/N1681	SHS 140x8.0 (SHS)	0.650	1.00	1.00	-	-
		N1817/N1818	N1689/N1681	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1818/N1810	N1689/N1681	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1810/N1811	N1689/N1681	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1811/N1812	N1689/N1681	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1812/N1813	N1689/N1681	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1813/N1814	N1689/N1681	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1814/N1815	N1689/N1681	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1815/N1823	N1689/N1681	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1823/N1824	N1689/N1681	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1824/N1927	N1689/N1681	SHS 140x8.0 (SHS)	0.650	1.00	1.00	-	-
		N1927/N1825	N1689/N1681	SHS 140x8.0 (SHS)	0.650	1.00	1.00	-	-
		N1825/N1826	N1689/N1681	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1826/N1830	N1689/N1681	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1830/N1831	N1689/N1681	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1831/N1834	N1689/N1681	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1834/N1835	N1689/N1681	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1835/N1836	N1689/N1681	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1836/N1840	N1689/N1681	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1840/N1841	N1689/N1681	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1841/N1842	N1689/N1681	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1842/N1681	N1689/N1681	SHS 140x8.0 (SHS)	0.650	1.00	1.00	-	-
		N1810/N1805	N1810/N1805	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1810/N1149	N1810/N1149	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1810/N1171	N1810/N1171	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1811/N1806	N1811/N1806	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1812/N1807	N1812/N1807	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1813/N1808	N1813/N1808	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1814/N1809	N1814/N1809	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1811/N1172	N1811/N1172	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1811/N1150	N1811/N1150	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1812/N1173	N1812/N1173	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1812/N1151	N1812/N1151	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1813/N1174	N1813/N1174	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1813/N1152	N1813/N1152	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1814/N1175	N1814/N1175	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1814/N1153	N1814/N1153	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1818/N1804	N1818/N1804	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1817/N1147	N1817/N1147	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1818/N1170	N1818/N1170	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1818/N1148	N1818/N1148	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1817/N1816	N1817/N1816	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1817/N1169	N1817/N1169	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1815/N1819	N1815/N1819	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1815/N1176	N1815/N1176	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1823/N1820	N1823/N1820	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1824/N1821	N1824/N1821	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1825/N1822	N1825/N1822	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1815/N1154	N1815/N1154	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1823/N1177	N1823/N1177	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1823/N1155	N1823/N1155	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1824/N1178	N1824/N1178	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1824/N1156	N1824/N1156	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1825/N1179	N1825/N1179	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1825/N1157	N1825/N1157	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1830/N1828	N1830/N1828	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1830/N1181	N1830/N1181	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1826/N1827	N1826/N1827	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1826/N1180	N1826/N1180	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1826/N1158	N1826/N1158	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1830/N1159	N1830/N1159	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1831/N1829	N1831/N1829	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1834/N1832	N1834/N1832	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1835/N1833	N1835/N1833	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1831/N1182	N1831/N1182	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1831/N1160	N1831/N1160	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1834/N1183	N1834/N1183	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1834/N1161	N1834/N1161	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1835/N1184	N1835/N1184	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1835/N1162	N1835/N1162	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1840/N1838	N1840/N1838	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1840/N1186	N1840/N1186	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1840/N1164	N1840/N1164	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1836/N1837	N1836/N1837	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1841/N1839	N1841/N1839	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1836/N1185	N1836/N1185	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1836/N1163	N1836/N1163	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1841/N1187	N1841/N1187	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1842/N1843	N1842/N1843	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1841/N1165	N1841/N1165	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1842/N1188	N1842/N1188	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1842/N1166	N1842/N1166	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N20/N1856	N20/N22	SHS 140x8.0 (SHS)	0.650	1.00	1.00	-	-
		N1856/N1844	N20/N22	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1844/N1845	N20/N22	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1845/N1846	N20/N22	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1846/N1847	N20/N22	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1847/N1848	N20/N22	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1848/N1849	N20/N22	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1849/N1859	N20/N22	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1859/N1860	N20/N22	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1860/N1861	N20/N22	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1861/N1862	N20/N22	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1862/N1867	N20/N22	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1867/N1868	N20/N22	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1868/N1869	N20/N22	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1869/N1872	N20/N22	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1872/N1873	N20/N22	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1873/N1877	N20/N22	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1877/N1878	N20/N22	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1878/N1879	N20/N22	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1879/N1883	N20/N22	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1883/N22	N20/N22	SHS 140x8.0 (SHS)	0.650	1.00	1.00	-	-
		N1688/N1857	N1688/N1682	SHS 140x8.0 (SHS)	0.650	1.00	1.00	-	-
		N1857/N1858	N1688/N1682	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1858/N1850	N1688/N1682	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1850/N1851	N1688/N1682	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1851/N1852	N1688/N1682	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1852/N1853	N1688/N1682	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1853/N1854	N1688/N1682	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1854/N1855	N1688/N1682	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1855/N1863	N1688/N1682	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1863/N1864	N1688/N1682	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1864/N1928	N1688/N1682	SHS 140x8.0 (SHS)	0.650	1.00	1.00	-	-
		N1928/N1865	N1688/N1682	SHS 140x8.0 (SHS)	0.650	1.00	1.00	-	-
		N1865/N1866	N1688/N1682	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1866/N1870	N1688/N1682	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1870/N1871	N1688/N1682	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1871/N1874	N1688/N1682	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1874/N1875	N1688/N1682	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1875/N1876	N1688/N1682	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1876/N1880	N1688/N1682	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1880/N1881	N1688/N1682	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1881/N1882	N1688/N1682	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1882/N1682	N1688/N1682	SHS 140x8.0 (SHS)	0.650	1.00	1.00	-	-
		N1850/N1845	N1850/N1845	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1850/N1017	N1850/N1017	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1850/N1039	N1850/N1039	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1851/N1846	N1851/N1846	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1852/N1847	N1852/N1847	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1853/N1848	N1853/N1848	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1854/N1849	N1854/N1849	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1851/N1040	N1851/N1040	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1851/N1018	N1851/N1018	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1852/N1041	N1852/N1041	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1852/N1019	N1852/N1019	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1853/N1042	N1853/N1042	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1853/N1020	N1853/N1020	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1854/N1043	N1854/N1043	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1854/N1021	N1854/N1021	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1858/N1844	N1858/N1844	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1857/N1015	N1857/N1015	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1858/N1038	N1858/N1038	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1858/N1016	N1858/N1016	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1857/N1856	N1857/N1856	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1857/N1037	N1857/N1037	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1855/N1859	N1855/N1859	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1855/N1044	N1855/N1044	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1863/N1860	N1863/N1860	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1864/N1861	N1864/N1861	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1865/N1862	N1865/N1862	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1855/N1022	N1855/N1022	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1863/N1045	N1863/N1045	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1863/N1023	N1863/N1023	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1864/N1046	N1864/N1046	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1864/N1024	N1864/N1024	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1865/N1047	N1865/N1047	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1865/N1025	N1865/N1025	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1870/N1868	N1870/N1868	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1870/N1049	N1870/N1049	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1866/N1867	N1866/N1867	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1866/N1048	N1866/N1048	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1866/N1026	N1866/N1026	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1870/N1027	N1870/N1027	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1871/N1869	N1871/N1869	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1874/N1872	N1874/N1872	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1875/N1873	N1875/N1873	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1871/N1050	N1871/N1050	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1871/N1028	N1871/N1028	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1874/N1051	N1874/N1051	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1874/N1029	N1874/N1029	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1875/N1052	N1875/N1052	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1875/N1030	N1875/N1030	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1880/N1878	N1880/N1878	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1880/N1054	N1880/N1054	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1880/N1032	N1880/N1032	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1876/N1877	N1876/N1877	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1881/N1879	N1881/N1879	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1876/N1053	N1876/N1053	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1876/N1031	N1876/N1031	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1881/N1055	N1881/N1055	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1882/N1883	N1882/N1883	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1881/N1033	N1881/N1033	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1882/N1056	N1882/N1056	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1882/N1034	N1882/N1034	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N12/N1896	N12/N30	SHS 140x8.0 (SHS)	0.650	1.00	1.00	-	-
		N1896/N1884	N12/N30	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1884/N1885	N12/N30	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1885/N1886	N12/N30	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1886/N1887	N12/N30	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1887/N1888	N12/N30	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1888/N1889	N12/N30	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1889/N1899	N12/N30	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1899/N1900	N12/N30	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1900/N1901	N12/N30	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1901/N1902	N12/N30	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1902/N1907	N12/N30	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1907/N1908	N12/N30	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1908/N1909	N12/N30	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1909/N1912	N12/N30	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1912/N1913	N12/N30	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1913/N1917	N12/N30	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1917/N1918	N12/N30	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1918/N1919	N12/N30	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1919/N1923	N12/N30	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 13/11/24

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1923/N30	N12/N30	SHS 140x8.0 (SHS)	0.650	1.00	1.00	-	-
		N1677/N1897	N1677/N1678	SHS 140x8.0 (SHS)	0.650	1.00	1.00	-	-
		N1897/N1898	N1677/N1678	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1898/N1890	N1677/N1678	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1890/N1891	N1677/N1678	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1891/N1892	N1677/N1678	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1892/N1893	N1677/N1678	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1893/N1894	N1677/N1678	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1894/N1895	N1677/N1678	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1895/N1903	N1677/N1678	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1903/N1904	N1677/N1678	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1904/N1926	N1677/N1678	SHS 140x8.0 (SHS)	0.650	1.00	1.00	-	-
		N1926/N1905	N1677/N1678	SHS 140x8.0 (SHS)	0.650	1.00	1.00	-	-
		N1905/N1906	N1677/N1678	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1906/N1910	N1677/N1678	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1910/N1911	N1677/N1678	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1911/N1914	N1677/N1678	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1914/N1915	N1677/N1678	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1915/N1916	N1677/N1678	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1916/N1920	N1677/N1678	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1920/N1921	N1677/N1678	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1921/N1922	N1677/N1678	SHS 140x8.0 (SHS)	1.300	1.00	1.00	-	-
		N1922/N1678	N1677/N1678	SHS 140x8.0 (SHS)	0.650	1.00	1.00	-	-
		N1890/N1885	N1890/N1885	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1890/N1545	N1890/N1545	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1890/N1561	N1890/N1561	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1891/N1886	N1891/N1886	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1892/N1887	N1892/N1887	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1893/N1888	N1893/N1888	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1894/N1889	N1894/N1889	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1891/N1562	N1891/N1562	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1891/N1546	N1891/N1546	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1892/N1723	N1892/N1723	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1892/N1722	N1892/N1722	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1893/N1721	N1893/N1721	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1893/N1720	N1893/N1720	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1894/N1563	N1894/N1563	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1894/N1547	N1894/N1547	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1898/N1884	N1898/N1884	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1897/N1543	N1897/N1543	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1898/N1560	N1898/N1560	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1898/N1544	N1898/N1544	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1897/N1896	N1897/N1896	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1897/N1559	N1897/N1559	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1895/N1899	N1895/N1899	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1895/N1564	N1895/N1564	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1903/N1900	N1903/N1900	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1904/N1901	N1904/N1901	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1905/N1902	N1905/N1902	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1895/N1548	N1895/N1548	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1903/N1565	N1903/N1565	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1903/N1549	N1903/N1549	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1904/N1719	N1904/N1719	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1904/N1717	N1904/N1717	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1905/N1718	N1905/N1718	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1905/N1716	N1905/N1716	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1910/N1908	N1910/N1908	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1910/N1567	N1910/N1567	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1906/N1907	N1906/N1907	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1906/N1566	N1906/N1566	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1906/N1550	N1906/N1550	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1910/N1551	N1910/N1551	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1911/N1909	N1911/N1909	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1914/N1912	N1914/N1912	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1915/N1913	N1915/N1913	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1911/N1568	N1911/N1568	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1911/N1552	N1911/N1552	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1914/N1714	N1914/N1714	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1914/N1713	N1914/N1713	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1915/N1715	N1915/N1715	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1915/N1712	N1915/N1712	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1920/N1918	N1920/N1918	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1920/N1570	N1920/N1570	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1920/N1554	N1920/N1554	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1916/N1917	N1916/N1917	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1921/N1919	N1921/N1919	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1916/N1569	N1916/N1569	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1916/N1553	N1916/N1553	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1921/N1571	N1921/N1571	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1922/N1923	N1922/N1923	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1921/N1555	N1921/N1555	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1922/N1572	N1922/N1572	CHS 60.0x3.0 (CHS)	1.483	1.00	1.00	-	-
		N1922/N1556	N1922/N1556	CHS 60.0x3.0 (CHS)	1.424	1.00	1.00	-	-
		N1748/N1732	N1748/N1732	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1762/N1731	N1762/N1731	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1744/N1733	N1744/N1733	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1747/N1730	N1747/N1730	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1761/N1729	N1761/N1729	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1750/N1734	N1750/N1734	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1801/N1803	N1801/N1803	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1800/N1799	N1800/N1799	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1796/N1798	N1796/N1798	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1898/N1896	N1898/N1896	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1890/N1884	N1890/N1884	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1891/N1885	N1891/N1885	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1921/N1923	N1921/N1923	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1920/N1919	N1920/N1919	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1916/N1918	N1916/N1918	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1778/N1776	N1778/N1776	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1770/N1764	N1770/N1764	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1771/N1765	N1771/N1765	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1707/N1708	N1707/N1711	RHS 140x120x4.0 (RHS)	6.500	1.00	1.00	-	-
		N1708/N1709	N1707/N1711	RHS 140x120x4.0 (RHS)	6.500	1.00	1.00	-	-
		N1709/N1710	N1707/N1711	RHS 140x120x4.0 (RHS)	6.500	1.00	1.00	-	-
		N1710/N1711	N1707/N1711	RHS 140x120x4.0 (RHS)	6.500	1.00	1.00	-	-
		N1699/N1707	N1699/N1707	Ø20 (Redondos)	8.146	0.00	0.00	-	-
		N1693/N1708	N1693/N1708	Ø20 (Redondos)	8.146	0.00	0.00	-	-
		N1702/N1708	N1702/N1708	Ø20 (Redondos)	8.146	0.00	0.00	-	-
		N1702/N1710	N1702/N1710	Ø20 (Redondos)	8.146	0.00	0.00	-	-
		N1696/N1710	N1696/N1710	Ø20 (Redondos)	8.146	0.00	0.00	-	-
		N1705/N1711	N1705/N1711	Ø20 (Redondos)	8.146	0.00	0.00	-	-
		N1705/N1709	N1705/N1709	Ø20 (Redondos)	8.146	0.00	0.00	-	-

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 13/11/24

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1699/N1709	N1699/N1709	Ø20 (Redondos)	8.146	0.00	0.00	-	-
		N1687/N1686	N1687/N1683	RHS 140x120x4.0 (RHS)	6.500	1.00	1.00	-	-
		N1686/N1685	N1687/N1683	RHS 140x120x4.0 (RHS)	6.500	1.00	1.00	-	-
		N1685/N1684	N1687/N1683	RHS 140x120x4.0 (RHS)	6.500	1.00	1.00	-	-
		N1684/N1683	N1687/N1683	RHS 140x120x4.0 (RHS)	6.500	1.00	1.00	-	-
		N1671/N1683	N1671/N1683	Ø20 (Redondos)	7.038	0.00	0.00	-	-
		N1671/N1685	N1671/N1685	Ø20 (Redondos)	7.038	0.00	0.00	-	-
		N1669/N1685	N1669/N1685	Ø20 (Redondos)	7.038	0.00	0.00	-	-
		N1669/N1687	N1669/N1687	Ø20 (Redondos)	7.038	0.00	0.00	-	-
		N1663/N1686	N1663/N1686	Ø20 (Redondos)	7.038	0.00	0.00	-	-
		N1670/N1686	N1670/N1686	Ø20 (Redondos)	7.038	0.00	0.00	-	-
		N1670/N1684	N1670/N1684	Ø20 (Redondos)	7.038	0.00	0.00	-	-
		N1668/N1684	N1668/N1684	Ø20 (Redondos)	7.038	0.00	0.00	-	-
		N1818/N1816	N1818/N1816	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1810/N1804	N1810/N1804	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1811/N1805	N1811/N1805	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1841/N1843	N1841/N1843	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1840/N1839	N1840/N1839	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1836/N1838	N1836/N1838	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1858/N1856	N1858/N1856	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1850/N1844	N1850/N1844	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1851/N1845	N1851/N1845	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1881/N1883	N1881/N1883	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1880/N1879	N1880/N1879	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1876/N1878	N1876/N1878	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1697/N31	N1697/N31	SHS 80x8.0 (SHS)	1.838	1.00	1.00	-	-
		N1697/N880	N1697/N880	SHS 80x8.0 (SHS)	1.838	1.00	1.00	-	-
		N1706/N877	N1706/N877	SHS 80x8.0 (SHS)	1.838	1.00	1.00	-	-
		N1706/N875	N1706/N875	SHS 80x8.0 (SHS)	1.838	1.00	1.00	-	-
		N1703/N872	N1703/N872	SHS 80x8.0 (SHS)	1.838	1.00	1.00	-	-
		N1703/N870	N1703/N870	SHS 80x8.0 (SHS)	1.838	1.00	1.00	-	-
		N1700/N867	N1700/N867	SHS 80x8.0 (SHS)	1.838	1.00	1.00	-	-
		N1700/N865	N1700/N865	SHS 80x8.0 (SHS)	1.838	1.00	1.00	-	-
		N1694/N34	N1694/N34	SHS 80x8.0 (SHS)	1.838	1.00	1.00	-	-
		N1694/N862	N1694/N862	SHS 80x8.0 (SHS)	1.838	1.00	1.00	-	-
		N1915/N1917	N1915/N1917	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1914/N1913	N1914/N1913	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1911/N1912	N1911/N1912	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1760/N1728	N1760/N1728	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1759/N1727	N1759/N1727	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1758/N1726	N1758/N1726	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1795/N1797	N1795/N1797	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1794/N1793	N1794/N1793	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1791/N1792	N1791/N1792	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1835/N1837	N1835/N1837	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1834/N1833	N1834/N1833	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1831/N1832	N1831/N1832	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1875/N1877	N1875/N1877	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1874/N1873	N1874/N1873	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1871/N1872	N1871/N1872	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1852/N1846	N1852/N1846	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1853/N1847	N1853/N1847	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1854/N1848	N1854/N1848	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1812/N1806	N1812/N1806	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1813/N1807	N1813/N1807	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1814/N1808	N1814/N1808	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1772/N1766	N1772/N1766	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1773/N1767	N1773/N1767	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1774/N1768	N1774/N1768	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1751/N1735	N1751/N1735	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1752/N1736	N1752/N1736	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1753/N1737	N1753/N1737	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1892/N1886	N1892/N1886	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1893/N1887	N1893/N1887	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1894/N1888	N1894/N1888	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1775/N1769	N1775/N1769	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1783/N1779	N1783/N1779	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1790/N1789	N1790/N1789	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1786/N1788	N1786/N1788	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1785/N1787	N1785/N1787	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1784/N1780	N1784/N1780	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1746/N1725	N1746/N1725	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1757/N1724	N1757/N1724	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1756/N1743	N1756/N1743	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1755/N1740	N1755/N1740	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1754/N1739	N1754/N1739	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1745/N1738	N1745/N1738	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1895/N1889	N1895/N1889	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1903/N1899	N1903/N1899	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1904/N1900	N1904/N1900	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1910/N1909	N1910/N1909	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1906/N1908	N1906/N1908	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1905/N1907	N1905/N1907	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1870/N1869	N1870/N1869	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1866/N1868	N1866/N1868	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1865/N1867	N1865/N1867	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1855/N1849	N1855/N1849	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1863/N1859	N1863/N1859	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1864/N1860	N1864/N1860	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1815/N1809	N1815/N1809	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1823/N1819	N1823/N1819	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1824/N1820	N1824/N1820	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1830/N1829	N1830/N1829	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1826/N1828	N1826/N1828	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1825/N1827	N1825/N1827	CHS 60.0x3.0 (CHS)	1.838	1.00	1.00	-	-
		N1777/N16	N1777/N16	CHS 60.0x3.0 (CHS)	1.453	1.00	1.00	-	-
		N1802/N26	N1802/N26	CHS 60.0x3.0 (CHS)	1.453	1.00	1.00	-	-
		N1924/N1781	N1924/N1781	CHS 60.0x3.0 (CHS)	1.453	1.00	1.00	-	-
		N1924/N1782	N1924/N1782	CHS 60.0x3.0 (CHS)	1.453	1.00	1.00	-	-
		N1749/N14	N1749/N14	CHS 60.0x3.0 (CHS)	1.453	1.00	1.00	-	-
		N1925/N1741	N1925/N1741	CHS 60.0x3.0 (CHS)	1.453	1.00	1.00	-	-
		N1925/N1742	N1925/N1742	CHS 60.0x3.0 (CHS)	1.453	1.00	1.00	-	-
		N1763/N28	N1763/N28	CHS 60.0x3.0 (CHS)	1.453	1.00	1.00	-	-
		N1897/N12	N1897/N12	CHS 60.0x3.0 (CHS)	1.453	1.00	1.00	-	-
		N1817/N18	N1817/N18	CHS 60.0x3.0 (CHS)	1.453	1.00	1.00	-	-
		N1857/N20	N1857/N20	CHS 60.0x3.0 (CHS)	1.453	1.00	1.00	-	-
		N1882/N22	N1882/N22	CHS 60.0x3.0 (CHS)	1.453	1.00	1.00	-	-
		N1842/N24	N1842/N24	CHS 60.0x3.0 (CHS)	1.453	1.00	1.00	-	-
		N1922/N30	N1922/N30	CHS 60.0x3.0 (CHS)	1.453	1.00	1.00	-	-
		N1926/N1901	N1926/N1901	CHS 60.0x3.0 (CHS)	1.453	1.00	1.00	-	-
		N1926/N1902	N1926/N1902	CHS 60.0x3.0 (CHS)	1.453	1.00	1.00	-	-
		N1927/N1821	N1927/N1821	CHS 60.0x3.0 (CHS)	1.453	1.00	1.00	-	-

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 13/11/24

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1927/N1822	N1927/N1822	CHS 60.0x3.0 (CHS)	1.453	1.00	1.00	-	-
		N1928/N1861	N1928/N1861	CHS 60.0x3.0 (CHS)	1.453	1.00	1.00	-	-
		N1928/N1862	N1928/N1862	CHS 60.0x3.0 (CHS)	1.453	1.00	1.00	-	-
	S235	N56/N57	N56/N57	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N57/N58	N57/N58	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N58/N59	N58/N59	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N59/N60	N59/N60	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N60/N61	N60/N61	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N61/N62	N61/N62	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N62/N63	N62/N63	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N63/N64	N63/N64	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N64/N65	N64/N65	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N65/N66	N65/N66	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N66/N67	N66/N67	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N67/N68	N67/N68	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N68/N69	N68/N69	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N69/N70	N69/N70	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N70/N71	N70/N71	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N71/N72	N71/N72	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N72/N73	N72/N73	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N73/N74	N73/N74	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N74/N75	N74/N75	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N75/N76	N75/N76	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N76/N77	N76/N77	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N77/N78	N77/N78	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N79/N80	N79/N80	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N80/N81	N80/N81	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N81/N82	N81/N82	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N82/N83	N82/N83	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N83/N84	N83/N84	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N84/N85	N84/N85	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N85/N86	N85/N86	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N86/N87	N86/N87	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N87/N88	N87/N88	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N88/N89	N88/N89	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N89/N90	N89/N90	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N90/N91	N90/N91	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N91/N92	N91/N92	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N92/N93	N92/N93	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N93/N94	N93/N94	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N94/N95	N94/N95	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N95/N96	N95/N96	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N96/N97	N96/N97	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N97/N98	N97/N98	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N98/N99	N98/N99	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N99/N100	N99/N100	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N100/N101	N100/N101	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N102/N103	N102/N103	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N103/N104	N103/N104	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N104/N105	N104/N105	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N105/N106	N105/N106	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N106/N107	N106/N107	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N107/N108	N107/N108	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N108/N109	N108/N109	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N109/N110	N109/N110	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N110/N111	N110/N111	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N111/N112	N111/N112	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N112/N113	N112/N113	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N113/N114	N113/N114	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N114/N115	N114/N115	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N115/N116	N115/N116	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N116/N117	N116/N117	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N117/N118	N117/N118	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N118/N119	N118/N119	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N119/N120	N119/N120	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N120/N121	N120/N121	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N121/N122	N121/N122	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N122/N123	N122/N123	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N123/N124	N123/N124	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N125/N126	N125/N126	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N126/N127	N126/N127	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N127/N128	N127/N128	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N128/N129	N128/N129	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N129/N130	N129/N130	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N130/N131	N130/N131	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N131/N132	N131/N132	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N132/N133	N132/N133	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N133/N134	N133/N134	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N134/N135	N134/N135	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N135/N136	N135/N136	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N136/N137	N136/N137	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N137/N138	N137/N138	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N138/N139	N138/N139	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N139/N140	N139/N140	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N140/N141	N140/N141	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N141/N142	N141/N142	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N142/N143	N142/N143	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N143/N144	N143/N144	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N144/N145	N144/N145	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N145/N146	N145/N146	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N146/N147	N146/N147	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N148/N149	N148/N149	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N149/N150	N149/N150	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N150/N151	N150/N151	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N151/N152	N151/N152	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N152/N153	N152/N153	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N153/N154	N153/N154	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N154/N155	N154/N155	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N155/N156	N155/N156	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N156/N157	N156/N157	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N157/N158	N157/N158	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N158/N159	N158/N159	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N159/N160	N159/N160	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N160/N161	N160/N161	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N161/N162	N161/N162	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N162/N163	N162/N163	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N163/N164	N163/N164	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N164/N165	N164/N165	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N165/N166	N165/N166	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N166/N167	N166/N167	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N167/N168	N167/N168	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N168/N169	N168/N169	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 13/11/24

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N169/N170	N169/N170	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N171/N172	N171/N172	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N172/N173	N172/N173	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N173/N174	N173/N174	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N174/N175	N174/N175	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N175/N176	N175/N176	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N176/N177	N176/N177	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N177/N178	N177/N178	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N178/N179	N178/N179	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N179/N180	N179/N180	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N180/N181	N180/N181	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N181/N182	N181/N182	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N182/N183	N182/N183	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N183/N184	N183/N184	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N184/N185	N184/N185	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N185/N186	N185/N186	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N186/N187	N186/N187	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N187/N188	N187/N188	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N188/N189	N188/N189	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N189/N190	N189/N190	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N190/N191	N190/N191	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N191/N192	N191/N192	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N192/N193	N192/N193	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N194/N195	N194/N195	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N195/N196	N195/N196	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N196/N197	N196/N197	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N197/N198	N197/N198	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N198/N199	N198/N199	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N199/N200	N199/N200	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N200/N201	N200/N201	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N201/N202	N201/N202	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N202/N203	N202/N203	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N203/N204	N203/N204	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N204/N205	N204/N205	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N205/N206	N205/N206	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N206/N207	N206/N207	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N207/N208	N207/N208	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N208/N209	N208/N209	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N209/N210	N209/N210	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N210/N211	N210/N211	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N211/N212	N211/N212	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N212/N213	N212/N213	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N213/N214	N213/N214	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N214/N215	N214/N215	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N215/N216	N215/N216	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N217/N218	N217/N218	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N218/N219	N218/N219	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N219/N220	N219/N220	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N220/N221	N220/N221	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N221/N222	N221/N222	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N222/N223	N222/N223	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N223/N224	N223/N224	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N224/N225	N224/N225	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N225/N226	N225/N226	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N226/N227	N226/N227	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N227/N228	N227/N228	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N228/N229	N228/N229	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N229/N230	N229/N230	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N230/N231	N230/N231	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N231/N232	N231/N232	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N232/N233	N232/N233	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N233/N234	N233/N234	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N234/N235	N234/N235	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N235/N236	N235/N236	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N236/N237	N236/N237	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N237/N238	N237/N238	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N238/N239	N238/N239	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N240/N241	N240/N241	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N241/N242	N241/N242	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N242/N243	N242/N243	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N243/N244	N243/N244	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N244/N245	N244/N245	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N245/N246	N245/N246	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N246/N247	N246/N247	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N247/N248	N247/N248	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N248/N249	N248/N249	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N249/N250	N249/N250	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N250/N251	N250/N251	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N251/N252	N251/N252	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N252/N253	N252/N253	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N253/N254	N253/N254	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N254/N255	N254/N255	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N255/N256	N255/N256	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N256/N257	N256/N257	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N257/N258	N257/N258	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N258/N259	N258/N259	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N259/N260	N259/N260	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N260/N261	N260/N261	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N261/N262	N261/N262	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N263/N264	N263/N264	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N264/N265	N264/N265	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N265/N266	N265/N266	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N266/N267	N266/N267	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N267/N268	N267/N268	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N268/N269	N268/N269	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N269/N270	N269/N270	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N270/N271	N270/N271	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N271/N272	N271/N272	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N272/N273	N272/N273	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N273/N274	N273/N274	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N274/N275	N274/N275	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N275/N276	N275/N276	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N276/N277	N276/N277	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N277/N278	N277/N278	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N278/N279	N278/N279	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N279/N280	N279/N280	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N280/N281	N280/N281	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N281/N282	N281/N282	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N282/N283	N282/N283	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N283/N284	N283/N284	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N284/N285	N284/N285	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N286/N287	N286/N287	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 13/11/24

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N287/N288	N287/N288	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N288/N289	N288/N289	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N289/N290	N289/N290	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N290/N291	N290/N291	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N291/N292	N291/N292	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N292/N293	N292/N293	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N293/N294	N293/N294	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N294/N295	N294/N295	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N295/N296	N295/N296	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N296/N297	N296/N297	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N297/N298	N297/N298	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N298/N299	N298/N299	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N299/N300	N299/N300	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N300/N301	N300/N301	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N301/N302	N301/N302	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N302/N303	N302/N303	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N303/N304	N303/N304	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N304/N305	N304/N305	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N305/N306	N305/N306	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N306/N307	N306/N307	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N307/N308	N307/N308	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N309/N310	N309/N310	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N310/N311	N310/N311	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N311/N312	N311/N312	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N312/N313	N312/N313	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N313/N314	N313/N314	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N314/N315	N314/N315	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N315/N316	N315/N316	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N316/N317	N316/N317	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N317/N318	N317/N318	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N318/N319	N318/N319	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N319/N320	N319/N320	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N320/N321	N320/N321	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N321/N322	N321/N322	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N322/N323	N322/N323	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N323/N324	N323/N324	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N324/N325	N324/N325	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N325/N326	N325/N326	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N326/N327	N326/N327	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N327/N328	N327/N328	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N328/N329	N328/N329	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N329/N330	N329/N330	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N330/N331	N330/N331	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N332/N333	N332/N333	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N333/N334	N333/N334	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N334/N335	N334/N335	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N335/N336	N335/N336	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N336/N337	N336/N337	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N337/N338	N337/N338	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N338/N339	N338/N339	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N339/N340	N339/N340	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N340/N341	N340/N341	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N341/N342	N341/N342	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N342/N343	N342/N343	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N343/N344	N343/N344	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N344/N345	N344/N345	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N345/N346	N345/N346	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N346/N347	N346/N347	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N347/N348	N347/N348	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N348/N349	N348/N349	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N349/N350	N349/N350	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N350/N351	N350/N351	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N351/N352	N351/N352	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N352/N353	N352/N353	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N353/N354	N353/N354	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N355/N356	N355/N356	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N356/N357	N356/N357	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N357/N358	N357/N358	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N358/N359	N358/N359	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N359/N360	N359/N360	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N360/N361	N360/N361	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N361/N362	N361/N362	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N362/N363	N362/N363	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N363/N364	N363/N364	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N364/N365	N364/N365	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N365/N366	N365/N366	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N366/N367	N366/N367	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N367/N368	N367/N368	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N368/N369	N368/N369	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N369/N370	N369/N370	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N370/N371	N370/N371	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N371/N372	N371/N372	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N372/N373	N372/N373	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N373/N374	N373/N374	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N374/N375	N374/N375	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N375/N376	N375/N376	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N376/N377	N376/N377	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N378/N379	N378/N379	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N379/N380	N379/N380	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N380/N381	N380/N381	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N381/N382	N381/N382	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N382/N383	N382/N383	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N383/N384	N383/N384	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N384/N385	N384/N385	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N385/N386	N385/N386	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N386/N387	N386/N387	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N387/N388	N387/N388	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N388/N389	N388/N389	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N389/N390	N389/N390	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N390/N391	N390/N391	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N391/N392	N391/N392	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N392/N393	N392/N393	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N393/N394	N393/N394	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N394/N395	N394/N395	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N395/N396	N395/N396	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N396/N397	N396/N397	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N397/N398	N397/N398	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N398/N399	N398/N399	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N399/N400	N399/N400	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N401/N402	N401/N402	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N402/N403	N402/N403	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N403/N404	N403/N404	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 13/11/24

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N404/N405	N404/N405	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N405/N406	N405/N406	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N406/N407	N406/N407	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N407/N408	N407/N408	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N408/N409	N408/N409	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N409/N410	N409/N410	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N410/N411	N410/N411	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N411/N412	N411/N412	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N412/N413	N412/N413	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N413/N414	N413/N414	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N414/N415	N414/N415	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N415/N416	N415/N416	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N416/N417	N416/N417	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N417/N418	N417/N418	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N418/N419	N418/N419	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N419/N420	N419/N420	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N420/N421	N420/N421	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N421/N422	N421/N422	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N422/N423	N422/N423	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N424/N425	N424/N425	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N425/N426	N425/N426	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N426/N427	N426/N427	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N427/N428	N427/N428	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N428/N429	N428/N429	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N429/N430	N429/N430	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N430/N431	N430/N431	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N431/N432	N431/N432	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N432/N433	N432/N433	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N433/N434	N433/N434	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N434/N435	N434/N435	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N435/N436	N435/N436	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N436/N437	N436/N437	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N437/N438	N437/N438	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N438/N439	N438/N439	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N439/N440	N439/N440	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N440/N441	N440/N441	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N441/N442	N441/N442	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N442/N443	N442/N443	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N443/N444	N443/N444	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N444/N445	N444/N445	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N445/N446	N445/N446	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N447/N448	N447/N448	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N448/N449	N448/N449	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N449/N450	N449/N450	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N450/N451	N450/N451	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N451/N452	N451/N452	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N452/N453	N452/N453	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N453/N454	N453/N454	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N454/N455	N454/N455	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N455/N456	N455/N456	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N456/N457	N456/N457	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N457/N458	N457/N458	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N458/N459	N458/N459	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N459/N460	N459/N460	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N460/N461	N460/N461	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N461/N462	N461/N462	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N462/N463	N462/N463	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N463/N464	N463/N464	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N464/N465	N464/N465	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N465/N466	N465/N466	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N466/N467	N466/N467	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N467/N468	N467/N468	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N468/N469	N468/N469	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N470/N471	N470/N471	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N471/N472	N471/N472	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N472/N473	N472/N473	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N473/N474	N473/N474	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N474/N475	N474/N475	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N475/N476	N475/N476	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N476/N477	N476/N477	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N477/N478	N477/N478	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N478/N479	N478/N479	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N479/N480	N479/N480	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N480/N481	N480/N481	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N481/N482	N481/N482	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N482/N483	N482/N483	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N483/N484	N483/N484	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N484/N485	N484/N485	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N485/N486	N485/N486	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N486/N487	N486/N487	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N487/N488	N487/N488	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N488/N489	N488/N489	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N489/N490	N489/N490	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N490/N491	N490/N491	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N491/N492	N491/N492	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N493/N494	N493/N494	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N494/N495	N494/N495	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N495/N496	N495/N496	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N496/N497	N496/N497	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N497/N498	N497/N498	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N498/N499	N498/N499	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N499/N500	N499/N500	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N500/N501	N500/N501	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N501/N502	N501/N502	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N502/N503	N502/N503	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N503/N504	N503/N504	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N504/N505	N504/N505	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N505/N506	N505/N506	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N506/N507	N506/N507	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N507/N508	N507/N508	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N508/N509	N508/N509	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N509/N510	N509/N510	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N510/N511	N510/N511	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N511/N512	N511/N512	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N512/N513	N512/N513	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N513/N514	N513/N514	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N514/N515	N514/N515	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N516/N517	N516/N517	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N517/N518	N517/N518	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N518/N519	N518/N519	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N519/N520	N519/N520	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N520/N521	N520/N521	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 13/11/24

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N521/N522	N521/N522	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N522/N523	N522/N523	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N523/N524	N523/N524	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N524/N525	N524/N525	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N525/N526	N525/N526	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N526/N527	N526/N527	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N527/N528	N527/N528	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N528/N529	N528/N529	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N529/N530	N529/N530	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N530/N531	N530/N531	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N531/N532	N531/N532	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N532/N533	N532/N533	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N533/N534	N533/N534	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N534/N535	N534/N535	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N535/N536	N535/N536	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N536/N537	N536/N537	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N537/N538	N537/N538	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N539/N540	N539/N540	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N540/N541	N540/N541	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N541/N542	N541/N542	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N542/N543	N542/N543	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N543/N544	N543/N544	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N544/N545	N544/N545	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N545/N546	N545/N546	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N546/N547	N546/N547	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N547/N548	N547/N548	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N548/N549	N548/N549	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N549/N550	N549/N550	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N550/N551	N550/N551	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N551/N552	N551/N552	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N552/N553	N552/N553	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N553/N554	N553/N554	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N554/N555	N554/N555	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N555/N556	N555/N556	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N556/N557	N556/N557	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N557/N558	N557/N558	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N558/N559	N558/N559	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N559/N560	N559/N560	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N560/N561	N560/N561	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N562/N563	N562/N563	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N563/N564	N563/N564	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N564/N565	N564/N565	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N565/N566	N565/N566	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N566/N567	N566/N567	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N567/N568	N567/N568	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N568/N569	N568/N569	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N569/N570	N569/N570	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N570/N571	N570/N571	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N571/N572	N571/N572	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N572/N573	N572/N573	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N573/N574	N573/N574	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N574/N575	N574/N575	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N575/N576	N575/N576	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N576/N577	N576/N577	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N577/N578	N577/N578	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N578/N579	N578/N579	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N579/N580	N579/N580	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N580/N581	N580/N581	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N581/N582	N581/N582	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N582/N583	N582/N583	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N583/N584	N583/N584	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N585/N586	N585/N586	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N586/N587	N586/N587	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N587/N588	N587/N588	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N588/N589	N588/N589	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N589/N590	N589/N590	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N590/N591	N590/N591	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N591/N592	N591/N592	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N592/N593	N592/N593	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N593/N594	N593/N594	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N594/N595	N594/N595	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N595/N596	N595/N596	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N596/N597	N596/N597	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N597/N598	N597/N598	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N598/N599	N598/N599	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N599/N600	N599/N600	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N600/N601	N600/N601	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N601/N602	N601/N602	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N602/N603	N602/N603	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N603/N604	N603/N604	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N604/N605	N604/N605	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N605/N606	N605/N606	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N606/N607	N606/N607	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N608/N609	N608/N609	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N609/N610	N609/N610	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N610/N611	N610/N611	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N611/N612	N611/N612	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N612/N613	N612/N613	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N613/N614	N613/N614	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N614/N615	N614/N615	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N615/N616	N615/N616	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N616/N617	N616/N617	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N617/N618	N617/N618	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N618/N619	N618/N619	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N619/N620	N619/N620	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N620/N621	N620/N621	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N621/N622	N621/N622	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N622/N623	N622/N623	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N623/N624	N623/N624	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N624/N625	N624/N625	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N625/N626	N625/N626	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N626/N627	N626/N627	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N627/N628	N627/N628	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N628/N629	N628/N629	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N629/N630	N629/N630	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N631/N632	N631/N632	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N632/N633	N632/N633	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N633/N634	N633/N634	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N634/N635	N634/N635	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N635/N636	N635/N636	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N636/N637	N636/N637	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N637/N638	N637/N638	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N638/N639	N638/N639	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N639/N640	N639/N640	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N640/N641	N640/N641	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N641/N642	N641/N642	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N642/N643	N642/N643	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N643/N644	N643/N644	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N644/N645	N644/N645	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N645/N646	N645/N646	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N646/N647	N646/N647	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N647/N648	N647/N648	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N648/N649	N648/N649	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N649/N650	N649/N650	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N650/N651	N650/N651	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N651/N652	N651/N652	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N652/N653	N652/N653	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N654/N655	N654/N655	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N655/N656	N655/N656	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N656/N657	N656/N657	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N657/N658	N657/N658	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N658/N659	N658/N659	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N659/N660	N659/N660	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N660/N661	N660/N661	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N661/N662	N661/N662	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N662/N663	N662/N663	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N663/N664	N663/N664	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N664/N665	N664/N665	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N665/N666	N665/N666	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N666/N667	N666/N667	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N667/N668	N667/N668	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N668/N669	N668/N669	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N669/N670	N669/N670	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N670/N671	N670/N671	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N671/N672	N671/N672	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N672/N673	N672/N673	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N673/N674	N673/N674	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N674/N675	N674/N675	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N675/N676	N675/N676	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N677/N678	N677/N678	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N678/N679	N678/N679	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N679/N680	N679/N680	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N680/N681	N680/N681	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N681/N682	N681/N682	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N682/N683	N682/N683	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N683/N684	N683/N684	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N684/N685	N684/N685	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N685/N686	N685/N686	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N686/N687	N686/N687	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N687/N688	N687/N688	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N688/N689	N688/N689	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N689/N690	N689/N690	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N690/N691	N690/N691	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N691/N692	N691/N692	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N692/N693	N692/N693	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N693/N694	N693/N694	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N694/N695	N694/N695	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N695/N696	N695/N696	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N696/N697	N696/N697	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N697/N698	N697/N698	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N698/N699	N698/N699	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N700/N701	N700/N701	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N701/N702	N701/N702	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N702/N703	N702/N703	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N703/N704	N703/N704	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N704/N705	N704/N705	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N705/N706	N705/N706	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N706/N707	N706/N707	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N707/N708	N707/N708	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N708/N709	N708/N709	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N709/N710	N709/N710	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N710/N711	N710/N711	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N711/N712	N711/N712	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N712/N713	N712/N713	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N713/N714	N713/N714	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N714/N715	N714/N715	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N715/N716	N715/N716	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N716/N717	N716/N717	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N717/N718	N717/N718	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N718/N719	N718/N719	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N719/N720	N719/N720	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N720/N721	N720/N721	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N721/N722	N721/N722	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N723/N724	N723/N724	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N724/N725	N724/N725	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N725/N726	N725/N726	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N726/N727	N726/N727	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N727/N728	N727/N728	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N728/N729	N728/N729	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N729/N730	N729/N730	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N730/N731	N730/N731	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N731/N732	N731/N732	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N732/N733	N732/N733	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N733/N734	N733/N734	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N734/N735	N734/N735	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N735/N736	N735/N736	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N736/N737	N736/N737	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N737/N738	N737/N738	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N738/N739	N738/N739	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N739/N740	N739/N740	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N740/N741	N740/N741	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N741/N742	N741/N742	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N742/N743	N742/N743	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N743/N744	N743/N744	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N744/N745	N744/N745	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N746/N747	N746/N747	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N747/N748	N747/N748	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N748/N749	N748/N749	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N749/N750	N749/N750	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N750/N751	N750/N751	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N751/N752	N751/N752	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N752/N753	N752/N753	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N753/N754	N753/N754	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N754/N755	N754/N755	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-



Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 13/11/24

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N755/N756	N755/N756	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N756/N757	N756/N757	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N757/N758	N757/N758	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N758/N759	N758/N759	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N759/N760	N759/N760	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N760/N761	N760/N761	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N761/N762	N761/N762	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N762/N763	N762/N763	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N763/N764	N763/N764	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N764/N765	N764/N765	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N765/N766	N765/N766	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N766/N767	N766/N767	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N767/N768	N767/N768	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N769/N770	N769/N770	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N770/N771	N770/N771	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N771/N772	N771/N772	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N772/N773	N772/N773	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N773/N774	N773/N774	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N774/N775	N774/N775	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N775/N776	N775/N776	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N776/N777	N776/N777	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N777/N778	N777/N778	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N778/N779	N778/N779	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N779/N780	N779/N780	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N780/N781	N780/N781	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N781/N782	N781/N782	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N782/N783	N782/N783	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N783/N784	N783/N784	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N784/N785	N784/N785	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N785/N786	N785/N786	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N786/N787	N786/N787	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N787/N788	N787/N788	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N788/N789	N788/N789	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N789/N790	N789/N790	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N790/N791	N790/N791	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N792/N793	N792/N793	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N793/N794	N793/N794	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N794/N795	N794/N795	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N795/N796	N795/N796	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N796/N797	N796/N797	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N797/N798	N797/N798	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N798/N799	N798/N799	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N799/N800	N799/N800	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N800/N801	N800/N801	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N801/N802	N801/N802	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N802/N803	N802/N803	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N803/N804	N803/N804	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N804/N805	N804/N805	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N805/N806	N805/N806	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N806/N807	N806/N807	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N807/N808	N807/N808	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N808/N809	N808/N809	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N809/N810	N809/N810	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N810/N811	N810/N811	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N811/N812	N811/N812	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N812/N813	N812/N813	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N813/N814	N813/N814	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N815/N816	N815/N816	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N816/N817	N816/N817	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N817/N818	N817/N818	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N818/N819	N818/N819	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N819/N820	N819/N820	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N820/N821	N820/N821	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N821/N822	N821/N822	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N822/N823	N822/N823	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N823/N824	N823/N824	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N824/N825	N824/N825	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N825/N826	N825/N826	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N826/N827	N826/N827	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N827/N828	N827/N828	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N828/N829	N828/N829	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N829/N830	N829/N830	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N830/N831	N830/N831	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N831/N832	N831/N832	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N832/N833	N832/N833	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N833/N834	N833/N834	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N834/N835	N834/N835	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N835/N836	N835/N836	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N836/N837	N836/N837	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N838/N839	N838/N839	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N839/N840	N839/N840	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N840/N841	N840/N841	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N841/N842	N841/N842	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N842/N843	N842/N843	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N843/N844	N843/N844	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N844/N845	N844/N845	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N845/N846	N845/N846	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N846/N847	N846/N847	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N847/N848	N847/N848	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N848/N849	N848/N849	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N849/N850	N849/N850	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N850/N851	N850/N851	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N851/N852	N851/N852	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N852/N853	N852/N853	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N853/N854	N853/N854	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N854/N855	N854/N855	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N855/N856	N855/N856	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N856/N857	N856/N857	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N857/N858	N857/N858	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N858/N859	N858/N859	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N859/N860	N859/N860	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N55/N77	N55/N77	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N77/N100	N77/N100	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N100/N123	N100/N123	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N123/N146	N123/N146	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N146/N169	N146/N169	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N169/N192	N169/N192	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N192/N215	N192/N215	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N215/N238	N215/N238	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N238/N261	N238/N261	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N261/N284	N261/N284	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N284/N307	N284/N307	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 13/11/24

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N307/N330	N307/N330	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N330/N353	N330/N353	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N353/N376	N353/N376	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N376/N399	N376/N399	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N399/N422	N399/N422	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N422/N445	N422/N445	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N445/N468	N445/N468	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N468/N491	N468/N491	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N491/N514	N491/N514	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N514/N537	N514/N537	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N537/N560	N537/N560	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N560/N583	N560/N583	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N583/N606	N583/N606	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N606/N629	N606/N629	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N629/N652	N629/N652	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N652/N675	N652/N675	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N675/N698	N675/N698	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N698/N721	N698/N721	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N721/N744	N721/N744	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N744/N767	N744/N767	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N767/N790	N767/N790	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N790/N813	N790/N813	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N813/N836	N813/N836	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N836/N859	N836/N859	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N859/N881	N859/N881	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N54/N76	N54/N76	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N76/N99	N76/N99	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N99/N122	N99/N122	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N122/N145	N122/N145	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N145/N168	N145/N168	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N168/N191	N168/N191	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N191/N214	N191/N214	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N214/N237	N214/N237	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N237/N260	N237/N260	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N260/N283	N260/N283	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N283/N306	N283/N306	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N306/N329	N306/N329	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N329/N352	N329/N352	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N352/N375	N352/N375	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N375/N398	N375/N398	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N398/N421	N398/N421	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N421/N444	N421/N444	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N444/N467	N444/N467	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N467/N490	N467/N490	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N490/N513	N490/N513	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N513/N536	N513/N536	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N536/N559	N536/N559	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N559/N582	N559/N582	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N582/N605	N582/N605	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N605/N628	N605/N628	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N628/N651	N628/N651	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N651/N674	N651/N674	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N674/N697	N674/N697	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N697/N720	N697/N720	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N720/N743	N720/N743	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N743/N766	N743/N766	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N766/N789	N766/N789	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N789/N812	N789/N812	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N812/N835	N812/N835	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N835/N858	N835/N858	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N858/N880	N858/N880	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N53/N75	N53/N75	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N75/N98	N75/N98	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N98/N121	N98/N121	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N121/N144	N121/N144	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N144/N167	N144/N167	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N167/N190	N167/N190	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N190/N213	N190/N213	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N213/N236	N213/N236	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N236/N259	N236/N259	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N259/N282	N259/N282	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N282/N305	N282/N305	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N305/N328	N305/N328	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N328/N351	N328/N351	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N351/N374	N351/N374	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N374/N397	N374/N397	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N397/N420	N397/N420	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N420/N443	N420/N443	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N443/N466	N443/N466	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N466/N489	N466/N489	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N489/N512	N489/N512	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N512/N535	N512/N535	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N535/N558	N535/N558	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N558/N581	N558/N581	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N581/N604	N581/N604	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N604/N627	N604/N627	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N627/N650	N627/N650	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N650/N673	N650/N673	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N673/N696	N673/N696	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N696/N719	N696/N719	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N719/N742	N719/N742	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N742/N765	N742/N765	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N765/N788	N765/N788	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N788/N811	N788/N811	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N811/N834	N811/N834	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N834/N857	N834/N857	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N857/N879	N857/N879	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N52/N74	N52/N74	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N74/N97	N74/N97	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N97/N120	N97/N120	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N120/N143	N120/N143	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N143/N166	N143/N166	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N166/N189	N166/N189	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N189/N212	N189/N212	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N212/N235	N212/N235	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N235/N258	N235/N258	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N258/N281	N258/N281	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N281/N304	N281/N304	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N304/N327	N304/N327	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N327/N350	N327/N350	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N350/N373	N350/N373	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N373/N396	N373/N396	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 13/11/24

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N396/N419	N396/N419	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N419/N442	N419/N442	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N442/N465	N442/N465	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N465/N488	N465/N488	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N488/N511	N488/N511	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N511/N534	N511/N534	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N534/N557	N534/N557	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N557/N580	N557/N580	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N580/N603	N580/N603	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N603/N626	N603/N626	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N626/N649	N626/N649	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N649/N672	N649/N672	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N672/N695	N672/N695	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N695/N718	N695/N718	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N718/N741	N718/N741	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N741/N764	N741/N764	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N764/N787	N764/N787	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N787/N810	N787/N810	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N810/N833	N810/N833	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N833/N856	N833/N856	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N856/N878	N856/N878	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N51/N73	N51/N73	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N73/N96	N73/N96	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N96/N119	N96/N119	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N119/N142	N119/N142	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N142/N165	N142/N165	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N165/N188	N165/N188	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N188/N211	N188/N211	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N211/N234	N211/N234	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N234/N257	N234/N257	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N257/N280	N257/N280	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N280/N303	N280/N303	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N303/N326	N303/N326	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N326/N349	N326/N349	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N349/N372	N349/N372	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N372/N395	N372/N395	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N395/N418	N395/N418	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N418/N441	N418/N441	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N441/N464	N441/N464	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N464/N487	N464/N487	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N487/N510	N487/N510	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N510/N533	N510/N533	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N533/N556	N533/N556	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N556/N579	N556/N579	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N579/N602	N579/N602	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N602/N625	N602/N625	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N625/N648	N625/N648	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N648/N671	N648/N671	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N671/N694	N671/N694	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N694/N717	N694/N717	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N717/N740	N717/N740	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N740/N763	N740/N763	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N763/N786	N763/N786	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N786/N809	N786/N809	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N809/N832	N809/N832	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N832/N855	N832/N855	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N855/N877	N855/N877	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N50/N72	N50/N72	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N72/N95	N72/N95	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N95/N118	N95/N118	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N118/N141	N118/N141	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N141/N164	N141/N164	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N164/N187	N164/N187	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N187/N210	N187/N210	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N210/N233	N210/N233	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N233/N256	N233/N256	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N256/N279	N256/N279	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N279/N302	N279/N302	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N302/N325	N302/N325	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N325/N348	N325/N348	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N348/N371	N348/N371	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N371/N394	N371/N394	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N394/N417	N394/N417	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N417/N440	N417/N440	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N440/N463	N440/N463	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N463/N486	N463/N486	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N486/N509	N486/N509	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N509/N532	N509/N532	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N532/N555	N532/N555	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N555/N578	N555/N578	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N578/N601	N578/N601	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N601/N624	N601/N624	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N624/N647	N624/N647	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N647/N670	N647/N670	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N670/N693	N670/N693	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N693/N716	N693/N716	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N716/N739	N716/N739	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N739/N762	N739/N762	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N762/N785	N762/N785	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N785/N808	N785/N808	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N808/N831	N808/N831	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N831/N854	N831/N854	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N854/N876	N854/N876	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N49/N71	N49/N71	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N71/N94	N71/N94	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N94/N117	N94/N117	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N117/N140	N117/N140	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N140/N163	N140/N163	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N163/N186	N163/N186	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N186/N209	N186/N209	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N209/N232	N209/N232	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N232/N255	N232/N255	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N255/N278	N255/N278	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N278/N301	N278/N301	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N301/N324	N301/N324	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N324/N347	N324/N347	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N347/N370	N347/N370	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N370/N393	N370/N393	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N393/N416	N393/N416	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N416/N439	N416/N439	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N439/N462	N439/N462	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N462/N485	N462/N485	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 13/11/24

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N485/N508	N485/N508	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N508/N531	N508/N531	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N531/N554	N531/N554	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N554/N577	N554/N577	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N577/N600	N577/N600	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N600/N623	N600/N623	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N623/N646	N623/N646	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N646/N669	N646/N669	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N669/N692	N669/N692	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N692/N715	N692/N715	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N715/N738	N715/N738	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N738/N761	N738/N761	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N761/N784	N761/N784	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N784/N807	N784/N807	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N807/N830	N807/N830	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N830/N853	N830/N853	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N853/N875	N853/N875	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N48/N70	N48/N70	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N70/N93	N70/N93	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N93/N116	N93/N116	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N116/N139	N116/N139	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N139/N162	N139/N162	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N162/N185	N162/N185	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N185/N208	N185/N208	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N208/N231	N208/N231	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N231/N254	N231/N254	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N254/N277	N254/N277	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N277/N300	N277/N300	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N300/N323	N300/N323	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N323/N346	N323/N346	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N346/N369	N346/N369	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N369/N392	N369/N392	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N392/N415	N392/N415	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N415/N438	N415/N438	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N438/N461	N438/N461	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N461/N484	N461/N484	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N484/N507	N484/N507	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N507/N530	N507/N530	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N530/N553	N530/N553	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N553/N576	N553/N576	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N576/N599	N576/N599	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N599/N622	N599/N622	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N622/N645	N622/N645	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N645/N668	N645/N668	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N668/N691	N668/N691	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N691/N714	N691/N714	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N714/N737	N714/N737	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N737/N760	N737/N760	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N760/N783	N760/N783	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N783/N806	N783/N806	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N806/N829	N806/N829	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N829/N852	N829/N852	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N852/N874	N852/N874	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N47/N69	N47/N69	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N69/N92	N69/N92	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N92/N115	N92/N115	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N115/N138	N115/N138	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N138/N161	N138/N161	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N161/N184	N161/N184	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N184/N207	N184/N207	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N207/N230	N207/N230	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N230/N253	N230/N253	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N253/N276	N253/N276	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N276/N299	N276/N299	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N299/N322	N299/N322	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N322/N345	N322/N345	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N345/N368	N345/N368	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N368/N391	N368/N391	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N391/N414	N391/N414	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N414/N437	N414/N437	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N437/N460	N437/N460	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N460/N483	N460/N483	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N483/N506	N483/N506	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N506/N529	N506/N529	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N529/N552	N529/N552	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N552/N575	N552/N575	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N575/N598	N575/N598	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N598/N621	N598/N621	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N621/N644	N621/N644	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N644/N667	N644/N667	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N667/N690	N667/N690	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N690/N713	N690/N713	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N713/N736	N713/N736	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N736/N759	N736/N759	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N759/N782	N759/N782	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N782/N805	N782/N805	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N805/N828	N805/N828	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N828/N851	N828/N851	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N851/N873	N851/N873	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N46/N68	N46/N68	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N68/N91	N68/N91	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N91/N114	N91/N114	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N114/N137	N114/N137	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N137/N160	N137/N160	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N160/N183	N160/N183	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N183/N206	N183/N206	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N206/N229	N206/N229	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N229/N252	N229/N252	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N252/N275	N252/N275	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N275/N298	N275/N298	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N298/N321	N298/N321	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N321/N344	N321/N344	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N344/N367	N344/N367	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N367/N390	N367/N390	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N390/N413	N390/N413	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N413/N436	N413/N436	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N436/N459	N436/N459	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N459/N482	N459/N482	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N482/N505	N482/N505	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N505/N528	N505/N528	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N528/N551	N528/N551	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N551/N574	N551/N574	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N574/N597	N574/N597	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N597/N620	N597/N620	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N620/N643	N620/N643	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N643/N666	N643/N666	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N666/N689	N666/N689	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N689/N712	N689/N712	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N712/N735	N712/N735	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N735/N758	N735/N758	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N758/N781	N758/N781	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N781/N804	N781/N804	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N804/N827	N804/N827	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N827/N850	N827/N850	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N850/N872	N850/N872	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N45/N67	N45/N67	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N67/N90	N67/N90	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N90/N113	N90/N113	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N113/N136	N113/N136	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N136/N159	N136/N159	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N159/N182	N159/N182	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N182/N205	N182/N205	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N205/N228	N205/N228	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N228/N251	N228/N251	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N251/N274	N251/N274	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N274/N297	N274/N297	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N297/N320	N297/N320	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N320/N343	N320/N343	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N343/N366	N343/N366	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N366/N389	N366/N389	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N389/N412	N389/N412	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N412/N435	N412/N435	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N435/N458	N435/N458	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N458/N481	N458/N481	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N481/N504	N481/N504	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N504/N527	N504/N527	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N527/N550	N527/N550	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N550/N573	N550/N573	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N573/N596	N573/N596	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N596/N619	N596/N619	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N619/N642	N619/N642	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N642/N665	N642/N665	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N665/N688	N665/N688	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N688/N711	N688/N711	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N711/N734	N711/N734	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N734/N757	N734/N757	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N757/N780	N757/N780	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N780/N803	N780/N803	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N803/N826	N803/N826	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N826/N849	N826/N849	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N849/N871	N849/N871	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N44/N66	N44/N66	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N66/N89	N66/N89	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N89/N112	N89/N112	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N112/N135	N112/N135	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N135/N158	N135/N158	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N158/N181	N158/N181	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N181/N204	N181/N204	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N204/N227	N204/N227	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N227/N250	N227/N250	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N250/N273	N250/N273	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N273/N296	N273/N296	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N296/N319	N296/N319	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N319/N342	N319/N342	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N342/N365	N342/N365	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N365/N388	N365/N388	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N388/N411	N388/N411	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N411/N434	N411/N434	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N434/N457	N434/N457	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N457/N480	N457/N480	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N480/N503	N480/N503	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N503/N526	N503/N526	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N526/N549	N526/N549	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N549/N572	N549/N572	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N572/N595	N572/N595	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N595/N618	N595/N618	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N618/N641	N618/N641	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N641/N664	N641/N664	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N664/N687	N664/N687	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N687/N710	N687/N710	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N710/N733	N710/N733	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N733/N756	N733/N756	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N756/N779	N756/N779	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N779/N802	N779/N802	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N802/N825	N802/N825	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N825/N848	N825/N848	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N848/N870	N848/N870	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N43/N65	N43/N65	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N65/N88	N65/N88	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N88/N111	N88/N111	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N111/N134	N111/N134	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N134/N157	N134/N157	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N157/N180	N157/N180	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N180/N203	N180/N203	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N203/N226	N203/N226	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N226/N249	N226/N249	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N249/N272	N249/N272	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N272/N295	N272/N295	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N295/N318	N295/N318	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N318/N341	N318/N341	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N341/N364	N341/N364	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N364/N387	N364/N387	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N387/N410	N387/N410	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N410/N433	N410/N433	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N433/N456	N433/N456	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N456/N479	N456/N479	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N479/N502	N479/N502	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N502/N525	N502/N525	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N525/N548	N525/N548	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N548/N571	N548/N571	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N571/N594	N571/N594	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N594/N617	N594/N617	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N617/N640	N617/N640	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N640/N663	N640/N663	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 13/11/24

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N663/N686	N663/N686	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N686/N709	N686/N709	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N709/N732	N709/N732	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N732/N755	N732/N755	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N755/N778	N755/N778	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N778/N801	N778/N801	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N801/N824	N801/N824	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N824/N847	N824/N847	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N847/N869	N847/N869	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N42/N64	N42/N64	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N64/N87	N64/N87	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N87/N110	N87/N110	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N110/N133	N110/N133	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N133/N156	N133/N156	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N156/N179	N156/N179	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N179/N202	N179/N202	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N202/N225	N202/N225	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N225/N248	N225/N248	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N248/N271	N248/N271	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N271/N294	N271/N294	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N294/N317	N294/N317	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N317/N340	N317/N340	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N340/N363	N340/N363	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N363/N386	N363/N386	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N386/N409	N386/N409	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N409/N432	N409/N432	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N432/N455	N432/N455	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N455/N478	N455/N478	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N478/N501	N478/N501	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N501/N524	N501/N524	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N524/N547	N524/N547	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N547/N570	N547/N570	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N570/N593	N570/N593	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N593/N616	N593/N616	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N616/N639	N616/N639	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N639/N662	N639/N662	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N662/N685	N662/N685	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N685/N708	N685/N708	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N708/N731	N708/N731	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N731/N754	N731/N754	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N754/N777	N754/N777	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N777/N800	N777/N800	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N800/N823	N800/N823	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N823/N846	N823/N846	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N846/N868	N846/N868	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N41/N63	N41/N63	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N63/N86	N63/N86	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N86/N109	N86/N109	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N109/N132	N109/N132	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N132/N155	N132/N155	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N155/N178	N155/N178	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N178/N201	N178/N201	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N201/N224	N201/N224	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N224/N247	N224/N247	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N247/N270	N247/N270	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N270/N293	N270/N293	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N293/N316	N293/N316	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N316/N339	N316/N339	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N339/N362	N339/N362	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N362/N385	N362/N385	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N385/N408	N385/N408	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N408/N431	N408/N431	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N431/N454	N431/N454	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N454/N477	N454/N477	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N477/N500	N477/N500	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N500/N523	N500/N523	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N523/N546	N523/N546	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N546/N569	N546/N569	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N569/N592	N569/N592	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N592/N615	N592/N615	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N615/N638	N615/N638	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N638/N661	N638/N661	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N661/N684	N661/N684	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N684/N707	N684/N707	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N707/N730	N707/N730	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N730/N753	N730/N753	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N753/N776	N753/N776	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N776/N799	N776/N799	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N799/N822	N799/N822	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N822/N845	N822/N845	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N845/N867	N845/N867	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N40/N62	N40/N62	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N62/N85	N62/N85	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N85/N108	N85/N108	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N108/N131	N108/N131	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N131/N154	N131/N154	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N154/N177	N154/N177	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N177/N200	N177/N200	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N200/N223	N200/N223	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N223/N246	N223/N246	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N246/N269	N246/N269	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N269/N292	N269/N292	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N292/N315	N292/N315	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N315/N338	N315/N338	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N338/N361	N338/N361	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N361/N384	N361/N384	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N384/N407	N384/N407	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N407/N430	N407/N430	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N430/N453	N430/N453	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N453/N476	N453/N476	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N476/N499	N476/N499	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N499/N522	N499/N522	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N522/N545	N522/N545	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N545/N568	N545/N568	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N568/N591	N568/N591	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N591/N614	N591/N614	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N614/N637	N614/N637	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N637/N660	N637/N660	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N660/N683	N660/N683	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N683/N706	N683/N706	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N706/N729	N706/N729	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N729/N752	N729/N752	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 13/11/24

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N752/N775	N752/N775	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N775/N798	N775/N798	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N798/N821	N798/N821	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N821/N844	N821/N844	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N844/N866	N844/N866	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N39/N61	N39/N61	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N61/N84	N61/N84	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N84/N107	N84/N107	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N107/N130	N107/N130	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N130/N153	N130/N153	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N153/N176	N153/N176	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N176/N199	N176/N199	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N199/N222	N199/N222	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N222/N245	N222/N245	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N245/N268	N245/N268	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N268/N291	N268/N291	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N291/N314	N291/N314	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N314/N337	N314/N337	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N337/N360	N337/N360	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N360/N383	N360/N383	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N383/N406	N383/N406	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N406/N429	N406/N429	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N429/N452	N429/N452	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N452/N475	N452/N475	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N475/N498	N475/N498	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N498/N521	N498/N521	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N521/N544	N521/N544	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N544/N567	N544/N567	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N567/N590	N567/N590	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N590/N613	N590/N613	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N613/N636	N613/N636	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N636/N659	N636/N659	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N659/N682	N659/N682	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N682/N705	N682/N705	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N705/N728	N705/N728	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N728/N751	N728/N751	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N751/N774	N751/N774	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N774/N797	N774/N797	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N797/N820	N797/N820	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N820/N843	N820/N843	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N843/N865	N843/N865	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N38/N60	N38/N60	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N60/N83	N60/N83	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N83/N106	N83/N106	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N106/N129	N106/N129	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N129/N152	N129/N152	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N152/N175	N152/N175	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N175/N198	N175/N198	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N198/N221	N198/N221	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N221/N244	N221/N244	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N244/N267	N244/N267	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N267/N290	N267/N290	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N290/N313	N290/N313	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N313/N336	N313/N336	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N336/N359	N336/N359	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N359/N382	N359/N382	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N382/N405	N382/N405	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N405/N428	N405/N428	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N428/N451	N428/N451	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N451/N474	N451/N474	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N474/N497	N474/N497	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N497/N520	N497/N520	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N520/N543	N520/N543	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N543/N566	N543/N566	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N566/N589	N566/N589	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N589/N612	N589/N612	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N612/N635	N612/N635	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N635/N658	N635/N658	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N658/N681	N658/N681	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N681/N704	N681/N704	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N704/N727	N704/N727	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N727/N750	N727/N750	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N750/N773	N750/N773	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N773/N796	N773/N796	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N796/N819	N796/N819	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N819/N842	N819/N842	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N842/N864	N842/N864	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N37/N59	N37/N59	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N59/N82	N59/N82	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N82/N105	N82/N105	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N105/N128	N105/N128	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N128/N151	N128/N151	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N151/N174	N151/N174	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N174/N197	N174/N197	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N197/N220	N197/N220	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N220/N243	N220/N243	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N243/N266	N243/N266	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N266/N289	N266/N289	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N289/N312	N289/N312	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N312/N335	N312/N335	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N335/N358	N335/N358	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N358/N381	N358/N381	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N381/N404	N381/N404	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N404/N427	N404/N427	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N427/N450	N427/N450	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N450/N473	N450/N473	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N473/N496	N473/N496	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N496/N519	N496/N519	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N519/N542	N519/N542	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N542/N565	N542/N565	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N565/N588	N565/N588	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N588/N611	N588/N611	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N611/N634	N611/N634	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N634/N657	N634/N657	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N657/N680	N657/N680	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N680/N703	N680/N703	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N703/N726	N703/N726	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N726/N749	N726/N749	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N749/N772	N749/N772	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N772/N795	N772/N795	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N795/N818	N795/N818	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N818/N841	N818/N841	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 13/11/24

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N841/N863	N841/N863	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N36/N58	N36/N58	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N58/N81	N58/N81	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N81/N104	N81/N104	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N104/N127	N104/N127	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N127/N150	N127/N150	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N150/N173	N150/N173	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N173/N196	N173/N196	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N196/N219	N196/N219	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N219/N242	N219/N242	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N242/N265	N242/N265	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N265/N288	N265/N288	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N288/N311	N288/N311	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N311/N334	N311/N334	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N334/N357	N334/N357	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N357/N380	N357/N380	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N380/N403	N380/N403	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N403/N426	N403/N426	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N426/N449	N426/N449	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N449/N472	N449/N472	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N472/N495	N472/N495	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N495/N518	N495/N518	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N518/N541	N518/N541	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N541/N564	N541/N564	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N564/N587	N564/N587	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N587/N610	N587/N610	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N610/N633	N610/N633	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N633/N656	N633/N656	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N656/N679	N656/N679	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N679/N702	N679/N702	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N702/N725	N702/N725	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N725/N748	N725/N748	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N748/N771	N748/N771	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N771/N794	N771/N794	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N794/N817	N794/N817	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N817/N840	N817/N840	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N840/N862	N840/N862	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N35/N57	N35/N57	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N57/N80	N57/N80	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N80/N103	N80/N103	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N103/N126	N103/N126	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N126/N149	N126/N149	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N149/N172	N149/N172	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N172/N195	N172/N195	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N195/N218	N195/N218	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N218/N241	N218/N241	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N241/N264	N241/N264	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N264/N287	N264/N287	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N287/N310	N287/N310	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N310/N333	N310/N333	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N333/N356	N333/N356	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N356/N379	N356/N379	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N379/N402	N379/N402	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N402/N425	N402/N425	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N425/N448	N425/N448	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N448/N471	N448/N471	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N471/N494	N471/N494	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N494/N517	N494/N517	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N517/N540	N517/N540	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N540/N563	N540/N563	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N563/N586	N563/N586	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N586/N609	N586/N609	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N609/N632	N609/N632	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N632/N655	N632/N655	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N655/N678	N655/N678	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N678/N701	N678/N701	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N701/N724	N701/N724	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N724/N747	N724/N747	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N747/N770	N747/N770	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N770/N793	N770/N793	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N793/N816	N793/N816	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N816/N839	N816/N839	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N839/N861	N839/N861	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N882/N883	N882/N883	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N883/N884	N883/N884	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N884/N885	N884/N885	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N885/N886	N885/N886	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N886/N887	N886/N887	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N887/N888	N887/N888	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N888/N889	N888/N889	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N889/N890	N889/N890	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N890/N891	N890/N891	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N891/N892	N891/N892	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N892/N893	N892/N893	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N893/N894	N893/N894	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N894/N895	N894/N895	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N895/N896	N895/N896	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N896/N897	N896/N897	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N897/N898	N897/N898	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N898/N899	N898/N899	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N899/N900	N899/N900	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N900/N901	N900/N901	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N901/N902	N901/N902	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N902/N903	N902/N903	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N904/N905	N904/N905	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N905/N906	N905/N906	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N906/N907	N906/N907	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N907/N908	N907/N908	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N908/N909	N908/N909	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N909/N910	N909/N910	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N910/N911	N910/N911	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N911/N912	N911/N912	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N912/N913	N912/N913	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N913/N914	N913/N914	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N914/N915	N914/N915	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N915/N916	N915/N916	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N916/N917	N916/N917	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N917/N918	N917/N918	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N918/N919	N918/N919	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N919/N920	N919/N920	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N920/N921	N920/N921	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N921/N922	N921/N922	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 13/11/24

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N922/N923	N922/N923	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N923/N924	N923/N924	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N924/N925	N924/N925	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N926/N927	N926/N927	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N927/N928	N927/N928	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N928/N929	N928/N929	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N929/N930	N929/N930	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N930/N931	N930/N931	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N931/N932	N931/N932	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N932/N933	N932/N933	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N933/N934	N933/N934	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N934/N935	N934/N935	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N935/N936	N935/N936	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N936/N937	N936/N937	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N937/N938	N937/N938	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N938/N939	N938/N939	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N939/N940	N939/N940	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N940/N941	N940/N941	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N941/N942	N941/N942	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N942/N943	N942/N943	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N943/N944	N943/N944	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N944/N945	N944/N945	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N945/N946	N945/N946	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N946/N947	N946/N947	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N948/N949	N948/N949	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N949/N950	N949/N950	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N950/N951	N950/N951	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N951/N952	N951/N952	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N952/N953	N952/N953	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N953/N954	N953/N954	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N954/N955	N954/N955	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N955/N956	N955/N956	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N956/N957	N956/N957	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N957/N958	N957/N958	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N958/N959	N958/N959	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N959/N960	N959/N960	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N960/N961	N960/N961	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N961/N962	N961/N962	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N962/N963	N962/N963	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N963/N964	N963/N964	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N964/N965	N964/N965	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N965/N966	N965/N966	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N966/N967	N966/N967	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N967/N968	N967/N968	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N968/N969	N968/N969	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N970/N971	N970/N971	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N971/N972	N971/N972	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N972/N973	N972/N973	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N973/N974	N973/N974	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N974/N975	N974/N975	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N975/N976	N975/N976	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N976/N977	N976/N977	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N977/N978	N977/N978	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N978/N979	N978/N979	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N979/N980	N979/N980	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N980/N981	N980/N981	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N981/N982	N981/N982	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N982/N983	N982/N983	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N983/N984	N983/N984	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N984/N985	N984/N985	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N985/N986	N985/N986	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N986/N987	N986/N987	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N987/N988	N987/N988	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N988/N989	N988/N989	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N989/N990	N989/N990	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N990/N991	N990/N991	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N992/N993	N992/N993	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N993/N994	N993/N994	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N994/N995	N994/N995	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N995/N996	N995/N996	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N996/N997	N996/N997	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N997/N998	N997/N998	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N998/N999	N998/N999	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N999/N1000	N999/N1000	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1000/N1001	N1000/N1001	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1001/N1002	N1001/N1002	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1002/N1003	N1002/N1003	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1003/N1004	N1003/N1004	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1004/N1005	N1004/N1005	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1005/N1006	N1005/N1006	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1006/N1007	N1006/N1007	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1007/N1008	N1007/N1008	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1008/N1009	N1008/N1009	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1009/N1010	N1009/N1010	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1010/N1011	N1010/N1011	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1011/N1012	N1011/N1012	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1012/N1013	N1012/N1013	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1014/N1015	N1014/N1015	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1015/N1016	N1015/N1016	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1016/N1017	N1016/N1017	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1017/N1018	N1017/N1018	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1018/N1019	N1018/N1019	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1019/N1020	N1019/N1020	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1020/N1021	N1020/N1021	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1021/N1022	N1021/N1022	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1022/N1023	N1022/N1023	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1023/N1024	N1023/N1024	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1024/N1025	N1024/N1025	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1025/N1026	N1025/N1026	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1026/N1027	N1026/N1027	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1027/N1028	N1027/N1028	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1028/N1029	N1028/N1029	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1029/N1030	N1029/N1030	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1030/N1031	N1030/N1031	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1031/N1032	N1031/N1032	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1032/N1033	N1032/N1033	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1033/N1034	N1033/N1034	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1034/N1035	N1034/N1035	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1036/N1037	N1036/N1037	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1037/N1038	N1037/N1038	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1038/N1039	N1038/N1039	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1039/N1040	N1039/N1040	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 13/11/24

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1040/N1041	N1040/N1041	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1041/N1042	N1041/N1042	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1042/N1043	N1042/N1043	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1043/N1044	N1043/N1044	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1044/N1045	N1044/N1045	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1045/N1046	N1045/N1046	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1046/N1047	N1046/N1047	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1047/N1048	N1047/N1048	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1048/N1049	N1048/N1049	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1049/N1050	N1049/N1050	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1050/N1051	N1050/N1051	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1051/N1052	N1051/N1052	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1052/N1053	N1052/N1053	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1053/N1054	N1053/N1054	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1054/N1055	N1054/N1055	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1055/N1056	N1055/N1056	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1056/N1057	N1056/N1057	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1058/N1059	N1058/N1059	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1059/N1060	N1059/N1060	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1060/N1061	N1060/N1061	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1061/N1062	N1061/N1062	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1062/N1063	N1062/N1063	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1063/N1064	N1063/N1064	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1064/N1065	N1064/N1065	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1065/N1066	N1065/N1066	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1066/N1067	N1066/N1067	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1067/N1068	N1067/N1068	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1068/N1069	N1068/N1069	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1069/N1070	N1069/N1070	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1070/N1071	N1070/N1071	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1071/N1072	N1071/N1072	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1072/N1073	N1072/N1073	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1073/N1074	N1073/N1074	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1074/N1075	N1074/N1075	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1075/N1076	N1075/N1076	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1076/N1077	N1076/N1077	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1077/N1078	N1077/N1078	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1078/N1079	N1078/N1079	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1080/N1081	N1080/N1081	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1081/N1082	N1081/N1082	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1082/N1083	N1082/N1083	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1083/N1084	N1083/N1084	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1084/N1085	N1084/N1085	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1085/N1086	N1085/N1086	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1086/N1087	N1086/N1087	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1087/N1088	N1087/N1088	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1088/N1089	N1088/N1089	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1089/N1090	N1089/N1090	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1090/N1091	N1090/N1091	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1091/N1092	N1091/N1092	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1092/N1093	N1092/N1093	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1093/N1094	N1093/N1094	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1094/N1095	N1094/N1095	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1095/N1096	N1095/N1096	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1096/N1097	N1096/N1097	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1097/N1098	N1097/N1098	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1098/N1099	N1098/N1099	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1099/N1100	N1099/N1100	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1100/N1101	N1100/N1101	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1102/N1103	N1102/N1103	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1103/N1104	N1103/N1104	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1104/N1105	N1104/N1105	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1105/N1106	N1105/N1106	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1106/N1107	N1106/N1107	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1107/N1108	N1107/N1108	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1108/N1109	N1108/N1109	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1109/N1110	N1109/N1110	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1110/N1111	N1110/N1111	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1111/N1112	N1111/N1112	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1112/N1113	N1112/N1113	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1113/N1114	N1113/N1114	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1114/N1115	N1114/N1115	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1115/N1116	N1115/N1116	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1116/N1117	N1116/N1117	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1117/N1118	N1117/N1118	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1118/N1119	N1118/N1119	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1119/N1120	N1119/N1120	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1120/N1121	N1120/N1121	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1121/N1122	N1121/N1122	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1122/N1123	N1122/N1123	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1124/N1125	N1124/N1125	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1125/N1126	N1125/N1126	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1126/N1127	N1126/N1127	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1127/N1128	N1127/N1128	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1128/N1129	N1128/N1129	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1129/N1130	N1129/N1130	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1130/N1131	N1130/N1131	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1131/N1132	N1131/N1132	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1132/N1133	N1132/N1133	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1133/N1134	N1133/N1134	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1134/N1135	N1134/N1135	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1135/N1136	N1135/N1136	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1136/N1137	N1136/N1137	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1137/N1138	N1137/N1138	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1138/N1139	N1138/N1139	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1139/N1140	N1139/N1140	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1140/N1141	N1140/N1141	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1141/N1142	N1141/N1142	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1142/N1143	N1142/N1143	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1143/N1144	N1143/N1144	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1144/N1145	N1144/N1145	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1146/N1147	N1146/N1147	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1147/N1148	N1147/N1148	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1148/N1149	N1148/N1149	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1149/N1150	N1149/N1150	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1150/N1151	N1150/N1151	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1151/N1152	N1151/N1152	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1152/N1153	N1152/N1153	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1153/N1154	N1153/N1154	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1154/N1155	N1154/N1155	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1155/N1156	N1155/N1156	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1156/N1157	N1156/N1157	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1157/N1158	N1157/N1158	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1158/N1159	N1158/N1159	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1159/N1160	N1159/N1160	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1160/N1161	N1160/N1161	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1161/N1162	N1161/N1162	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1162/N1163	N1162/N1163	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1163/N1164	N1163/N1164	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1164/N1165	N1164/N1165	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1165/N1166	N1165/N1166	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1166/N1167	N1166/N1167	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1168/N1169	N1168/N1169	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1169/N1170	N1169/N1170	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1170/N1171	N1170/N1171	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1171/N1172	N1171/N1172	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1172/N1173	N1172/N1173	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1173/N1174	N1173/N1174	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1174/N1175	N1174/N1175	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1175/N1176	N1175/N1176	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1176/N1177	N1176/N1177	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1177/N1178	N1177/N1178	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1178/N1179	N1178/N1179	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1179/N1180	N1179/N1180	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1180/N1181	N1180/N1181	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1181/N1182	N1181/N1182	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1182/N1183	N1182/N1183	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1183/N1184	N1183/N1184	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1184/N1185	N1184/N1185	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1185/N1186	N1185/N1186	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1186/N1187	N1186/N1187	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1187/N1188	N1187/N1188	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1188/N1189	N1188/N1189	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1190/N1191	N1190/N1191	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1191/N1192	N1191/N1192	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1192/N1193	N1192/N1193	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1193/N1194	N1193/N1194	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1194/N1195	N1194/N1195	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1195/N1196	N1195/N1196	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1196/N1197	N1196/N1197	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1197/N1198	N1197/N1198	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1198/N1199	N1198/N1199	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1199/N1200	N1199/N1200	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1200/N1201	N1200/N1201	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1201/N1202	N1201/N1202	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1202/N1203	N1202/N1203	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1203/N1204	N1203/N1204	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1204/N1205	N1204/N1205	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1205/N1206	N1205/N1206	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1206/N1207	N1206/N1207	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1207/N1208	N1207/N1208	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1208/N1209	N1208/N1209	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1209/N1210	N1209/N1210	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1210/N1211	N1210/N1211	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1212/N1213	N1212/N1213	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1213/N1214	N1213/N1214	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1214/N1215	N1214/N1215	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1215/N1216	N1215/N1216	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1216/N1217	N1216/N1217	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1217/N1218	N1217/N1218	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1218/N1219	N1218/N1219	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1219/N1220	N1219/N1220	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1220/N1221	N1220/N1221	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1221/N1222	N1221/N1222	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1222/N1223	N1222/N1223	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1223/N1224	N1223/N1224	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1224/N1225	N1224/N1225	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1225/N1226	N1225/N1226	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1226/N1227	N1226/N1227	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1227/N1228	N1227/N1228	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1228/N1229	N1228/N1229	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1229/N1230	N1229/N1230	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1230/N1231	N1230/N1231	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1231/N1232	N1231/N1232	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1232/N1233	N1232/N1233	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1234/N1235	N1234/N1235	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1235/N1236	N1235/N1236	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1236/N1237	N1236/N1237	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1237/N1238	N1237/N1238	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1238/N1239	N1238/N1239	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1239/N1240	N1239/N1240	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1240/N1241	N1240/N1241	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1241/N1242	N1241/N1242	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1242/N1243	N1242/N1243	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1243/N1244	N1243/N1244	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1244/N1245	N1244/N1245	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1245/N1246	N1245/N1246	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1246/N1247	N1246/N1247	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1247/N1248	N1247/N1248	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1248/N1249	N1248/N1249	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1249/N1250	N1249/N1250	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1250/N1251	N1250/N1251	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1251/N1252	N1251/N1252	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1252/N1253	N1252/N1253	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1253/N1254	N1253/N1254	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1254/N1255	N1254/N1255	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1256/N1257	N1256/N1257	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1257/N1258	N1257/N1258	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1258/N1259	N1258/N1259	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1259/N1260	N1259/N1260	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1260/N1261	N1260/N1261	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1261/N1262	N1261/N1262	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1262/N1263	N1262/N1263	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1263/N1264	N1263/N1264	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1264/N1265	N1264/N1265	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1265/N1266	N1265/N1266	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1266/N1267	N1266/N1267	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1267/N1268	N1267/N1268	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1268/N1269	N1268/N1269	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1269/N1270	N1269/N1270	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1270/N1271	N1270/N1271	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1271/N1272	N1271/N1272	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1272/N1273	N1272/N1273	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1273/N1274	N1273/N1274	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 13/11/24

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1274/N1275	N1274/N1275	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1275/N1276	N1275/N1276	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1276/N1277	N1276/N1277	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1278/N1279	N1278/N1279	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1279/N1280	N1279/N1280	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1280/N1281	N1280/N1281	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1281/N1282	N1281/N1282	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1282/N1283	N1282/N1283	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1283/N1284	N1283/N1284	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1284/N1285	N1284/N1285	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1285/N1286	N1285/N1286	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1286/N1287	N1286/N1287	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1287/N1288	N1287/N1288	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1288/N1289	N1288/N1289	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1289/N1290	N1289/N1290	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1290/N1291	N1290/N1291	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1291/N1292	N1291/N1292	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1292/N1293	N1292/N1293	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1293/N1294	N1293/N1294	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1294/N1295	N1294/N1295	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1295/N1296	N1295/N1296	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1296/N1297	N1296/N1297	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1297/N1298	N1297/N1298	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1298/N1299	N1298/N1299	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1300/N1301	N1300/N1301	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1301/N1302	N1301/N1302	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1302/N1303	N1302/N1303	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1303/N1304	N1303/N1304	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1304/N1305	N1304/N1305	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1305/N1306	N1305/N1306	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1306/N1307	N1306/N1307	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1307/N1308	N1307/N1308	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1308/N1309	N1308/N1309	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1309/N1310	N1309/N1310	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1310/N1311	N1310/N1311	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1311/N1312	N1311/N1312	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1312/N1313	N1312/N1313	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1313/N1314	N1313/N1314	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1314/N1315	N1314/N1315	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1315/N1316	N1315/N1316	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1316/N1317	N1316/N1317	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1317/N1318	N1317/N1318	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1318/N1319	N1318/N1319	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1319/N1320	N1319/N1320	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1320/N1321	N1320/N1321	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1322/N1323	N1322/N1323	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1323/N1324	N1323/N1324	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1324/N1325	N1324/N1325	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1325/N1326	N1325/N1326	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1326/N1327	N1326/N1327	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1327/N1328	N1327/N1328	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1328/N1329	N1328/N1329	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1329/N1330	N1329/N1330	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1330/N1331	N1330/N1331	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1331/N1332	N1331/N1332	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1332/N1333	N1332/N1333	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1333/N1334	N1333/N1334	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1334/N1335	N1334/N1335	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1335/N1336	N1335/N1336	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1336/N1337	N1336/N1337	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1337/N1338	N1337/N1338	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1338/N1339	N1338/N1339	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1339/N1340	N1339/N1340	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1340/N1341	N1340/N1341	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1341/N1342	N1341/N1342	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1342/N1343	N1342/N1343	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1344/N1345	N1344/N1345	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1345/N1346	N1345/N1346	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1346/N1347	N1346/N1347	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1347/N1348	N1347/N1348	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1348/N1349	N1348/N1349	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1349/N1350	N1349/N1350	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1350/N1351	N1350/N1351	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1351/N1352	N1351/N1352	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1352/N1353	N1352/N1353	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1353/N1354	N1353/N1354	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1354/N1355	N1354/N1355	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1355/N1356	N1355/N1356	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1356/N1357	N1356/N1357	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1357/N1358	N1357/N1358	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1358/N1359	N1358/N1359	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1359/N1360	N1359/N1360	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1360/N1361	N1360/N1361	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1361/N1362	N1361/N1362	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1362/N1363	N1362/N1363	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1363/N1364	N1363/N1364	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1364/N1365	N1364/N1365	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1366/N1367	N1366/N1367	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1367/N1368	N1367/N1368	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1368/N1369	N1368/N1369	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1369/N1370	N1369/N1370	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1370/N1371	N1370/N1371	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1371/N1372	N1371/N1372	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1372/N1373	N1372/N1373	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1373/N1374	N1373/N1374	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1374/N1375	N1374/N1375	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1375/N1376	N1375/N1376	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1376/N1377	N1376/N1377	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1377/N1378	N1377/N1378	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1378/N1379	N1378/N1379	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1379/N1380	N1379/N1380	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1380/N1381	N1380/N1381	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1381/N1382	N1381/N1382	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1382/N1383	N1382/N1383	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1383/N1384	N1383/N1384	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1384/N1385	N1384/N1385	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1385/N1386	N1385/N1386	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1386/N1387	N1386/N1387	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1388/N1389	N1388/N1389	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1389/N1390	N1389/N1390	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1390/N1391	N1390/N1391	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1391/N1392	N1391/N1392	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 13/11/24

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1392/N1393	N1392/N1393	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1393/N1394	N1393/N1394	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1394/N1395	N1394/N1395	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1395/N1396	N1395/N1396	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1396/N1397	N1396/N1397	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1397/N1398	N1397/N1398	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1398/N1399	N1398/N1399	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1399/N1400	N1399/N1400	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1400/N1401	N1400/N1401	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1401/N1402	N1401/N1402	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1402/N1403	N1402/N1403	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1403/N1404	N1403/N1404	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1404/N1405	N1404/N1405	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1405/N1406	N1405/N1406	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1406/N1407	N1406/N1407	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1407/N1408	N1407/N1408	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1408/N1409	N1408/N1409	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1410/N1411	N1410/N1411	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1411/N1412	N1411/N1412	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1412/N1413	N1412/N1413	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1413/N1414	N1413/N1414	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1414/N1415	N1414/N1415	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1415/N1416	N1415/N1416	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1416/N1417	N1416/N1417	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1417/N1418	N1417/N1418	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1418/N1419	N1418/N1419	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1419/N1420	N1419/N1420	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1420/N1421	N1420/N1421	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1421/N1422	N1421/N1422	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1422/N1423	N1422/N1423	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1423/N1424	N1423/N1424	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1424/N1425	N1424/N1425	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1425/N1426	N1425/N1426	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1426/N1427	N1426/N1427	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1427/N1428	N1427/N1428	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1428/N1429	N1428/N1429	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1429/N1430	N1429/N1430	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1430/N1431	N1430/N1431	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1432/N1433	N1432/N1433	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1433/N1434	N1433/N1434	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1434/N1435	N1434/N1435	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1435/N1436	N1435/N1436	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1436/N1437	N1436/N1437	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1437/N1438	N1437/N1438	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1438/N1439	N1438/N1439	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1439/N1440	N1439/N1440	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1440/N1441	N1440/N1441	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1441/N1442	N1441/N1442	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1442/N1443	N1442/N1443	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1443/N1444	N1443/N1444	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1444/N1445	N1444/N1445	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1445/N1446	N1445/N1446	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1446/N1447	N1446/N1447	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1447/N1448	N1447/N1448	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1448/N1449	N1448/N1449	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1449/N1450	N1449/N1450	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1450/N1451	N1450/N1451	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1451/N1452	N1451/N1452	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1452/N1453	N1452/N1453	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1454/N1455	N1454/N1455	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1455/N1456	N1455/N1456	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1456/N1457	N1456/N1457	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1457/N1458	N1457/N1458	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1458/N1459	N1458/N1459	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1459/N1460	N1459/N1460	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1460/N1461	N1460/N1461	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1461/N1462	N1461/N1462	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1462/N1463	N1462/N1463	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1463/N1464	N1463/N1464	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1464/N1465	N1464/N1465	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1465/N1466	N1465/N1466	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1466/N1467	N1466/N1467	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1467/N1468	N1467/N1468	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1468/N1469	N1468/N1469	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1469/N1470	N1469/N1470	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1470/N1471	N1470/N1471	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1471/N1472	N1471/N1472	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1472/N1473	N1472/N1473	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1473/N1474	N1473/N1474	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1474/N1475	N1474/N1475	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1476/N1477	N1476/N1477	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1477/N1478	N1477/N1478	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1478/N1479	N1478/N1479	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1479/N1480	N1479/N1480	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1480/N1481	N1480/N1481	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1481/N1482	N1481/N1482	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1482/N1483	N1482/N1483	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1483/N1484	N1483/N1484	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1484/N1485	N1484/N1485	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1485/N1486	N1485/N1486	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1486/N1487	N1486/N1487	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1487/N1488	N1487/N1488	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1488/N1489	N1488/N1489	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1489/N1490	N1489/N1490	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1490/N1491	N1490/N1491	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1491/N1492	N1491/N1492	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1492/N1493	N1492/N1493	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1493/N1494	N1493/N1494	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1494/N1495	N1494/N1495	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1495/N1496	N1495/N1496	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1496/N1497	N1496/N1497	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1498/N1499	N1498/N1499	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1499/N1500	N1499/N1500	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1500/N1501	N1500/N1501	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1501/N1502	N1501/N1502	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1502/N1503	N1502/N1503	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1503/N1504	N1503/N1504	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1504/N1505	N1504/N1505	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1505/N1506	N1505/N1506	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1506/N1507	N1506/N1507	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1507/N1508	N1507/N1508	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1508/N1509	N1508/N1509	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 13/11/24

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1509/N1510	N1509/N1510	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1510/N1511	N1510/N1511	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1511/N1512	N1511/N1512	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1512/N1513	N1512/N1513	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1513/N1514	N1513/N1514	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1514/N1515	N1514/N1515	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1515/N1516	N1515/N1516	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1516/N1517	N1516/N1517	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1517/N1518	N1517/N1518	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1518/N1519	N1518/N1519	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1520/N1521	N1520/N1521	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1521/N1522	N1521/N1522	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1522/N1523	N1522/N1523	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1523/N1524	N1523/N1524	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1524/N1525	N1524/N1525	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1525/N1526	N1525/N1526	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1526/N1527	N1526/N1527	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1527/N1528	N1527/N1528	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1528/N1529	N1528/N1529	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1529/N1530	N1529/N1530	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1530/N1531	N1530/N1531	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1531/N1532	N1531/N1532	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1532/N1533	N1532/N1533	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1533/N1534	N1533/N1534	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1534/N1535	N1534/N1535	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1535/N1536	N1535/N1536	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1536/N1537	N1536/N1537	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1537/N1538	N1537/N1538	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1538/N1539	N1538/N1539	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1539/N1540	N1539/N1540	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1540/N1541	N1540/N1541	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1542/N1543	N1542/N1543	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1543/N1544	N1543/N1544	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1544/N1545	N1544/N1545	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1545/N1546	N1545/N1546	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1547/N1548	N1547/N1548	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1548/N1549	N1548/N1549	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1550/N1551	N1550/N1551	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1551/N1552	N1551/N1552	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1553/N1554	N1553/N1554	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1554/N1555	N1554/N1555	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1555/N1556	N1555/N1556	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1556/N1557	N1556/N1557	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1558/N1559	N1558/N1559	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1559/N1560	N1559/N1560	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1560/N1561	N1560/N1561	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1561/N1562	N1561/N1562	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1563/N1564	N1563/N1564	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1564/N1565	N1564/N1565	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1566/N1567	N1566/N1567	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1567/N1568	N1567/N1568	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1569/N1570	N1569/N1570	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1570/N1571	N1570/N1571	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1571/N1572	N1571/N1572	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1572/N1573	N1572/N1573	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1574/N1575	N1574/N1575	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1575/N1576	N1575/N1576	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1576/N1577	N1576/N1577	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1577/N1578	N1577/N1578	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1578/N1579	N1578/N1579	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1579/N1580	N1579/N1580	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1580/N1581	N1580/N1581	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1581/N1582	N1581/N1582	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1582/N1583	N1582/N1583	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1583/N1584	N1583/N1584	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1584/N1585	N1584/N1585	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1585/N1586	N1585/N1586	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1586/N1587	N1586/N1587	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1587/N1588	N1587/N1588	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1588/N1589	N1588/N1589	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1589/N1590	N1589/N1590	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1590/N1591	N1590/N1591	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1591/N1592	N1591/N1592	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1592/N1593	N1592/N1593	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1593/N1594	N1593/N1594	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1594/N1595	N1594/N1595	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1596/N1597	N1596/N1597	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1597/N1598	N1597/N1598	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1598/N1599	N1598/N1599	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1599/N1600	N1599/N1600	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1600/N1601	N1600/N1601	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1601/N1602	N1601/N1602	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1602/N1603	N1602/N1603	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1603/N1604	N1603/N1604	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1604/N1605	N1604/N1605	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1605/N1606	N1605/N1606	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1606/N1607	N1606/N1607	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1607/N1608	N1607/N1608	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1608/N1609	N1608/N1609	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1609/N1610	N1609/N1610	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1610/N1611	N1610/N1611	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1611/N1612	N1611/N1612	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1612/N1613	N1612/N1613	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1613/N1614	N1613/N1614	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1614/N1615	N1614/N1615	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1615/N1616	N1615/N1616	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1616/N1617	N1616/N1617	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1618/N1619	N1618/N1619	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1619/N1620	N1619/N1620	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1620/N1621	N1620/N1621	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1621/N1622	N1621/N1622	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1622/N1623	N1622/N1623	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1623/N1624	N1623/N1624	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1624/N1625	N1624/N1625	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1625/N1626	N1625/N1626	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1626/N1627	N1626/N1627	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1627/N1628	N1627/N1628	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1628/N1629	N1628/N1629	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1629/N1630	N1629/N1630	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1630/N1631	N1630/N1631	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1631/N1632	N1631/N1632	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1632/N1633	N1632/N1633	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1633/N1634	N1633/N1634	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1634/N1635	N1634/N1635	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1635/N1636	N1635/N1636	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1636/N1637	N1636/N1637	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1637/N1638	N1637/N1638	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1638/N1639	N1638/N1639	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1640/N1641	N1640/N1641	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1641/N1642	N1641/N1642	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1642/N1643	N1642/N1643	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1643/N1644	N1643/N1644	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1644/N1645	N1644/N1645	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1645/N1646	N1645/N1646	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1646/N1647	N1646/N1647	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1647/N1648	N1647/N1648	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1648/N1649	N1648/N1649	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1649/N1650	N1649/N1650	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1650/N1651	N1650/N1651	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1651/N1652	N1651/N1652	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1652/N1653	N1652/N1653	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1653/N1654	N1653/N1654	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1654/N1655	N1654/N1655	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1655/N1656	N1655/N1656	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1656/N1657	N1656/N1657	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1657/N1658	N1657/N1658	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1658/N1659	N1658/N1659	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1659/N1660	N1659/N1660	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1660/N1661	N1660/N1661	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N903/N925	N903/N925	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N925/N947	N925/N947	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N947/N969	N947/N969	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N969/N991	N969/N991	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N991/N1013	N991/N1013	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1013/N1035	N1013/N1035	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1035/N1057	N1035/N1057	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1057/N1079	N1057/N1079	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1079/N1101	N1079/N1101	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1101/N1123	N1101/N1123	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1123/N1145	N1123/N1145	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1145/N1167	N1145/N1167	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1167/N1189	N1167/N1189	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1189/N1211	N1189/N1211	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1211/N1233	N1211/N1233	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1233/N1255	N1233/N1255	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1255/N1277	N1255/N1277	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1277/N1299	N1277/N1299	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1299/N1321	N1299/N1321	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1321/N1343	N1321/N1343	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1343/N1365	N1343/N1365	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1365/N1387	N1365/N1387	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1387/N1409	N1387/N1409	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1409/N1431	N1409/N1431	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1431/N1453	N1431/N1453	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1453/N1475	N1453/N1475	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1475/N1497	N1475/N1497	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1497/N1519	N1497/N1519	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1519/N1541	N1519/N1541	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1541/N1557	N1541/N1557	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1557/N1573	N1557/N1573	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1573/N1595	N1573/N1595	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1595/N1617	N1595/N1617	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1617/N1639	N1617/N1639	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1639/N1661	N1639/N1661	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N902/N924	N902/N924	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N924/N946	N924/N946	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N946/N968	N946/N968	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N968/N990	N968/N990	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N990/N1012	N990/N1012	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1012/N1034	N1012/N1034	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1034/N1883	N1034/N1056	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1883/N1056	N1034/N1056	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1056/N1078	N1056/N1078	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1078/N1100	N1078/N1100	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1100/N1122	N1100/N1122	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1122/N1144	N1122/N1144	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1144/N1166	N1144/N1166	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1166/N1843	N1166/N1188	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1843/N1188	N1166/N1188	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1188/N1210	N1188/N1210	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1210/N1232	N1210/N1232	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1232/N1254	N1232/N1254	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1254/N1276	N1254/N1276	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1276/N1298	N1276/N1298	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1298/N1803	N1298/N1320	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1803/N1320	N1298/N1320	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1320/N1342	N1320/N1342	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1342/N1364	N1342/N1364	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1364/N1386	N1364/N1386	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1386/N1408	N1386/N1408	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1408/N1430	N1408/N1430	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1430/N1731	N1430/N1452	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1731/N1452	N1430/N1452	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1452/N1474	N1452/N1474	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1474/N1496	N1474/N1496	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1496/N1518	N1496/N1518	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1518/N1540	N1518/N1540	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1540/N1556	N1540/N1556	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1556/N1923	N1556/N1572	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1923/N1572	N1556/N1572	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1572/N1594	N1572/N1594	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1594/N1616	N1594/N1616	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1616/N1638	N1616/N1638	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1638/N1660	N1638/N1660	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N901/N923	N901/N923	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N923/N945	N923/N945	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N945/N967	N945/N967	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N967/N989	N967/N989	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N989/N1011	N989/N1011	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1011/N1033	N1011/N1033	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1033/N1879	N1033/N1055	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1879/N1055	N1033/N1055	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1055/N1077	N1055/N1077	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1077/N1099	N1077/N1099	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 13/11/24

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1099/N1121	N1099/N1121	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1121/N1143	N1121/N1143	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1143/N1165	N1143/N1165	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1165/N1839	N1165/N1187	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1839/N1187	N1165/N1187	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1187/N1209	N1187/N1209	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1209/N1231	N1209/N1231	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1231/N1253	N1231/N1253	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1253/N1275	N1253/N1275	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1275/N1297	N1275/N1297	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1297/N1799	N1297/N1319	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1799/N1319	N1297/N1319	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1319/N1341	N1319/N1341	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1341/N1363	N1341/N1363	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1363/N1385	N1363/N1385	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1385/N1407	N1385/N1407	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1407/N1429	N1407/N1429	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1429/N1730	N1429/N1451	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1730/N1451	N1429/N1451	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1451/N1473	N1451/N1473	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1473/N1495	N1473/N1495	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1495/N1517	N1495/N1517	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1517/N1539	N1517/N1539	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1539/N1555	N1539/N1555	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1555/N1919	N1555/N1571	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1919/N1571	N1555/N1571	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1571/N1593	N1571/N1593	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1593/N1615	N1593/N1615	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1615/N1637	N1615/N1637	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1637/N1659	N1637/N1659	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N900/N922	N900/N922	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N922/N944	N922/N944	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N944/N966	N944/N966	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N966/N988	N966/N988	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N988/N1010	N988/N1010	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1010/N1032	N1010/N1032	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1032/N1878	N1032/N1054	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1878/N1054	N1032/N1054	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1054/N1076	N1054/N1076	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1076/N1098	N1076/N1098	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1098/N1120	N1098/N1120	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1120/N1142	N1120/N1142	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1142/N1164	N1142/N1164	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1164/N1838	N1164/N1186	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1838/N1186	N1164/N1186	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1186/N1208	N1186/N1208	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1208/N1230	N1208/N1230	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1230/N1252	N1230/N1252	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1252/N1274	N1252/N1274	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1274/N1296	N1274/N1296	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1296/N1798	N1296/N1318	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1798/N1318	N1296/N1318	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1318/N1340	N1318/N1340	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1340/N1362	N1340/N1362	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1362/N1384	N1362/N1384	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1384/N1406	N1384/N1406	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1406/N1428	N1406/N1428	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1428/N1729	N1428/N1450	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1729/N1450	N1428/N1450	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1450/N1472	N1450/N1472	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1472/N1494	N1472/N1494	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1494/N1516	N1494/N1516	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1516/N1538	N1516/N1538	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1538/N1554	N1538/N1554	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1554/N1918	N1554/N1570	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1918/N1570	N1554/N1570	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1570/N1592	N1570/N1592	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1592/N1614	N1592/N1614	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1614/N1636	N1614/N1636	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1636/N1658	N1636/N1658	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N899/N921	N899/N921	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N921/N943	N921/N943	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N943/N965	N943/N965	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N965/N987	N965/N987	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N987/N1009	N987/N1009	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1009/N1031	N1009/N1031	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1031/N1877	N1031/N1053	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1877/N1053	N1031/N1053	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1053/N1075	N1053/N1075	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1075/N1097	N1075/N1097	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1097/N1119	N1097/N1119	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1119/N1141	N1119/N1141	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1141/N1163	N1141/N1163	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1163/N1837	N1163/N1185	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1837/N1185	N1163/N1185	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1185/N1207	N1185/N1207	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1207/N1229	N1207/N1229	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1229/N1251	N1229/N1251	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1251/N1273	N1251/N1273	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1273/N1295	N1273/N1295	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1295/N1797	N1295/N1317	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1797/N1317	N1295/N1317	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1317/N1339	N1317/N1339	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1339/N1361	N1339/N1361	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1361/N1383	N1361/N1383	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1383/N1405	N1383/N1405	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1405/N1427	N1405/N1427	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1427/N1728	N1427/N1449	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1728/N1449	N1427/N1449	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1449/N1471	N1449/N1471	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1471/N1493	N1471/N1493	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1493/N1515	N1493/N1515	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1515/N1537	N1515/N1537	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1537/N1553	N1537/N1553	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1553/N1917	N1553/N1569	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1917/N1569	N1553/N1569	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1569/N1591	N1569/N1591	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1591/N1613	N1591/N1613	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1613/N1635	N1613/N1635	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1635/N1657	N1635/N1657	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N898/N920	N898/N920	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N920/N942	N920/N942	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 13/11/24

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N942/N964	N942/N964	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N964/N986	N964/N986	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N986/N1008	N986/N1008	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1008/N1030	N1008/N1030	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1030/N1873	N1030/N1052	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1873/N1052	N1030/N1052	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1052/N1074	N1052/N1074	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1074/N1096	N1074/N1096	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1096/N1118	N1096/N1118	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1118/N1140	N1118/N1140	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1140/N1162	N1140/N1162	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1162/N1833	N1162/N1184	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1833/N1184	N1162/N1184	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1184/N1206	N1184/N1206	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1206/N1228	N1206/N1228	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1228/N1250	N1228/N1250	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1250/N1272	N1250/N1272	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1272/N1294	N1272/N1294	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1294/N1793	N1294/N1316	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1793/N1316	N1294/N1316	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1316/N1338	N1316/N1338	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1338/N1360	N1338/N1360	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1360/N1382	N1360/N1382	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1382/N1404	N1382/N1404	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1404/N1426	N1404/N1426	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1426/N1727	N1426/N1448	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1727/N1448	N1426/N1448	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1448/N1470	N1448/N1470	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1470/N1492	N1470/N1492	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1492/N1514	N1492/N1514	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1514/N1536	N1514/N1536	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1590/N1612	N1590/N1612	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1612/N1634	N1612/N1634	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1634/N1656	N1634/N1656	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N897/N919	N897/N919	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N919/N941	N919/N941	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N941/N963	N941/N963	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N963/N985	N963/N985	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N985/N1007	N985/N1007	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1007/N1029	N1007/N1029	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1029/N1872	N1029/N1051	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1872/N1051	N1029/N1051	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1051/N1073	N1051/N1073	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1073/N1095	N1073/N1095	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1095/N1117	N1095/N1117	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1117/N1139	N1117/N1139	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1139/N1161	N1139/N1161	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1161/N1832	N1161/N1183	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1832/N1183	N1161/N1183	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1183/N1205	N1183/N1205	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1205/N1227	N1205/N1227	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1227/N1249	N1227/N1249	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1249/N1271	N1249/N1271	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1271/N1293	N1271/N1293	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1293/N1792	N1293/N1315	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1792/N1315	N1293/N1315	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1315/N1337	N1315/N1337	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1337/N1359	N1337/N1359	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1359/N1381	N1359/N1381	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1381/N1403	N1381/N1403	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1403/N1425	N1403/N1425	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1425/N1726	N1425/N1447	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1726/N1447	N1425/N1447	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1447/N1469	N1447/N1469	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1469/N1491	N1469/N1491	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1491/N1513	N1491/N1513	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1513/N1535	N1513/N1535	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1589/N1611	N1589/N1611	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1611/N1633	N1611/N1633	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1633/N1655	N1633/N1655	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N896/N918	N896/N918	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N918/N940	N918/N940	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N940/N962	N940/N962	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N962/N984	N962/N984	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N984/N1006	N984/N1006	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1006/N1028	N1006/N1028	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1028/N1869	N1028/N1050	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1869/N1050	N1028/N1050	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1050/N1072	N1050/N1072	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1072/N1094	N1072/N1094	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1094/N1116	N1094/N1116	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1116/N1138	N1116/N1138	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1138/N1160	N1138/N1160	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1160/N1829	N1160/N1182	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1829/N1182	N1160/N1182	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1182/N1204	N1182/N1204	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1204/N1226	N1204/N1226	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1226/N1248	N1226/N1248	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1248/N1270	N1248/N1270	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1270/N1292	N1270/N1292	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1292/N1789	N1292/N1314	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1789/N1314	N1292/N1314	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1314/N1336	N1314/N1336	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1336/N1358	N1336/N1358	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1358/N1380	N1358/N1380	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1380/N1402	N1380/N1402	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1402/N1424	N1402/N1424	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1424/N1725	N1424/N1446	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1725/N1446	N1424/N1446	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1446/N1468	N1446/N1468	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1468/N1490	N1468/N1490	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1490/N1512	N1490/N1512	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1512/N1534	N1512/N1534	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1534/N1552	N1534/N1552	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1552/N1909	N1552/N1568	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1909/N1568	N1552/N1568	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1568/N1588	N1568/N1588	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1588/N1610	N1588/N1610	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1610/N1632	N1610/N1632	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1632/N1654	N1632/N1654	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N895/N917	N895/N917	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N917/N939	N917/N939	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 13/11/24

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N939/N961	N939/N961	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N961/N983	N961/N983	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N983/N1005	N983/N1005	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1005/N1027	N1005/N1027	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1027/N1868	N1027/N1049	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1868/N1049	N1027/N1049	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1049/N1071	N1049/N1071	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1071/N1093	N1071/N1093	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1093/N1115	N1093/N1115	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1115/N1137	N1115/N1137	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1137/N1159	N1137/N1159	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1159/N1828	N1159/N1181	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1828/N1181	N1159/N1181	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1181/N1203	N1181/N1203	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1203/N1225	N1203/N1225	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1225/N1247	N1225/N1247	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1247/N1269	N1247/N1269	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1269/N1291	N1269/N1291	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1291/N1788	N1291/N1313	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1788/N1313	N1291/N1313	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1313/N1335	N1313/N1335	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1335/N1357	N1335/N1357	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1357/N1379	N1357/N1379	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1379/N1401	N1379/N1401	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1401/N1423	N1401/N1423	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1423/N1724	N1423/N1445	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1724/N1445	N1423/N1445	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1445/N1467	N1445/N1467	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1467/N1489	N1467/N1489	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1489/N1511	N1489/N1511	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1511/N1533	N1511/N1533	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1533/N1551	N1533/N1551	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1551/N1908	N1551/N1567	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1908/N1567	N1551/N1567	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1567/N1587	N1567/N1587	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1587/N1609	N1587/N1609	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1609/N1631	N1609/N1631	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1631/N1653	N1631/N1653	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N894/N916	N894/N916	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N916/N938	N916/N938	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N938/N960	N938/N960	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N960/N982	N960/N982	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N982/N1004	N982/N1004	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1004/N1026	N1004/N1026	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1026/N1867	N1026/N1048	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1867/N1048	N1026/N1048	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1048/N1070	N1048/N1070	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1070/N1092	N1070/N1092	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1092/N1114	N1092/N1114	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1114/N1136	N1114/N1136	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1136/N1158	N1136/N1158	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1158/N1827	N1158/N1180	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1827/N1180	N1158/N1180	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1180/N1202	N1180/N1202	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1202/N1224	N1202/N1224	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1224/N1246	N1224/N1246	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1246/N1268	N1246/N1268	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1268/N1290	N1268/N1290	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1290/N1787	N1290/N1312	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1787/N1312	N1290/N1312	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1312/N1334	N1312/N1334	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1334/N1356	N1334/N1356	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1356/N1378	N1356/N1378	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1378/N1400	N1378/N1400	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1400/N1422	N1400/N1422	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1422/N1743	N1422/N1444	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1743/N1444	N1422/N1444	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1444/N1466	N1444/N1466	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1466/N1488	N1466/N1488	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1488/N1510	N1488/N1510	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1510/N1532	N1510/N1532	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1532/N1550	N1532/N1550	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1550/N1907	N1550/N1566	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1907/N1566	N1550/N1566	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1566/N1586	N1566/N1586	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1586/N1608	N1586/N1608	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1608/N1630	N1608/N1630	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1630/N1652	N1630/N1652	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N893/N915	N893/N915	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N915/N937	N915/N937	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N937/N959	N937/N959	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N959/N981	N959/N981	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N981/N1003	N981/N1003	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1003/N1025	N1003/N1025	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1025/N1862	N1025/N1047	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1862/N1047	N1025/N1047	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1047/N1069	N1047/N1069	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1069/N1091	N1069/N1091	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1091/N1113	N1091/N1113	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1113/N1135	N1113/N1135	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1135/N1157	N1135/N1157	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1157/N1822	N1157/N1179	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1822/N1179	N1157/N1179	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1179/N1201	N1179/N1201	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1201/N1223	N1201/N1223	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1223/N1245	N1223/N1245	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1245/N1267	N1245/N1267	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1267/N1289	N1267/N1289	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1289/N1782	N1289/N1311	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1782/N1311	N1289/N1311	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1311/N1333	N1311/N1333	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1333/N1355	N1333/N1355	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1355/N1377	N1355/N1377	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1377/N1399	N1377/N1399	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1399/N1421	N1399/N1421	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1421/N1742	N1421/N1443	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1742/N1443	N1421/N1443	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1443/N1465	N1443/N1465	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1465/N1487	N1465/N1487	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1487/N1509	N1487/N1509	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1509/N1531	N1509/N1531	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1585/N1607	N1585/N1607	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 13/11/24

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1607/N1629	N1607/N1629	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1629/N1651	N1629/N1651	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N892/N914	N892/N914	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N914/N936	N914/N936	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N936/N958	N936/N958	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N958/N980	N958/N980	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N980/N1002	N980/N1002	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1002/N1024	N1002/N1024	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1024/N1861	N1024/N1046	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1861/N1046	N1024/N1046	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1046/N1068	N1046/N1068	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1068/N1090	N1068/N1090	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1090/N1112	N1090/N1112	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1112/N1134	N1112/N1134	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1134/N1156	N1134/N1156	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1156/N1821	N1156/N1178	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1821/N1178	N1156/N1178	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1178/N1200	N1178/N1200	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1200/N1222	N1200/N1222	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1222/N1244	N1222/N1244	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1244/N1266	N1244/N1266	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1266/N1288	N1266/N1288	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1288/N1781	N1288/N1310	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1781/N1310	N1288/N1310	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1310/N1332	N1310/N1332	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1332/N1354	N1332/N1354	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1354/N1376	N1354/N1376	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1376/N1398	N1376/N1398	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1398/N1420	N1398/N1420	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1420/N1741	N1420/N1442	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1741/N1442	N1420/N1442	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1442/N1464	N1442/N1464	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1464/N1486	N1464/N1486	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1486/N1508	N1486/N1508	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1508/N1530	N1508/N1530	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1584/N1606	N1584/N1606	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1606/N1628	N1606/N1628	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1628/N1650	N1628/N1650	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N891/N913	N891/N913	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N913/N935	N913/N935	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N935/N957	N935/N957	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N957/N979	N957/N979	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N979/N1001	N979/N1001	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1001/N1023	N1001/N1023	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1023/N1860	N1023/N1045	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1860/N1045	N1023/N1045	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1045/N1067	N1045/N1067	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1067/N1089	N1067/N1089	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1089/N1111	N1089/N1111	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1111/N1133	N1111/N1133	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1133/N1155	N1133/N1155	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1155/N1820	N1155/N1177	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1820/N1177	N1155/N1177	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1177/N1199	N1177/N1199	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1199/N1221	N1199/N1221	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1221/N1243	N1221/N1243	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1243/N1265	N1243/N1265	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1265/N1287	N1265/N1287	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1287/N1780	N1287/N1309	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1780/N1309	N1287/N1309	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1309/N1331	N1309/N1331	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1331/N1353	N1331/N1353	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1353/N1375	N1353/N1375	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1375/N1397	N1375/N1397	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1397/N1419	N1397/N1419	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1419/N1740	N1419/N1441	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1740/N1441	N1419/N1441	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1441/N1463	N1441/N1463	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1463/N1485	N1463/N1485	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1485/N1507	N1485/N1507	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1507/N1529	N1507/N1529	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1529/N1549	N1529/N1549	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1549/N1900	N1549/N1565	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1900/N1565	N1549/N1565	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1565/N1583	N1565/N1583	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1583/N1605	N1583/N1605	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1605/N1627	N1605/N1627	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1627/N1649	N1627/N1649	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N890/N912	N890/N912	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N912/N934	N912/N934	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N934/N956	N934/N956	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N956/N978	N956/N978	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N978/N1000	N978/N1000	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1000/N1022	N1000/N1022	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1022/N1859	N1022/N1044	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1859/N1044	N1022/N1044	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1044/N1066	N1044/N1066	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1066/N1088	N1066/N1088	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1088/N1110	N1088/N1110	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1110/N1132	N1110/N1132	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1132/N1154	N1132/N1154	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1154/N1819	N1154/N1176	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1819/N1176	N1154/N1176	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1176/N1198	N1176/N1198	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1198/N1220	N1198/N1220	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1220/N1242	N1220/N1242	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1242/N1264	N1242/N1264	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1264/N1286	N1264/N1286	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1286/N1779	N1286/N1308	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1779/N1308	N1286/N1308	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1308/N1330	N1308/N1330	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1330/N1352	N1330/N1352	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1352/N1374	N1352/N1374	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1374/N1396	N1374/N1396	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1396/N1418	N1396/N1418	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1418/N1739	N1418/N1440	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1739/N1440	N1418/N1440	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1440/N1462	N1440/N1462	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1462/N1484	N1462/N1484	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1484/N1506	N1484/N1506	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1506/N1528	N1506/N1528	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1528/N1548	N1528/N1548	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 13/11/24

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1548/N1899	N1548/N1564	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1899/N1564	N1548/N1564	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1564/N1582	N1564/N1582	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1582/N1604	N1582/N1604	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1604/N1626	N1604/N1626	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1626/N1648	N1626/N1648	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N889/N911	N889/N911	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N911/N933	N911/N933	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N933/N955	N933/N955	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N955/N977	N955/N977	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N977/N999	N977/N999	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N999/N1021	N999/N1021	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1021/N1849	N1021/N1043	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1849/N1043	N1021/N1043	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1043/N1065	N1043/N1065	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1065/N1087	N1065/N1087	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1087/N1109	N1087/N1109	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1109/N1131	N1109/N1131	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1131/N1153	N1131/N1153	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1153/N1809	N1153/N1175	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1809/N1175	N1153/N1175	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1175/N1197	N1175/N1197	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1197/N1219	N1197/N1219	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1219/N1241	N1219/N1241	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1241/N1263	N1241/N1263	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1263/N1285	N1263/N1285	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1285/N1769	N1285/N1307	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1769/N1307	N1285/N1307	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1307/N1329	N1307/N1329	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1329/N1351	N1329/N1351	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1351/N1373	N1351/N1373	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1373/N1395	N1373/N1395	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1395/N1417	N1395/N1417	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1417/N1738	N1417/N1439	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1738/N1439	N1417/N1439	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1439/N1461	N1439/N1461	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1461/N1483	N1461/N1483	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1483/N1505	N1483/N1505	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1505/N1527	N1505/N1527	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1527/N1547	N1527/N1547	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1547/N1889	N1547/N1563	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1889/N1563	N1547/N1563	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1563/N1581	N1563/N1581	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1581/N1603	N1581/N1603	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1603/N1625	N1603/N1625	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1625/N1647	N1625/N1647	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N888/N910	N888/N910	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N910/N932	N910/N932	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N932/N954	N932/N954	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N954/N976	N954/N976	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N976/N998	N976/N998	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N998/N1020	N998/N1020	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1020/N1848	N1020/N1042	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1848/N1042	N1020/N1042	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1042/N1064	N1042/N1064	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1064/N1086	N1064/N1086	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1086/N1108	N1086/N1108	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1108/N1130	N1108/N1130	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1130/N1152	N1130/N1152	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1152/N1808	N1152/N1174	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1808/N1174	N1152/N1174	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1174/N1196	N1174/N1196	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1196/N1218	N1196/N1218	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1218/N1240	N1218/N1240	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1240/N1262	N1240/N1262	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1262/N1284	N1262/N1284	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1284/N1768	N1284/N1306	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1768/N1306	N1284/N1306	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1306/N1328	N1306/N1328	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1328/N1350	N1328/N1350	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1350/N1372	N1350/N1372	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1372/N1394	N1372/N1394	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1394/N1416	N1394/N1416	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1416/N1737	N1416/N1438	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1737/N1438	N1416/N1438	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1438/N1460	N1438/N1460	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1460/N1482	N1460/N1482	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1482/N1504	N1482/N1504	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1504/N1526	N1504/N1526	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1580/N1602	N1580/N1602	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1602/N1624	N1602/N1624	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1624/N1646	N1624/N1646	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N887/N909	N887/N909	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N909/N931	N909/N931	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N931/N953	N931/N953	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N953/N975	N953/N975	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N975/N997	N975/N997	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N997/N1019	N997/N1019	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1019/N1847	N1019/N1041	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1847/N1041	N1019/N1041	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1041/N1063	N1041/N1063	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1063/N1085	N1063/N1085	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1085/N1107	N1085/N1107	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1107/N1129	N1107/N1129	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1129/N1151	N1129/N1151	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1151/N1807	N1151/N1173	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1807/N1173	N1151/N1173	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1173/N1195	N1173/N1195	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1195/N1217	N1195/N1217	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1217/N1239	N1217/N1239	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1239/N1261	N1239/N1261	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1261/N1283	N1261/N1283	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1283/N1767	N1283/N1305	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1767/N1305	N1283/N1305	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1305/N1327	N1305/N1327	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1327/N1349	N1327/N1349	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1349/N1371	N1349/N1371	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1371/N1393	N1371/N1393	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1393/N1415	N1393/N1415	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1415/N1736	N1415/N1437	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1736/N1437	N1415/N1437	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1437/N1459	N1437/N1459	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 13/11/24

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1459/N1481	N1459/N1481	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1481/N1503	N1481/N1503	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1503/N1525	N1503/N1525	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1579/N1601	N1579/N1601	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1601/N1623	N1601/N1623	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1623/N1645	N1623/N1645	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N886/N908	N886/N908	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N908/N930	N908/N930	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N930/N952	N930/N952	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N952/N974	N952/N974	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N974/N996	N974/N996	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N996/N1018	N996/N1018	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1018/N1846	N1018/N1040	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1846/N1040	N1018/N1040	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1040/N1062	N1040/N1062	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1062/N1084	N1062/N1084	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1084/N1106	N1084/N1106	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1106/N1128	N1106/N1128	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1128/N1150	N1128/N1150	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1150/N1806	N1150/N1172	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1806/N1172	N1150/N1172	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1172/N1194	N1172/N1194	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1194/N1216	N1194/N1216	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1216/N1238	N1216/N1238	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1238/N1260	N1238/N1260	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1260/N1282	N1260/N1282	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1282/N1766	N1282/N1304	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1766/N1304	N1282/N1304	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1304/N1326	N1304/N1326	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1326/N1348	N1326/N1348	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1348/N1370	N1348/N1370	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1370/N1392	N1370/N1392	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1392/N1414	N1392/N1414	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1414/N1735	N1414/N1436	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1735/N1436	N1414/N1436	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1436/N1458	N1436/N1458	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1458/N1480	N1458/N1480	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1480/N1502	N1480/N1502	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1502/N1524	N1502/N1524	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1524/N1546	N1524/N1546	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1546/N1886	N1546/N1562	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1886/N1562	N1546/N1562	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1562/N1578	N1562/N1578	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1578/N1600	N1578/N1600	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1600/N1622	N1600/N1622	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1622/N1644	N1622/N1644	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N885/N907	N885/N907	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N907/N929	N907/N929	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N929/N951	N929/N951	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N951/N973	N951/N973	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N973/N995	N973/N995	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N995/N1017	N995/N1017	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1017/N1845	N1017/N1039	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1845/N1039	N1017/N1039	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1039/N1061	N1039/N1061	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1061/N1083	N1061/N1083	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1083/N1105	N1083/N1105	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1105/N1127	N1105/N1127	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1127/N1149	N1127/N1149	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1149/N1805	N1149/N1171	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1805/N1171	N1149/N1171	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1171/N1193	N1171/N1193	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1193/N1215	N1193/N1215	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1215/N1237	N1215/N1237	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1237/N1259	N1237/N1259	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1259/N1281	N1259/N1281	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1281/N1765	N1281/N1303	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1765/N1303	N1281/N1303	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1303/N1325	N1303/N1325	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1325/N1347	N1325/N1347	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1347/N1369	N1347/N1369	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1369/N1391	N1369/N1391	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1391/N1413	N1391/N1413	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1413/N1734	N1413/N1435	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1734/N1435	N1413/N1435	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1435/N1457	N1435/N1457	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1457/N1479	N1457/N1479	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1479/N1501	N1479/N1501	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1501/N1523	N1501/N1523	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1523/N1545	N1523/N1545	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1545/N1885	N1545/N1561	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1885/N1561	N1545/N1561	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1561/N1577	N1561/N1577	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1577/N1599	N1577/N1599	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1599/N1621	N1599/N1621	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1621/N1643	N1621/N1643	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N884/N906	N884/N906	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N906/N928	N906/N928	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N928/N950	N928/N950	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N950/N972	N950/N972	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N972/N994	N972/N994	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N994/N1016	N994/N1016	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1016/N1844	N1016/N1038	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1844/N1038	N1016/N1038	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1038/N1060	N1038/N1060	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1060/N1082	N1060/N1082	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1082/N1104	N1082/N1104	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1104/N1126	N1104/N1126	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1126/N1148	N1126/N1148	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1148/N1804	N1148/N1170	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1804/N1170	N1148/N1170	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1170/N1192	N1170/N1192	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1192/N1214	N1192/N1214	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1214/N1236	N1214/N1236	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1236/N1258	N1236/N1258	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1258/N1280	N1258/N1280	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1280/N1764	N1280/N1302	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1764/N1302	N1280/N1302	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1302/N1324	N1302/N1324	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1324/N1346	N1324/N1346	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1346/N1368	N1346/N1368	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1368/N1390	N1368/N1390	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 13/11/24

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1390/N1412	N1390/N1412	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1412/N1733	N1412/N1434	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1733/N1434	N1412/N1434	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1434/N1456	N1434/N1456	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1456/N1478	N1456/N1478	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1478/N1500	N1478/N1500	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1500/N1522	N1500/N1522	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1522/N1544	N1522/N1544	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1544/N1884	N1544/N1560	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1884/N1560	N1544/N1560	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1560/N1576	N1560/N1576	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1576/N1598	N1576/N1598	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1598/N1620	N1598/N1620	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1620/N1642	N1620/N1642	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N883/N905	N883/N905	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N905/N927	N905/N927	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N927/N949	N927/N949	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N949/N971	N949/N971	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N971/N993	N971/N993	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N993/N1015	N993/N1015	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1015/N1856	N1015/N1037	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1856/N1037	N1015/N1037	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1037/N1059	N1037/N1059	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1059/N1081	N1059/N1081	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1081/N1103	N1081/N1103	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1103/N1125	N1103/N1125	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1125/N1147	N1125/N1147	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1147/N1816	N1147/N1169	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1816/N1169	N1147/N1169	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1169/N1191	N1169/N1191	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1191/N1213	N1191/N1213	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1213/N1235	N1213/N1235	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1235/N1257	N1235/N1257	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1257/N1279	N1257/N1279	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1279/N1776	N1279/N1301	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1776/N1301	N1279/N1301	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1301/N1323	N1301/N1323	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1323/N1345	N1323/N1345	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1345/N1367	N1345/N1367	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1367/N1389	N1367/N1389	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1389/N1411	N1389/N1411	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1411/N1732	N1411/N1433	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1732/N1433	N1411/N1433	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1433/N1455	N1433/N1455	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1455/N1477	N1455/N1477	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1477/N1499	N1477/N1499	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1499/N1521	N1499/N1521	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1521/N1543	N1521/N1543	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1543/N1896	N1543/N1559	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1896/N1559	N1543/N1559	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1559/N1575	N1559/N1575	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1575/N1597	N1575/N1597	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1597/N1619	N1597/N1619	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1619/N1641	N1619/N1641	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N882/N904	N882/N904	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N904/N926	N904/N926	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N926/N948	N926/N948	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N948/N970	N948/N970	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N970/N992	N970/N992	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N992/N1014	N992/N1014	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1014/N1036	N1014/N1036	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1036/N1058	N1036/N1058	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1058/N1080	N1058/N1080	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1080/N1102	N1080/N1102	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1102/N1124	N1102/N1124	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1124/N1146	N1124/N1146	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1146/N1168	N1146/N1168	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1168/N1190	N1168/N1190	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1190/N1212	N1190/N1212	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1212/N1234	N1212/N1234	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1234/N1256	N1234/N1256	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1256/N1278	N1256/N1278	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1278/N1300	N1278/N1300	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1300/N1322	N1300/N1322	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1322/N1344	N1322/N1344	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1344/N1366	N1344/N1366	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1366/N1388	N1366/N1388	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1388/N1410	N1388/N1410	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1410/N1432	N1410/N1432	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1432/N1454	N1432/N1454	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1454/N1476	N1454/N1476	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1476/N1498	N1476/N1498	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1498/N1520	N1498/N1520	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1520/N1542	N1520/N1542	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1542/N1558	N1542/N1558	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1558/N1574	N1558/N1574	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1574/N1596	N1574/N1596	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1596/N1618	N1596/N1618	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1618/N1640	N1618/N1640	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N903/N32	N903/N32	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N903/N55	N903/N55	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N902/N55	N902/N55	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N902/N54	N902/N54	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N901/N54	N901/N54	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N901/N53	N901/N53	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N900/N53	N900/N53	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N900/N52	N900/N52	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N899/N52	N899/N52	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N899/N51	N899/N51	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N898/N51	N898/N51	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N898/N50	N898/N50	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N897/N50	N897/N50	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N897/N49	N897/N49	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N896/N49	N896/N49	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N896/N48	N896/N48	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N895/N48	N895/N48	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N895/N47	N895/N47	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N894/N47	N894/N47	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N894/N46	N894/N46	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N893/N46	N893/N46	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N893/N45	N893/N45	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N892/N45	N892/N45	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N892/N44	N892/N44	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N891/N44	N891/N44	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N891/N43	N891/N43	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N890/N43	N890/N43	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N890/N42	N890/N42	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N889/N42	N889/N42	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N889/N41	N889/N41	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N888/N41	N888/N41	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N888/N40	N888/N40	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N887/N40	N887/N40	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N887/N39	N887/N39	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N886/N39	N886/N39	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N886/N38	N886/N38	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N885/N38	N885/N38	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N885/N37	N885/N37	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N884/N37	N884/N37	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N884/N36	N884/N36	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N883/N36	N883/N36	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N883/N35	N883/N35	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N882/N35	N882/N35	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N882/N33	N882/N33	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N903/N78	N903/N78	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N903/N77	N903/N77	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N902/N77	N902/N77	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N902/N76	N902/N76	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N901/N76	N901/N76	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N901/N75	N901/N75	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N900/N75	N900/N75	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N900/N74	N900/N74	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N899/N74	N899/N74	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N899/N73	N899/N73	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N898/N73	N898/N73	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N898/N72	N898/N72	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N897/N72	N897/N72	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N897/N71	N897/N71	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N896/N71	N896/N71	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N896/N70	N896/N70	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N895/N70	N895/N70	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N895/N69	N895/N69	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N894/N69	N894/N69	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N894/N68	N894/N68	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N893/N68	N893/N68	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N893/N67	N893/N67	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N892/N67	N892/N67	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N892/N66	N892/N66	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N891/N66	N891/N66	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N891/N65	N891/N65	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N890/N65	N890/N65	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N890/N64	N890/N64	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N889/N64	N889/N64	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N889/N63	N889/N63	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N888/N63	N888/N63	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N888/N62	N888/N62	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N887/N62	N887/N62	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N887/N61	N887/N61	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N886/N61	N886/N61	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N886/N60	N886/N60	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N885/N60	N885/N60	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N885/N59	N885/N59	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N884/N59	N884/N59	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N884/N58	N884/N58	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N883/N58	N883/N58	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N883/N57	N883/N57	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N882/N57	N882/N57	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N882/N56	N882/N56	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N925/N78	N925/N78	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N925/N77	N925/N77	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N924/N77	N924/N77	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N924/N76	N924/N76	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N923/N76	N923/N76	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N923/N75	N923/N75	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N922/N75	N922/N75	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N922/N74	N922/N74	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N921/N74	N921/N74	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N921/N73	N921/N73	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N920/N73	N920/N73	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N920/N72	N920/N72	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N919/N72	N919/N72	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N919/N71	N919/N71	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N918/N71	N918/N71	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N918/N70	N918/N70	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N917/N70	N917/N70	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N917/N69	N917/N69	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N916/N69	N916/N69	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N916/N68	N916/N68	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N915/N68	N915/N68	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N915/N67	N915/N67	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N914/N67	N914/N67	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N914/N66	N914/N66	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N913/N66	N913/N66	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N913/N65	N913/N65	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N912/N65	N912/N65	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N912/N64	N912/N64	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N911/N64	N911/N64	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N911/N63	N911/N63	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N910/N63	N910/N63	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N910/N62	N910/N62	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N909/N62	N909/N62	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N909/N61	N909/N61	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N908/N61	N908/N61	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N908/N60	N908/N60	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N907/N60	N907/N60	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N907/N59	N907/N59	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N906/N59	N906/N59	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N906/N58	N906/N58	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N905/N58	N905/N58	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N905/N57	N905/N57	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N904/N57	N904/N57	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N904/N56	N904/N56	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N925/N101	N925/N101	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N925/N100	N925/N100	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N924/N100	N924/N100	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 13/11/24

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N924/N99	N924/N99	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N923/N99	N923/N99	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N923/N98	N923/N98	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N922/N98	N922/N98	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N922/N97	N922/N97	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N921/N97	N921/N97	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N921/N96	N921/N96	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N920/N96	N920/N96	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N920/N95	N920/N95	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N919/N95	N919/N95	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N919/N94	N919/N94	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N918/N94	N918/N94	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N918/N93	N918/N93	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N917/N93	N917/N93	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N917/N92	N917/N92	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N916/N92	N916/N92	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N916/N91	N916/N91	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N915/N91	N915/N91	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N915/N90	N915/N90	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N914/N90	N914/N90	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N914/N89	N914/N89	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N913/N89	N913/N89	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N913/N88	N913/N88	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N912/N88	N912/N88	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N912/N87	N912/N87	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N911/N87	N911/N87	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N911/N86	N911/N86	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N910/N86	N910/N86	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N910/N85	N910/N85	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N909/N85	N909/N85	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N909/N84	N909/N84	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N908/N84	N908/N84	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N908/N83	N908/N83	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N907/N83	N907/N83	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N907/N82	N907/N82	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N906/N82	N906/N82	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N906/N81	N906/N81	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N905/N81	N905/N81	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N905/N80	N905/N80	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N904/N80	N904/N80	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N904/N79	N904/N79	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N947/N101	N947/N101	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N947/N100	N947/N100	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N946/N100	N946/N100	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N946/N99	N946/N99	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N945/N99	N945/N99	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N945/N98	N945/N98	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N944/N98	N944/N98	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N944/N97	N944/N97	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N943/N97	N943/N97	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N943/N96	N943/N96	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N942/N96	N942/N96	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N942/N95	N942/N95	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N941/N95	N941/N95	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N941/N94	N941/N94	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N940/N94	N940/N94	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N940/N93	N940/N93	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N939/N93	N939/N93	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N939/N92	N939/N92	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N938/N92	N938/N92	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N938/N91	N938/N91	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N937/N91	N937/N91	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N937/N90	N937/N90	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N936/N90	N936/N90	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N936/N89	N936/N89	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N935/N89	N935/N89	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N935/N88	N935/N88	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N934/N88	N934/N88	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N934/N87	N934/N87	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N933/N87	N933/N87	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N933/N86	N933/N86	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N932/N86	N932/N86	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N932/N85	N932/N85	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N931/N85	N931/N85	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N931/N84	N931/N84	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N930/N84	N930/N84	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N930/N83	N930/N83	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N929/N83	N929/N83	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N929/N82	N929/N82	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N928/N82	N928/N82	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N928/N81	N928/N81	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N927/N81	N927/N81	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N927/N80	N927/N80	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N926/N80	N926/N80	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N926/N79	N926/N79	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N947/N124	N947/N124	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N947/N123	N947/N123	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N946/N123	N946/N123	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N946/N122	N946/N122	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N945/N122	N945/N122	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N945/N121	N945/N121	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N944/N121	N944/N121	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N944/N120	N944/N120	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N943/N120	N943/N120	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N943/N119	N943/N119	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N942/N119	N942/N119	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N942/N118	N942/N118	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N941/N118	N941/N118	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N941/N117	N941/N117	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N940/N117	N940/N117	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N940/N116	N940/N116	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N939/N116	N939/N116	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N939/N115	N939/N115	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N938/N115	N938/N115	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N938/N114	N938/N114	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N937/N114	N937/N114	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N937/N113	N937/N113	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N936/N113	N936/N113	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N936/N112	N936/N112	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N935/N112	N935/N112	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N935/N111	N935/N111	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N934/N111	N934/N111	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 13/11/24

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N934/N110	N934/N110	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N933/N110	N933/N110	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N933/N109	N933/N109	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N932/N109	N932/N109	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N932/N108	N932/N108	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N931/N108	N931/N108	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N931/N107	N931/N107	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N930/N107	N930/N107	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N930/N106	N930/N106	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N929/N106	N929/N106	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N929/N105	N929/N105	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N928/N105	N928/N105	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N928/N104	N928/N104	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N927/N104	N927/N104	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N927/N103	N927/N103	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N926/N103	N926/N103	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N926/N102	N926/N102	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N969/N124	N969/N124	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N969/N123	N969/N123	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N968/N123	N968/N123	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N968/N122	N968/N122	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N967/N122	N967/N122	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N967/N121	N967/N121	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N966/N121	N966/N121	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N966/N120	N966/N120	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N965/N120	N965/N120	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N965/N119	N965/N119	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N964/N119	N964/N119	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N964/N118	N964/N118	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N963/N118	N963/N118	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N963/N117	N963/N117	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N962/N117	N962/N117	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N962/N116	N962/N116	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N961/N116	N961/N116	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N961/N115	N961/N115	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N960/N115	N960/N115	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N960/N114	N960/N114	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N959/N114	N959/N114	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N959/N113	N959/N113	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N958/N113	N958/N113	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N958/N112	N958/N112	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N957/N112	N957/N112	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N957/N111	N957/N111	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N956/N111	N956/N111	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N956/N110	N956/N110	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N955/N110	N955/N110	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N955/N109	N955/N109	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N954/N109	N954/N109	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N954/N108	N954/N108	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N953/N108	N953/N108	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N953/N107	N953/N107	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N952/N107	N952/N107	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N952/N106	N952/N106	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N951/N106	N951/N106	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N951/N105	N951/N105	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N950/N105	N950/N105	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N950/N104	N950/N104	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N949/N104	N949/N104	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N949/N103	N949/N103	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N948/N103	N948/N103	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N948/N102	N948/N102	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N969/N147	N969/N147	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N969/N146	N969/N146	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N968/N146	N968/N146	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N968/N145	N968/N145	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N967/N145	N967/N145	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N967/N144	N967/N144	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N966/N144	N966/N144	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N966/N143	N966/N143	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N965/N143	N965/N143	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N965/N142	N965/N142	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N964/N142	N964/N142	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N964/N141	N964/N141	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N963/N141	N963/N141	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N963/N140	N963/N140	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N962/N140	N962/N140	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N962/N139	N962/N139	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N961/N139	N961/N139	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N961/N138	N961/N138	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N960/N138	N960/N138	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N960/N137	N960/N137	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N959/N137	N959/N137	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N959/N136	N959/N136	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N958/N136	N958/N136	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N958/N135	N958/N135	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N957/N135	N957/N135	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N957/N134	N957/N134	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N956/N134	N956/N134	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N956/N133	N956/N133	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N955/N133	N955/N133	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N955/N132	N955/N132	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N954/N132	N954/N132	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N954/N131	N954/N131	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N953/N131	N953/N131	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N953/N130	N953/N130	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N952/N130	N952/N130	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N952/N129	N952/N129	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N951/N129	N951/N129	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N951/N128	N951/N128	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N950/N128	N950/N128	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N950/N127	N950/N127	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N949/N127	N949/N127	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N949/N126	N949/N126	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N948/N126	N948/N126	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N948/N125	N948/N125	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N991/N147	N991/N147	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N991/N146	N991/N146	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N990/N146	N990/N146	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N990/N145	N990/N145	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N989/N145	N989/N145	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N989/N144	N989/N144	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N988/N144	N988/N144	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N988/N143	N988/N143	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N987/N143	N987/N143	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N987/N142	N987/N142	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N986/N142	N986/N142	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N986/N141	N986/N141	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N985/N141	N985/N141	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N985/N140	N985/N140	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N984/N140	N984/N140	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N984/N139	N984/N139	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N983/N139	N983/N139	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N983/N138	N983/N138	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N982/N138	N982/N138	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N982/N137	N982/N137	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N981/N137	N981/N137	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N981/N136	N981/N136	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N980/N136	N980/N136	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N980/N135	N980/N135	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N979/N135	N979/N135	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N979/N134	N979/N134	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N978/N134	N978/N134	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N978/N133	N978/N133	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N977/N133	N977/N133	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N977/N132	N977/N132	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N976/N132	N976/N132	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N976/N131	N976/N131	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N975/N131	N975/N131	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N975/N130	N975/N130	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N974/N130	N974/N130	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N974/N129	N974/N129	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N973/N129	N973/N129	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N973/N128	N973/N128	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N972/N128	N972/N128	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N972/N127	N972/N127	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N971/N127	N971/N127	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N971/N126	N971/N126	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N970/N126	N970/N126	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N970/N125	N970/N125	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N991/N170	N991/N170	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N991/N169	N991/N169	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N990/N169	N990/N169	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N990/N168	N990/N168	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N989/N168	N989/N168	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N989/N167	N989/N167	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N988/N167	N988/N167	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N988/N166	N988/N166	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N987/N166	N987/N166	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N987/N165	N987/N165	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N986/N165	N986/N165	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N986/N164	N986/N164	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N985/N164	N985/N164	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N985/N163	N985/N163	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N984/N163	N984/N163	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N984/N162	N984/N162	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N983/N162	N983/N162	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N983/N161	N983/N161	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N982/N161	N982/N161	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N982/N160	N982/N160	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N981/N160	N981/N160	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N981/N159	N981/N159	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N980/N159	N980/N159	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N980/N158	N980/N158	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N979/N158	N979/N158	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N979/N157	N979/N157	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N978/N157	N978/N157	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N978/N156	N978/N156	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N977/N156	N977/N156	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N977/N155	N977/N155	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N976/N155	N976/N155	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N976/N154	N976/N154	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N975/N154	N975/N154	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N975/N153	N975/N153	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N974/N153	N974/N153	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N974/N152	N974/N152	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N973/N152	N973/N152	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N973/N151	N973/N151	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N972/N151	N972/N151	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N972/N150	N972/N150	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N971/N150	N971/N150	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N971/N149	N971/N149	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N970/N149	N970/N149	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N970/N148	N970/N148	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1013/N170	N1013/N170	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1013/N169	N1013/N169	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1012/N169	N1012/N169	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1012/N168	N1012/N168	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1011/N168	N1011/N168	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1011/N167	N1011/N167	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1010/N167	N1010/N167	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1010/N166	N1010/N166	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1009/N166	N1009/N166	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1009/N165	N1009/N165	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1008/N165	N1008/N165	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1008/N164	N1008/N164	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1007/N164	N1007/N164	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1007/N163	N1007/N163	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1006/N163	N1006/N163	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1006/N162	N1006/N162	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1005/N162	N1005/N162	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1005/N161	N1005/N161	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1004/N161	N1004/N161	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1004/N160	N1004/N160	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1003/N160	N1003/N160	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1003/N159	N1003/N159	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1002/N159	N1002/N159	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1002/N158	N1002/N158	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1001/N158	N1001/N158	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1001/N157	N1001/N157	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1000/N157	N1000/N157	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1000/N156	N1000/N156	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N999/N156	N999/N156	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N999/N155	N999/N155	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N998/N155	N998/N155	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 13/11/24

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N998/N154	N998/N154	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N997/N154	N997/N154	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N997/N153	N997/N153	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N996/N153	N996/N153	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N996/N152	N996/N152	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N995/N152	N995/N152	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N995/N151	N995/N151	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N994/N151	N994/N151	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N994/N150	N994/N150	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N993/N150	N993/N150	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N993/N149	N993/N149	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N992/N149	N992/N149	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N992/N148	N992/N148	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1013/N193	N1013/N193	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1013/N192	N1013/N192	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1012/N192	N1012/N192	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1012/N191	N1012/N191	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1011/N191	N1011/N191	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1011/N190	N1011/N190	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1010/N190	N1010/N190	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1010/N189	N1010/N189	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1009/N189	N1009/N189	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1009/N188	N1009/N188	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1008/N188	N1008/N188	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1008/N187	N1008/N187	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1007/N187	N1007/N187	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1007/N186	N1007/N186	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1006/N186	N1006/N186	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1006/N185	N1006/N185	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1005/N185	N1005/N185	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1005/N184	N1005/N184	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1004/N184	N1004/N184	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1004/N183	N1004/N183	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1003/N183	N1003/N183	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1003/N182	N1003/N182	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1002/N182	N1002/N182	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1002/N181	N1002/N181	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1001/N181	N1001/N181	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1001/N180	N1001/N180	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1000/N180	N1000/N180	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1000/N179	N1000/N179	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N999/N179	N999/N179	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N999/N178	N999/N178	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N998/N178	N998/N178	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N998/N177	N998/N177	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N997/N177	N997/N177	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N997/N176	N997/N176	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N996/N176	N996/N176	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N996/N175	N996/N175	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N995/N175	N995/N175	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N995/N174	N995/N174	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N994/N174	N994/N174	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N994/N173	N994/N173	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N993/N173	N993/N173	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N993/N172	N993/N172	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N992/N172	N992/N172	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N992/N171	N992/N171	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1035/N193	N1035/N193	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1035/N192	N1035/N192	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1034/N192	N1034/N192	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1034/N191	N1034/N191	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1033/N191	N1033/N191	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1033/N190	N1033/N190	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1032/N190	N1032/N190	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1032/N189	N1032/N189	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1031/N189	N1031/N189	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1031/N188	N1031/N188	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1030/N188	N1030/N188	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1030/N187	N1030/N187	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1029/N187	N1029/N187	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1029/N186	N1029/N186	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1028/N186	N1028/N186	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1028/N185	N1028/N185	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1027/N185	N1027/N185	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1027/N184	N1027/N184	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1026/N184	N1026/N184	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1026/N183	N1026/N183	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1025/N183	N1025/N183	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1025/N182	N1025/N182	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1024/N182	N1024/N182	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1024/N181	N1024/N181	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1023/N181	N1023/N181	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1023/N180	N1023/N180	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1022/N180	N1022/N180	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1022/N179	N1022/N179	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1021/N179	N1021/N179	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1021/N178	N1021/N178	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1020/N178	N1020/N178	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1020/N177	N1020/N177	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1019/N177	N1019/N177	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1019/N176	N1019/N176	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1018/N176	N1018/N176	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1018/N175	N1018/N175	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1017/N175	N1017/N175	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1017/N174	N1017/N174	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1016/N174	N1016/N174	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1016/N173	N1016/N173	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1015/N173	N1015/N173	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1015/N172	N1015/N172	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1014/N172	N1014/N172	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1014/N171	N1014/N171	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1035/N216	N1035/N216	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1035/N215	N1035/N215	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1034/N215	N1034/N215	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1034/N214	N1034/N214	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1033/N214	N1033/N214	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1033/N213	N1033/N213	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1032/N213	N1032/N213	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1032/N212	N1032/N212	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1031/N212	N1031/N212	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1031/N211	N1031/N211	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1030/N211	N1030/N211	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 13/11/24

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1030/N210	N1030/N210	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1029/N210	N1029/N210	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1029/N209	N1029/N209	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1028/N209	N1028/N209	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1028/N208	N1028/N208	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1027/N208	N1027/N208	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1027/N207	N1027/N207	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1026/N207	N1026/N207	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1026/N206	N1026/N206	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1025/N206	N1025/N206	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1025/N205	N1025/N205	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1024/N205	N1024/N205	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1024/N204	N1024/N204	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1023/N204	N1023/N204	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1023/N203	N1023/N203	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1022/N203	N1022/N203	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1022/N202	N1022/N202	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1021/N202	N1021/N202	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1021/N201	N1021/N201	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1020/N201	N1020/N201	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1020/N200	N1020/N200	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1019/N200	N1019/N200	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1019/N199	N1019/N199	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1018/N199	N1018/N199	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1018/N198	N1018/N198	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1017/N198	N1017/N198	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1017/N197	N1017/N197	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1016/N197	N1016/N197	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1016/N196	N1016/N196	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1015/N196	N1015/N196	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1015/N195	N1015/N195	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1014/N195	N1014/N195	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1014/N194	N1014/N194	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1057/N216	N1057/N216	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1057/N215	N1057/N215	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1056/N215	N1056/N215	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1056/N214	N1056/N214	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1055/N214	N1055/N214	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1055/N213	N1055/N213	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1054/N213	N1054/N213	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1054/N212	N1054/N212	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1053/N212	N1053/N212	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1053/N211	N1053/N211	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1052/N211	N1052/N211	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1052/N210	N1052/N210	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1051/N210	N1051/N210	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1051/N209	N1051/N209	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1050/N209	N1050/N209	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1050/N208	N1050/N208	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1049/N208	N1049/N208	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1049/N207	N1049/N207	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1048/N207	N1048/N207	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1048/N206	N1048/N206	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1047/N206	N1047/N206	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1047/N205	N1047/N205	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1046/N205	N1046/N205	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1046/N204	N1046/N204	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1045/N204	N1045/N204	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1045/N203	N1045/N203	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1044/N203	N1044/N203	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1044/N202	N1044/N202	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1043/N202	N1043/N202	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1043/N201	N1043/N201	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1042/N201	N1042/N201	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1042/N200	N1042/N200	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1041/N200	N1041/N200	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1041/N199	N1041/N199	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1040/N199	N1040/N199	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1040/N198	N1040/N198	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1039/N198	N1039/N198	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1039/N197	N1039/N197	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1038/N197	N1038/N197	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1038/N196	N1038/N196	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1037/N196	N1037/N196	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1037/N195	N1037/N195	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1036/N195	N1036/N195	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1036/N194	N1036/N194	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1057/N239	N1057/N239	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1057/N238	N1057/N238	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1056/N238	N1056/N238	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1056/N237	N1056/N237	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1055/N237	N1055/N237	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1055/N236	N1055/N236	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1054/N236	N1054/N236	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1054/N235	N1054/N235	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1053/N235	N1053/N235	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1053/N234	N1053/N234	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1052/N234	N1052/N234	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1052/N233	N1052/N233	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1051/N233	N1051/N233	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1051/N232	N1051/N232	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1050/N232	N1050/N232	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1050/N231	N1050/N231	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1049/N231	N1049/N231	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1049/N230	N1049/N230	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1048/N230	N1048/N230	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1048/N229	N1048/N229	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1047/N229	N1047/N229	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1047/N228	N1047/N228	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1046/N228	N1046/N228	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1046/N227	N1046/N227	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1045/N227	N1045/N227	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1045/N226	N1045/N226	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1044/N226	N1044/N226	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1044/N225	N1044/N225	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1043/N225	N1043/N225	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1043/N224	N1043/N224	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1042/N224	N1042/N224	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1042/N223	N1042/N223	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1041/N223	N1041/N223	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1041/N222	N1041/N222	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1040/N222	N1040/N222	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 13/11/24

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1040/N221	N1040/N221	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1039/N221	N1039/N221	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1039/N220	N1039/N220	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1038/N220	N1038/N220	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1038/N219	N1038/N219	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1037/N219	N1037/N219	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1037/N218	N1037/N218	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1036/N218	N1036/N218	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1036/N217	N1036/N217	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1079/N239	N1079/N239	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1079/N238	N1079/N238	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1078/N238	N1078/N238	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1078/N237	N1078/N237	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1077/N237	N1077/N237	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1077/N236	N1077/N236	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1076/N236	N1076/N236	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1076/N235	N1076/N235	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1075/N235	N1075/N235	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1075/N234	N1075/N234	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1074/N234	N1074/N234	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1074/N233	N1074/N233	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1073/N233	N1073/N233	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1073/N232	N1073/N232	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1072/N232	N1072/N232	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1072/N231	N1072/N231	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1071/N231	N1071/N231	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1071/N230	N1071/N230	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1070/N230	N1070/N230	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1070/N229	N1070/N229	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1069/N229	N1069/N229	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1069/N228	N1069/N228	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1068/N228	N1068/N228	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1068/N227	N1068/N227	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1067/N227	N1067/N227	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1067/N226	N1067/N226	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1066/N226	N1066/N226	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1066/N225	N1066/N225	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1065/N225	N1065/N225	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1065/N224	N1065/N224	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1064/N224	N1064/N224	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1064/N223	N1064/N223	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1063/N223	N1063/N223	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1063/N222	N1063/N222	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1062/N222	N1062/N222	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1062/N221	N1062/N221	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1061/N221	N1061/N221	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1061/N220	N1061/N220	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1060/N220	N1060/N220	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1060/N219	N1060/N219	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1059/N219	N1059/N219	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1059/N218	N1059/N218	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1058/N218	N1058/N218	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1058/N217	N1058/N217	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1079/N262	N1079/N262	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1079/N261	N1079/N261	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1078/N261	N1078/N261	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1078/N260	N1078/N260	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1077/N260	N1077/N260	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1077/N259	N1077/N259	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1076/N259	N1076/N259	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1076/N258	N1076/N258	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1075/N258	N1075/N258	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1075/N257	N1075/N257	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1074/N257	N1074/N257	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1074/N256	N1074/N256	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1073/N256	N1073/N256	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1073/N255	N1073/N255	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1072/N255	N1072/N255	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1072/N254	N1072/N254	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1071/N254	N1071/N254	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1071/N253	N1071/N253	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1070/N253	N1070/N253	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1070/N252	N1070/N252	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1069/N252	N1069/N252	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1069/N251	N1069/N251	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1068/N251	N1068/N251	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1068/N250	N1068/N250	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1067/N250	N1067/N250	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1067/N249	N1067/N249	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1066/N249	N1066/N249	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1066/N248	N1066/N248	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1065/N248	N1065/N248	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1065/N247	N1065/N247	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1064/N247	N1064/N247	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1064/N246	N1064/N246	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1063/N246	N1063/N246	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1063/N245	N1063/N245	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1062/N245	N1062/N245	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1062/N244	N1062/N244	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1061/N244	N1061/N244	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1061/N243	N1061/N243	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1060/N243	N1060/N243	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1060/N242	N1060/N242	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1059/N242	N1059/N242	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1059/N241	N1059/N241	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1058/N241	N1058/N241	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1058/N240	N1058/N240	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1101/N262	N1101/N262	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1101/N261	N1101/N261	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1100/N261	N1100/N261	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1100/N260	N1100/N260	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1099/N260	N1099/N260	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1099/N259	N1099/N259	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1098/N259	N1098/N259	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1098/N258	N1098/N258	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1097/N258	N1097/N258	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1097/N257	N1097/N257	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1096/N257	N1096/N257	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1096/N256	N1096/N256	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1095/N256	N1095/N256	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1095/N255	N1095/N255	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1094/N255	N1094/N255	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 13/11/24

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1094/N254	N1094/N254	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1093/N254	N1093/N254	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1093/N253	N1093/N253	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1092/N253	N1092/N253	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1092/N252	N1092/N252	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1091/N252	N1091/N252	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1091/N251	N1091/N251	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1090/N251	N1090/N251	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1090/N250	N1090/N250	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1089/N250	N1089/N250	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1089/N249	N1089/N249	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1088/N249	N1088/N249	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1088/N248	N1088/N248	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1087/N248	N1087/N248	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1087/N247	N1087/N247	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1086/N247	N1086/N247	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1086/N246	N1086/N246	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1085/N246	N1085/N246	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1085/N245	N1085/N245	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1084/N245	N1084/N245	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1084/N244	N1084/N244	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1083/N244	N1083/N244	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1083/N243	N1083/N243	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1082/N243	N1082/N243	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1082/N242	N1082/N242	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1081/N242	N1081/N242	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1081/N241	N1081/N241	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1080/N241	N1080/N241	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1080/N240	N1080/N240	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1101/N285	N1101/N285	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1101/N284	N1101/N284	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1100/N284	N1100/N284	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1100/N283	N1100/N283	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1099/N283	N1099/N283	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1099/N282	N1099/N282	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1098/N282	N1098/N282	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1098/N281	N1098/N281	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1097/N281	N1097/N281	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1097/N280	N1097/N280	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1096/N280	N1096/N280	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1096/N279	N1096/N279	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1095/N279	N1095/N279	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1095/N278	N1095/N278	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1094/N278	N1094/N278	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1094/N277	N1094/N277	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1093/N277	N1093/N277	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1093/N276	N1093/N276	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1092/N276	N1092/N276	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1092/N275	N1092/N275	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1091/N275	N1091/N275	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1091/N274	N1091/N274	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1090/N274	N1090/N274	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1090/N273	N1090/N273	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1089/N273	N1089/N273	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1089/N272	N1089/N272	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1088/N272	N1088/N272	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1088/N271	N1088/N271	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1087/N271	N1087/N271	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1087/N270	N1087/N270	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1086/N270	N1086/N270	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1086/N269	N1086/N269	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1085/N269	N1085/N269	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1085/N268	N1085/N268	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1084/N268	N1084/N268	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1084/N267	N1084/N267	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1083/N267	N1083/N267	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1083/N266	N1083/N266	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1082/N266	N1082/N266	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1082/N265	N1082/N265	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1081/N265	N1081/N265	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1081/N264	N1081/N264	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1080/N264	N1080/N264	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1080/N263	N1080/N263	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1123/N285	N1123/N285	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1123/N284	N1123/N284	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1122/N284	N1122/N284	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1122/N283	N1122/N283	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1121/N283	N1121/N283	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1121/N282	N1121/N282	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1120/N282	N1120/N282	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1120/N281	N1120/N281	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1119/N281	N1119/N281	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1119/N280	N1119/N280	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1118/N280	N1118/N280	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1118/N279	N1118/N279	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1117/N279	N1117/N279	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1117/N278	N1117/N278	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1116/N278	N1116/N278	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1116/N277	N1116/N277	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1115/N277	N1115/N277	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1115/N276	N1115/N276	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1114/N276	N1114/N276	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1114/N275	N1114/N275	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1113/N275	N1113/N275	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1113/N274	N1113/N274	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1112/N274	N1112/N274	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1112/N273	N1112/N273	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1111/N273	N1111/N273	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1111/N272	N1111/N272	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1110/N272	N1110/N272	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1110/N271	N1110/N271	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1109/N271	N1109/N271	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1109/N270	N1109/N270	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1108/N270	N1108/N270	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1108/N269	N1108/N269	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1107/N269	N1107/N269	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1107/N268	N1107/N268	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1106/N268	N1106/N268	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1106/N267	N1106/N267	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1105/N267	N1105/N267	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1105/N266	N1105/N266	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1104/N266	N1104/N266	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1104/N265	N1104/N265	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1103/N265	N1103/N265	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1103/N264	N1103/N264	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1102/N264	N1102/N264	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1102/N263	N1102/N263	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1123/N308	N1123/N308	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1123/N307	N1123/N307	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1122/N307	N1122/N307	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1122/N306	N1122/N306	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1121/N306	N1121/N306	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1121/N305	N1121/N305	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1120/N305	N1120/N305	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1120/N304	N1120/N304	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1119/N304	N1119/N304	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1119/N303	N1119/N303	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1118/N303	N1118/N303	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1118/N302	N1118/N302	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1117/N302	N1117/N302	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1117/N301	N1117/N301	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1116/N301	N1116/N301	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1116/N300	N1116/N300	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1115/N300	N1115/N300	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1115/N299	N1115/N299	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1114/N299	N1114/N299	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1114/N298	N1114/N298	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1113/N298	N1113/N298	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1113/N297	N1113/N297	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1112/N297	N1112/N297	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1112/N296	N1112/N296	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1111/N296	N1111/N296	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1111/N295	N1111/N295	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1110/N295	N1110/N295	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1110/N294	N1110/N294	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1109/N294	N1109/N294	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1109/N293	N1109/N293	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1108/N293	N1108/N293	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1108/N292	N1108/N292	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1107/N292	N1107/N292	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1107/N291	N1107/N291	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1106/N291	N1106/N291	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1106/N290	N1106/N290	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1105/N290	N1105/N290	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1105/N289	N1105/N289	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1104/N289	N1104/N289	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1104/N288	N1104/N288	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1103/N288	N1103/N288	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1103/N287	N1103/N287	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1102/N287	N1102/N287	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1102/N286	N1102/N286	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1145/N308	N1145/N308	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1145/N307	N1145/N307	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1144/N307	N1144/N307	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1144/N306	N1144/N306	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1143/N306	N1143/N306	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1143/N305	N1143/N305	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1142/N305	N1142/N305	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1142/N304	N1142/N304	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1141/N304	N1141/N304	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1141/N303	N1141/N303	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1140/N303	N1140/N303	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1140/N302	N1140/N302	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1139/N302	N1139/N302	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1139/N301	N1139/N301	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1138/N301	N1138/N301	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1138/N300	N1138/N300	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1137/N300	N1137/N300	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1137/N299	N1137/N299	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1136/N299	N1136/N299	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1136/N298	N1136/N298	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1135/N298	N1135/N298	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1135/N297	N1135/N297	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1134/N297	N1134/N297	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1134/N296	N1134/N296	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1133/N296	N1133/N296	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1133/N295	N1133/N295	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1132/N295	N1132/N295	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1132/N294	N1132/N294	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1131/N294	N1131/N294	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1131/N293	N1131/N293	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1130/N293	N1130/N293	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1130/N292	N1130/N292	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1129/N292	N1129/N292	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1129/N291	N1129/N291	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1128/N291	N1128/N291	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1128/N290	N1128/N290	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1127/N290	N1127/N290	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1127/N289	N1127/N289	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1126/N289	N1126/N289	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1126/N288	N1126/N288	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1125/N288	N1125/N288	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1125/N287	N1125/N287	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1124/N287	N1124/N287	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1124/N286	N1124/N286	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1145/N331	N1145/N331	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1145/N330	N1145/N330	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1144/N330	N1144/N330	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1144/N329	N1144/N329	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1143/N329	N1143/N329	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1143/N328	N1143/N328	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1142/N328	N1142/N328	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1142/N327	N1142/N327	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1141/N327	N1141/N327	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1141/N326	N1141/N326	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1140/N326	N1140/N326	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1140/N325	N1140/N325	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1139/N325	N1139/N325	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1139/N324	N1139/N324	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1138/N324	N1138/N324	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1138/N323	N1138/N323	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1137/N323	N1137/N323	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1137/N322	N1137/N322	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1136/N322	N1136/N322	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 13/11/24

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1136/N321	N1136/N321	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1135/N321	N1135/N321	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1135/N320	N1135/N320	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1134/N320	N1134/N320	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1134/N319	N1134/N319	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1133/N319	N1133/N319	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1133/N318	N1133/N318	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1132/N318	N1132/N318	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1132/N317	N1132/N317	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1131/N317	N1131/N317	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1131/N316	N1131/N316	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1130/N316	N1130/N316	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1130/N315	N1130/N315	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1129/N315	N1129/N315	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1129/N314	N1129/N314	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1128/N314	N1128/N314	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1128/N313	N1128/N313	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1127/N313	N1127/N313	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1127/N312	N1127/N312	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1126/N312	N1126/N312	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1126/N311	N1126/N311	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1125/N311	N1125/N311	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1125/N310	N1125/N310	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1124/N310	N1124/N310	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1124/N309	N1124/N309	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1167/N331	N1167/N331	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1167/N330	N1167/N330	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1166/N330	N1166/N330	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1166/N329	N1166/N329	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1165/N329	N1165/N329	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1165/N328	N1165/N328	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1164/N328	N1164/N328	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1164/N327	N1164/N327	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1163/N327	N1163/N327	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1163/N326	N1163/N326	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1162/N326	N1162/N326	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1162/N325	N1162/N325	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1161/N325	N1161/N325	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1161/N324	N1161/N324	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1160/N324	N1160/N324	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1160/N323	N1160/N323	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1159/N323	N1159/N323	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1159/N322	N1159/N322	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1158/N322	N1158/N322	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1158/N321	N1158/N321	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1157/N321	N1157/N321	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1157/N320	N1157/N320	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1156/N320	N1156/N320	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1156/N319	N1156/N319	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1155/N319	N1155/N319	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1155/N318	N1155/N318	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1154/N318	N1154/N318	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1154/N317	N1154/N317	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1153/N317	N1153/N317	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1153/N316	N1153/N316	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1152/N316	N1152/N316	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1152/N315	N1152/N315	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1151/N315	N1151/N315	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1151/N314	N1151/N314	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1150/N314	N1150/N314	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1150/N313	N1150/N313	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1149/N313	N1149/N313	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1149/N312	N1149/N312	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1148/N312	N1148/N312	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1148/N311	N1148/N311	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1147/N311	N1147/N311	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1147/N310	N1147/N310	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1146/N310	N1146/N310	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1146/N309	N1146/N309	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1167/N354	N1167/N354	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1167/N353	N1167/N353	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1166/N353	N1166/N353	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1166/N352	N1166/N352	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1165/N352	N1165/N352	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1165/N351	N1165/N351	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1164/N351	N1164/N351	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1164/N350	N1164/N350	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1163/N350	N1163/N350	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1163/N349	N1163/N349	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1162/N349	N1162/N349	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1162/N348	N1162/N348	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1161/N348	N1161/N348	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1161/N347	N1161/N347	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1160/N347	N1160/N347	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1160/N346	N1160/N346	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1159/N346	N1159/N346	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1159/N345	N1159/N345	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1158/N345	N1158/N345	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1158/N344	N1158/N344	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1157/N344	N1157/N344	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1157/N343	N1157/N343	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1156/N343	N1156/N343	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1156/N342	N1156/N342	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1155/N342	N1155/N342	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1155/N341	N1155/N341	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1154/N341	N1154/N341	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1154/N340	N1154/N340	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1153/N340	N1153/N340	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1153/N339	N1153/N339	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1152/N339	N1152/N339	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1152/N338	N1152/N338	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1151/N338	N1151/N338	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1151/N337	N1151/N337	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1150/N337	N1150/N337	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1150/N336	N1150/N336	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1149/N336	N1149/N336	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1149/N335	N1149/N335	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1148/N335	N1148/N335	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1148/N334	N1148/N334	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1147/N334	N1147/N334	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1147/N333	N1147/N333	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1146/N333	N1146/N333	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 13/11/24

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1146/N332	N1146/N332	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1189/N354	N1189/N354	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1189/N353	N1189/N353	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1188/N353	N1188/N353	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1188/N352	N1188/N352	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1187/N352	N1187/N352	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1187/N351	N1187/N351	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1186/N351	N1186/N351	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1186/N350	N1186/N350	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1185/N350	N1185/N350	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1185/N349	N1185/N349	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1184/N349	N1184/N349	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1184/N348	N1184/N348	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1183/N348	N1183/N348	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1183/N347	N1183/N347	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1182/N347	N1182/N347	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1182/N346	N1182/N346	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1181/N346	N1181/N346	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1181/N345	N1181/N345	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1180/N345	N1180/N345	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1180/N344	N1180/N344	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1179/N344	N1179/N344	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1179/N343	N1179/N343	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1178/N343	N1178/N343	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1178/N342	N1178/N342	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1177/N342	N1177/N342	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1177/N341	N1177/N341	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1176/N341	N1176/N341	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1176/N340	N1176/N340	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1175/N340	N1175/N340	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1175/N339	N1175/N339	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1174/N339	N1174/N339	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1174/N338	N1174/N338	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1173/N338	N1173/N338	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1173/N337	N1173/N337	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1172/N337	N1172/N337	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1172/N336	N1172/N336	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1171/N336	N1171/N336	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1171/N335	N1171/N335	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1170/N335	N1170/N335	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1170/N334	N1170/N334	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1169/N334	N1169/N334	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1169/N333	N1169/N333	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1168/N333	N1168/N333	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1168/N332	N1168/N332	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1189/N377	N1189/N377	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1189/N376	N1189/N376	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1188/N376	N1188/N376	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1188/N375	N1188/N375	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1187/N375	N1187/N375	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1187/N374	N1187/N374	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1186/N374	N1186/N374	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1186/N373	N1186/N373	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1185/N373	N1185/N373	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1185/N372	N1185/N372	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1184/N372	N1184/N372	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1184/N371	N1184/N371	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1183/N371	N1183/N371	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1183/N370	N1183/N370	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1182/N370	N1182/N370	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1182/N369	N1182/N369	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1181/N369	N1181/N369	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1181/N368	N1181/N368	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1180/N368	N1180/N368	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1180/N367	N1180/N367	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1179/N367	N1179/N367	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1179/N366	N1179/N366	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1178/N366	N1178/N366	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1178/N365	N1178/N365	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1177/N365	N1177/N365	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1177/N364	N1177/N364	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1176/N364	N1176/N364	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1176/N363	N1176/N363	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1175/N363	N1175/N363	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1175/N362	N1175/N362	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1174/N362	N1174/N362	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1174/N361	N1174/N361	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1173/N361	N1173/N361	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1173/N360	N1173/N360	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1172/N360	N1172/N360	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1172/N359	N1172/N359	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1171/N359	N1171/N359	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1171/N358	N1171/N358	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1170/N358	N1170/N358	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1170/N357	N1170/N357	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1169/N357	N1169/N357	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1169/N356	N1169/N356	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1168/N356	N1168/N356	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1168/N355	N1168/N355	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1211/N377	N1211/N377	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1211/N376	N1211/N376	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1210/N376	N1210/N376	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1210/N375	N1210/N375	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1209/N375	N1209/N375	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1209/N374	N1209/N374	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1208/N374	N1208/N374	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1208/N373	N1208/N373	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1207/N373	N1207/N373	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1207/N372	N1207/N372	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1206/N372	N1206/N372	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1206/N371	N1206/N371	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1205/N371	N1205/N371	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1205/N370	N1205/N370	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1204/N370	N1204/N370	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1204/N369	N1204/N369	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1203/N369	N1203/N369	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1203/N368	N1203/N368	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1202/N368	N1202/N368	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1202/N367	N1202/N367	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1201/N367	N1201/N367	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1201/N366	N1201/N366	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1200/N366	N1200/N366	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-



Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 13/11/24

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1200/N365	N1200/N365	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1199/N365	N1199/N365	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1199/N364	N1199/N364	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1198/N364	N1198/N364	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1198/N363	N1198/N363	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1197/N363	N1197/N363	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1197/N362	N1197/N362	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1196/N362	N1196/N362	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1196/N361	N1196/N361	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1195/N361	N1195/N361	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1195/N360	N1195/N360	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1194/N360	N1194/N360	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1194/N359	N1194/N359	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1193/N359	N1193/N359	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1193/N358	N1193/N358	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1192/N358	N1192/N358	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1192/N357	N1192/N357	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1191/N357	N1191/N357	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1191/N356	N1191/N356	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1190/N356	N1190/N356	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1190/N355	N1190/N355	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1211/N400	N1211/N400	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1211/N399	N1211/N399	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1210/N399	N1210/N399	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1210/N398	N1210/N398	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1209/N398	N1209/N398	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1209/N397	N1209/N397	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1208/N397	N1208/N397	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1208/N396	N1208/N396	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1207/N396	N1207/N396	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1207/N395	N1207/N395	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1206/N395	N1206/N395	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1206/N394	N1206/N394	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1205/N394	N1205/N394	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1205/N393	N1205/N393	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1204/N393	N1204/N393	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1204/N392	N1204/N392	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1203/N392	N1203/N392	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1203/N391	N1203/N391	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1202/N391	N1202/N391	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1202/N390	N1202/N390	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1201/N390	N1201/N390	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1201/N389	N1201/N389	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1200/N389	N1200/N389	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1200/N388	N1200/N388	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1199/N388	N1199/N388	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1199/N387	N1199/N387	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1198/N387	N1198/N387	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1198/N386	N1198/N386	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1197/N386	N1197/N386	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1197/N385	N1197/N385	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1196/N385	N1196/N385	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1196/N384	N1196/N384	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1195/N384	N1195/N384	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1195/N383	N1195/N383	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1194/N383	N1194/N383	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1194/N382	N1194/N382	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1193/N382	N1193/N382	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1193/N381	N1193/N381	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1192/N381	N1192/N381	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1192/N380	N1192/N380	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1191/N380	N1191/N380	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1191/N379	N1191/N379	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1190/N379	N1190/N379	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1190/N378	N1190/N378	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1233/N400	N1233/N400	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1233/N399	N1233/N399	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1232/N399	N1232/N399	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1232/N398	N1232/N398	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1231/N398	N1231/N398	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1231/N397	N1231/N397	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1230/N397	N1230/N397	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1230/N396	N1230/N396	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1229/N396	N1229/N396	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1229/N395	N1229/N395	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1228/N395	N1228/N395	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1228/N394	N1228/N394	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1227/N394	N1227/N394	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1227/N393	N1227/N393	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1226/N393	N1226/N393	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1226/N392	N1226/N392	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1225/N392	N1225/N392	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1225/N391	N1225/N391	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1224/N391	N1224/N391	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1224/N390	N1224/N390	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1223/N390	N1223/N390	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1223/N389	N1223/N389	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1222/N389	N1222/N389	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1222/N388	N1222/N388	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1221/N388	N1221/N388	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1221/N387	N1221/N387	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1220/N387	N1220/N387	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1220/N386	N1220/N386	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1219/N386	N1219/N386	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1219/N385	N1219/N385	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1218/N385	N1218/N385	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1218/N384	N1218/N384	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1217/N384	N1217/N384	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1217/N383	N1217/N383	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1216/N383	N1216/N383	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1216/N382	N1216/N382	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1215/N382	N1215/N382	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1215/N381	N1215/N381	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1214/N381	N1214/N381	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1214/N380	N1214/N380	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1213/N380	N1213/N380	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1213/N379	N1213/N379	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1212/N379	N1212/N379	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1212/N378	N1212/N378	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1233/N423	N1233/N423	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1233/N422	N1233/N422	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1232/N422	N1232/N422	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1232/N421	N1232/N421	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1231/N421	N1231/N421	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1231/N420	N1231/N420	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1230/N420	N1230/N420	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1230/N419	N1230/N419	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1229/N419	N1229/N419	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1229/N418	N1229/N418	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1228/N418	N1228/N418	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1228/N417	N1228/N417	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1227/N417	N1227/N417	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1227/N416	N1227/N416	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1226/N416	N1226/N416	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1226/N415	N1226/N415	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1225/N415	N1225/N415	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1225/N414	N1225/N414	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1224/N414	N1224/N414	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1224/N413	N1224/N413	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1223/N413	N1223/N413	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1223/N412	N1223/N412	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1222/N412	N1222/N412	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1222/N411	N1222/N411	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1221/N411	N1221/N411	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1221/N410	N1221/N410	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1220/N410	N1220/N410	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1220/N409	N1220/N409	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1219/N409	N1219/N409	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1219/N408	N1219/N408	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1218/N408	N1218/N408	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1218/N407	N1218/N407	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1217/N407	N1217/N407	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1217/N406	N1217/N406	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1216/N406	N1216/N406	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1216/N405	N1216/N405	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1215/N405	N1215/N405	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1215/N404	N1215/N404	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1214/N404	N1214/N404	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1214/N403	N1214/N403	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1213/N403	N1213/N403	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1213/N402	N1213/N402	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1212/N402	N1212/N402	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1212/N401	N1212/N401	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1255/N423	N1255/N423	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1255/N422	N1255/N422	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1254/N422	N1254/N422	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1254/N421	N1254/N421	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1253/N421	N1253/N421	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1253/N420	N1253/N420	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1252/N420	N1252/N420	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1252/N419	N1252/N419	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1251/N419	N1251/N419	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1251/N418	N1251/N418	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1250/N418	N1250/N418	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1250/N417	N1250/N417	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1249/N417	N1249/N417	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1249/N416	N1249/N416	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1248/N416	N1248/N416	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1248/N415	N1248/N415	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1247/N415	N1247/N415	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1247/N414	N1247/N414	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1246/N414	N1246/N414	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1246/N413	N1246/N413	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1245/N413	N1245/N413	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1245/N412	N1245/N412	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1244/N412	N1244/N412	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1244/N411	N1244/N411	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1243/N411	N1243/N411	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1243/N410	N1243/N410	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1242/N410	N1242/N410	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1242/N409	N1242/N409	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1241/N409	N1241/N409	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1241/N408	N1241/N408	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1240/N408	N1240/N408	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1240/N407	N1240/N407	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1239/N407	N1239/N407	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1239/N406	N1239/N406	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1238/N406	N1238/N406	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1238/N405	N1238/N405	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1237/N405	N1237/N405	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1237/N404	N1237/N404	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1236/N404	N1236/N404	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1236/N403	N1236/N403	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1235/N403	N1235/N403	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1235/N402	N1235/N402	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1234/N402	N1234/N402	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1234/N401	N1234/N401	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1255/N446	N1255/N446	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1255/N445	N1255/N445	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1254/N445	N1254/N445	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1254/N444	N1254/N444	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1253/N444	N1253/N444	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1253/N443	N1253/N443	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1252/N443	N1252/N443	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1252/N442	N1252/N442	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1251/N442	N1251/N442	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1251/N441	N1251/N441	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1250/N441	N1250/N441	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1250/N440	N1250/N440	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1249/N440	N1249/N440	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1249/N439	N1249/N439	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1248/N439	N1248/N439	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1248/N438	N1248/N438	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1247/N438	N1247/N438	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1247/N437	N1247/N437	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1246/N437	N1246/N437	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1246/N436	N1246/N436	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1245/N436	N1245/N436	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1245/N435	N1245/N435	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1244/N435	N1244/N435	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1244/N434	N1244/N434	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1243/N434	N1243/N434	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1243/N433	N1243/N433	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1242/N433	N1242/N433	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 13/11/24

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1242/N432	N1242/N432	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1241/N432	N1241/N432	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1241/N431	N1241/N431	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1240/N431	N1240/N431	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1240/N430	N1240/N430	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1239/N430	N1239/N430	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1239/N429	N1239/N429	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1238/N429	N1238/N429	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1238/N428	N1238/N428	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1237/N428	N1237/N428	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1237/N427	N1237/N427	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1236/N427	N1236/N427	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1236/N426	N1236/N426	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1235/N426	N1235/N426	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1235/N425	N1235/N425	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1234/N425	N1234/N425	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1234/N424	N1234/N424	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1277/N446	N1277/N446	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1277/N445	N1277/N445	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1276/N445	N1276/N445	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1276/N444	N1276/N444	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1275/N444	N1275/N444	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1275/N443	N1275/N443	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1274/N443	N1274/N443	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1274/N442	N1274/N442	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1273/N442	N1273/N442	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1273/N441	N1273/N441	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1272/N441	N1272/N441	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1272/N440	N1272/N440	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1271/N440	N1271/N440	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1271/N439	N1271/N439	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1270/N439	N1270/N439	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1270/N438	N1270/N438	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1269/N438	N1269/N438	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1269/N437	N1269/N437	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1268/N437	N1268/N437	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1268/N436	N1268/N436	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1267/N436	N1267/N436	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1267/N435	N1267/N435	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1266/N435	N1266/N435	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1266/N434	N1266/N434	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1265/N434	N1265/N434	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1265/N433	N1265/N433	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1264/N433	N1264/N433	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1264/N432	N1264/N432	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1263/N432	N1263/N432	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1263/N431	N1263/N431	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1262/N431	N1262/N431	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1262/N430	N1262/N430	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1261/N430	N1261/N430	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1261/N429	N1261/N429	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1260/N429	N1260/N429	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1260/N428	N1260/N428	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1259/N428	N1259/N428	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1259/N427	N1259/N427	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1258/N427	N1258/N427	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1258/N426	N1258/N426	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1257/N426	N1257/N426	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1257/N425	N1257/N425	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1256/N425	N1256/N425	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1256/N424	N1256/N424	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1277/N469	N1277/N469	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1277/N468	N1277/N468	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1276/N468	N1276/N468	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1276/N467	N1276/N467	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1275/N467	N1275/N467	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1275/N466	N1275/N466	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1274/N466	N1274/N466	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1274/N465	N1274/N465	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1273/N465	N1273/N465	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1273/N464	N1273/N464	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1272/N464	N1272/N464	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1272/N463	N1272/N463	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1271/N463	N1271/N463	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1271/N462	N1271/N462	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1270/N462	N1270/N462	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1270/N461	N1270/N461	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1269/N461	N1269/N461	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1269/N460	N1269/N460	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1268/N460	N1268/N460	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1268/N459	N1268/N459	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1267/N459	N1267/N459	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1267/N458	N1267/N458	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1266/N458	N1266/N458	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1266/N457	N1266/N457	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1265/N457	N1265/N457	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1265/N456	N1265/N456	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1264/N456	N1264/N456	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1264/N455	N1264/N455	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1263/N455	N1263/N455	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1263/N454	N1263/N454	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1262/N454	N1262/N454	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1262/N453	N1262/N453	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1261/N453	N1261/N453	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1261/N452	N1261/N452	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1260/N452	N1260/N452	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1260/N451	N1260/N451	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1259/N451	N1259/N451	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1259/N450	N1259/N450	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1258/N450	N1258/N450	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1258/N449	N1258/N449	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1257/N449	N1257/N449	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1257/N448	N1257/N448	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1256/N448	N1256/N448	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1256/N447	N1256/N447	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1299/N469	N1299/N469	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1299/N468	N1299/N468	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1298/N468	N1298/N468	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1298/N467	N1298/N467	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1297/N467	N1297/N467	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1297/N466	N1297/N466	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1296/N466	N1296/N466	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 13/11/24

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1296/N465	N1296/N465	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1295/N465	N1295/N465	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1295/N464	N1295/N464	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1294/N464	N1294/N464	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1294/N463	N1294/N463	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1293/N463	N1293/N463	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1293/N462	N1293/N462	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1292/N462	N1292/N462	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1292/N461	N1292/N461	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1291/N461	N1291/N461	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1291/N460	N1291/N460	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1290/N460	N1290/N460	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1290/N459	N1290/N459	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1289/N459	N1289/N459	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1289/N458	N1289/N458	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1288/N458	N1288/N458	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1288/N457	N1288/N457	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1287/N457	N1287/N457	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1287/N456	N1287/N456	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1286/N456	N1286/N456	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1286/N455	N1286/N455	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1285/N455	N1285/N455	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1285/N454	N1285/N454	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1284/N454	N1284/N454	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1284/N453	N1284/N453	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1283/N453	N1283/N453	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1283/N452	N1283/N452	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1282/N452	N1282/N452	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1282/N451	N1282/N451	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1281/N451	N1281/N451	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1281/N450	N1281/N450	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1280/N450	N1280/N450	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1280/N449	N1280/N449	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1279/N449	N1279/N449	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1279/N448	N1279/N448	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1278/N448	N1278/N448	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1278/N447	N1278/N447	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1299/N492	N1299/N492	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1299/N491	N1299/N491	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1298/N491	N1298/N491	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1298/N490	N1298/N490	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1297/N490	N1297/N490	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1297/N489	N1297/N489	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1296/N489	N1296/N489	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1296/N488	N1296/N488	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1295/N488	N1295/N488	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1295/N487	N1295/N487	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1294/N487	N1294/N487	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1294/N486	N1294/N486	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1293/N486	N1293/N486	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1293/N485	N1293/N485	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1292/N485	N1292/N485	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1292/N484	N1292/N484	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1291/N484	N1291/N484	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1291/N483	N1291/N483	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1290/N483	N1290/N483	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1290/N482	N1290/N482	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1289/N482	N1289/N482	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1289/N481	N1289/N481	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1288/N481	N1288/N481	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1288/N480	N1288/N480	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1287/N480	N1287/N480	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1287/N479	N1287/N479	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1286/N479	N1286/N479	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1286/N478	N1286/N478	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1285/N478	N1285/N478	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1285/N477	N1285/N477	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1284/N477	N1284/N477	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1284/N476	N1284/N476	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1283/N476	N1283/N476	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1283/N475	N1283/N475	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1282/N475	N1282/N475	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1282/N474	N1282/N474	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1281/N474	N1281/N474	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1281/N473	N1281/N473	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1280/N473	N1280/N473	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1280/N472	N1280/N472	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1279/N472	N1279/N472	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1279/N471	N1279/N471	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1278/N471	N1278/N471	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1278/N470	N1278/N470	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1321/N492	N1321/N492	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1321/N491	N1321/N491	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1320/N491	N1320/N491	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1320/N490	N1320/N490	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1319/N490	N1319/N490	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1319/N489	N1319/N489	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1318/N489	N1318/N489	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1318/N488	N1318/N488	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1317/N488	N1317/N488	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1317/N487	N1317/N487	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1316/N487	N1316/N487	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1316/N486	N1316/N486	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1315/N486	N1315/N486	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1315/N485	N1315/N485	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1314/N485	N1314/N485	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1314/N484	N1314/N484	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1313/N484	N1313/N484	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1313/N483	N1313/N483	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1312/N483	N1312/N483	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1312/N482	N1312/N482	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1311/N482	N1311/N482	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1311/N481	N1311/N481	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1310/N481	N1310/N481	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1310/N480	N1310/N480	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1309/N480	N1309/N480	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1309/N479	N1309/N479	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1308/N479	N1308/N479	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1308/N478	N1308/N478	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1307/N478	N1307/N478	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1307/N477	N1307/N477	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1306/N477	N1306/N477	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 13/11/24

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1306/N476	N1306/N476	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1305/N476	N1305/N476	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1305/N475	N1305/N475	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1304/N475	N1304/N475	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1304/N474	N1304/N474	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1303/N474	N1303/N474	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1303/N473	N1303/N473	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1302/N473	N1302/N473	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1302/N472	N1302/N472	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1301/N472	N1301/N472	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1301/N471	N1301/N471	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1300/N471	N1300/N471	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1300/N470	N1300/N470	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1321/N515	N1321/N515	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1321/N514	N1321/N514	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1320/N514	N1320/N514	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1320/N513	N1320/N513	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1319/N513	N1319/N513	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1319/N512	N1319/N512	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1318/N512	N1318/N512	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1318/N511	N1318/N511	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1317/N511	N1317/N511	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1317/N510	N1317/N510	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1316/N510	N1316/N510	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1316/N509	N1316/N509	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1315/N509	N1315/N509	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1315/N508	N1315/N508	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1314/N508	N1314/N508	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1314/N507	N1314/N507	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1313/N507	N1313/N507	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1313/N506	N1313/N506	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1312/N506	N1312/N506	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1312/N505	N1312/N505	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1311/N505	N1311/N505	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1311/N504	N1311/N504	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1310/N504	N1310/N504	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1310/N503	N1310/N503	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1309/N503	N1309/N503	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1309/N502	N1309/N502	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1308/N502	N1308/N502	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1308/N501	N1308/N501	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1307/N501	N1307/N501	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1307/N500	N1307/N500	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1306/N500	N1306/N500	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1306/N499	N1306/N499	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1305/N499	N1305/N499	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1305/N498	N1305/N498	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1304/N498	N1304/N498	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1304/N497	N1304/N497	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1303/N497	N1303/N497	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1303/N496	N1303/N496	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1302/N496	N1302/N496	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1302/N495	N1302/N495	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1301/N495	N1301/N495	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1301/N494	N1301/N494	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1300/N494	N1300/N494	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1300/N493	N1300/N493	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1343/N515	N1343/N515	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1343/N514	N1343/N514	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1342/N514	N1342/N514	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1342/N513	N1342/N513	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1341/N513	N1341/N513	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1341/N512	N1341/N512	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1340/N512	N1340/N512	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1340/N511	N1340/N511	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1339/N511	N1339/N511	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1339/N510	N1339/N510	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1338/N510	N1338/N510	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1338/N509	N1338/N509	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1337/N509	N1337/N509	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1337/N508	N1337/N508	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1336/N508	N1336/N508	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1336/N507	N1336/N507	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1335/N507	N1335/N507	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1335/N506	N1335/N506	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1334/N506	N1334/N506	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1334/N505	N1334/N505	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1333/N505	N1333/N505	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1333/N504	N1333/N504	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1332/N504	N1332/N504	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1332/N503	N1332/N503	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1331/N503	N1331/N503	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1331/N502	N1331/N502	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1330/N502	N1330/N502	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1330/N501	N1330/N501	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1329/N501	N1329/N501	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1329/N500	N1329/N500	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1328/N500	N1328/N500	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1328/N499	N1328/N499	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1327/N499	N1327/N499	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1327/N498	N1327/N498	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1326/N498	N1326/N498	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1326/N497	N1326/N497	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1325/N497	N1325/N497	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1325/N496	N1325/N496	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1324/N496	N1324/N496	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1324/N495	N1324/N495	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1323/N495	N1323/N495	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1323/N494	N1323/N494	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1322/N494	N1322/N494	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1322/N493	N1322/N493	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1343/N538	N1343/N538	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1343/N537	N1343/N537	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1342/N537	N1342/N537	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1342/N536	N1342/N536	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1341/N536	N1341/N536	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1341/N535	N1341/N535	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1340/N535	N1340/N535	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1340/N534	N1340/N534	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1339/N534	N1339/N534	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1339/N533	N1339/N533	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1338/N533	N1338/N533	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1338/N532	N1338/N532	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1337/N532	N1337/N532	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1337/N531	N1337/N531	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1336/N531	N1336/N531	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1336/N530	N1336/N530	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1335/N530	N1335/N530	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1335/N529	N1335/N529	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1334/N529	N1334/N529	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1334/N528	N1334/N528	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1333/N528	N1333/N528	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1333/N527	N1333/N527	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1332/N527	N1332/N527	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1332/N526	N1332/N526	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1331/N526	N1331/N526	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1331/N525	N1331/N525	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1330/N525	N1330/N525	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1330/N524	N1330/N524	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1329/N524	N1329/N524	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1329/N523	N1329/N523	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1328/N523	N1328/N523	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1328/N522	N1328/N522	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1327/N522	N1327/N522	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1327/N521	N1327/N521	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1326/N521	N1326/N521	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1326/N520	N1326/N520	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1325/N520	N1325/N520	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1325/N519	N1325/N519	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1324/N519	N1324/N519	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1324/N518	N1324/N518	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1323/N518	N1323/N518	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1323/N517	N1323/N517	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1322/N517	N1322/N517	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1322/N516	N1322/N516	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1365/N538	N1365/N538	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1365/N537	N1365/N537	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1364/N537	N1364/N537	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1364/N536	N1364/N536	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1363/N536	N1363/N536	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1363/N535	N1363/N535	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1362/N535	N1362/N535	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1362/N534	N1362/N534	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1361/N534	N1361/N534	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1361/N533	N1361/N533	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1360/N533	N1360/N533	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1360/N532	N1360/N532	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1359/N532	N1359/N532	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1359/N531	N1359/N531	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1358/N531	N1358/N531	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1358/N530	N1358/N530	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1357/N530	N1357/N530	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1357/N529	N1357/N529	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1356/N529	N1356/N529	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1356/N528	N1356/N528	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1355/N528	N1355/N528	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1355/N527	N1355/N527	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1354/N527	N1354/N527	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1354/N526	N1354/N526	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1353/N526	N1353/N526	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1353/N525	N1353/N525	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1352/N525	N1352/N525	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1352/N524	N1352/N524	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1351/N524	N1351/N524	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1351/N523	N1351/N523	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1350/N523	N1350/N523	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1350/N522	N1350/N522	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1349/N522	N1349/N522	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1349/N521	N1349/N521	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1348/N521	N1348/N521	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1348/N520	N1348/N520	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1347/N520	N1347/N520	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1347/N519	N1347/N519	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1346/N519	N1346/N519	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1346/N518	N1346/N518	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1345/N518	N1345/N518	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1345/N517	N1345/N517	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1344/N517	N1344/N517	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1344/N516	N1344/N516	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1365/N561	N1365/N561	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1365/N560	N1365/N560	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1364/N560	N1364/N560	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1364/N559	N1364/N559	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1363/N559	N1363/N559	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1363/N558	N1363/N558	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1362/N558	N1362/N558	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1362/N557	N1362/N557	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1361/N557	N1361/N557	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1361/N556	N1361/N556	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1360/N556	N1360/N556	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1360/N555	N1360/N555	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1359/N555	N1359/N555	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1359/N554	N1359/N554	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1358/N554	N1358/N554	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1358/N553	N1358/N553	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1357/N553	N1357/N553	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1357/N552	N1357/N552	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1356/N552	N1356/N552	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1356/N551	N1356/N551	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1355/N551	N1355/N551	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1355/N550	N1355/N550	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1354/N550	N1354/N550	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1354/N549	N1354/N549	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1353/N549	N1353/N549	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1353/N548	N1353/N548	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1352/N548	N1352/N548	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1352/N547	N1352/N547	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1351/N547	N1351/N547	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1351/N546	N1351/N546	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1350/N546	N1350/N546	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1350/N545	N1350/N545	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1349/N545	N1349/N545	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1349/N544	N1349/N544	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1348/N544	N1348/N544	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1348/N543	N1348/N543	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1347/N543	N1347/N543	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1347/N542	N1347/N542	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1346/N542	N1346/N542	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1346/N541	N1346/N541	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1345/N541	N1345/N541	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1345/N540	N1345/N540	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1344/N540	N1344/N540	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1344/N539	N1344/N539	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1387/N561	N1387/N561	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1387/N560	N1387/N560	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1386/N560	N1386/N560	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1386/N559	N1386/N559	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1385/N559	N1385/N559	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1385/N558	N1385/N558	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1384/N558	N1384/N558	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1384/N557	N1384/N557	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1383/N557	N1383/N557	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1383/N556	N1383/N556	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1382/N556	N1382/N556	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1382/N555	N1382/N555	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1381/N555	N1381/N555	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1381/N554	N1381/N554	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1380/N554	N1380/N554	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1380/N553	N1380/N553	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1379/N553	N1379/N553	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1379/N552	N1379/N552	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1378/N552	N1378/N552	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1378/N551	N1378/N551	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1377/N551	N1377/N551	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1377/N550	N1377/N550	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1376/N550	N1376/N550	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1376/N549	N1376/N549	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1375/N549	N1375/N549	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1375/N548	N1375/N548	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1374/N548	N1374/N548	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1374/N547	N1374/N547	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1373/N547	N1373/N547	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1373/N546	N1373/N546	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1372/N546	N1372/N546	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1372/N545	N1372/N545	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1371/N545	N1371/N545	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1371/N544	N1371/N544	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1370/N544	N1370/N544	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1370/N543	N1370/N543	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1369/N543	N1369/N543	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1369/N542	N1369/N542	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1368/N542	N1368/N542	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1368/N541	N1368/N541	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1367/N541	N1367/N541	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1367/N540	N1367/N540	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1366/N540	N1366/N540	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1366/N539	N1366/N539	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1387/N584	N1387/N584	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1387/N583	N1387/N583	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1386/N583	N1386/N583	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1386/N582	N1386/N582	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1385/N582	N1385/N582	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1385/N581	N1385/N581	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1384/N581	N1384/N581	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1384/N580	N1384/N580	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1383/N580	N1383/N580	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1383/N579	N1383/N579	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1382/N579	N1382/N579	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1382/N578	N1382/N578	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1381/N578	N1381/N578	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1381/N577	N1381/N577	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1380/N577	N1380/N577	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1380/N576	N1380/N576	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1379/N576	N1379/N576	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1379/N575	N1379/N575	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1378/N575	N1378/N575	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1378/N574	N1378/N574	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1377/N574	N1377/N574	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1377/N573	N1377/N573	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1376/N573	N1376/N573	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1376/N572	N1376/N572	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1375/N572	N1375/N572	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1375/N571	N1375/N571	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1374/N571	N1374/N571	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1374/N570	N1374/N570	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1373/N570	N1373/N570	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1373/N569	N1373/N569	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1372/N569	N1372/N569	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1372/N568	N1372/N568	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1371/N568	N1371/N568	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1371/N567	N1371/N567	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1370/N567	N1370/N567	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1370/N566	N1370/N566	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1369/N566	N1369/N566	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1369/N565	N1369/N565	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1368/N565	N1368/N565	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1368/N564	N1368/N564	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1367/N564	N1367/N564	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1367/N563	N1367/N563	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1366/N563	N1366/N563	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1366/N562	N1366/N562	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1409/N584	N1409/N584	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1409/N583	N1409/N583	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1408/N583	N1408/N583	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1408/N582	N1408/N582	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1407/N582	N1407/N582	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1407/N581	N1407/N581	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1406/N581	N1406/N581	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1406/N580	N1406/N580	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1405/N580	N1405/N580	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1405/N579	N1405/N579	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1404/N579	N1404/N579	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1404/N578	N1404/N578	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1403/N578	N1403/N578	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1403/N577	N1403/N577	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1402/N577	N1402/N577	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 13/11/24

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1402/N576	N1402/N576	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1401/N576	N1401/N576	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1401/N575	N1401/N575	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1400/N575	N1400/N575	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1400/N574	N1400/N574	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1399/N574	N1399/N574	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1399/N573	N1399/N573	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1398/N573	N1398/N573	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1398/N572	N1398/N572	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1397/N572	N1397/N572	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1397/N571	N1397/N571	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1396/N571	N1396/N571	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1396/N570	N1396/N570	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1395/N570	N1395/N570	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1395/N569	N1395/N569	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1394/N569	N1394/N569	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1394/N568	N1394/N568	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1393/N568	N1393/N568	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1393/N567	N1393/N567	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1392/N567	N1392/N567	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1392/N566	N1392/N566	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1391/N566	N1391/N566	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1391/N565	N1391/N565	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1390/N565	N1390/N565	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1390/N564	N1390/N564	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1389/N564	N1389/N564	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1389/N563	N1389/N563	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1388/N563	N1388/N563	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1388/N562	N1388/N562	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1409/N607	N1409/N607	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1409/N606	N1409/N606	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1408/N606	N1408/N606	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1408/N605	N1408/N605	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1407/N605	N1407/N605	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1407/N604	N1407/N604	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1406/N604	N1406/N604	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1406/N603	N1406/N603	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1405/N603	N1405/N603	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1405/N602	N1405/N602	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1404/N602	N1404/N602	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1404/N601	N1404/N601	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1403/N601	N1403/N601	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1403/N600	N1403/N600	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1402/N600	N1402/N600	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1402/N599	N1402/N599	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1401/N599	N1401/N599	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1401/N598	N1401/N598	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1400/N598	N1400/N598	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1400/N597	N1400/N597	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1399/N597	N1399/N597	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1399/N596	N1399/N596	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1398/N596	N1398/N596	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1398/N595	N1398/N595	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1397/N595	N1397/N595	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1397/N594	N1397/N594	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1396/N594	N1396/N594	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1396/N593	N1396/N593	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1395/N593	N1395/N593	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1395/N592	N1395/N592	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1394/N592	N1394/N592	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1394/N591	N1394/N591	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1393/N591	N1393/N591	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1393/N590	N1393/N590	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1392/N590	N1392/N590	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1392/N589	N1392/N589	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1391/N589	N1391/N589	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1391/N588	N1391/N588	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1390/N588	N1390/N588	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1390/N587	N1390/N587	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1389/N587	N1389/N587	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1389/N586	N1389/N586	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1388/N586	N1388/N586	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1388/N585	N1388/N585	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1431/N607	N1431/N607	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1431/N606	N1431/N606	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1430/N606	N1430/N606	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1430/N605	N1430/N605	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1429/N605	N1429/N605	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1429/N604	N1429/N604	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1428/N604	N1428/N604	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1428/N603	N1428/N603	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1427/N603	N1427/N603	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1427/N602	N1427/N602	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1426/N602	N1426/N602	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1426/N601	N1426/N601	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1425/N601	N1425/N601	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1425/N600	N1425/N600	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1424/N600	N1424/N600	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1424/N599	N1424/N599	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1423/N599	N1423/N599	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1423/N598	N1423/N598	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1422/N598	N1422/N598	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1422/N597	N1422/N597	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1421/N597	N1421/N597	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1421/N596	N1421/N596	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1420/N596	N1420/N596	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1420/N595	N1420/N595	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1419/N595	N1419/N595	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1419/N594	N1419/N594	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1418/N594	N1418/N594	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1418/N593	N1418/N593	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1417/N593	N1417/N593	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1417/N592	N1417/N592	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1416/N592	N1416/N592	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1416/N591	N1416/N591	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1415/N591	N1415/N591	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1415/N590	N1415/N590	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1414/N590	N1414/N590	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1414/N589	N1414/N589	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1413/N589	N1413/N589	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1413/N588	N1413/N588	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1412/N588	N1412/N588	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 13/11/24

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1412/N587	N1412/N587	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1411/N587	N1411/N587	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1411/N586	N1411/N586	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1410/N586	N1410/N586	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1410/N585	N1410/N585	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1431/N630	N1431/N630	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1431/N629	N1431/N629	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1430/N629	N1430/N629	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1430/N628	N1430/N628	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1429/N628	N1429/N628	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1429/N627	N1429/N627	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1428/N627	N1428/N627	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1428/N626	N1428/N626	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1427/N626	N1427/N626	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1427/N625	N1427/N625	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1426/N625	N1426/N625	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1426/N624	N1426/N624	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1425/N624	N1425/N624	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1425/N623	N1425/N623	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1424/N623	N1424/N623	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1424/N622	N1424/N622	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1423/N622	N1423/N622	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1423/N621	N1423/N621	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1422/N621	N1422/N621	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1422/N620	N1422/N620	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1421/N620	N1421/N620	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1421/N619	N1421/N619	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1420/N619	N1420/N619	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1420/N618	N1420/N618	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1419/N618	N1419/N618	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1419/N617	N1419/N617	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1418/N617	N1418/N617	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1418/N616	N1418/N616	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1417/N616	N1417/N616	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1417/N615	N1417/N615	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1416/N615	N1416/N615	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1416/N614	N1416/N614	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1415/N614	N1415/N614	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1415/N613	N1415/N613	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1414/N613	N1414/N613	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1414/N612	N1414/N612	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1413/N612	N1413/N612	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1413/N611	N1413/N611	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1412/N611	N1412/N611	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1412/N610	N1412/N610	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1411/N610	N1411/N610	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1411/N609	N1411/N609	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1410/N609	N1410/N609	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1410/N608	N1410/N608	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1453/N630	N1453/N630	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1453/N629	N1453/N629	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1452/N629	N1452/N629	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1452/N628	N1452/N628	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1451/N628	N1451/N628	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1451/N627	N1451/N627	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1450/N627	N1450/N627	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1450/N626	N1450/N626	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1449/N626	N1449/N626	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1449/N625	N1449/N625	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1448/N625	N1448/N625	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1448/N624	N1448/N624	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1447/N624	N1447/N624	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1447/N623	N1447/N623	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1446/N623	N1446/N623	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1446/N622	N1446/N622	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1445/N622	N1445/N622	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1445/N621	N1445/N621	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1444/N621	N1444/N621	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1444/N620	N1444/N620	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1443/N620	N1443/N620	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1443/N619	N1443/N619	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1442/N619	N1442/N619	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1442/N618	N1442/N618	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1441/N618	N1441/N618	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1441/N617	N1441/N617	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1440/N617	N1440/N617	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1440/N616	N1440/N616	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1439/N616	N1439/N616	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1439/N615	N1439/N615	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1438/N615	N1438/N615	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1438/N614	N1438/N614	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1437/N614	N1437/N614	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1437/N613	N1437/N613	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1436/N613	N1436/N613	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1436/N612	N1436/N612	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1435/N612	N1435/N612	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1435/N611	N1435/N611	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1434/N611	N1434/N611	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1434/N610	N1434/N610	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1433/N610	N1433/N610	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1433/N609	N1433/N609	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1432/N609	N1432/N609	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1432/N608	N1432/N608	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1453/N653	N1453/N653	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1453/N652	N1453/N652	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1452/N652	N1452/N652	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1452/N651	N1452/N651	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1451/N651	N1451/N651	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1451/N650	N1451/N650	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1450/N650	N1450/N650	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1450/N649	N1450/N649	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1449/N649	N1449/N649	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1449/N648	N1449/N648	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1448/N648	N1448/N648	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1448/N647	N1448/N647	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1447/N647	N1447/N647	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1447/N646	N1447/N646	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1446/N646	N1446/N646	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1446/N645	N1446/N645	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1445/N645	N1445/N645	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1445/N644	N1445/N644	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1444/N644	N1444/N644	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 13/11/24

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1444/N643	N1444/N643	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1443/N643	N1443/N643	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1443/N642	N1443/N642	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1442/N642	N1442/N642	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1442/N641	N1442/N641	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1441/N641	N1441/N641	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1441/N640	N1441/N640	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1440/N640	N1440/N640	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1440/N639	N1440/N639	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1439/N639	N1439/N639	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1439/N638	N1439/N638	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1438/N638	N1438/N638	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1438/N637	N1438/N637	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1437/N637	N1437/N637	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1437/N636	N1437/N636	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1436/N636	N1436/N636	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1436/N635	N1436/N635	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1435/N635	N1435/N635	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1435/N634	N1435/N634	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1434/N634	N1434/N634	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1434/N633	N1434/N633	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1433/N633	N1433/N633	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1433/N632	N1433/N632	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1432/N632	N1432/N632	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1432/N631	N1432/N631	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1475/N653	N1475/N653	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1475/N652	N1475/N652	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1474/N652	N1474/N652	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1474/N651	N1474/N651	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1473/N651	N1473/N651	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1473/N650	N1473/N650	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1472/N650	N1472/N650	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1472/N649	N1472/N649	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1471/N649	N1471/N649	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1471/N648	N1471/N648	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1470/N648	N1470/N648	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1470/N647	N1470/N647	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1469/N647	N1469/N647	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1469/N646	N1469/N646	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1468/N646	N1468/N646	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1468/N645	N1468/N645	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1467/N645	N1467/N645	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1467/N644	N1467/N644	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1466/N644	N1466/N644	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1466/N643	N1466/N643	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1465/N643	N1465/N643	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1465/N642	N1465/N642	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1464/N642	N1464/N642	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1464/N641	N1464/N641	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1463/N641	N1463/N641	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1463/N640	N1463/N640	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1462/N640	N1462/N640	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1462/N639	N1462/N639	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1461/N639	N1461/N639	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1461/N638	N1461/N638	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1460/N638	N1460/N638	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1460/N637	N1460/N637	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1459/N637	N1459/N637	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1459/N636	N1459/N636	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1458/N636	N1458/N636	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1458/N635	N1458/N635	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1457/N635	N1457/N635	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1457/N634	N1457/N634	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1456/N634	N1456/N634	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1456/N633	N1456/N633	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1455/N633	N1455/N633	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1455/N632	N1455/N632	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1454/N632	N1454/N632	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1454/N631	N1454/N631	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1475/N676	N1475/N676	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1475/N675	N1475/N675	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1474/N675	N1474/N675	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1474/N674	N1474/N674	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1473/N674	N1473/N674	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1473/N673	N1473/N673	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1472/N673	N1472/N673	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1472/N672	N1472/N672	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1471/N672	N1471/N672	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1471/N671	N1471/N671	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1470/N671	N1470/N671	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1470/N670	N1470/N670	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1469/N670	N1469/N670	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1469/N669	N1469/N669	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1468/N669	N1468/N669	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1468/N668	N1468/N668	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1467/N668	N1467/N668	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1467/N667	N1467/N667	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1466/N667	N1466/N667	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1466/N666	N1466/N666	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1465/N666	N1465/N666	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1465/N665	N1465/N665	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1464/N665	N1464/N665	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1464/N664	N1464/N664	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1463/N664	N1463/N664	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1463/N663	N1463/N663	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1462/N663	N1462/N663	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1462/N662	N1462/N662	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1461/N662	N1461/N662	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1461/N661	N1461/N661	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1460/N661	N1460/N661	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1460/N660	N1460/N660	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1459/N660	N1459/N660	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1459/N659	N1459/N659	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1458/N659	N1458/N659	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1458/N658	N1458/N658	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1457/N658	N1457/N658	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1457/N657	N1457/N657	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1456/N657	N1456/N657	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1456/N656	N1456/N656	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1455/N656	N1455/N656	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1455/N655	N1455/N655	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1454/N655	N1454/N655	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 13/11/24

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1454/N654	N1454/N654	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1497/N676	N1497/N676	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1497/N675	N1497/N675	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1496/N675	N1496/N675	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1496/N674	N1496/N674	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1495/N674	N1495/N674	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1495/N673	N1495/N673	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1494/N673	N1494/N673	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1494/N672	N1494/N672	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1493/N672	N1493/N672	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1493/N671	N1493/N671	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1492/N671	N1492/N671	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1492/N670	N1492/N670	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1491/N670	N1491/N670	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1491/N669	N1491/N669	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1490/N669	N1490/N669	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1490/N668	N1490/N668	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1489/N668	N1489/N668	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1489/N667	N1489/N667	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1488/N667	N1488/N667	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1488/N666	N1488/N666	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1487/N666	N1487/N666	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1487/N665	N1487/N665	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1486/N665	N1486/N665	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1486/N664	N1486/N664	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1485/N664	N1485/N664	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1485/N663	N1485/N663	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1484/N663	N1484/N663	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1484/N662	N1484/N662	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1483/N662	N1483/N662	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1483/N661	N1483/N661	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1482/N661	N1482/N661	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1482/N660	N1482/N660	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1481/N660	N1481/N660	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1481/N659	N1481/N659	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1480/N659	N1480/N659	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1480/N658	N1480/N658	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1479/N658	N1479/N658	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1479/N657	N1479/N657	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1478/N657	N1478/N657	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1478/N656	N1478/N656	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1477/N656	N1477/N656	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1477/N655	N1477/N655	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1476/N655	N1476/N655	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1476/N654	N1476/N654	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1497/N699	N1497/N699	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1497/N698	N1497/N698	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1496/N698	N1496/N698	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1496/N697	N1496/N697	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1495/N697	N1495/N697	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1495/N696	N1495/N696	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1494/N696	N1494/N696	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1494/N695	N1494/N695	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1493/N695	N1493/N695	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1493/N694	N1493/N694	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1492/N694	N1492/N694	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1492/N693	N1492/N693	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1491/N693	N1491/N693	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1491/N692	N1491/N692	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1490/N692	N1490/N692	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1490/N691	N1490/N691	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1489/N691	N1489/N691	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1489/N690	N1489/N690	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1488/N690	N1488/N690	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1488/N689	N1488/N689	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1487/N689	N1487/N689	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1487/N688	N1487/N688	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1486/N688	N1486/N688	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1486/N687	N1486/N687	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1485/N687	N1485/N687	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1485/N686	N1485/N686	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1484/N686	N1484/N686	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1484/N685	N1484/N685	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1483/N685	N1483/N685	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1483/N684	N1483/N684	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1482/N684	N1482/N684	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1482/N683	N1482/N683	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1481/N683	N1481/N683	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1481/N682	N1481/N682	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1480/N682	N1480/N682	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1480/N681	N1480/N681	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1479/N681	N1479/N681	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1479/N680	N1479/N680	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1478/N680	N1478/N680	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1478/N679	N1478/N679	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1477/N679	N1477/N679	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1477/N678	N1477/N678	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1476/N678	N1476/N678	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1476/N677	N1476/N677	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1519/N699	N1519/N699	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1519/N698	N1519/N698	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1518/N698	N1518/N698	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1518/N697	N1518/N697	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1517/N697	N1517/N697	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1517/N696	N1517/N696	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1516/N696	N1516/N696	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1516/N695	N1516/N695	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1515/N695	N1515/N695	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1515/N694	N1515/N694	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1514/N694	N1514/N694	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1514/N693	N1514/N693	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1513/N693	N1513/N693	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1513/N692	N1513/N692	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1512/N692	N1512/N692	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1512/N691	N1512/N691	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1511/N691	N1511/N691	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1511/N690	N1511/N690	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1510/N690	N1510/N690	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1510/N689	N1510/N689	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1509/N689	N1509/N689	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1509/N688	N1509/N688	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1508/N688	N1508/N688	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1508/N687	N1508/N687	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1507/N687	N1507/N687	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1507/N686	N1507/N686	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1506/N686	N1506/N686	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1506/N685	N1506/N685	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1505/N685	N1505/N685	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1505/N684	N1505/N684	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1504/N684	N1504/N684	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1504/N683	N1504/N683	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1503/N683	N1503/N683	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1503/N682	N1503/N682	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1502/N682	N1502/N682	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1502/N681	N1502/N681	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1501/N681	N1501/N681	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1501/N680	N1501/N680	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1500/N680	N1500/N680	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1500/N679	N1500/N679	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1499/N679	N1499/N679	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1499/N678	N1499/N678	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1498/N678	N1498/N678	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1498/N677	N1498/N677	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1519/N722	N1519/N722	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1519/N721	N1519/N721	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1518/N721	N1518/N721	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1518/N720	N1518/N720	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1517/N720	N1517/N720	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1517/N719	N1517/N719	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1516/N719	N1516/N719	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1516/N718	N1516/N718	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1515/N718	N1515/N718	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1515/N717	N1515/N717	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1514/N717	N1514/N717	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1514/N716	N1514/N716	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1513/N716	N1513/N716	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1513/N715	N1513/N715	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1512/N715	N1512/N715	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1512/N714	N1512/N714	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1511/N714	N1511/N714	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1511/N713	N1511/N713	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1510/N713	N1510/N713	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1510/N712	N1510/N712	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1509/N712	N1509/N712	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1509/N711	N1509/N711	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1508/N711	N1508/N711	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1508/N710	N1508/N710	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1507/N710	N1507/N710	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1507/N709	N1507/N709	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1506/N709	N1506/N709	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1506/N708	N1506/N708	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1505/N708	N1505/N708	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1505/N707	N1505/N707	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1504/N707	N1504/N707	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1504/N706	N1504/N706	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1503/N706	N1503/N706	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1503/N705	N1503/N705	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1502/N705	N1502/N705	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1502/N704	N1502/N704	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1501/N704	N1501/N704	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1501/N703	N1501/N703	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1500/N703	N1500/N703	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1500/N702	N1500/N702	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1499/N702	N1499/N702	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1499/N701	N1499/N701	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1498/N701	N1498/N701	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1498/N700	N1498/N700	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1541/N722	N1541/N722	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1541/N721	N1541/N721	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1540/N721	N1540/N721	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1540/N720	N1540/N720	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1539/N720	N1539/N720	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1539/N719	N1539/N719	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1538/N719	N1538/N719	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1538/N718	N1538/N718	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1537/N718	N1537/N718	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1537/N717	N1537/N717	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1536/N717	N1536/N717	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1536/N716	N1536/N716	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1535/N716	N1535/N716	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1535/N715	N1535/N715	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1534/N715	N1534/N715	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1534/N714	N1534/N714	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1533/N714	N1533/N714	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1533/N713	N1533/N713	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1532/N713	N1532/N713	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1532/N712	N1532/N712	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1531/N712	N1531/N712	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1531/N711	N1531/N711	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1530/N711	N1530/N711	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1530/N710	N1530/N710	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1529/N710	N1529/N710	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1529/N709	N1529/N709	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1528/N709	N1528/N709	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1528/N708	N1528/N708	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1527/N708	N1527/N708	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1527/N707	N1527/N707	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1526/N707	N1526/N707	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1526/N706	N1526/N706	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1525/N706	N1525/N706	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1525/N705	N1525/N705	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1524/N705	N1524/N705	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1524/N704	N1524/N704	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1523/N704	N1523/N704	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1523/N703	N1523/N703	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1522/N703	N1522/N703	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1522/N702	N1522/N702	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1521/N702	N1521/N702	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1521/N701	N1521/N701	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1520/N701	N1520/N701	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1520/N700	N1520/N700	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1541/N745	N1541/N745	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1541/N744	N1541/N744	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1540/N744	N1540/N744	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 13/11/24

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1540/N743	N1540/N743	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1539/N743	N1539/N743	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1539/N742	N1539/N742	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1538/N742	N1538/N742	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1538/N741	N1538/N741	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1537/N741	N1537/N741	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1537/N740	N1537/N740	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1536/N740	N1536/N740	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1536/N739	N1536/N739	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1535/N739	N1535/N739	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1535/N738	N1535/N738	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1534/N738	N1534/N738	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1534/N737	N1534/N737	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1533/N737	N1533/N737	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1533/N736	N1533/N736	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1532/N736	N1532/N736	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1532/N735	N1532/N735	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1531/N735	N1531/N735	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1531/N734	N1531/N734	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1530/N734	N1530/N734	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1530/N733	N1530/N733	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1529/N733	N1529/N733	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1529/N732	N1529/N732	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1528/N732	N1528/N732	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1528/N731	N1528/N731	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1527/N731	N1527/N731	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1527/N730	N1527/N730	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1526/N730	N1526/N730	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1526/N729	N1526/N729	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1525/N729	N1525/N729	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1525/N728	N1525/N728	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1524/N728	N1524/N728	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1524/N727	N1524/N727	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1523/N727	N1523/N727	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1523/N726	N1523/N726	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1522/N726	N1522/N726	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1522/N725	N1522/N725	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1521/N725	N1521/N725	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1521/N724	N1521/N724	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1520/N724	N1520/N724	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1520/N723	N1520/N723	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1557/N745	N1557/N745	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1557/N744	N1557/N744	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1556/N744	N1556/N744	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1556/N743	N1556/N743	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1555/N743	N1555/N743	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1555/N742	N1555/N742	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1554/N742	N1554/N742	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1554/N741	N1554/N741	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1553/N741	N1553/N741	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1553/N740	N1553/N740	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1552/N738	N1552/N738	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1552/N737	N1552/N737	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1551/N737	N1551/N737	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1551/N736	N1551/N736	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1550/N736	N1550/N736	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1550/N735	N1550/N735	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1549/N733	N1549/N733	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1549/N732	N1549/N732	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1548/N732	N1548/N732	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1548/N731	N1548/N731	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1547/N731	N1547/N731	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1547/N730	N1547/N730	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1546/N728	N1546/N728	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1546/N727	N1546/N727	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1545/N727	N1545/N727	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1545/N726	N1545/N726	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1544/N726	N1544/N726	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1544/N725	N1544/N725	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1543/N725	N1543/N725	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1543/N724	N1543/N724	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1542/N724	N1542/N724	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1542/N723	N1542/N723	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1557/N768	N1557/N768	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1557/N767	N1557/N767	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1556/N767	N1556/N767	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1556/N766	N1556/N766	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1555/N766	N1555/N766	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1555/N765	N1555/N765	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1554/N765	N1554/N765	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1554/N764	N1554/N764	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1553/N764	N1553/N764	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1553/N763	N1553/N763	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1552/N761	N1552/N761	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1552/N760	N1552/N760	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1551/N760	N1551/N760	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1551/N759	N1551/N759	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1550/N759	N1550/N759	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1550/N758	N1550/N758	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1549/N756	N1549/N756	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1549/N755	N1549/N755	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1548/N755	N1548/N755	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1548/N754	N1548/N754	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1547/N754	N1547/N754	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1547/N753	N1547/N753	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1546/N751	N1546/N751	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1546/N750	N1546/N750	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1545/N750	N1545/N750	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1545/N749	N1545/N749	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1544/N749	N1544/N749	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1544/N748	N1544/N748	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1543/N748	N1543/N748	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1543/N747	N1543/N747	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1542/N747	N1542/N747	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1542/N746	N1542/N746	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1573/N768	N1573/N768	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1573/N767	N1573/N767	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1572/N767	N1572/N767	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1572/N766	N1572/N766	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1571/N766	N1571/N766	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1571/N765	N1571/N765	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1570/N765	N1570/N765	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 13/11/24

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1570/N764	N1570/N764	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1569/N764	N1569/N764	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1569/N763	N1569/N763	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1568/N761	N1568/N761	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1568/N760	N1568/N760	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1567/N760	N1567/N760	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1567/N759	N1567/N759	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1566/N759	N1566/N759	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1566/N758	N1566/N758	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1565/N756	N1565/N756	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1565/N755	N1565/N755	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1564/N755	N1564/N755	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1564/N754	N1564/N754	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1563/N754	N1563/N754	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1563/N753	N1563/N753	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1562/N751	N1562/N751	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1562/N750	N1562/N750	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1561/N750	N1561/N750	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1561/N749	N1561/N749	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1560/N749	N1560/N749	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1560/N748	N1560/N748	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1559/N748	N1559/N748	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1559/N747	N1559/N747	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1558/N747	N1558/N747	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1558/N746	N1558/N746	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1573/N791	N1573/N791	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1573/N790	N1573/N790	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1572/N790	N1572/N790	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1572/N789	N1572/N789	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1571/N789	N1571/N789	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1571/N788	N1571/N788	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1570/N788	N1570/N788	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1570/N787	N1570/N787	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1569/N787	N1569/N787	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1569/N786	N1569/N786	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1568/N784	N1568/N784	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1568/N783	N1568/N783	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1567/N783	N1567/N783	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1567/N782	N1567/N782	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1566/N782	N1566/N782	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1566/N781	N1566/N781	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1565/N779	N1565/N779	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1565/N778	N1565/N778	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1564/N778	N1564/N778	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1564/N777	N1564/N777	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1563/N777	N1563/N777	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1563/N776	N1563/N776	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1562/N774	N1562/N774	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1562/N773	N1562/N773	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1561/N773	N1561/N773	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1561/N772	N1561/N772	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1560/N772	N1560/N772	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1560/N771	N1560/N771	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1559/N771	N1559/N771	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1559/N770	N1559/N770	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1558/N770	N1558/N770	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1558/N769	N1558/N769	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1595/N791	N1595/N791	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1595/N790	N1595/N790	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1594/N790	N1594/N790	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1594/N789	N1594/N789	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1593/N789	N1593/N789	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1593/N788	N1593/N788	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1592/N788	N1592/N788	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1592/N787	N1592/N787	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1591/N787	N1591/N787	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1591/N786	N1591/N786	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1590/N786	N1590/N786	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1590/N785	N1590/N785	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1589/N785	N1589/N785	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1589/N784	N1589/N784	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1588/N784	N1588/N784	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1588/N783	N1588/N783	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1587/N783	N1587/N783	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1587/N782	N1587/N782	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1586/N782	N1586/N782	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1586/N781	N1586/N781	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1585/N781	N1585/N781	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1585/N780	N1585/N780	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1584/N780	N1584/N780	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1584/N779	N1584/N779	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1583/N779	N1583/N779	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1583/N778	N1583/N778	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1582/N778	N1582/N778	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1582/N777	N1582/N777	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1581/N777	N1581/N777	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1581/N776	N1581/N776	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1580/N776	N1580/N776	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1580/N775	N1580/N775	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1579/N775	N1579/N775	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1579/N774	N1579/N774	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1578/N774	N1578/N774	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1578/N773	N1578/N773	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1577/N773	N1577/N773	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1577/N772	N1577/N772	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1576/N772	N1576/N772	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1576/N771	N1576/N771	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1575/N771	N1575/N771	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1575/N770	N1575/N770	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1574/N770	N1574/N770	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1574/N769	N1574/N769	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1595/N814	N1595/N814	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1595/N813	N1595/N813	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1594/N813	N1594/N813	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1594/N812	N1594/N812	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1593/N812	N1593/N812	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1593/N811	N1593/N811	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1592/N811	N1592/N811	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1592/N810	N1592/N810	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1591/N810	N1591/N810	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1591/N809	N1591/N809	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1590/N809	N1590/N809	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 13/11/24

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1590/N808	N1590/N808	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1589/N808	N1589/N808	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1589/N807	N1589/N807	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1588/N807	N1588/N807	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1588/N806	N1588/N806	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1587/N806	N1587/N806	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1587/N805	N1587/N805	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1586/N805	N1586/N805	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1586/N804	N1586/N804	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1585/N804	N1585/N804	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1585/N803	N1585/N803	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1584/N803	N1584/N803	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1584/N802	N1584/N802	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1583/N802	N1583/N802	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1583/N801	N1583/N801	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1582/N801	N1582/N801	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1582/N800	N1582/N800	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1581/N800	N1581/N800	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1581/N799	N1581/N799	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1580/N799	N1580/N799	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1580/N798	N1580/N798	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1579/N798	N1579/N798	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1579/N797	N1579/N797	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1578/N797	N1578/N797	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1578/N796	N1578/N796	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1577/N796	N1577/N796	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1577/N795	N1577/N795	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1576/N795	N1576/N795	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1576/N794	N1576/N794	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1575/N794	N1575/N794	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1575/N793	N1575/N793	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1574/N793	N1574/N793	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1574/N792	N1574/N792	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1617/N814	N1617/N814	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1617/N813	N1617/N813	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1616/N813	N1616/N813	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1616/N812	N1616/N812	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1615/N812	N1615/N812	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1615/N811	N1615/N811	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1614/N811	N1614/N811	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1614/N810	N1614/N810	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1613/N810	N1613/N810	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1613/N809	N1613/N809	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1612/N809	N1612/N809	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1612/N808	N1612/N808	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1611/N808	N1611/N808	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1611/N807	N1611/N807	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1610/N807	N1610/N807	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1610/N806	N1610/N806	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1609/N806	N1609/N806	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1609/N805	N1609/N805	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1608/N805	N1608/N805	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1608/N804	N1608/N804	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1607/N804	N1607/N804	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1607/N803	N1607/N803	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1606/N803	N1606/N803	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1606/N802	N1606/N802	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1605/N802	N1605/N802	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1605/N801	N1605/N801	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1604/N801	N1604/N801	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1604/N800	N1604/N800	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1603/N800	N1603/N800	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1603/N799	N1603/N799	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1602/N799	N1602/N799	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1602/N798	N1602/N798	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1601/N798	N1601/N798	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1601/N797	N1601/N797	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1600/N797	N1600/N797	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1600/N796	N1600/N796	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1599/N796	N1599/N796	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1599/N795	N1599/N795	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1598/N795	N1598/N795	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1598/N794	N1598/N794	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1597/N794	N1597/N794	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1597/N793	N1597/N793	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1596/N793	N1596/N793	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1596/N792	N1596/N792	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1617/N837	N1617/N837	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1617/N836	N1617/N836	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1616/N836	N1616/N836	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1616/N835	N1616/N835	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1615/N835	N1615/N835	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1615/N834	N1615/N834	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1614/N834	N1614/N834	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1614/N833	N1614/N833	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1613/N833	N1613/N833	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1613/N832	N1613/N832	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1612/N832	N1612/N832	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1612/N831	N1612/N831	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1611/N831	N1611/N831	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1611/N830	N1611/N830	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1610/N830	N1610/N830	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1610/N829	N1610/N829	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1609/N829	N1609/N829	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1609/N828	N1609/N828	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1608/N828	N1608/N828	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1608/N827	N1608/N827	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1607/N827	N1607/N827	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1607/N826	N1607/N826	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1606/N826	N1606/N826	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1606/N825	N1606/N825	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1605/N825	N1605/N825	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1605/N824	N1605/N824	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1604/N824	N1604/N824	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1604/N823	N1604/N823	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1603/N823	N1603/N823	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1603/N822	N1603/N822	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1602/N822	N1602/N822	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1602/N821	N1602/N821	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1601/N821	N1601/N821	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1601/N820	N1601/N820	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1600/N820	N1600/N820	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1600/N819	N1600/N819	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1599/N819	N1599/N819	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1599/N818	N1599/N818	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1598/N818	N1598/N818	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1598/N817	N1598/N817	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1597/N817	N1597/N817	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1597/N816	N1597/N816	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1596/N816	N1596/N816	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1596/N815	N1596/N815	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1639/N837	N1639/N837	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1639/N836	N1639/N836	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1638/N836	N1638/N836	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1638/N835	N1638/N835	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1637/N835	N1637/N835	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1637/N834	N1637/N834	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1636/N834	N1636/N834	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1636/N833	N1636/N833	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1635/N833	N1635/N833	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1635/N832	N1635/N832	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1634/N832	N1634/N832	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1634/N831	N1634/N831	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1633/N831	N1633/N831	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1633/N830	N1633/N830	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1632/N830	N1632/N830	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1632/N829	N1632/N829	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1631/N829	N1631/N829	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1631/N828	N1631/N828	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1630/N828	N1630/N828	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1630/N827	N1630/N827	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1629/N827	N1629/N827	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1629/N826	N1629/N826	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1628/N826	N1628/N826	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1628/N825	N1628/N825	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1627/N825	N1627/N825	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1627/N824	N1627/N824	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1626/N824	N1626/N824	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1626/N823	N1626/N823	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1625/N823	N1625/N823	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1625/N822	N1625/N822	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1624/N822	N1624/N822	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1624/N821	N1624/N821	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1623/N821	N1623/N821	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1623/N820	N1623/N820	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1622/N820	N1622/N820	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1622/N819	N1622/N819	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1621/N819	N1621/N819	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1621/N818	N1621/N818	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1620/N818	N1620/N818	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1620/N817	N1620/N817	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1619/N817	N1619/N817	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1619/N816	N1619/N816	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1618/N816	N1618/N816	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1618/N815	N1618/N815	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1639/N860	N1639/N860	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1639/N859	N1639/N859	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1638/N859	N1638/N859	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1638/N858	N1638/N858	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1637/N858	N1637/N858	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1637/N857	N1637/N857	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1636/N857	N1636/N857	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1636/N856	N1636/N856	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1635/N856	N1635/N856	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1635/N855	N1635/N855	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1634/N855	N1634/N855	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1634/N854	N1634/N854	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1633/N854	N1633/N854	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1633/N853	N1633/N853	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1632/N853	N1632/N853	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1632/N852	N1632/N852	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1631/N852	N1631/N852	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1631/N851	N1631/N851	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1630/N851	N1630/N851	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1630/N850	N1630/N850	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1629/N850	N1629/N850	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1629/N849	N1629/N849	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1628/N849	N1628/N849	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1628/N848	N1628/N848	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1627/N848	N1627/N848	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1627/N847	N1627/N847	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1626/N847	N1626/N847	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1626/N846	N1626/N846	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1625/N846	N1625/N846	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1625/N845	N1625/N845	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1624/N845	N1624/N845	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1624/N844	N1624/N844	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1623/N844	N1623/N844	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1623/N843	N1623/N843	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1622/N843	N1622/N843	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1622/N842	N1622/N842	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1621/N842	N1621/N842	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1621/N841	N1621/N841	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1620/N841	N1620/N841	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1620/N840	N1620/N840	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1619/N840	N1619/N840	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1619/N839	N1619/N839	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1618/N839	N1618/N839	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1618/N838	N1618/N838	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1661/N860	N1661/N860	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1661/N859	N1661/N859	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1660/N859	N1660/N859	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1660/N858	N1660/N858	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1659/N858	N1659/N858	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1659/N857	N1659/N857	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1658/N857	N1658/N857	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1658/N856	N1658/N856	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1657/N856	N1657/N856	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1657/N855	N1657/N855	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1656/N855	N1656/N855	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1656/N854	N1656/N854	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1655/N854	N1655/N854	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1655/N853	N1655/N853	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1654/N853	N1654/N853	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1654/N852	N1654/N852	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1653/N852	N1653/N852	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1653/N851	N1653/N851	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1652/N851	N1652/N851	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1652/N850	N1652/N850	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1651/N850	N1651/N850	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1651/N849	N1651/N849	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1650/N849	N1650/N849	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1650/N848	N1650/N848	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1649/N848	N1649/N848	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1649/N847	N1649/N847	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1648/N847	N1648/N847	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1648/N846	N1648/N846	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1647/N846	N1647/N846	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1647/N845	N1647/N845	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1646/N845	N1646/N845	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1646/N844	N1646/N844	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1645/N844	N1645/N844	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1645/N843	N1645/N843	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1644/N843	N1644/N843	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1644/N842	N1644/N842	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1643/N842	N1643/N842	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1643/N841	N1643/N841	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1642/N841	N1642/N841	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1642/N840	N1642/N840	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1641/N840	N1641/N840	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1641/N839	N1641/N839	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1640/N839	N1640/N839	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1640/N838	N1640/N838	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1661/N31	N1661/N31	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1661/N881	N1661/N881	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1660/N881	N1660/N881	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1660/N880	N1660/N880	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1659/N880	N1659/N880	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1659/N879	N1659/N879	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1658/N879	N1658/N879	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1658/N878	N1658/N878	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1657/N878	N1657/N878	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1657/N877	N1657/N877	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1656/N877	N1656/N877	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1656/N876	N1656/N876	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1655/N876	N1655/N876	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1655/N875	N1655/N875	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1654/N875	N1654/N875	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1654/N874	N1654/N874	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1653/N874	N1653/N874	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1653/N873	N1653/N873	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1652/N873	N1652/N873	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1652/N872	N1652/N872	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1651/N872	N1651/N872	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1651/N871	N1651/N871	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1650/N871	N1650/N871	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1650/N870	N1650/N870	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1649/N870	N1649/N870	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1649/N869	N1649/N869	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1648/N869	N1648/N869	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1648/N868	N1648/N868	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1647/N868	N1647/N868	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1647/N867	N1647/N867	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1646/N867	N1646/N867	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1646/N866	N1646/N866	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1645/N866	N1645/N866	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1645/N865	N1645/N865	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1644/N865	N1644/N865	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1644/N864	N1644/N864	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1643/N864	N1643/N864	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1643/N863	N1643/N863	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1642/N863	N1642/N863	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1642/N862	N1642/N862	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1641/N862	N1641/N862	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1641/N861	N1641/N861	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1640/N861	N1640/N861	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1640/N34	N1640/N34	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N34/N861	N34/N861	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N861/N862	N861/N862	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N862/N863	N862/N863	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N863/N864	N863/N864	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N864/N865	N864/N865	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N865/N866	N865/N866	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N866/N867	N866/N867	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N867/N868	N867/N868	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N868/N869	N868/N869	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N869/N870	N869/N870	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N870/N871	N870/N871	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N871/N872	N871/N872	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N872/N873	N872/N873	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N873/N874	N873/N874	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N874/N875	N874/N875	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N875/N876	N875/N876	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N876/N877	N876/N877	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N877/N878	N877/N878	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N878/N879	N878/N879	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N879/N880	N879/N880	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N880/N881	N880/N881	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N881/N31	N881/N31	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N32/N78	N32/N78	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N78/N101	N78/N101	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N101/N124	N101/N124	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N124/N147	N124/N147	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N147/N170	N147/N170	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N170/N193	N170/N193	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N193/N216	N193/N216	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N216/N239	N216/N239	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N239/N262	N239/N262	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N262/N285	N262/N285	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N285/N308	N285/N308	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N308/N331	N308/N331	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N331/N354	N331/N354	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N354/N377	N354/N377	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N377/N400	N377/N400	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N400/N423	N400/N423	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N423/N446	N423/N446	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N446/N469	N446/N469	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N469/N492	N469/N492	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N492/N515	N492/N515	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N515/N538	N515/N538	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N538/N561	N538/N561	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N561/N584	N561/N584	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N584/N607	N584/N607	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N607/N630	N607/N630	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N630/N653	N630/N653	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N653/N676	N653/N676	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N676/N699	N676/N699	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N699/N722	N699/N722	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N722/N745	N722/N745	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N745/N768	N745/N768	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N768/N791	N768/N791	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N791/N814	N791/N814	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N814/N837	N814/N837	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N837/N860	N837/N860	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N860/N31	N860/N31	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N33/N56	N33/N56	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N56/N79	N56/N79	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N79/N102	N79/N102	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N102/N125	N102/N125	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N125/N148	N125/N148	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N148/N171	N148/N171	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N171/N194	N171/N194	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N194/N217	N194/N217	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N217/N240	N217/N240	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N240/N263	N240/N263	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N263/N286	N263/N286	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N286/N309	N286/N309	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N309/N332	N309/N332	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N332/N355	N332/N355	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N355/N378	N355/N378	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N378/N401	N378/N401	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N401/N424	N401/N424	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N424/N447	N424/N447	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N447/N470	N447/N470	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N470/N493	N470/N493	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N493/N516	N493/N516	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N516/N539	N516/N539	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N539/N562	N539/N562	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N562/N585	N562/N585	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N585/N608	N585/N608	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N608/N631	N608/N631	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N631/N654	N631/N654	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N654/N677	N654/N677	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N677/N700	N677/N700	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N700/N723	N700/N723	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N723/N746	N723/N746	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N746/N769	N746/N769	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N769/N792	N769/N792	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N792/N815	N792/N815	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N815/N838	N815/N838	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N838/N34	N838/N34	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N35/N36	N35/N36	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N36/N37	N36/N37	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N37/N38	N37/N38	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N38/N39	N38/N39	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N39/N40	N39/N40	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N40/N41	N40/N41	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N41/N42	N41/N42	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N42/N43	N42/N43	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N43/N44	N43/N44	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N44/N45	N44/N45	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N45/N46	N45/N46	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N46/N47	N46/N47	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N47/N48	N47/N48	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N48/N49	N48/N49	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N49/N50	N49/N50	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N50/N51	N50/N51	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N51/N52	N51/N52	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N52/N53	N52/N53	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N53/N54	N53/N54	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N54/N55	N54/N55	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N55/N32	N55/N32	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N33/N35	N33/N35	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1712/N1913	N1712/N1715	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1913/N1715	N1712/N1715	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1715/N1590	N1715/N1590	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1536/N1712	N1536/N1712	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1713/N1712	N1713/N1712	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1552/N1713	N1552/N1713	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1712/N1553	N1712/N1553	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1714/N1589	N1714/N1589	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1713/N1912	N1713/N1714	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1912/N1714	N1713/N1714	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1535/N1713	N1535/N1713	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1568/N1714	N1568/N1714	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1714/N1715	N1714/N1715	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1715/N1569	N1715/N1569	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1716/N1902	N1716/N1718	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1902/N1718	N1716/N1718	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1718/N1585	N1718/N1585	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1531/N1716	N1531/N1716	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1717/N1901	N1717/N1719	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1901/N1719	N1717/N1719	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1719/N1584	N1719/N1584	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1530/N1717	N1530/N1717	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1549/N1717	N1549/N1717	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1717/N1716	N1717/N1716	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1716/N1550	N1716/N1550	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1565/N1719	N1565/N1719	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1719/N1718	N1719/N1718	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1718/N1566	N1718/N1566	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1723/N1721	N1723/N1721	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1562/N1723	N1562/N1723	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1721/N1563	N1721/N1563	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1722/N1720	N1722/N1720	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1546/N1722	N1546/N1722	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1720/N1547	N1720/N1547	CHS 60.0x3.0 (CHS)	1.300	1.00	1.00	-	-
		N1720/N1888	N1720/N1721	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 13/11/24

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								
		N1888/N1721	N1720/N1721	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1721/N1580	N1721/N1580	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1526/N1720	N1526/N1720	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1722/N1887	N1722/N1723	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1887/N1723	N1722/N1723	CHS 60.0x3.0 (CHS)	0.651	1.00	1.00	-	-
		N1723/N1579	N1723/N1579	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1525/N1722	N1525/N1722	CHS 60.0x3.0 (CHS)	1.302	1.00	1.00	-	-
		N1714/N784	N1714/N784	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1714/N785	N1714/N785	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1715/N785	N1715/N785	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1715/N786	N1715/N786	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1714/N761	N1714/N761	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1713/N761	N1713/N761	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1713/N738	N1713/N738	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1713/N739	N1713/N739	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1712/N739	N1712/N739	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1715/N763	N1715/N763	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1712/N763	N1712/N763	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1712/N740	N1712/N740	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1714/N762	N1714/N762	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1712/N762	N1712/N762	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1715/N762	N1715/N762	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1713/N762	N1713/N762	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1719/N779	N1719/N779	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1719/N780	N1719/N780	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1719/N756	N1719/N756	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1717/N756	N1717/N756	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1717/N733	N1717/N733	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1717/N734	N1717/N734	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1718/N780	N1718/N780	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1718/N781	N1718/N781	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1718/N758	N1718/N758	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1716/N758	N1716/N758	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1716/N735	N1716/N735	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1716/N734	N1716/N734	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1717/N757	N1717/N757	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1719/N757	N1719/N757	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1716/N757	N1716/N757	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1718/N757	N1718/N757	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1722/N751	N1722/N751	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1722/N728	N1722/N728	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1722/N729	N1722/N729	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1720/N729	N1720/N729	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1720/N753	N1720/N753	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1721/N753	N1721/N753	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1721/N776	N1721/N776	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1721/N775	N1721/N775	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1723/N775	N1723/N775	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1723/N751	N1723/N751	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1722/N752	N1722/N752	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1721/N752	N1721/N752	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1723/N752	N1723/N752	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1720/N752	N1720/N752	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-
		N1723/N774	N1723/N774	CHS 60.0x3.0 (CHS)	1.593	1.00	1.00	-	-

Descripción									
Material		Barra (Ni/Nf)	Pieza (Ni/Nf)	Perfil(Serie)	Longitud (m)	β_{xy}	β_{xz}	$Lb_{Sup.}$ (m)	$Lb_{Inf.}$ (m)
Tipo	Designación								

Notación:
Ni: Nudo inicial
Nf: Nudo final
β_{xy}: Coeficiente de pandeo en el plano 'XY'
β_{xz}: Coeficiente de pandeo en el plano 'XZ'
$Lb_{sup.}$: Separación entre arriostramientos del ala superior
$Lb_{inf.}$: Separación entre arriostramientos del ala inferior

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1.1.1. Barras 2

1. ESTRUCTURA

1.1. Cargas

1.1.1. Barras

Referencias:

'P1', 'P2':

- Cargas puntuales, uniformes, en faja y momentos puntuales: 'P1' es el valor de la carga. 'P2' no se utiliza.
- Cargas trapeciales: 'P1' es el valor de la carga en el punto donde comienza (L1) y 'P2' es el valor de la carga en el punto donde termina (L2).
- Cargas triangulares: 'P1' es el valor máximo de la carga. 'P2' no se utiliza.
- Incrementos de temperatura: 'P1' y 'P2' son los valores de la temperatura en las caras exteriores o paramentos de la pieza. La orientación de la variación del incremento de temperatura sobre la sección transversal dependerá de la dirección seleccionada.

'L1', 'L2':

- Cargas y momentos puntuales: 'L1' es la distancia entre el nudo inicial de la barra y la posición donde se aplica la carga. 'L2' no se utiliza.
- Cargas trapeciales, en faja, y triangulares: 'L1' es la distancia entre el nudo inicial de la barra y la posición donde comienza la carga, 'L2' es la distancia entre el nudo inicial de la barra y la posición donde termina la carga.

Unidades:

- Cargas puntuales: kN
- Momentos puntuales: kN·m.
- Cargas uniformes, en faja, triangulares y trapeciales: kN/m.
- Incrementos de temperatura: °C.

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1/N1663	Peso propio	Uniforme	0.579	-	-	-	Globales	0.000	0.000	-1.000
N1/N1663	V x+(1)	Uniforme	2.311	-	-	-	Globales	1.000	-0.000	-0.000
N1/N1663	V x+(1)	Faja	2.311	-	0.325	3.800	Globales	-0.000	1.000	-0.000
N1/N1663	V x+(2)	Faja	2.311	-	0.325	3.800	Globales	0.000	1.000	-0.000
N1/N1663	V x+(2)	Uniforme	0.868	-	-	-	Globales	1.000	-0.000	-0.000
N1/N1663	Vy+(1)	Uniforme	2.311	-	-	-	Globales	1.000	-0.000	-0.000
N1/N1663	Vy+(1)	Faja	2.096	-	0.325	3.800	Globales	0.000	1.000	-0.000
N1/N1663	Vy+(2)	Uniforme	2.311	-	-	-	Globales	1.000	-0.000	-0.000
N1/N1663	Vy+(2)	Faja	2.096	-	0.325	3.800	Globales	0.000	1.000	-0.000
N1/N1663	V x-(1)	Faja	2.311	-	0.325	3.800	Globales	-0.000	-1.000	0.000
N1/N1663	V x-(1)	Uniforme	2.022	-	-	-	Globales	-1.000	0.000	0.000
N1/N1663	V x-(2)	Faja	2.311	-	0.325	3.800	Globales	-0.000	-1.000	0.000
N1/N1663	V x-(2)	Uniforme	2.022	-	-	-	Globales	-1.000	0.000	0.000
N1/N1663	V y-(1)	Faja	1.017	-	0.325	3.800	Globales	-0.000	-1.000	0.000
N1/N1663	V y-(1)	Uniforme	2.311	-	-	-	Globales	1.000	0.000	0.000
N1/N1663	V y-(2)	Faja	1.017	-	0.325	3.800	Globales	-0.000	-1.000	0.000
N1/N1663	V y-(2)	Uniforme	2.311	-	-	-	Globales	1.000	-0.000	-0.000
N1663/N1687	Peso propio	Uniforme	0.579	-	-	-	Globales	0.000	0.000	-1.000
N1663/N1687	V x+(1)	Uniforme	2.311	-	-	-	Globales	1.000	-0.000	-0.000
N1663/N1687	V x+(1)	Uniforme	2.311	-	-	-	Globales	-0.000	1.000	-0.000
N1663/N1687	V x+(2)	Uniforme	2.311	-	-	-	Globales	0.000	1.000	-0.000
N1663/N1687	V x+(2)	Uniforme	0.868	-	-	-	Globales	1.000	-0.000	-0.000
N1663/N1687	Vy+(1)	Uniforme	2.311	-	-	-	Globales	1.000	-0.000	-0.000
N1663/N1687	Vy+(1)	Uniforme	2.096	-	-	-	Globales	0.000	1.000	-0.000
N1663/N1687	Vy+(2)	Uniforme	2.311	-	-	-	Globales	1.000	-0.000	-0.000
N1663/N1687	Vy+(2)	Uniforme	2.096	-	-	-	Globales	0.000	1.000	-0.000
N1663/N1687	V x-(1)	Uniforme	2.311	-	-	-	Globales	-0.000	-1.000	0.000
N1663/N1687	V x-(1)	Uniforme	2.022	-	-	-	Globales	-1.000	0.000	0.000
N1663/N1687	V x-(2)	Uniforme	2.311	-	-	-	Globales	-0.000	-1.000	0.000
N1663/N1687	V x-(2)	Uniforme	2.022	-	-	-	Globales	-1.000	0.000	0.000
N1663/N1687	V y-(1)	Uniforme	1.017	-	-	-	Globales	-0.000	-1.000	0.000
N1663/N1687	V y-(1)	Uniforme	2.311	-	-	-	Globales	1.000	0.000	0.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1663/N1687	V y-(2)	Uniforme	1.017	-	-	-	Globales	-0.000	-1.000	0.000
N1663/N1687	V y-(2)	Uniforme	2.311	-	-	-	Globales	1.000	-0.000	-0.000
N1687/N2	Peso propio	Uniforme	0.579	-	-	-	Globales	0.000	0.000	-1.000
N1687/N2	V x+(1)	Uniforme	2.311	-	-	-	Globales	1.000	-0.000	-0.000
N1687/N2	V x+(1)	Uniforme	2.311	-	-	-	Globales	-0.000	1.000	-0.000
N1687/N2	V x+(2)	Uniforme	2.311	-	-	-	Globales	0.000	1.000	-0.000
N1687/N2	V x+(2)	Uniforme	0.868	-	-	-	Globales	1.000	-0.000	-0.000
N1687/N2	Vy+(1)	Uniforme	2.311	-	-	-	Globales	1.000	-0.000	-0.000
N1687/N2	Vy+(1)	Uniforme	2.096	-	-	-	Globales	0.000	1.000	-0.000
N1687/N2	Vy+(2)	Uniforme	2.311	-	-	-	Globales	1.000	-0.000	-0.000
N1687/N2	Vy+(2)	Uniforme	2.096	-	-	-	Globales	0.000	1.000	-0.000
N1687/N2	V x-(1)	Uniforme	2.311	-	-	-	Globales	-0.000	-1.000	0.000
N1687/N2	V x-(1)	Uniforme	2.022	-	-	-	Globales	-1.000	0.000	0.000
N1687/N2	V x-(2)	Uniforme	2.311	-	-	-	Globales	-0.000	-1.000	0.000
N1687/N2	V x-(2)	Uniforme	2.022	-	-	-	Globales	-1.000	0.000	0.000
N1687/N2	V y-(1)	Uniforme	1.017	-	-	-	Globales	-0.000	-1.000	0.000
N1687/N2	V y-(1)	Uniforme	2.311	-	-	-	Globales	1.000	0.000	0.000
N1687/N2	V y-(2)	Uniforme	1.017	-	-	-	Globales	-0.000	-1.000	0.000
N1687/N2	V y-(2)	Uniforme	2.311	-	-	-	Globales	1.000	-0.000	-0.000
N3/N1669	Peso propio	Uniforme	0.579	-	-	-	Globales	0.000	0.000	-1.000
N3/N1669	V x+(1)	Uniforme	4.622	-	-	-	Globales	1.000	-0.000	-0.000
N3/N1669	V x+(2)	Uniforme	1.736	-	-	-	Globales	1.000	-0.000	-0.000
N3/N1669	Vy+(1)	Uniforme	4.622	-	-	-	Globales	1.000	-0.000	-0.000
N3/N1669	Vy+(2)	Uniforme	4.622	-	-	-	Globales	1.000	-0.000	-0.000
N3/N1669	V x-(1)	Uniforme	4.043	-	-	-	Globales	-1.000	0.000	0.000
N3/N1669	V x-(2)	Uniforme	4.043	-	-	-	Globales	-1.000	0.000	0.000
N3/N1669	V y-(1)	Uniforme	4.622	-	-	-	Globales	1.000	0.000	0.000
N3/N1669	V y-(2)	Uniforme	4.622	-	-	-	Globales	1.000	-0.000	-0.000
N1669/N1686	Peso propio	Uniforme	0.579	-	-	-	Globales	0.000	0.000	-1.000
N1669/N1686	V x+(1)	Uniforme	4.622	-	-	-	Globales	1.000	-0.000	-0.000
N1669/N1686	V x+(2)	Uniforme	1.736	-	-	-	Globales	1.000	-0.000	-0.000
N1669/N1686	Vy+(1)	Uniforme	4.622	-	-	-	Globales	1.000	-0.000	-0.000
N1669/N1686	Vy+(2)	Uniforme	4.622	-	-	-	Globales	1.000	-0.000	-0.000
N1669/N1686	V x-(1)	Uniforme	4.043	-	-	-	Globales	-1.000	0.000	0.000
N1669/N1686	V x-(2)	Uniforme	4.043	-	-	-	Globales	-1.000	0.000	0.000
N1669/N1686	V y-(1)	Uniforme	4.622	-	-	-	Globales	1.000	0.000	0.000
N1669/N1686	V y-(2)	Uniforme	4.622	-	-	-	Globales	1.000	-0.000	-0.000
N1686/N4	Peso propio	Uniforme	0.579	-	-	-	Globales	0.000	0.000	-1.000
N1686/N4	V x+(1)	Uniforme	4.622	-	-	-	Globales	1.000	-0.000	-0.000
N1686/N4	V x+(2)	Uniforme	1.736	-	-	-	Globales	1.000	-0.000	-0.000
N1686/N4	Vy+(1)	Uniforme	4.622	-	-	-	Globales	1.000	-0.000	-0.000
N1686/N4	Vy+(2)	Uniforme	4.622	-	-	-	Globales	1.000	-0.000	-0.000
N1686/N4	V x-(1)	Uniforme	4.043	-	-	-	Globales	-1.000	0.000	0.000
N1686/N4	V x-(2)	Uniforme	4.043	-	-	-	Globales	-1.000	0.000	0.000
N1686/N4	V y-(1)	Uniforme	4.622	-	-	-	Globales	1.000	0.000	0.000
N1686/N4	V y-(2)	Uniforme	4.622	-	-	-	Globales	1.000	-0.000	-0.000
N5/N1670	Peso propio	Uniforme	0.579	-	-	-	Globales	0.000	0.000	-1.000
N5/N1670	V x+(1)	Uniforme	4.622	-	-	-	Globales	1.000	-0.000	-0.000
N5/N1670	V x+(2)	Uniforme	1.736	-	-	-	Globales	1.000	-0.000	-0.000
N5/N1670	Vy+(1)	Uniforme	4.622	-	-	-	Globales	1.000	-0.000	-0.000
N5/N1670	Vy+(2)	Uniforme	4.622	-	-	-	Globales	1.000	-0.000	-0.000
N5/N1670	V x-(1)	Uniforme	4.043	-	-	-	Globales	-1.000	0.000	0.000
N5/N1670	V x-(2)	Uniforme	4.043	-	-	-	Globales	-1.000	0.000	0.000
N5/N1670	V y-(1)	Uniforme	4.622	-	-	-	Globales	1.000	0.000	0.000
N5/N1670	V y-(2)	Uniforme	4.622	-	-	-	Globales	1.000	-0.000	-0.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1670/N1685	Peso propio	Uniforme	0.579	-	-	-	Globales	0.000	0.000	-1.000
N1670/N1685	V x+(1)	Uniforme	4.622	-	-	-	Globales	1.000	-0.000	-0.000
N1670/N1685	V x+(2)	Uniforme	1.736	-	-	-	Globales	1.000	-0.000	-0.000
N1670/N1685	Vy+(1)	Uniforme	4.622	-	-	-	Globales	1.000	-0.000	-0.000
N1670/N1685	Vy+(2)	Uniforme	4.622	-	-	-	Globales	1.000	-0.000	-0.000
N1670/N1685	V x-(1)	Uniforme	4.043	-	-	-	Globales	-1.000	0.000	0.000
N1670/N1685	V x-(2)	Uniforme	4.043	-	-	-	Globales	-1.000	0.000	0.000
N1670/N1685	V y-(1)	Uniforme	4.622	-	-	-	Globales	1.000	0.000	0.000
N1670/N1685	V y-(2)	Uniforme	4.622	-	-	-	Globales	1.000	-0.000	-0.000
N1685/N6	Peso propio	Uniforme	0.579	-	-	-	Globales	0.000	0.000	-1.000
N1685/N6	V x+(1)	Uniforme	4.622	-	-	-	Globales	1.000	-0.000	-0.000
N1685/N6	V x+(2)	Uniforme	1.736	-	-	-	Globales	1.000	-0.000	-0.000
N1685/N6	Vy+(1)	Uniforme	4.622	-	-	-	Globales	1.000	-0.000	-0.000
N1685/N6	Vy+(2)	Uniforme	4.622	-	-	-	Globales	1.000	-0.000	-0.000
N1685/N6	V x-(1)	Uniforme	4.043	-	-	-	Globales	-1.000	0.000	0.000
N1685/N6	V x-(2)	Uniforme	4.043	-	-	-	Globales	-1.000	0.000	0.000
N1685/N6	V y-(1)	Uniforme	4.622	-	-	-	Globales	1.000	0.000	0.000
N1685/N6	V y-(2)	Uniforme	4.622	-	-	-	Globales	1.000	-0.000	-0.000
N7/N1671	Peso propio	Uniforme	0.579	-	-	-	Globales	0.000	0.000	-1.000
N7/N1671	V x+(1)	Uniforme	4.622	-	-	-	Globales	1.000	-0.000	-0.000
N7/N1671	V x+(2)	Uniforme	1.736	-	-	-	Globales	1.000	-0.000	-0.000
N7/N1671	Vy+(1)	Uniforme	4.622	-	-	-	Globales	1.000	-0.000	-0.000
N7/N1671	Vy+(2)	Uniforme	4.622	-	-	-	Globales	1.000	-0.000	-0.000
N7/N1671	V x-(1)	Uniforme	4.043	-	-	-	Globales	-1.000	0.000	0.000
N7/N1671	V x-(2)	Uniforme	4.043	-	-	-	Globales	-1.000	0.000	0.000
N7/N1671	V y-(1)	Uniforme	4.622	-	-	-	Globales	1.000	0.000	0.000
N7/N1671	V y-(2)	Uniforme	4.622	-	-	-	Globales	1.000	-0.000	-0.000
N1671/N1684	Peso propio	Uniforme	0.579	-	-	-	Globales	0.000	0.000	-1.000
N1671/N1684	V x+(1)	Uniforme	4.622	-	-	-	Globales	1.000	-0.000	-0.000
N1671/N1684	V x+(2)	Uniforme	1.736	-	-	-	Globales	1.000	-0.000	-0.000
N1671/N1684	Vy+(1)	Uniforme	4.622	-	-	-	Globales	1.000	-0.000	-0.000
N1671/N1684	Vy+(2)	Uniforme	4.622	-	-	-	Globales	1.000	-0.000	-0.000
N1671/N1684	V x-(1)	Uniforme	4.043	-	-	-	Globales	-1.000	0.000	0.000
N1671/N1684	V x-(2)	Uniforme	4.043	-	-	-	Globales	-1.000	0.000	0.000
N1671/N1684	V y-(1)	Uniforme	4.622	-	-	-	Globales	1.000	0.000	0.000
N1671/N1684	V y-(2)	Uniforme	4.622	-	-	-	Globales	1.000	-0.000	-0.000
N1684/N8	Peso propio	Uniforme	0.579	-	-	-	Globales	0.000	0.000	-1.000
N1684/N8	V x+(1)	Uniforme	4.622	-	-	-	Globales	1.000	-0.000	-0.000
N1684/N8	V x+(2)	Uniforme	1.736	-	-	-	Globales	1.000	-0.000	-0.000
N1684/N8	Vy+(1)	Uniforme	4.622	-	-	-	Globales	1.000	-0.000	-0.000
N1684/N8	Vy+(2)	Uniforme	4.622	-	-	-	Globales	1.000	-0.000	-0.000
N1684/N8	V x-(1)	Uniforme	4.043	-	-	-	Globales	-1.000	0.000	0.000
N1684/N8	V x-(2)	Uniforme	4.043	-	-	-	Globales	-1.000	0.000	0.000
N1684/N8	V y-(1)	Uniforme	4.622	-	-	-	Globales	1.000	0.000	0.000
N1684/N8	V y-(2)	Uniforme	4.622	-	-	-	Globales	1.000	-0.000	-0.000
N9/N1668	Peso propio	Uniforme	0.579	-	-	-	Globales	0.000	0.000	-1.000
N9/N1668	V x+(1)	Uniforme	2.311	-	-	-	Globales	1.000	-0.000	-0.000
N9/N1668	V x+(1)	Uniforme	2.311	-	-	-	Globales	-0.000	1.000	-0.000
N9/N1668	V x+(2)	Uniforme	0.868	-	-	-	Globales	1.000	-0.000	-0.000
N9/N1668	V x+(2)	Uniforme	2.311	-	-	-	Globales	0.000	1.000	0.000
N9/N1668	Vy+(1)	Uniforme	2.311	-	-	-	Globales	1.000	-0.000	-0.000
N9/N1668	Vy+(1)	Uniforme	1.017	-	-	-	Globales	-0.000	1.000	-0.000
N9/N1668	Vy+(2)	Uniforme	2.311	-	-	-	Globales	1.000	-0.000	-0.000
N9/N1668	Vy+(2)	Uniforme	1.017	-	-	-	Globales	-0.000	1.000	-0.000
N9/N1668	V x-(1)	Uniforme	2.311	-	-	-	Globales	0.000	1.000	0.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N9/N1668	V x-(1)	Uniforme	2.022	-	-	-	Globales	-1.000	0.000	0.000
N9/N1668	V x-(2)	Uniforme	2.311	-	-	-	Globales	-0.000	1.000	-0.000
N9/N1668	V x-(2)	Uniforme	2.022	-	-	-	Globales	-1.000	0.000	0.000
N9/N1668	V y-(1)	Uniforme	2.096	-	-	-	Globales	-0.000	-1.000	-0.000
N9/N1668	V y-(1)	Uniforme	2.311	-	-	-	Globales	1.000	0.000	0.000
N9/N1668	V y-(2)	Uniforme	2.096	-	-	-	Globales	-0.000	-1.000	-0.000
N9/N1668	V y-(2)	Uniforme	2.311	-	-	-	Globales	1.000	-0.000	-0.000
N1668/N1683	Peso propio	Uniforme	0.579	-	-	-	Globales	0.000	0.000	-1.000
N1668/N1683	V x+(1)	Uniforme	2.311	-	-	-	Globales	1.000	-0.000	-0.000
N1668/N1683	V x+(1)	Uniforme	2.311	-	-	-	Globales	-0.000	1.000	-0.000
N1668/N1683	V x+(2)	Uniforme	0.868	-	-	-	Globales	1.000	-0.000	-0.000
N1668/N1683	V x+(2)	Uniforme	2.311	-	-	-	Globales	0.000	1.000	0.000
N1668/N1683	Vy+(1)	Uniforme	2.311	-	-	-	Globales	1.000	-0.000	-0.000
N1668/N1683	Vy+(1)	Uniforme	1.017	-	-	-	Globales	-0.000	1.000	-0.000
N1668/N1683	Vy+(2)	Uniforme	2.311	-	-	-	Globales	1.000	-0.000	-0.000
N1668/N1683	Vy+(2)	Uniforme	1.017	-	-	-	Globales	-0.000	1.000	-0.000
N1668/N1683	V x-(1)	Uniforme	2.311	-	-	-	Globales	0.000	1.000	0.000
N1668/N1683	V x-(1)	Uniforme	2.022	-	-	-	Globales	-1.000	0.000	0.000
N1668/N1683	V x-(2)	Uniforme	2.311	-	-	-	Globales	-0.000	1.000	-0.000
N1668/N1683	V x-(2)	Uniforme	2.022	-	-	-	Globales	-1.000	0.000	0.000
N1668/N1683	V y-(1)	Uniforme	2.096	-	-	-	Globales	-0.000	-1.000	-0.000
N1668/N1683	V y-(1)	Uniforme	2.311	-	-	-	Globales	1.000	0.000	0.000
N1668/N1683	V y-(2)	Uniforme	2.096	-	-	-	Globales	-0.000	-1.000	-0.000
N1668/N1683	V y-(2)	Uniforme	2.311	-	-	-	Globales	1.000	-0.000	-0.000
N1683/N10	Peso propio	Uniforme	0.579	-	-	-	Globales	0.000	0.000	-1.000
N1683/N10	V x+(1)	Uniforme	2.311	-	-	-	Globales	1.000	-0.000	-0.000
N1683/N10	V x+(1)	Uniforme	2.311	-	-	-	Globales	-0.000	1.000	-0.000
N1683/N10	V x+(2)	Uniforme	0.868	-	-	-	Globales	1.000	-0.000	-0.000
N1683/N10	V x+(2)	Uniforme	2.311	-	-	-	Globales	0.000	1.000	0.000
N1683/N10	Vy+(1)	Uniforme	2.311	-	-	-	Globales	1.000	-0.000	-0.000
N1683/N10	Vy+(1)	Uniforme	1.017	-	-	-	Globales	-0.000	1.000	-0.000
N1683/N10	Vy+(2)	Uniforme	2.311	-	-	-	Globales	1.000	-0.000	-0.000
N1683/N10	Vy+(2)	Uniforme	1.017	-	-	-	Globales	-0.000	1.000	-0.000
N1683/N10	V x-(1)	Uniforme	2.311	-	-	-	Globales	0.000	1.000	0.000
N1683/N10	V x-(1)	Uniforme	2.022	-	-	-	Globales	-1.000	0.000	0.000
N1683/N10	V x-(2)	Uniforme	2.311	-	-	-	Globales	-0.000	1.000	-0.000
N1683/N10	V x-(2)	Uniforme	2.022	-	-	-	Globales	-1.000	0.000	0.000
N1683/N10	V y-(1)	Uniforme	2.096	-	-	-	Globales	-0.000	-1.000	-0.000
N1683/N10	V y-(1)	Uniforme	2.311	-	-	-	Globales	1.000	0.000	0.000
N1683/N10	V y-(2)	Uniforme	2.096	-	-	-	Globales	-0.000	-1.000	-0.000
N1683/N10	V y-(2)	Uniforme	2.311	-	-	-	Globales	1.000	-0.000	-0.000
N11/N1662	Peso propio	Uniforme	0.712	-	-	-	Globales	0.000	0.000	-1.000
N11/N1662	V x+(1)	Faja	5.084	-	0.325	3.800	Globales	-0.000	1.000	-0.000
N11/N1662	V x+(2)	Faja	5.084	-	0.325	3.800	Globales	0.000	1.000	-0.000
N11/N1662	Vy+(1)	Faja	4.612	-	0.325	3.800	Globales	0.000	1.000	-0.000
N11/N1662	Vy+(2)	Faja	4.612	-	0.325	3.800	Globales	0.000	1.000	-0.000
N11/N1662	V x-(1)	Faja	5.084	-	0.325	3.800	Globales	-0.000	-1.000	0.000
N11/N1662	V x-(2)	Faja	5.084	-	0.325	3.800	Globales	-0.000	-1.000	0.000
N11/N1662	V y-(1)	Faja	2.238	-	0.325	3.800	Globales	-0.000	-1.000	0.000
N11/N1662	V y-(2)	Faja	2.238	-	0.325	3.800	Globales	-0.000	-1.000	0.000
N1662/N1677	Peso propio	Uniforme	0.712	-	-	-	Globales	0.000	0.000	-1.000
N1662/N1677	V x+(1)	Uniforme	5.084	-	-	-	Globales	-0.000	1.000	-0.000
N1662/N1677	V x+(2)	Uniforme	5.084	-	-	-	Globales	0.000	1.000	-0.000
N1662/N1677	Vy+(1)	Uniforme	4.612	-	-	-	Globales	0.000	1.000	-0.000
N1662/N1677	Vy+(2)	Uniforme	4.612	-	-	-	Globales	0.000	1.000	-0.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1662/N1677	V x-(1)	Uniforme	5.084	-	-	-	Globales	-0.000	-1.000	0.000
N1662/N1677	V x-(2)	Uniforme	5.084	-	-	-	Globales	-0.000	-1.000	0.000
N1662/N1677	V y-(1)	Uniforme	2.238	-	-	-	Globales	-0.000	-1.000	0.000
N1662/N1677	V y-(2)	Uniforme	2.238	-	-	-	Globales	-0.000	-1.000	0.000
N1677/N12	Peso propio	Uniforme	0.712	-	-	-	Globales	0.000	0.000	-1.000
N1677/N12	V x+(1)	Faja	5.084	-	0.000	0.910	Globales	-0.000	1.000	-0.000
N1677/N12	V x+(1)	Trapecial	9.610	3.108	0.910	1.300	Globales	-0.000	1.000	-0.000
N1677/N12	V x+(2)	Faja	5.084	-	0.000	0.910	Globales	0.000	1.000	-0.000
N1677/N12	V x+(2)	Trapecial	9.610	3.108	0.910	1.300	Globales	0.000	1.000	-0.000
N1677/N12	Vy+(1)	Trapecial	8.718	2.819	0.910	1.300	Globales	0.000	1.000	-0.000
N1677/N12	Vy+(1)	Faja	4.612	-	0.000	0.910	Globales	0.000	1.000	-0.000
N1677/N12	Vy+(2)	Trapecial	8.718	2.819	0.910	1.300	Globales	0.000	1.000	-0.000
N1677/N12	Vy+(2)	Faja	4.612	-	0.000	0.910	Globales	0.000	1.000	-0.000
N1677/N12	V x-(1)	Trapecial	9.610	3.108	0.910	1.300	Globales	-0.000	-1.000	0.000
N1677/N12	V x-(1)	Faja	5.084	-	0.000	0.910	Globales	-0.000	-1.000	0.000
N1677/N12	V x-(2)	Trapecial	9.610	3.108	0.910	1.300	Globales	-0.000	-1.000	0.000
N1677/N12	V x-(2)	Faja	5.084	-	0.000	0.910	Globales	-0.000	-1.000	0.000
N1677/N12	V y-(1)	Faja	2.238	-	0.000	0.910	Globales	-0.000	-1.000	0.000
N1677/N12	V y-(1)	Trapecial	4.230	1.368	0.910	1.300	Globales	-0.000	-1.000	0.000
N1677/N12	V y-(2)	Faja	2.238	-	0.000	0.910	Globales	-0.000	-1.000	0.000
N1677/N12	V y-(2)	Trapecial	4.230	1.368	0.910	1.300	Globales	-0.000	-1.000	0.000
N13/N1664	Peso propio	Uniforme	0.712	-	-	-	Globales	0.000	0.000	-1.000
N13/N1664	V x+(1)	Faja	5.546	-	0.325	3.800	Globales	-0.000	1.000	-0.000
N13/N1664	V x+(2)	Faja	5.546	-	0.325	3.800	Globales	0.000	1.000	-0.000
N13/N1664	Vy+(1)	Faja	5.031	-	0.325	3.800	Globales	0.000	1.000	-0.000
N13/N1664	Vy+(2)	Faja	5.031	-	0.325	3.800	Globales	0.000	1.000	-0.000
N13/N1664	V x-(1)	Faja	5.546	-	0.325	3.800	Globales	-0.000	-1.000	0.000
N13/N1664	V x-(2)	Faja	5.546	-	0.325	3.800	Globales	-0.000	-1.000	0.000
N13/N1664	V y-(1)	Faja	2.441	-	0.325	3.800	Globales	-0.000	-1.000	0.000
N13/N1664	V y-(2)	Faja	2.441	-	0.325	3.800	Globales	-0.000	-1.000	0.000
N1664/N1691	Peso propio	Uniforme	0.712	-	-	-	Globales	0.000	0.000	-1.000
N1664/N1691	V x+(1)	Uniforme	5.546	-	-	-	Globales	-0.000	1.000	-0.000
N1664/N1691	V x+(2)	Uniforme	5.546	-	-	-	Globales	0.000	1.000	-0.000
N1664/N1691	Vy+(1)	Uniforme	5.031	-	-	-	Globales	0.000	1.000	-0.000
N1664/N1691	Vy+(2)	Uniforme	5.031	-	-	-	Globales	0.000	1.000	-0.000
N1664/N1691	V x-(1)	Uniforme	5.546	-	-	-	Globales	-0.000	-1.000	0.000
N1664/N1691	V x-(2)	Uniforme	5.546	-	-	-	Globales	-0.000	-1.000	0.000
N1664/N1691	V y-(1)	Uniforme	2.441	-	-	-	Globales	-0.000	-1.000	0.000
N1664/N1691	V y-(2)	Uniforme	2.441	-	-	-	Globales	-0.000	-1.000	0.000
N1691/N14	Peso propio	Uniforme	0.712	-	-	-	Globales	0.000	0.000	-1.000
N1691/N14	V x+(1)	Faja	5.546	-	0.000	0.910	Globales	-0.000	1.000	-0.000
N1691/N14	V x+(1)	Trapecial	11.028	4.526	0.910	1.300	Globales	-0.000	1.000	-0.000
N1691/N14	V x+(2)	Faja	5.546	-	0.000	0.910	Globales	0.000	1.000	-0.000
N1691/N14	V x+(2)	Trapecial	11.028	4.526	0.910	1.300	Globales	0.000	1.000	-0.000
N1691/N14	Vy+(1)	Trapecial	10.004	4.106	0.910	1.300	Globales	0.000	1.000	-0.000
N1691/N14	Vy+(1)	Faja	5.031	-	0.000	0.910	Globales	0.000	1.000	-0.000
N1691/N14	Vy+(2)	Trapecial	10.004	4.106	0.910	1.300	Globales	0.000	1.000	-0.000
N1691/N14	Vy+(2)	Faja	5.031	-	0.000	0.910	Globales	0.000	1.000	-0.000
N1691/N14	V x-(1)	Trapecial	11.028	4.526	0.910	1.300	Globales	-0.000	-1.000	0.000
N1691/N14	V x-(1)	Faja	5.546	-	0.000	0.910	Globales	-0.000	-1.000	0.000
N1691/N14	V x-(2)	Trapecial	11.028	4.526	0.910	1.300	Globales	-0.000	-1.000	0.000
N1691/N14	V x-(2)	Faja	5.546	-	0.000	0.910	Globales	-0.000	-1.000	0.000
N1691/N14	V y-(1)	Faja	2.441	-	0.000	0.910	Globales	-0.000	-1.000	0.000
N1691/N14	V y-(1)	Trapecial	4.855	1.992	0.910	1.300	Globales	-0.000	-1.000	0.000
N1691/N14	V y-(2)	Faja	2.441	-	0.000	0.910	Globales	-0.000	-1.000	0.000

Listados
Coberta de 46'8x28'6 malla tetràedres
Fecha: 13/11/24

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1691/N14	V y-(2)	Trapecial	4.855	1.992	0.910	1.300	Globales	-0.000	-1.000	0.000
N15/N1665	Peso propio	Uniforme	0.712	-	-	-	Globales	0.000	0.000	-1.000
N15/N1665	V x+(1)	Faja	5.546	-	0.325	3.800	Globales	-0.000	1.000	-0.000
N15/N1665	V x+(2)	Faja	5.546	-	0.325	3.800	Globales	0.000	1.000	-0.000
N15/N1665	Vy+(1)	Faja	5.031	-	0.325	3.800	Globales	0.000	1.000	-0.000
N15/N1665	Vy+(2)	Faja	5.031	-	0.325	3.800	Globales	0.000	1.000	-0.000
N15/N1665	V x-(1)	Faja	5.546	-	0.325	3.800	Globales	-0.000	-1.000	0.000
N15/N1665	V x-(2)	Faja	5.546	-	0.325	3.800	Globales	-0.000	-1.000	0.000
N15/N1665	V y-(1)	Faja	2.441	-	0.325	3.800	Globales	-0.000	-1.000	0.000
N15/N1665	V y-(2)	Faja	2.441	-	0.325	3.800	Globales	-0.000	-1.000	0.000
N1665/N1690	Peso propio	Uniforme	0.712	-	-	-	Globales	0.000	0.000	-1.000
N1665/N1690	V x+(1)	Uniforme	5.546	-	-	-	Globales	-0.000	1.000	-0.000
N1665/N1690	V x+(2)	Uniforme	5.546	-	-	-	Globales	0.000	1.000	-0.000
N1665/N1690	Vy+(1)	Uniforme	5.031	-	-	-	Globales	0.000	1.000	-0.000
N1665/N1690	Vy+(2)	Uniforme	5.031	-	-	-	Globales	0.000	1.000	-0.000
N1665/N1690	V x-(1)	Uniforme	5.546	-	-	-	Globales	-0.000	-1.000	0.000
N1665/N1690	V x-(2)	Uniforme	5.546	-	-	-	Globales	-0.000	-1.000	0.000
N1665/N1690	V y-(1)	Uniforme	2.441	-	-	-	Globales	-0.000	-1.000	0.000
N1665/N1690	V y-(2)	Uniforme	2.441	-	-	-	Globales	-0.000	-1.000	0.000
N1690/N16	Peso propio	Uniforme	0.712	-	-	-	Globales	0.000	0.000	-1.000
N1690/N16	V x+(1)	Faja	5.546	-	0.000	0.910	Globales	-0.000	1.000	-0.000
N1690/N16	V x+(1)	Trapecial	11.984	5.482	0.910	1.300	Globales	-0.000	1.000	-0.000
N1690/N16	V x+(2)	Faja	5.546	-	0.000	0.910	Globales	0.000	1.000	-0.000
N1690/N16	V x+(2)	Trapecial	11.984	5.482	0.910	1.300	Globales	0.000	1.000	-0.000
N1690/N16	Vy+(1)	Trapecial	10.872	4.973	0.910	1.300	Globales	0.000	1.000	-0.000
N1690/N16	Vy+(1)	Faja	5.031	-	0.000	0.910	Globales	0.000	1.000	-0.000
N1690/N16	Vy+(2)	Trapecial	10.872	4.973	0.910	1.300	Globales	0.000	1.000	-0.000
N1690/N16	Vy+(2)	Faja	5.031	-	0.000	0.910	Globales	0.000	1.000	-0.000
N1690/N16	V x-(1)	Trapecial	11.984	5.482	0.910	1.300	Globales	-0.000	-1.000	0.000
N1690/N16	V x-(1)	Faja	5.546	-	0.000	0.910	Globales	-0.000	-1.000	0.000
N1690/N16	V x-(2)	Trapecial	11.984	5.482	0.910	1.300	Globales	-0.000	-1.000	0.000
N1690/N16	V x-(2)	Faja	5.546	-	0.000	0.910	Globales	-0.000	-1.000	0.000
N1690/N16	V y-(1)	Faja	2.441	-	0.000	0.910	Globales	-0.000	-1.000	0.000
N1690/N16	V y-(1)	Trapecial	5.276	2.413	0.910	1.300	Globales	-0.000	-1.000	0.000
N1690/N16	V y-(2)	Faja	2.441	-	0.000	0.910	Globales	-0.000	-1.000	0.000
N1690/N16	V y-(2)	Trapecial	5.276	2.413	0.910	1.300	Globales	-0.000	-1.000	0.000
N17/N1666	Peso propio	Uniforme	0.712	-	-	-	Globales	0.000	0.000	-1.000
N17/N1666	V x+(1)	Faja	5.546	-	0.325	3.800	Globales	-0.000	1.000	-0.000
N17/N1666	V x+(2)	Faja	5.546	-	0.325	3.800	Globales	0.000	1.000	-0.000
N17/N1666	Vy+(1)	Faja	5.031	-	0.325	3.800	Globales	0.000	1.000	-0.000
N17/N1666	Vy+(2)	Faja	5.031	-	0.325	3.800	Globales	0.000	1.000	-0.000
N17/N1666	V x-(1)	Faja	5.546	-	0.325	3.800	Globales	-0.000	-1.000	0.000
N17/N1666	V x-(2)	Faja	5.546	-	0.325	3.800	Globales	-0.000	-1.000	0.000
N17/N1666	V y-(1)	Faja	2.441	-	0.325	3.800	Globales	-0.000	-1.000	0.000
N17/N1666	V y-(2)	Faja	2.441	-	0.325	3.800	Globales	-0.000	-1.000	0.000
N1666/N1689	Peso propio	Uniforme	0.712	-	-	-	Globales	0.000	0.000	-1.000
N1666/N1689	V x+(1)	Uniforme	5.546	-	-	-	Globales	-0.000	1.000	-0.000
N1666/N1689	V x+(2)	Uniforme	5.546	-	-	-	Globales	0.000	1.000	-0.000
N1666/N1689	Vy+(1)	Uniforme	5.031	-	-	-	Globales	0.000	1.000	-0.000
N1666/N1689	Vy+(2)	Uniforme	5.031	-	-	-	Globales	0.000	1.000	-0.000
N1666/N1689	V x-(1)	Uniforme	5.546	-	-	-	Globales	-0.000	-1.000	0.000
N1666/N1689	V x-(2)	Uniforme	5.546	-	-	-	Globales	-0.000	-1.000	0.000
N1666/N1689	V y-(1)	Uniforme	2.441	-	-	-	Globales	-0.000	-1.000	0.000
N1666/N1689	V y-(2)	Uniforme	2.441	-	-	-	Globales	-0.000	-1.000	0.000
N1689/N18	Peso propio	Uniforme	0.712	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1689/N18	V x+(1)	Faja	5.546	-	0.000	0.910	Globales	-0.000	1.000	-0.000
N1689/N18	V x+(1)	Trapecial	12.940	6.438	0.910	1.300	Globales	-0.000	1.000	-0.000
N1689/N18	V x+(2)	Faja	5.546	-	0.000	0.910	Globales	0.000	1.000	-0.000
N1689/N18	V x+(2)	Trapecial	12.940	6.438	0.910	1.300	Globales	0.000	1.000	-0.000
N1689/N18	Vy+(1)	Trapecial	11.739	5.841	0.910	1.300	Globales	0.000	1.000	-0.000
N1689/N18	Vy+(1)	Faja	5.031	-	0.000	0.910	Globales	0.000	1.000	-0.000
N1689/N18	Vy+(2)	Trapecial	11.739	5.841	0.910	1.300	Globales	0.000	1.000	-0.000
N1689/N18	Vy+(2)	Faja	5.031	-	0.000	0.910	Globales	0.000	1.000	-0.000
N1689/N18	V x-(1)	Trapecial	12.940	6.438	0.910	1.300	Globales	-0.000	-1.000	0.000
N1689/N18	V x-(1)	Faja	5.546	-	0.000	0.910	Globales	-0.000	-1.000	0.000
N1689/N18	V x-(2)	Trapecial	12.940	6.438	0.910	1.300	Globales	-0.000	-1.000	0.000
N1689/N18	V x-(2)	Faja	5.546	-	0.000	0.910	Globales	-0.000	-1.000	0.000
N1689/N18	V y-(1)	Faja	2.441	-	0.000	0.910	Globales	-0.000	-1.000	0.000
N1689/N18	V y-(1)	Trapecial	5.697	2.834	0.910	1.300	Globales	-0.000	-1.000	0.000
N1689/N18	V y-(2)	Faja	2.441	-	0.000	0.910	Globales	-0.000	-1.000	0.000
N1689/N18	V y-(2)	Trapecial	5.697	2.834	0.910	1.300	Globales	-0.000	-1.000	0.000
N19/N1667	Peso propio	Uniforme	0.712	-	-	-	Globales	0.000	0.000	-1.000
N19/N1667	V x+(1)	Faja	5.084	-	0.325	3.800	Globales	-0.000	1.000	-0.000
N19/N1667	V x+(2)	Faja	5.084	-	0.325	3.800	Globales	0.000	1.000	-0.000
N19/N1667	Vy+(1)	Faja	4.612	-	0.325	3.800	Globales	0.000	1.000	-0.000
N19/N1667	Vy+(2)	Faja	4.612	-	0.325	3.800	Globales	0.000	1.000	-0.000
N19/N1667	V x-(1)	Faja	5.084	-	0.325	3.800	Globales	-0.000	-1.000	0.000
N19/N1667	V x-(2)	Faja	5.084	-	0.325	3.800	Globales	-0.000	-1.000	0.000
N19/N1667	V y-(1)	Faja	2.238	-	0.325	3.800	Globales	-0.000	-1.000	0.000
N19/N1667	V y-(2)	Faja	2.238	-	0.325	3.800	Globales	-0.000	-1.000	0.000
N1667/N1688	Peso propio	Uniforme	0.712	-	-	-	Globales	0.000	0.000	-1.000
N1667/N1688	V x+(1)	Uniforme	5.084	-	-	-	Globales	-0.000	1.000	-0.000
N1667/N1688	V x+(2)	Uniforme	5.084	-	-	-	Globales	0.000	1.000	-0.000
N1667/N1688	Vy+(1)	Uniforme	4.612	-	-	-	Globales	0.000	1.000	-0.000
N1667/N1688	Vy+(2)	Uniforme	4.612	-	-	-	Globales	0.000	1.000	-0.000
N1667/N1688	V x-(1)	Uniforme	5.084	-	-	-	Globales	-0.000	-1.000	0.000
N1667/N1688	V x-(2)	Uniforme	5.084	-	-	-	Globales	-0.000	-1.000	0.000
N1667/N1688	V y-(1)	Uniforme	2.238	-	-	-	Globales	-0.000	-1.000	0.000
N1667/N1688	V y-(2)	Uniforme	2.238	-	-	-	Globales	-0.000	-1.000	0.000
N1688/N20	Peso propio	Uniforme	0.712	-	-	-	Globales	0.000	0.000	-1.000
N1688/N20	V x+(1)	Faja	5.084	-	0.000	0.975	Globales	-0.000	1.000	-0.000
N1688/N20	V x+(1)	Faja	7.394	-	0.975	1.300	Globales	-0.000	1.000	-0.000
N1688/N20	V x+(2)	Faja	5.084	-	0.000	0.975	Globales	0.000	1.000	-0.000
N1688/N20	V x+(2)	Faja	7.394	-	0.975	1.300	Globales	0.000	1.000	-0.000
N1688/N20	Vy+(1)	Faja	6.708	-	0.975	1.300	Globales	0.000	1.000	-0.000
N1688/N20	Vy+(1)	Faja	4.612	-	0.000	0.975	Globales	0.000	1.000	-0.000
N1688/N20	Vy+(2)	Faja	6.708	-	0.975	1.300	Globales	0.000	1.000	-0.000
N1688/N20	Vy+(2)	Faja	4.612	-	0.000	0.975	Globales	0.000	1.000	-0.000
N1688/N20	V x-(1)	Faja	7.394	-	0.975	1.300	Globales	-0.000	-1.000	0.000
N1688/N20	V x-(1)	Faja	5.084	-	0.000	0.975	Globales	-0.000	-1.000	0.000
N1688/N20	V x-(2)	Faja	7.394	-	0.975	1.300	Globales	-0.000	-1.000	0.000
N1688/N20	V x-(2)	Faja	5.084	-	0.000	0.975	Globales	-0.000	-1.000	0.000
N1688/N20	V y-(1)	Faja	2.238	-	0.000	0.975	Globales	-0.000	-1.000	0.000
N1688/N20	V y-(1)	Faja	3.255	-	0.975	1.300	Globales	-0.000	-1.000	0.000
N1688/N20	V y-(2)	Faja	2.238	-	0.000	0.975	Globales	-0.000	-1.000	0.000
N1688/N20	V y-(2)	Faja	3.255	-	0.975	1.300	Globales	-0.000	-1.000	0.000
N21/N1673	Peso propio	Uniforme	0.712	-	-	-	Globales	0.000	0.000	-1.000
N21/N1673	V x+(1)	Uniforme	5.084	-	-	-	Globales	-0.000	1.000	-0.000
N21/N1673	V x+(2)	Uniforme	5.084	-	-	-	Globales	0.000	1.000	0.000
N21/N1673	Vy+(1)	Uniforme	2.238	-	-	-	Globales	-0.000	1.000	-0.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N21/N1673	Vy+(2)	Uniforme	2.238	-	-	-	Globales	-0.000	1.000	-0.000
N21/N1673	V x-(1)	Uniforme	5.084	-	-	-	Globales	0.000	1.000	0.000
N21/N1673	V x-(2)	Uniforme	5.084	-	-	-	Globales	-0.000	1.000	-0.000
N21/N1673	V y-(1)	Uniforme	4.612	-	-	-	Globales	-0.000	-1.000	-0.000
N21/N1673	V y-(2)	Uniforme	4.612	-	-	-	Globales	-0.000	-1.000	-0.000
N1673/N1682	Peso propio	Uniforme	0.712	-	-	-	Globales	0.000	0.000	-1.000
N1673/N1682	V x+(1)	Uniforme	5.084	-	-	-	Globales	-0.000	1.000	-0.000
N1673/N1682	V x+(2)	Uniforme	5.084	-	-	-	Globales	0.000	1.000	0.000
N1673/N1682	Vy+(1)	Uniforme	2.238	-	-	-	Globales	-0.000	1.000	-0.000
N1673/N1682	Vy+(2)	Uniforme	2.238	-	-	-	Globales	-0.000	1.000	-0.000
N1673/N1682	V x-(1)	Uniforme	5.084	-	-	-	Globales	0.000	1.000	0.000
N1673/N1682	V x-(2)	Uniforme	5.084	-	-	-	Globales	-0.000	1.000	-0.000
N1673/N1682	V y-(1)	Uniforme	4.612	-	-	-	Globales	-0.000	-1.000	-0.000
N1673/N1682	V y-(2)	Uniforme	4.612	-	-	-	Globales	-0.000	-1.000	-0.000
N1682/N22	Peso propio	Uniforme	0.712	-	-	-	Globales	0.000	0.000	-1.000
N1682/N22	V x+(1)	Faja	5.084	-	0.000	0.975	Globales	-0.000	1.000	-0.000
N1682/N22	V x+(1)	Trapecial	7.394	1.976	0.975	1.300	Globales	-0.000	1.000	-0.000
N1682/N22	V x+(2)	Faja	5.084	-	0.000	0.975	Globales	0.000	1.000	0.000
N1682/N22	V x+(2)	Trapecial	7.394	1.976	0.975	1.300	Globales	0.000	1.000	0.000
N1682/N22	Vy+(1)	Trapecial	3.255	0.870	0.975	1.300	Globales	-0.000	1.000	-0.000
N1682/N22	Vy+(1)	Faja	2.238	-	0.000	0.975	Globales	-0.000	1.000	-0.000
N1682/N22	Vy+(2)	Trapecial	3.255	0.870	0.975	1.300	Globales	-0.000	1.000	-0.000
N1682/N22	Vy+(2)	Faja	2.238	-	0.000	0.975	Globales	-0.000	1.000	-0.000
N1682/N22	V x-(1)	Trapecial	7.394	1.976	0.975	1.300	Globales	0.000	1.000	0.000
N1682/N22	V x-(1)	Faja	5.084	-	0.000	0.975	Globales	0.000	1.000	0.000
N1682/N22	V x-(2)	Trapecial	7.394	1.976	0.975	1.300	Globales	-0.000	1.000	-0.000
N1682/N22	V x-(2)	Faja	5.084	-	0.000	0.975	Globales	-0.000	1.000	-0.000
N1682/N22	V y-(1)	Faja	4.612	-	0.000	0.975	Globales	-0.000	-1.000	-0.000
N1682/N22	V y-(1)	Trapecial	6.708	1.793	0.975	1.300	Globales	-0.000	-1.000	-0.000
N1682/N22	V y-(2)	Faja	4.612	-	0.000	0.975	Globales	-0.000	-1.000	-0.000
N1682/N22	V y-(2)	Trapecial	6.708	1.793	0.975	1.300	Globales	-0.000	-1.000	-0.000
N23/N1674	Peso propio	Uniforme	0.712	-	-	-	Globales	0.000	0.000	-1.000
N23/N1674	V x+(1)	Uniforme	5.546	-	-	-	Globales	-0.000	1.000	-0.000
N23/N1674	V x+(2)	Uniforme	5.546	-	-	-	Globales	0.000	1.000	0.000
N23/N1674	Vy+(1)	Uniforme	2.441	-	-	-	Globales	-0.000	1.000	-0.000
N23/N1674	Vy+(2)	Uniforme	2.441	-	-	-	Globales	-0.000	1.000	-0.000
N23/N1674	V x-(1)	Uniforme	5.546	-	-	-	Globales	0.000	1.000	0.000
N23/N1674	V x-(2)	Uniforme	5.546	-	-	-	Globales	-0.000	1.000	-0.000
N23/N1674	V y-(1)	Uniforme	5.031	-	-	-	Globales	-0.000	-1.000	-0.000
N23/N1674	V y-(2)	Uniforme	5.031	-	-	-	Globales	-0.000	-1.000	-0.000
N1674/N1681	Peso propio	Uniforme	0.712	-	-	-	Globales	0.000	0.000	-1.000
N1674/N1681	V x+(1)	Uniforme	5.546	-	-	-	Globales	-0.000	1.000	-0.000
N1674/N1681	V x+(2)	Uniforme	5.546	-	-	-	Globales	0.000	1.000	0.000
N1674/N1681	Vy+(1)	Uniforme	2.441	-	-	-	Globales	-0.000	1.000	-0.000
N1674/N1681	Vy+(2)	Uniforme	2.441	-	-	-	Globales	-0.000	1.000	-0.000
N1674/N1681	V x-(1)	Uniforme	5.546	-	-	-	Globales	0.000	1.000	0.000
N1674/N1681	V x-(2)	Uniforme	5.546	-	-	-	Globales	-0.000	1.000	-0.000
N1674/N1681	V y-(1)	Uniforme	5.031	-	-	-	Globales	-0.000	-1.000	-0.000
N1674/N1681	V y-(2)	Uniforme	5.031	-	-	-	Globales	-0.000	-1.000	-0.000
N1681/N24	Peso propio	Uniforme	0.712	-	-	-	Globales	0.000	0.000	-1.000
N1681/N24	V x+(1)	Faja	5.546	-	0.000	0.910	Globales	-0.000	1.000	-0.000
N1681/N24	V x+(1)	Trapecial	7.522	3.187	0.910	1.170	Globales	-0.000	1.000	-0.000
N1681/N24	V x+(1)	Faja	2.701	-	1.170	1.228	Globales	-0.000	1.000	-0.000
N1681/N24	V x+(1)	Faja	1.738	-	1.228	1.300	Globales	-0.000	1.000	-0.000
N1681/N24	V x+(2)	Faja	5.546	-	0.000	0.910	Globales	0.000	1.000	0.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1681/N24	V x+(2)	Trapecial	7.522	3.187	0.910	1.170	Globales	0.000	1.000	0.000
N1681/N24	V x+(2)	Faja	2.701	-	1.170	1.228	Globales	0.000	1.000	0.000
N1681/N24	V x+(2)	Faja	1.738	-	1.228	1.300	Globales	0.000	1.000	0.000
N1681/N24	Vy+(1)	Faja	0.765	-	1.228	1.300	Globales	-0.000	1.000	-0.000
N1681/N24	Vy+(1)	Faja	1.189	-	1.170	1.228	Globales	-0.000	1.000	-0.000
N1681/N24	Vy+(1)	Trapecial	3.311	1.403	0.910	1.170	Globales	-0.000	1.000	-0.000
N1681/N24	Vy+(1)	Faja	2.441	-	0.000	0.910	Globales	-0.000	1.000	-0.000
N1681/N24	Vy+(2)	Faja	0.765	-	1.228	1.300	Globales	-0.000	1.000	-0.000
N1681/N24	Vy+(2)	Faja	1.189	-	1.170	1.228	Globales	-0.000	1.000	-0.000
N1681/N24	Vy+(2)	Trapecial	3.311	1.403	0.910	1.170	Globales	-0.000	1.000	-0.000
N1681/N24	Vy+(2)	Faja	2.441	-	0.000	0.910	Globales	-0.000	1.000	-0.000
N1681/N24	V x-(1)	Faja	1.738	-	1.228	1.300	Globales	0.000	1.000	0.000
N1681/N24	V x-(1)	Faja	2.701	-	1.170	1.228	Globales	0.000	1.000	0.000
N1681/N24	V x-(1)	Trapecial	7.522	3.187	0.910	1.170	Globales	0.000	1.000	0.000
N1681/N24	V x-(1)	Faja	5.546	-	0.000	0.910	Globales	0.000	1.000	0.000
N1681/N24	V x-(2)	Faja	1.738	-	1.228	1.300	Globales	-0.000	1.000	-0.000
N1681/N24	V x-(2)	Faja	2.701	-	1.170	1.228	Globales	-0.000	1.000	-0.000
N1681/N24	V x-(2)	Trapecial	7.522	3.187	0.910	1.170	Globales	-0.000	1.000	-0.000
N1681/N24	V x-(2)	Faja	5.546	-	0.000	0.910	Globales	-0.000	1.000	-0.000
N1681/N24	V y-(1)	Faja	5.031	-	0.000	0.910	Globales	-0.000	-1.000	-0.000
N1681/N24	V y-(1)	Trapecial	6.824	2.891	0.910	1.170	Globales	-0.000	-1.000	-0.000
N1681/N24	V y-(1)	Faja	2.451	-	1.170	1.228	Globales	-0.000	-1.000	-0.000
N1681/N24	V y-(1)	Faja	1.576	-	1.228	1.300	Globales	-0.000	-1.000	-0.000
N1681/N24	V y-(2)	Faja	5.031	-	0.000	0.910	Globales	-0.000	-1.000	-0.000
N1681/N24	V y-(2)	Trapecial	6.824	2.891	0.910	1.170	Globales	-0.000	-1.000	-0.000
N1681/N24	V y-(2)	Faja	2.451	-	1.170	1.228	Globales	-0.000	-1.000	-0.000
N1681/N24	V y-(2)	Faja	1.576	-	1.228	1.300	Globales	-0.000	-1.000	-0.000
N25/N1675	Peso propio	Uniforme	0.712	-	-	-	Globales	0.000	0.000	-1.000
N25/N1675	V x+(1)	Uniforme	5.546	-	-	-	Globales	-0.000	1.000	-0.000
N25/N1675	V x+(2)	Uniforme	5.546	-	-	-	Globales	0.000	1.000	0.000
N25/N1675	Vy+(1)	Uniforme	2.441	-	-	-	Globales	-0.000	1.000	-0.000
N25/N1675	Vy+(2)	Uniforme	2.441	-	-	-	Globales	-0.000	1.000	-0.000
N25/N1675	V x-(1)	Uniforme	5.546	-	-	-	Globales	0.000	1.000	0.000
N25/N1675	V x-(2)	Uniforme	5.546	-	-	-	Globales	-0.000	1.000	-0.000
N25/N1675	V y-(1)	Uniforme	5.031	-	-	-	Globales	-0.000	-1.000	-0.000
N25/N1675	V y-(2)	Uniforme	5.031	-	-	-	Globales	-0.000	-1.000	-0.000
N1675/N1680	Peso propio	Uniforme	0.712	-	-	-	Globales	0.000	0.000	-1.000
N1675/N1680	V x+(1)	Uniforme	5.546	-	-	-	Globales	-0.000	1.000	-0.000
N1675/N1680	V x+(2)	Uniforme	5.546	-	-	-	Globales	0.000	1.000	0.000
N1675/N1680	Vy+(1)	Uniforme	2.441	-	-	-	Globales	-0.000	1.000	-0.000
N1675/N1680	Vy+(2)	Uniforme	2.441	-	-	-	Globales	-0.000	1.000	-0.000
N1675/N1680	V x-(1)	Uniforme	5.546	-	-	-	Globales	0.000	1.000	0.000
N1675/N1680	V x-(2)	Uniforme	5.546	-	-	-	Globales	-0.000	1.000	-0.000
N1675/N1680	V y-(1)	Uniforme	5.031	-	-	-	Globales	-0.000	-1.000	-0.000
N1675/N1680	V y-(2)	Uniforme	5.031	-	-	-	Globales	-0.000	-1.000	-0.000
N1680/N26	Peso propio	Uniforme	0.712	-	-	-	Globales	0.000	0.000	-1.000
N1680/N26	V x+(1)	Trapecial	5.657	5.416	0.000	0.910	Globales	-0.000	1.000	-0.000
N1680/N26	V x+(1)	Trapecial	6.513	0.223	0.910	1.300	Globales	-0.000	1.000	-0.000
N1680/N26	V x+(2)	Trapecial	5.656	5.416	0.000	0.910	Globales	0.000	1.000	0.000
N1680/N26	V x+(2)	Trapecial	6.513	0.223	0.910	1.300	Globales	0.000	1.000	0.000
N1680/N26	Vy+(1)	Trapecial	2.867	0.098	0.910	1.300	Globales	-0.000	1.000	-0.000
N1680/N26	Vy+(1)	Trapecial	2.490	2.384	0.000	0.910	Globales	-0.000	1.000	-0.000
N1680/N26	Vy+(2)	Trapecial	2.867	0.098	0.910	1.300	Globales	-0.000	1.000	-0.000
N1680/N26	Vy+(2)	Trapecial	2.490	2.384	0.000	0.910	Globales	-0.000	1.000	-0.000
N1680/N26	V x-(1)	Trapecial	6.513	0.223	0.910	1.300	Globales	0.000	1.000	0.000

Listados
Coberta de 46'8x28'6 malla tetràedres
Fecha: 13/11/24

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1680/N26	V x-(1)	Trapecial	5.656	5.416	0.000	0.910	Globales	0.000	1.000	0.000
N1680/N26	V x-(2)	Trapecial	6.513	0.223	0.910	1.300	Globales	-0.000	1.000	-0.000
N1680/N26	V x-(2)	Trapecial	5.657	5.416	0.000	0.910	Globales	-0.000	1.000	-0.000
N1680/N26	V y-(1)	Trapecial	5.131	4.913	0.000	0.910	Globales	-0.000	-1.000	-0.000
N1680/N26	V y-(1)	Trapecial	5.908	0.202	0.910	1.300	Globales	-0.000	-1.000	-0.000
N1680/N26	V y-(2)	Trapecial	5.131	4.913	0.000	0.910	Globales	-0.000	-1.000	-0.000
N1680/N26	V y-(2)	Trapecial	5.908	0.202	0.910	1.300	Globales	-0.000	-1.000	-0.000
N27/N1676	Peso propio	Uniforme	0.712	-	-	-	Globales	0.000	0.000	-1.000
N27/N1676	V x+(1)	Uniforme	5.546	-	-	-	Globales	-0.000	1.000	-0.000
N27/N1676	V x+(2)	Uniforme	5.546	-	-	-	Globales	0.000	1.000	0.000
N27/N1676	Vy+(1)	Uniforme	2.441	-	-	-	Globales	-0.000	1.000	-0.000
N27/N1676	Vy+(2)	Uniforme	2.441	-	-	-	Globales	-0.000	1.000	-0.000
N27/N1676	V x-(1)	Uniforme	5.546	-	-	-	Globales	0.000	1.000	0.000
N27/N1676	V x-(2)	Uniforme	5.546	-	-	-	Globales	-0.000	1.000	-0.000
N27/N1676	V y-(1)	Uniforme	5.031	-	-	-	Globales	-0.000	-1.000	-0.000
N27/N1676	V y-(2)	Uniforme	5.031	-	-	-	Globales	-0.000	-1.000	-0.000
N1676/N1679	Peso propio	Uniforme	0.712	-	-	-	Globales	0.000	0.000	-1.000
N1676/N1679	V x+(1)	Uniforme	5.546	-	-	-	Globales	-0.000	1.000	-0.000
N1676/N1679	V x+(2)	Uniforme	5.546	-	-	-	Globales	0.000	1.000	0.000
N1676/N1679	Vy+(1)	Uniforme	2.441	-	-	-	Globales	-0.000	1.000	-0.000
N1676/N1679	Vy+(2)	Uniforme	2.441	-	-	-	Globales	-0.000	1.000	-0.000
N1676/N1679	V x-(1)	Uniforme	5.546	-	-	-	Globales	0.000	1.000	0.000
N1676/N1679	V x-(2)	Uniforme	5.546	-	-	-	Globales	-0.000	1.000	-0.000
N1676/N1679	V y-(1)	Uniforme	5.031	-	-	-	Globales	-0.000	-1.000	-0.000
N1676/N1679	V y-(2)	Uniforme	5.031	-	-	-	Globales	-0.000	-1.000	-0.000
N1679/N28	Peso propio	Uniforme	0.712	-	-	-	Globales	0.000	0.000	-1.000
N1679/N28	V x+(1)	Trapecial	5.629	5.417	0.000	0.910	Globales	-0.000	1.000	-0.000
N1679/N28	V x+(1)	Faja	3.248	-	0.910	1.193	Globales	-0.000	1.000	-0.000
N1679/N28	V x+(1)	Faja	0.692	-	1.193	1.300	Globales	-0.000	1.000	-0.000
N1679/N28	V x+(2)	Trapecial	5.629	5.417	0.000	0.910	Globales	0.000	1.000	0.000
N1679/N28	V x+(2)	Faja	3.248	-	0.910	1.193	Globales	0.000	1.000	0.000
N1679/N28	V x+(2)	Faja	0.692	-	1.193	1.300	Globales	0.000	1.000	0.000
N1679/N28	Vy+(1)	Faja	0.304	-	1.193	1.300	Globales	-0.000	1.000	-0.000
N1679/N28	Vy+(1)	Faja	1.430	-	0.910	1.193	Globales	-0.000	1.000	-0.000
N1679/N28	Vy+(1)	Trapecial	2.478	2.385	0.000	0.910	Globales	-0.000	1.000	-0.000
N1679/N28	Vy+(2)	Faja	0.304	-	1.193	1.300	Globales	-0.000	1.000	-0.000
N1679/N28	Vy+(2)	Faja	1.430	-	0.910	1.193	Globales	-0.000	1.000	-0.000
N1679/N28	Vy+(2)	Trapecial	2.478	2.385	0.000	0.910	Globales	-0.000	1.000	-0.000
N1679/N28	V x-(1)	Faja	0.692	-	1.193	1.300	Globales	0.000	1.000	0.000
N1679/N28	V x-(1)	Faja	3.248	-	0.910	1.193	Globales	0.000	1.000	0.000
N1679/N28	V x-(1)	Trapecial	5.629	5.417	0.000	0.910	Globales	0.000	1.000	0.000
N1679/N28	V x-(2)	Faja	0.692	-	1.193	1.300	Globales	-0.000	1.000	-0.000
N1679/N28	V x-(2)	Faja	3.248	-	0.910	1.193	Globales	-0.000	1.000	-0.000
N1679/N28	V x-(2)	Trapecial	5.629	5.417	0.000	0.910	Globales	-0.000	1.000	-0.000
N1679/N28	V y-(1)	Trapecial	5.106	4.914	0.000	0.910	Globales	-0.000	-1.000	-0.000
N1679/N28	V y-(1)	Faja	2.946	-	0.910	1.193	Globales	-0.000	-1.000	-0.000
N1679/N28	V y-(1)	Faja	0.627	-	1.193	1.300	Globales	-0.000	-1.000	-0.000
N1679/N28	V y-(2)	Trapecial	5.106	4.914	0.000	0.910	Globales	-0.000	-1.000	-0.000
N1679/N28	V y-(2)	Faja	2.946	-	0.910	1.193	Globales	-0.000	-1.000	-0.000
N1679/N28	V y-(2)	Faja	0.627	-	1.193	1.300	Globales	-0.000	-1.000	-0.000
N29/N1672	Peso propio	Uniforme	0.712	-	-	-	Globales	0.000	0.000	-1.000
N29/N1672	V x+(1)	Uniforme	5.084	-	-	-	Globales	-0.000	1.000	-0.000
N29/N1672	V x+(2)	Uniforme	5.084	-	-	-	Globales	0.000	1.000	0.000
N29/N1672	Vy+(1)	Uniforme	2.238	-	-	-	Globales	-0.000	1.000	-0.000
N29/N1672	Vy+(2)	Uniforme	2.238	-	-	-	Globales	-0.000	1.000	-0.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N29/N1672	V x-(1)	Uniforme	5.084	-	-	-	Globales	0.000	1.000	0.000
N29/N1672	V x-(2)	Uniforme	5.084	-	-	-	Globales	-0.000	1.000	-0.000
N29/N1672	V y-(1)	Uniforme	4.612	-	-	-	Globales	-0.000	-1.000	-0.000
N29/N1672	V y-(2)	Uniforme	4.612	-	-	-	Globales	-0.000	-1.000	-0.000
N1672/N1678	Peso propio	Uniforme	0.712	-	-	-	Globales	0.000	0.000	-1.000
N1672/N1678	V x+(1)	Uniforme	5.084	-	-	-	Globales	-0.000	1.000	-0.000
N1672/N1678	V x+(2)	Uniforme	5.084	-	-	-	Globales	0.000	1.000	0.000
N1672/N1678	Vy+(1)	Uniforme	2.238	-	-	-	Globales	-0.000	1.000	-0.000
N1672/N1678	Vy+(2)	Uniforme	2.238	-	-	-	Globales	-0.000	1.000	-0.000
N1672/N1678	V x-(1)	Uniforme	5.084	-	-	-	Globales	0.000	1.000	0.000
N1672/N1678	V x-(2)	Uniforme	5.084	-	-	-	Globales	-0.000	1.000	-0.000
N1672/N1678	V y-(1)	Uniforme	4.612	-	-	-	Globales	-0.000	-1.000	-0.000
N1672/N1678	V y-(2)	Uniforme	4.612	-	-	-	Globales	-0.000	-1.000	-0.000
N1678/N30	Peso propio	Uniforme	0.712	-	-	-	Globales	0.000	0.000	-1.000
N1678/N30	V x+(1)	Trapecial	5.697	4.307	0.000	0.910	Globales	-0.000	1.000	-0.000
N1678/N30	V x+(1)	Faja	3.010	-	0.910	1.052	Globales	-0.000	1.000	-0.000
N1678/N30	V x+(1)	Faja	0.464	-	1.052	1.300	Globales	-0.000	1.000	-0.000
N1678/N30	V x+(2)	Trapecial	5.697	4.307	0.000	0.910	Globales	0.000	1.000	0.000
N1678/N30	V x+(2)	Faja	3.010	-	0.910	1.052	Globales	0.000	1.000	0.000
N1678/N30	V x+(2)	Faja	0.464	-	1.052	1.300	Globales	0.000	1.000	0.000
N1678/N30	Vy+(1)	Faja	0.204	-	1.052	1.300	Globales	-0.000	1.000	-0.000
N1678/N30	Vy+(1)	Faja	1.325	-	0.910	1.052	Globales	-0.000	1.000	-0.000
N1678/N30	Vy+(1)	Trapecial	2.508	1.896	0.000	0.910	Globales	-0.000	1.000	-0.000
N1678/N30	Vy+(2)	Faja	0.204	-	1.052	1.300	Globales	-0.000	1.000	-0.000
N1678/N30	Vy+(2)	Faja	1.325	-	0.910	1.052	Globales	-0.000	1.000	-0.000
N1678/N30	Vy+(2)	Trapecial	2.508	1.896	0.000	0.910	Globales	-0.000	1.000	-0.000
N1678/N30	V x-(1)	Faja	0.464	-	1.052	1.300	Globales	0.000	1.000	0.000
N1678/N30	V x-(1)	Faja	3.010	-	0.910	1.052	Globales	0.000	1.000	0.000
N1678/N30	V x-(1)	Trapecial	5.697	4.307	0.000	0.910	Globales	0.000	1.000	0.000
N1678/N30	V x-(2)	Faja	0.464	-	1.052	1.300	Globales	-0.000	1.000	-0.000
N1678/N30	V x-(2)	Faja	3.010	-	0.910	1.052	Globales	-0.000	1.000	-0.000
N1678/N30	V x-(2)	Trapecial	5.697	4.307	0.000	0.910	Globales	-0.000	1.000	-0.000
N1678/N30	V y-(1)	Trapecial	5.168	3.908	0.000	0.910	Globales	-0.000	-1.000	-0.000
N1678/N30	V y-(1)	Faja	2.731	-	0.910	1.052	Globales	-0.000	-1.000	-0.000
N1678/N30	V y-(1)	Faja	0.421	-	1.052	1.300	Globales	-0.000	-1.000	-0.000
N1678/N30	V y-(2)	Trapecial	5.168	3.908	0.000	0.910	Globales	-0.000	-1.000	-0.000
N1678/N30	V y-(2)	Faja	2.731	-	0.910	1.052	Globales	-0.000	-1.000	-0.000
N1678/N30	V y-(2)	Faja	0.421	-	1.052	1.300	Globales	-0.000	-1.000	-0.000
N56/N57	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N56/N57	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N56/N57	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N56/N57	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N56/N57	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N56/N57	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N56/N57	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N56/N57	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N56/N57	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N56/N57	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N56/N57	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N56/N57	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N57/N58	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N57/N58	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N57/N58	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N57/N58	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N57/N58	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N57/N58	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N57/N58	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N57/N58	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N57/N58	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N57/N58	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N57/N58	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N57/N58	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N58/N59	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N58/N59	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N58/N59	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N58/N59	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N58/N59	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N58/N59	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N58/N59	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N58/N59	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N58/N59	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N58/N59	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N58/N59	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N58/N59	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N59/N60	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N59/N60	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N59/N60	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N59/N60	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N59/N60	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N59/N60	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N59/N60	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N59/N60	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N59/N60	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N59/N60	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N59/N60	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N59/N60	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N60/N61	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N60/N61	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N60/N61	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N60/N61	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N60/N61	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N60/N61	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N60/N61	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N60/N61	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N60/N61	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N60/N61	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N60/N61	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N60/N61	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N61/N62	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N61/N62	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N61/N62	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N61/N62	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N61/N62	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N61/N62	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N61/N62	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N61/N62	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N61/N62	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N61/N62	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N61/N62	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N61/N62	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N62/N63	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N62/N63	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N62/N63	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N62/N63	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N62/N63	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N62/N63	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N62/N63	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N62/N63	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N62/N63	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N62/N63	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N62/N63	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N62/N63	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N63/N64	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N63/N64	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N63/N64	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N63/N64	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N63/N64	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N63/N64	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N63/N64	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N63/N64	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N63/N64	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N63/N64	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N63/N64	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N63/N64	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N64/N65	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N64/N65	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N64/N65	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N64/N65	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N64/N65	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N64/N65	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N64/N65	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N64/N65	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N64/N65	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N64/N65	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N64/N65	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N64/N65	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N65/N66	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N65/N66	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N65/N66	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N65/N66	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N65/N66	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N65/N66	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N65/N66	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N65/N66	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N65/N66	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N65/N66	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N65/N66	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N65/N66	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N66/N67	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N66/N67	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N66/N67	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N66/N67	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N66/N67	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N66/N67	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N66/N67	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N66/N67	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N66/N67	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N66/N67	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N66/N67	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N66/N67	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N67/N68	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N67/N68	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N67/N68	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N67/N68	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N67/N68	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N67/N68	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N67/N68	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N67/N68	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N67/N68	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N67/N68	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N67/N68	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N67/N68	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N68/N69	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N68/N69	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N68/N69	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N68/N69	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N68/N69	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N68/N69	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N68/N69	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N68/N69	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N68/N69	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N68/N69	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N68/N69	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N68/N69	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N69/N70	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N69/N70	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N69/N70	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N69/N70	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N69/N70	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N69/N70	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N69/N70	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N69/N70	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N69/N70	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N69/N70	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N69/N70	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N69/N70	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N70/N71	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N70/N71	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N70/N71	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N70/N71	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N70/N71	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N70/N71	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N70/N71	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N70/N71	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N70/N71	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N70/N71	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N70/N71	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N70/N71	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N71/N72	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N71/N72	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N71/N72	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N71/N72	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N71/N72	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N71/N72	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N71/N72	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N71/N72	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N71/N72	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N71/N72	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N71/N72	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N71/N72	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N72/N73	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N72/N73	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N72/N73	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N72/N73	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N72/N73	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N72/N73	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N72/N73	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N72/N73	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N72/N73	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N72/N73	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N72/N73	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N72/N73	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N73/N74	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N73/N74	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N73/N74	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N73/N74	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N73/N74	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N73/N74	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N73/N74	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N73/N74	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N73/N74	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N73/N74	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N73/N74	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N73/N74	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N74/N75	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N74/N75	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N74/N75	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N74/N75	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N74/N75	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N74/N75	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N74/N75	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N74/N75	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N74/N75	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N74/N75	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N74/N75	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N74/N75	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N75/N76	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N75/N76	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N75/N76	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N75/N76	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N75/N76	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N75/N76	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N75/N76	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N75/N76	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N75/N76	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N75/N76	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N75/N76	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N75/N76	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N76/N77	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N76/N77	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N76/N77	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N76/N77	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N76/N77	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N76/N77	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N76/N77	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N76/N77	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N76/N77	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N76/N77	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N76/N77	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N76/N77	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N77/N78	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N77/N78	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N77/N78	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N77/N78	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N77/N78	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N77/N78	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N77/N78	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N77/N78	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N77/N78	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N77/N78	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N77/N78	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N77/N78	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N79/N80	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N79/N80	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N79/N80	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N79/N80	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N79/N80	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N79/N80	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N79/N80	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N79/N80	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N79/N80	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N79/N80	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N79/N80	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N79/N80	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N80/N81	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N80/N81	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N80/N81	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N80/N81	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N80/N81	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N80/N81	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N80/N81	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N80/N81	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N80/N81	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N80/N81	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N80/N81	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N80/N81	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N81/N82	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N81/N82	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N81/N82	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N81/N82	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N81/N82	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N81/N82	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N81/N82	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N81/N82	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N81/N82	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N81/N82	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N81/N82	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N81/N82	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N82/N83	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N82/N83	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N82/N83	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N82/N83	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N82/N83	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N82/N83	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N82/N83	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N82/N83	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N82/N83	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N82/N83	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N82/N83	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N82/N83	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N83/N84	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N83/N84	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N83/N84	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N83/N84	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N83/N84	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N83/N84	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N83/N84	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N83/N84	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N83/N84	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N83/N84	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N83/N84	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N83/N84	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N84/N85	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N84/N85	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N84/N85	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N84/N85	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N84/N85	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N84/N85	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N84/N85	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N84/N85	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N84/N85	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N84/N85	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N84/N85	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N84/N85	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N85/N86	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N85/N86	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N85/N86	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N85/N86	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N85/N86	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N85/N86	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N85/N86	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N85/N86	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N85/N86	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N85/N86	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N85/N86	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N85/N86	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N86/N87	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N86/N87	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N86/N87	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N86/N87	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N86/N87	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N86/N87	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N86/N87	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N86/N87	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N86/N87	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N86/N87	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N86/N87	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N86/N87	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N87/N88	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N87/N88	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N87/N88	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N87/N88	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N87/N88	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N87/N88	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N87/N88	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N87/N88	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N87/N88	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N87/N88	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N87/N88	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N87/N88	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N88/N89	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N88/N89	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N88/N89	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N88/N89	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N88/N89	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N88/N89	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N88/N89	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N88/N89	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N88/N89	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N88/N89	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N88/N89	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N88/N89	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N89/N90	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N89/N90	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N89/N90	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N89/N90	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N89/N90	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N89/N90	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N89/N90	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N89/N90	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N89/N90	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N89/N90	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N89/N90	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N89/N90	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N90/N91	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N90/N91	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N90/N91	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N90/N91	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N90/N91	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N90/N91	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N90/N91	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N90/N91	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N90/N91	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N90/N91	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N90/N91	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N90/N91	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N91/N92	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N91/N92	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N91/N92	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N91/N92	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N91/N92	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N91/N92	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N91/N92	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N91/N92	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N91/N92	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N91/N92	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N91/N92	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N91/N92	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N92/N93	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N92/N93	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N92/N93	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N92/N93	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N92/N93	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N92/N93	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N92/N93	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N92/N93	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N92/N93	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N92/N93	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N92/N93	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N92/N93	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N93/N94	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N93/N94	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N93/N94	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N93/N94	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N93/N94	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N93/N94	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N93/N94	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N93/N94	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N93/N94	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N93/N94	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N93/N94	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N93/N94	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N94/N95	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N94/N95	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N94/N95	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N94/N95	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N94/N95	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N94/N95	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N94/N95	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N94/N95	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N94/N95	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N94/N95	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N94/N95	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N94/N95	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N95/N96	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N95/N96	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N95/N96	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N95/N96	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N95/N96	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N95/N96	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N95/N96	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N95/N96	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N95/N96	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N95/N96	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N95/N96	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N95/N96	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N96/N97	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N96/N97	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N96/N97	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N96/N97	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N96/N97	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N96/N97	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N96/N97	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N96/N97	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N96/N97	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N96/N97	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N96/N97	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N96/N97	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N97/N98	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N97/N98	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N97/N98	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N97/N98	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N97/N98	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N97/N98	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N97/N98	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N97/N98	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N97/N98	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N97/N98	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N97/N98	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N97/N98	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N98/N99	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N98/N99	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N98/N99	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N98/N99	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N98/N99	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N98/N99	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N98/N99	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N98/N99	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N98/N99	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N98/N99	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N98/N99	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N98/N99	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N99/N100	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N99/N100	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N99/N100	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N99/N100	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N99/N100	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N99/N100	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N99/N100	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N99/N100	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N99/N100	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N99/N100	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N99/N100	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N99/N100	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N100/N101	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N100/N101	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N100/N101	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N100/N101	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N100/N101	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N100/N101	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N100/N101	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N100/N101	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N100/N101	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N100/N101	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N100/N101	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N100/N101	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N102/N103	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N102/N103	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N102/N103	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N102/N103	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N102/N103	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N102/N103	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N102/N103	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N102/N103	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N102/N103	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N102/N103	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N102/N103	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N102/N103	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N103/N104	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N103/N104	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N103/N104	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N103/N104	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N103/N104	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N103/N104	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N103/N104	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N103/N104	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N103/N104	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N103/N104	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N103/N104	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N103/N104	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N104/N105	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N104/N105	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N104/N105	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N104/N105	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N104/N105	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N104/N105	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N104/N105	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N104/N105	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N104/N105	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N104/N105	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N104/N105	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N104/N105	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N105/N106	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N105/N106	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N105/N106	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N105/N106	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N105/N106	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N105/N106	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N105/N106	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N105/N106	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N105/N106	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N105/N106	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N105/N106	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N105/N106	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N106/N107	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N106/N107	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N106/N107	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N106/N107	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N106/N107	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N106/N107	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N106/N107	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N106/N107	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N106/N107	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N106/N107	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N106/N107	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N106/N107	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N107/N108	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N107/N108	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N107/N108	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N107/N108	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N107/N108	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N107/N108	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N107/N108	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N107/N108	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N107/N108	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N107/N108	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N107/N108	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N107/N108	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N108/N109	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N108/N109	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N108/N109	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N108/N109	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N108/N109	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N108/N109	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N108/N109	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N108/N109	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N108/N109	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N108/N109	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N108/N109	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N108/N109	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N109/N110	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N109/N110	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N109/N110	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N109/N110	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N109/N110	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N109/N110	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N109/N110	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N109/N110	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N109/N110	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N109/N110	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N109/N110	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N109/N110	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N110/N111	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N110/N111	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N110/N111	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N110/N111	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N110/N111	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N110/N111	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N110/N111	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N110/N111	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N110/N111	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N110/N111	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N110/N111	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N110/N111	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N111/N112	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N111/N112	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N111/N112	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N111/N112	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N111/N112	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N111/N112	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N111/N112	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N111/N112	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N111/N112	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N111/N112	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N111/N112	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N111/N112	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N112/N113	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N112/N113	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N112/N113	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N112/N113	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N112/N113	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N112/N113	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N112/N113	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N112/N113	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N112/N113	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N112/N113	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N112/N113	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N112/N113	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N113/N114	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N113/N114	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N113/N114	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N113/N114	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N113/N114	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N113/N114	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N113/N114	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N113/N114	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N113/N114	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N113/N114	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N113/N114	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N113/N114	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N114/N115	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N114/N115	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N114/N115	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N114/N115	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N114/N115	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N114/N115	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N114/N115	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N114/N115	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N114/N115	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N114/N115	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N114/N115	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N114/N115	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N115/N116	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N115/N116	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N115/N116	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N115/N116	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N115/N116	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N115/N116	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N115/N116	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N115/N116	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N115/N116	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N115/N116	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N115/N116	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N115/N116	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N116/N117	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N116/N117	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N116/N117	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N116/N117	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N116/N117	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N116/N117	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N116/N117	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N116/N117	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N116/N117	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N116/N117	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N116/N117	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N116/N117	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N117/N118	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N117/N118	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N117/N118	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N117/N118	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N117/N118	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N117/N118	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N117/N118	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N117/N118	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N117/N118	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N117/N118	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N117/N118	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N117/N118	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N118/N119	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N118/N119	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N118/N119	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N118/N119	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N118/N119	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N118/N119	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N118/N119	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N118/N119	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N118/N119	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N118/N119	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N118/N119	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N118/N119	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N119/N120	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N119/N120	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N119/N120	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N119/N120	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N119/N120	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N119/N120	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N119/N120	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N119/N120	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N119/N120	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N119/N120	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N119/N120	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N119/N120	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N120/N121	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N120/N121	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N120/N121	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N120/N121	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N120/N121	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N120/N121	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N120/N121	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N120/N121	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N120/N121	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N120/N121	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N120/N121	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N120/N121	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N121/N122	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N121/N122	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N121/N122	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N121/N122	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N121/N122	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N121/N122	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N121/N122	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N121/N122	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N121/N122	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N121/N122	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N121/N122	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N121/N122	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N122/N123	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N122/N123	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N122/N123	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N122/N123	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N122/N123	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N122/N123	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N122/N123	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N122/N123	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N122/N123	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N122/N123	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N122/N123	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N122/N123	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N123/N124	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N123/N124	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N123/N124	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N123/N124	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N123/N124	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N123/N124	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N123/N124	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N123/N124	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N123/N124	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N123/N124	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N123/N124	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N123/N124	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N125/N126	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N125/N126	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N125/N126	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N125/N126	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N125/N126	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N125/N126	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N125/N126	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N125/N126	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N125/N126	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N125/N126	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N125/N126	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N125/N126	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N126/N127	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N126/N127	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N126/N127	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N126/N127	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N126/N127	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N126/N127	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N126/N127	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N126/N127	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N126/N127	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N126/N127	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N126/N127	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N126/N127	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N127/N128	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N127/N128	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N127/N128	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N127/N128	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N127/N128	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N127/N128	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N127/N128	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N127/N128	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N127/N128	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N127/N128	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N127/N128	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N127/N128	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N128/N129	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N128/N129	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N128/N129	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N128/N129	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N128/N129	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N128/N129	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N128/N129	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N128/N129	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N128/N129	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N128/N129	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N128/N129	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N128/N129	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N129/N130	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N129/N130	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N129/N130	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N129/N130	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N129/N130	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N129/N130	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N129/N130	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N129/N130	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N129/N130	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N129/N130	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N129/N130	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N129/N130	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N130/N131	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N130/N131	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N130/N131	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N130/N131	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N130/N131	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N130/N131	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N130/N131	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N130/N131	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N130/N131	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N130/N131	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N130/N131	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N130/N131	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N131/N132	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N131/N132	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N131/N132	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N131/N132	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N131/N132	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N131/N132	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N131/N132	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N131/N132	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N131/N132	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N131/N132	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N131/N132	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N131/N132	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N132/N133	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N132/N133	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N132/N133	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N132/N133	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N132/N133	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N132/N133	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N132/N133	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N132/N133	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N132/N133	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N132/N133	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N132/N133	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N132/N133	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N133/N134	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N133/N134	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N133/N134	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N133/N134	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N133/N134	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N133/N134	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N133/N134	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N133/N134	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N133/N134	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N133/N134	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N133/N134	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N133/N134	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N134/N135	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N134/N135	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N134/N135	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N134/N135	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N134/N135	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N134/N135	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N134/N135	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N134/N135	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N134/N135	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N134/N135	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N134/N135	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N134/N135	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N135/N136	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N135/N136	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N135/N136	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N135/N136	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N135/N136	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N135/N136	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N135/N136	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N135/N136	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N135/N136	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N135/N136	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N135/N136	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N135/N136	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N136/N137	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N136/N137	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N136/N137	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N136/N137	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N136/N137	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N136/N137	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N136/N137	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N136/N137	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N136/N137	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N136/N137	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N136/N137	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N136/N137	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N137/N138	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N137/N138	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N137/N138	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N137/N138	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N137/N138	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N137/N138	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N137/N138	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N137/N138	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N137/N138	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N137/N138	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N137/N138	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N137/N138	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N138/N139	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N138/N139	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N138/N139	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N138/N139	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N138/N139	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N138/N139	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N138/N139	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N138/N139	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N138/N139	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N138/N139	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N138/N139	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N138/N139	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N139/N140	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N139/N140	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N139/N140	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N139/N140	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N139/N140	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N139/N140	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N139/N140	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N139/N140	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N139/N140	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N139/N140	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N139/N140	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N139/N140	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N140/N141	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N140/N141	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N140/N141	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N140/N141	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N140/N141	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N140/N141	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N140/N141	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N140/N141	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N140/N141	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N140/N141	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N140/N141	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N140/N141	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N141/N142	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N141/N142	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N141/N142	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N141/N142	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N141/N142	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N141/N142	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N141/N142	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N141/N142	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N141/N142	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N141/N142	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N141/N142	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N141/N142	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N142/N143	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N142/N143	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N142/N143	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N142/N143	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N142/N143	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N142/N143	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N142/N143	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N142/N143	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N142/N143	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N142/N143	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N142/N143	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N142/N143	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N143/N144	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N143/N144	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N143/N144	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N143/N144	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N143/N144	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N143/N144	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N143/N144	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N143/N144	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N143/N144	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N143/N144	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N143/N144	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N143/N144	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N144/N145	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N144/N145	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N144/N145	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N144/N145	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N144/N145	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N144/N145	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N144/N145	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N144/N145	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N144/N145	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N144/N145	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N144/N145	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N144/N145	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N145/N146	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N145/N146	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N145/N146	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N145/N146	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N145/N146	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N145/N146	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N145/N146	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N145/N146	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N145/N146	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N145/N146	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N145/N146	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N145/N146	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N146/N147	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N146/N147	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N146/N147	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N146/N147	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N146/N147	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N146/N147	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N146/N147	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N146/N147	V x-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N146/N147	V x-(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N146/N147	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N146/N147	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N146/N147	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N148/N149	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N148/N149	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N148/N149	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N148/N149	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N148/N149	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N148/N149	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N148/N149	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N148/N149	V x-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N148/N149	V x-(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N148/N149	V x-(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N148/N149	V x-(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N148/N149	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N148/N149	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N148/N149	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N149/N150	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N149/N150	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N149/N150	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N149/N150	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N149/N150	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N149/N150	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N149/N150	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N149/N150	V x-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N149/N150	V x-(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N149/N150	V x-(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N149/N150	V x-(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N149/N150	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N149/N150	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N149/N150	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N150/N151	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N150/N151	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N150/N151	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N150/N151	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N150/N151	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N150/N151	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N150/N151	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N150/N151	V x-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N150/N151	V x-(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N150/N151	V x-(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N150/N151	V x-(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N150/N151	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N150/N151	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N150/N151	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N151/N152	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N151/N152	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N151/N152	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N151/N152	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N151/N152	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N151/N152	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N151/N152	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N151/N152	V x-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N151/N152	V x-(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N151/N152	V x-(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N151/N152	V x-(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N151/N152	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N151/N152	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N151/N152	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N152/N153	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N152/N153	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N152/N153	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N152/N153	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N152/N153	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N152/N153	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N152/N153	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N152/N153	V x-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N152/N153	V x-(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N152/N153	V x-(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N152/N153	V x-(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N152/N153	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N152/N153	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N152/N153	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N153/N154	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N153/N154	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N153/N154	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N153/N154	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N153/N154	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N153/N154	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N153/N154	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N153/N154	V x-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N153/N154	V x-(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N153/N154	V x-(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N153/N154	V x-(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N153/N154	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N153/N154	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N153/N154	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N154/N155	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N154/N155	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N154/N155	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N154/N155	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N154/N155	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N154/N155	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N154/N155	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N154/N155	V x-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N154/N155	V x-(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N154/N155	V x-(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N154/N155	V x-(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N154/N155	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N154/N155	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N154/N155	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N155/N156	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N155/N156	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N155/N156	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N155/N156	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N155/N156	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N155/N156	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N155/N156	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N155/N156	V x-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N155/N156	V x-(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N155/N156	V x-(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N155/N156	V x-(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N155/N156	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N155/N156	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N155/N156	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N156/N157	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N156/N157	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N156/N157	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N156/N157	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N156/N157	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N156/N157	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N156/N157	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N156/N157	V x-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N156/N157	V x-(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N156/N157	V x-(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N156/N157	V x-(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N156/N157	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N156/N157	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N156/N157	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N157/N158	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N157/N158	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N157/N158	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N157/N158	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N157/N158	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N157/N158	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N157/N158	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N157/N158	V x-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N157/N158	V x-(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N157/N158	V x-(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N157/N158	V x-(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N157/N158	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N157/N158	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N157/N158	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N158/N159	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N158/N159	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N158/N159	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N158/N159	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N158/N159	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N158/N159	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N158/N159	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N158/N159	V x-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N158/N159	V x-(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N158/N159	V x-(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N158/N159	V x-(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N158/N159	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N158/N159	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N158/N159	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N159/N160	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N159/N160	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N159/N160	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N159/N160	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N159/N160	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N159/N160	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N159/N160	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N159/N160	V x-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N159/N160	V x-(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N159/N160	V x-(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N159/N160	V x-(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N159/N160	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N159/N160	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N159/N160	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N160/N161	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N160/N161	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N160/N161	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N160/N161	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N160/N161	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N160/N161	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N160/N161	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N160/N161	V x-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N160/N161	V x-(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N160/N161	V x-(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N160/N161	V x-(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N160/N161	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N160/N161	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N160/N161	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N161/N162	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N161/N162	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N161/N162	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N161/N162	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N161/N162	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N161/N162	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N161/N162	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N161/N162	V x-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N161/N162	V x-(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N161/N162	V x-(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N161/N162	V x-(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N161/N162	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N161/N162	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N161/N162	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N162/N163	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N162/N163	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N162/N163	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N162/N163	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N162/N163	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N162/N163	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N162/N163	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N162/N163	V x-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N162/N163	V x-(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N162/N163	V x-(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N162/N163	V x-(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N162/N163	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N162/N163	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N162/N163	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N163/N164	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N163/N164	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N163/N164	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N163/N164	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N163/N164	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N163/N164	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N163/N164	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N163/N164	V x-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N163/N164	V x-(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N163/N164	V x-(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N163/N164	V x-(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N163/N164	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N163/N164	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N163/N164	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N164/N165	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N164/N165	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N164/N165	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N164/N165	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N164/N165	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N164/N165	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N164/N165	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N164/N165	V x-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N164/N165	V x-(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N164/N165	V x-(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N164/N165	V x-(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N164/N165	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N164/N165	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N164/N165	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N165/N166	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N165/N166	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N165/N166	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N165/N166	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N165/N166	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N165/N166	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N165/N166	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N165/N166	V x-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N165/N166	V x-(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N165/N166	V x-(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N165/N166	V x-(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N165/N166	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N165/N166	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N165/N166	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N166/N167	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N166/N167	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N166/N167	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N166/N167	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N166/N167	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N166/N167	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N166/N167	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N166/N167	V x-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N166/N167	V x-(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N166/N167	V x-(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N166/N167	V x-(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N166/N167	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N166/N167	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N166/N167	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N167/N168	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N167/N168	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N167/N168	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N167/N168	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N167/N168	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N167/N168	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N167/N168	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N167/N168	V x-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N167/N168	V x-(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N167/N168	V x-(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N167/N168	V x-(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N167/N168	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N167/N168	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N167/N168	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N168/N169	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N168/N169	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N168/N169	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N168/N169	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N168/N169	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N168/N169	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N168/N169	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N168/N169	V x-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N168/N169	V x-(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N168/N169	V x-(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N168/N169	V x-(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N168/N169	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N168/N169	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N168/N169	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N169/N170	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N169/N170	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N169/N170	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N169/N170	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N169/N170	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N169/N170	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N169/N170	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N169/N170	V x-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N169/N170	V x-(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N169/N170	V x-(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N169/N170	V x-(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N169/N170	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N169/N170	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N169/N170	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N171/N172	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N171/N172	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N171/N172	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N171/N172	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N171/N172	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N171/N172	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N171/N172	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N171/N172	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N171/N172	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N171/N172	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N171/N172	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N171/N172	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N172/N173	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N172/N173	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N172/N173	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N172/N173	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N172/N173	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N172/N173	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N172/N173	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N172/N173	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N172/N173	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N172/N173	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N172/N173	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N172/N173	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N173/N174	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N173/N174	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N173/N174	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N173/N174	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N173/N174	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N173/N174	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N173/N174	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N173/N174	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N173/N174	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N173/N174	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N173/N174	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N173/N174	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N174/N175	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N174/N175	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N174/N175	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N174/N175	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N174/N175	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N174/N175	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N174/N175	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N174/N175	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N174/N175	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N174/N175	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N174/N175	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N174/N175	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N175/N176	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N175/N176	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N175/N176	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N175/N176	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N175/N176	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N175/N176	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N175/N176	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N175/N176	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N175/N176	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N175/N176	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N175/N176	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N175/N176	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N176/N177	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N176/N177	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N176/N177	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N176/N177	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N176/N177	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N176/N177	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N176/N177	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N176/N177	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N176/N177	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N176/N177	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N176/N177	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N176/N177	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N177/N178	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N177/N178	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N177/N178	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N177/N178	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N177/N178	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N177/N178	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N177/N178	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N177/N178	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N177/N178	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N177/N178	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N177/N178	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N177/N178	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N178/N179	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N178/N179	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N178/N179	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N178/N179	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N178/N179	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N178/N179	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N178/N179	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N178/N179	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N178/N179	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N178/N179	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N178/N179	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N178/N179	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N179/N180	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N179/N180	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N179/N180	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N179/N180	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N179/N180	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N179/N180	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N179/N180	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N179/N180	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N179/N180	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N179/N180	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N179/N180	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N179/N180	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N180/N181	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N180/N181	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N180/N181	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N180/N181	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N180/N181	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N180/N181	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N180/N181	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N180/N181	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N180/N181	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N180/N181	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N180/N181	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N180/N181	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N181/N182	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N181/N182	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N181/N182	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N181/N182	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N181/N182	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N181/N182	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N181/N182	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N181/N182	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N181/N182	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N181/N182	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N181/N182	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N181/N182	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N182/N183	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N182/N183	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N182/N183	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N182/N183	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N182/N183	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N182/N183	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N182/N183	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N182/N183	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N182/N183	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N182/N183	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N182/N183	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N182/N183	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N183/N184	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N183/N184	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N183/N184	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N183/N184	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N183/N184	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N183/N184	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N183/N184	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N183/N184	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N183/N184	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N183/N184	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N183/N184	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N183/N184	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N184/N185	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N184/N185	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N184/N185	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N184/N185	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N184/N185	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N184/N185	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N184/N185	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N184/N185	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N184/N185	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N184/N185	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N184/N185	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N184/N185	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N185/N186	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N185/N186	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N185/N186	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N185/N186	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N185/N186	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N185/N186	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N185/N186	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N185/N186	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N185/N186	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N185/N186	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N185/N186	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N185/N186	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N186/N187	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N186/N187	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N186/N187	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N186/N187	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N186/N187	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N186/N187	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N186/N187	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N186/N187	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N186/N187	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N186/N187	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N186/N187	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N186/N187	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N187/N188	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N187/N188	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N187/N188	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N187/N188	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N187/N188	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N187/N188	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N187/N188	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N187/N188	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N187/N188	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N187/N188	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N187/N188	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N187/N188	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N188/N189	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N188/N189	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N188/N189	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N188/N189	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N188/N189	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N188/N189	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N188/N189	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N188/N189	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N188/N189	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N188/N189	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N188/N189	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N188/N189	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N189/N190	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N189/N190	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N189/N190	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N189/N190	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N189/N190	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N189/N190	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N189/N190	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N189/N190	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N189/N190	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N189/N190	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N189/N190	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N189/N190	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N190/N191	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N190/N191	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N190/N191	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N190/N191	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N190/N191	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N190/N191	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N190/N191	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N190/N191	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N190/N191	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N190/N191	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N190/N191	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N190/N191	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N191/N192	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N191/N192	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N191/N192	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N191/N192	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N191/N192	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N191/N192	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N191/N192	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N191/N192	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N191/N192	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N191/N192	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N191/N192	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N191/N192	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N192/N193	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N192/N193	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N192/N193	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N192/N193	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N192/N193	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N192/N193	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N192/N193	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N192/N193	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N192/N193	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N192/N193	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N192/N193	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N192/N193	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N194/N195	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N194/N195	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N194/N195	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N194/N195	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N194/N195	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N194/N195	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N194/N195	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N194/N195	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N194/N195	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N194/N195	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N194/N195	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N194/N195	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N195/N196	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N195/N196	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N195/N196	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N195/N196	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N195/N196	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N195/N196	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N195/N196	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N195/N196	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N195/N196	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N195/N196	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N195/N196	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N195/N196	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N196/N197	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N196/N197	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N196/N197	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N196/N197	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N196/N197	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N196/N197	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N196/N197	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N196/N197	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N196/N197	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N196/N197	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N196/N197	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N196/N197	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N197/N198	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N197/N198	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N197/N198	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N197/N198	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N197/N198	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N197/N198	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N197/N198	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N197/N198	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N197/N198	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N197/N198	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N197/N198	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N197/N198	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N198/N199	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N198/N199	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N198/N199	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N198/N199	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N198/N199	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N198/N199	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N198/N199	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N198/N199	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N198/N199	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N198/N199	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N198/N199	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N198/N199	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N199/N200	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N199/N200	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N199/N200	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N199/N200	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N199/N200	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N199/N200	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N199/N200	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N199/N200	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N199/N200	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N199/N200	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N199/N200	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N199/N200	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N200/N201	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N200/N201	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N200/N201	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N200/N201	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N200/N201	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N200/N201	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N200/N201	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N200/N201	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N200/N201	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N200/N201	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N200/N201	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N200/N201	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N201/N202	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N201/N202	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N201/N202	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N201/N202	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N201/N202	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N201/N202	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N201/N202	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N201/N202	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N201/N202	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N201/N202	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N201/N202	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N201/N202	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N202/N203	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N202/N203	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N202/N203	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N202/N203	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N202/N203	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N202/N203	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N202/N203	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N202/N203	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N202/N203	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N202/N203	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N202/N203	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N202/N203	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N203/N204	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N203/N204	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N203/N204	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N203/N204	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N203/N204	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N203/N204	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N203/N204	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N203/N204	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N203/N204	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N203/N204	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N203/N204	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N203/N204	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N204/N205	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N204/N205	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N204/N205	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N204/N205	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N204/N205	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N204/N205	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N204/N205	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N204/N205	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N204/N205	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N204/N205	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N204/N205	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N204/N205	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N205/N206	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N205/N206	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N205/N206	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N205/N206	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N205/N206	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N205/N206	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N205/N206	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N205/N206	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N205/N206	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N205/N206	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N205/N206	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N205/N206	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N206/N207	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N206/N207	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N206/N207	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N206/N207	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N206/N207	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N206/N207	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N206/N207	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N206/N207	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N206/N207	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N206/N207	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N206/N207	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N206/N207	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N207/N208	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N207/N208	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N207/N208	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N207/N208	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N207/N208	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N207/N208	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N207/N208	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N207/N208	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N207/N208	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N207/N208	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N207/N208	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N207/N208	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N208/N209	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N208/N209	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N208/N209	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N208/N209	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N208/N209	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N208/N209	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N208/N209	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N208/N209	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N208/N209	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N208/N209	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N208/N209	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N208/N209	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N209/N210	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N209/N210	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N209/N210	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N209/N210	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N209/N210	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N209/N210	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N209/N210	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N209/N210	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N209/N210	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N209/N210	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N209/N210	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N209/N210	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N210/N211	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N210/N211	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N210/N211	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N210/N211	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N210/N211	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N210/N211	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N210/N211	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N210/N211	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N210/N211	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N210/N211	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N210/N211	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N210/N211	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N211/N212	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N211/N212	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N211/N212	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N211/N212	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N211/N212	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N211/N212	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N211/N212	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N211/N212	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N211/N212	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N211/N212	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N211/N212	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N211/N212	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N212/N213	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N212/N213	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N212/N213	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N212/N213	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N212/N213	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N212/N213	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N212/N213	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N212/N213	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N212/N213	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N212/N213	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N212/N213	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N212/N213	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N213/N214	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N213/N214	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N213/N214	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N213/N214	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N213/N214	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N213/N214	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N213/N214	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N213/N214	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N213/N214	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N213/N214	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N213/N214	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N213/N214	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N214/N215	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N214/N215	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N214/N215	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N214/N215	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N214/N215	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N214/N215	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N214/N215	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N214/N215	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N214/N215	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N214/N215	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N214/N215	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N214/N215	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N215/N216	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N215/N216	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N215/N216	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N215/N216	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N215/N216	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N215/N216	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N215/N216	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N215/N216	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N215/N216	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N215/N216	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N215/N216	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N215/N216	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N217/N218	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N217/N218	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N217/N218	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N217/N218	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N217/N218	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N217/N218	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N217/N218	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N217/N218	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N217/N218	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N217/N218	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N217/N218	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N217/N218	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N218/N219	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N218/N219	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N218/N219	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N218/N219	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N218/N219	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N218/N219	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N218/N219	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N218/N219	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N218/N219	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N218/N219	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N218/N219	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N218/N219	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N219/N220	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N219/N220	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N219/N220	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N219/N220	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N219/N220	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N219/N220	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N219/N220	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N219/N220	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N219/N220	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N219/N220	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N219/N220	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N219/N220	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N220/N221	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N220/N221	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N220/N221	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N220/N221	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N220/N221	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N220/N221	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N220/N221	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N220/N221	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N220/N221	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N220/N221	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N220/N221	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N220/N221	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N221/N222	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N221/N222	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N221/N222	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N221/N222	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N221/N222	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N221/N222	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N221/N222	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N221/N222	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N221/N222	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N221/N222	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N221/N222	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N221/N222	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N222/N223	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N222/N223	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N222/N223	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N222/N223	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N222/N223	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N222/N223	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N222/N223	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N222/N223	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N222/N223	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N222/N223	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N222/N223	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N222/N223	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N223/N224	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N223/N224	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N223/N224	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N223/N224	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N223/N224	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N223/N224	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N223/N224	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N223/N224	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N223/N224	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N223/N224	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N223/N224	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N223/N224	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N224/N225	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N224/N225	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N224/N225	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N224/N225	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N224/N225	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N224/N225	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N224/N225	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N224/N225	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N224/N225	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N224/N225	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N224/N225	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N224/N225	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N225/N226	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N225/N226	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N225/N226	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N225/N226	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N225/N226	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N225/N226	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N225/N226	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N225/N226	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N225/N226	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N225/N226	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N225/N226	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N225/N226	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N226/N227	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N226/N227	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N226/N227	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N226/N227	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N226/N227	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N226/N227	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N226/N227	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N226/N227	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N226/N227	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N226/N227	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N226/N227	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N226/N227	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N227/N228	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N227/N228	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N227/N228	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N227/N228	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N227/N228	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N227/N228	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N227/N228	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N227/N228	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N227/N228	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N227/N228	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N227/N228	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N227/N228	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N228/N229	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N228/N229	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N228/N229	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N228/N229	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N228/N229	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N228/N229	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N228/N229	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N228/N229	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N228/N229	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N228/N229	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N228/N229	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N228/N229	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N229/N230	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N229/N230	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N229/N230	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N229/N230	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N229/N230	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N229/N230	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N229/N230	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N229/N230	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N229/N230	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N229/N230	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N229/N230	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N229/N230	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N230/N231	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N230/N231	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N230/N231	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N230/N231	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N230/N231	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N230/N231	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N230/N231	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N230/N231	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N230/N231	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N230/N231	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N230/N231	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N230/N231	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N231/N232	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N231/N232	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N231/N232	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N231/N232	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N231/N232	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N231/N232	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N231/N232	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N231/N232	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N231/N232	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N231/N232	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N231/N232	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N231/N232	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N232/N233	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N232/N233	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N232/N233	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N232/N233	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N232/N233	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N232/N233	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N232/N233	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N232/N233	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N232/N233	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N232/N233	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N232/N233	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N232/N233	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N233/N234	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N233/N234	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N233/N234	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N233/N234	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N233/N234	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N233/N234	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N233/N234	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N233/N234	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N233/N234	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N233/N234	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N233/N234	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N233/N234	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N234/N235	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N234/N235	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N234/N235	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N234/N235	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N234/N235	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N234/N235	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N234/N235	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N234/N235	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N234/N235	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N234/N235	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N234/N235	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N234/N235	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N235/N236	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N235/N236	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N235/N236	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N235/N236	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N235/N236	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N235/N236	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N235/N236	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N235/N236	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N235/N236	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N235/N236	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N235/N236	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N235/N236	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N236/N237	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N236/N237	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N236/N237	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N236/N237	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N236/N237	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N236/N237	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N236/N237	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N236/N237	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N236/N237	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N236/N237	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N236/N237	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N236/N237	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N237/N238	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N237/N238	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N237/N238	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N237/N238	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N237/N238	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N237/N238	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N237/N238	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N237/N238	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N237/N238	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N237/N238	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N237/N238	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N237/N238	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N238/N239	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N238/N239	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N238/N239	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N238/N239	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N238/N239	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N238/N239	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N238/N239	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N238/N239	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N238/N239	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N238/N239	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N238/N239	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N238/N239	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N240/N241	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N240/N241	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N240/N241	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N240/N241	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N240/N241	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N240/N241	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N240/N241	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N240/N241	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N240/N241	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N240/N241	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N240/N241	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N240/N241	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N241/N242	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N241/N242	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N241/N242	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N241/N242	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N241/N242	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N241/N242	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N241/N242	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N241/N242	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N241/N242	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N241/N242	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N241/N242	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N241/N242	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N242/N243	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N242/N243	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N242/N243	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N242/N243	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N242/N243	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N242/N243	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N242/N243	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N242/N243	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N242/N243	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N242/N243	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N242/N243	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N242/N243	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N243/N244	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N243/N244	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N243/N244	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N243/N244	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N243/N244	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N243/N244	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N243/N244	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N243/N244	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N243/N244	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N243/N244	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N243/N244	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N243/N244	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N244/N245	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N244/N245	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N244/N245	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N244/N245	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N244/N245	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N244/N245	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N244/N245	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N244/N245	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N244/N245	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N244/N245	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N244/N245	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N244/N245	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N245/N246	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N245/N246	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N245/N246	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N245/N246	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N245/N246	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N245/N246	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N245/N246	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N245/N246	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N245/N246	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N245/N246	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N245/N246	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N245/N246	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N246/N247	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N246/N247	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N246/N247	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N246/N247	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N246/N247	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N246/N247	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N246/N247	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N246/N247	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N246/N247	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N246/N247	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N246/N247	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N246/N247	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N247/N248	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N247/N248	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N247/N248	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N247/N248	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N247/N248	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N247/N248	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N247/N248	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N247/N248	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N247/N248	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N247/N248	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N247/N248	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N247/N248	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N248/N249	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N248/N249	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N248/N249	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N248/N249	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N248/N249	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N248/N249	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N248/N249	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N248/N249	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N248/N249	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N248/N249	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N248/N249	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N248/N249	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N249/N250	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N249/N250	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N249/N250	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N249/N250	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N249/N250	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N249/N250	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N249/N250	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N249/N250	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N249/N250	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N249/N250	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N249/N250	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N249/N250	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N250/N251	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N250/N251	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N250/N251	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N250/N251	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N250/N251	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N250/N251	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N250/N251	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N250/N251	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N250/N251	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N250/N251	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N250/N251	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N250/N251	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N251/N252	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N251/N252	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N251/N252	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N251/N252	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N251/N252	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N251/N252	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N251/N252	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N251/N252	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N251/N252	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N251/N252	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N251/N252	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N251/N252	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N252/N253	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N252/N253	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N252/N253	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N252/N253	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N252/N253	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N252/N253	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N252/N253	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N252/N253	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N252/N253	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N252/N253	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N252/N253	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N252/N253	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N253/N254	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N253/N254	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N253/N254	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N253/N254	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N253/N254	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N253/N254	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N253/N254	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N253/N254	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N253/N254	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N253/N254	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N253/N254	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N253/N254	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N254/N255	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N254/N255	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N254/N255	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N254/N255	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N254/N255	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N254/N255	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N254/N255	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N254/N255	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N254/N255	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N254/N255	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N254/N255	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N254/N255	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N255/N256	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N255/N256	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N255/N256	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N255/N256	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N255/N256	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N255/N256	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N255/N256	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N255/N256	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N255/N256	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N255/N256	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N255/N256	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N255/N256	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N256/N257	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N256/N257	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N256/N257	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N256/N257	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N256/N257	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N256/N257	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N256/N257	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N256/N257	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N256/N257	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N256/N257	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N256/N257	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N256/N257	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N257/N258	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N257/N258	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N257/N258	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N257/N258	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N257/N258	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N257/N258	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N257/N258	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N257/N258	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N257/N258	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N257/N258	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N257/N258	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N257/N258	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N258/N259	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N258/N259	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N258/N259	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N258/N259	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N258/N259	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N258/N259	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N258/N259	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N258/N259	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N258/N259	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N258/N259	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N258/N259	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N258/N259	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N259/N260	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N259/N260	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N259/N260	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N259/N260	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N259/N260	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N259/N260	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N259/N260	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N259/N260	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N259/N260	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N259/N260	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N259/N260	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N259/N260	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N260/N261	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N260/N261	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N260/N261	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N260/N261	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N260/N261	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N260/N261	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N260/N261	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N260/N261	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N260/N261	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N260/N261	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N260/N261	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N260/N261	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N261/N262	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N261/N262	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N261/N262	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N261/N262	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N261/N262	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N261/N262	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N261/N262	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N261/N262	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N261/N262	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N261/N262	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N261/N262	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N261/N262	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N263/N264	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N263/N264	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N263/N264	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N263/N264	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N263/N264	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N263/N264	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N263/N264	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N263/N264	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N263/N264	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N263/N264	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N263/N264	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N263/N264	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N264/N265	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N264/N265	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N264/N265	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N264/N265	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N264/N265	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N264/N265	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N264/N265	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N264/N265	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N264/N265	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N264/N265	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N264/N265	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N264/N265	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N265/N266	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N265/N266	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N265/N266	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N265/N266	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N265/N266	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N265/N266	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N265/N266	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N265/N266	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N265/N266	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N265/N266	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N265/N266	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N265/N266	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N266/N267	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N266/N267	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N266/N267	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N266/N267	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N266/N267	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N266/N267	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N266/N267	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N266/N267	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N266/N267	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N266/N267	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N266/N267	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N266/N267	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N267/N268	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N267/N268	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N267/N268	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N267/N268	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N267/N268	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N267/N268	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N267/N268	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N267/N268	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N267/N268	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N267/N268	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N267/N268	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N267/N268	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N268/N269	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N268/N269	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N268/N269	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N268/N269	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N268/N269	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N268/N269	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N268/N269	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N268/N269	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N268/N269	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N268/N269	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N268/N269	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N268/N269	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N269/N270	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N269/N270	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N269/N270	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N269/N270	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N269/N270	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N269/N270	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N269/N270	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N269/N270	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N269/N270	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N269/N270	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N269/N270	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N269/N270	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N270/N271	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N270/N271	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N270/N271	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N270/N271	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N270/N271	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N270/N271	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N270/N271	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N270/N271	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N270/N271	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N270/N271	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N270/N271	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N270/N271	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N271/N272	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N271/N272	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N271/N272	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N271/N272	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N271/N272	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N271/N272	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N271/N272	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N271/N272	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N271/N272	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N271/N272	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N271/N272	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N271/N272	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N272/N273	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N272/N273	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N272/N273	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N272/N273	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N272/N273	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N272/N273	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N272/N273	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N272/N273	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N272/N273	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N272/N273	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N272/N273	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N272/N273	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N273/N274	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N273/N274	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N273/N274	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N273/N274	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N273/N274	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N273/N274	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N273/N274	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N273/N274	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N273/N274	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N273/N274	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N273/N274	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N273/N274	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N274/N275	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N274/N275	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N274/N275	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N274/N275	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N274/N275	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N274/N275	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N274/N275	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N274/N275	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N274/N275	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N274/N275	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N274/N275	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N274/N275	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N275/N276	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N275/N276	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N275/N276	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N275/N276	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N275/N276	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N275/N276	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N275/N276	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N275/N276	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N275/N276	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N275/N276	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N275/N276	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N275/N276	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N276/N277	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N276/N277	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N276/N277	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N276/N277	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N276/N277	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N276/N277	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N276/N277	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N276/N277	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N276/N277	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N276/N277	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N276/N277	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N276/N277	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N277/N278	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N277/N278	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N277/N278	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N277/N278	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N277/N278	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N277/N278	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N277/N278	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N277/N278	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N277/N278	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N277/N278	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N277/N278	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N277/N278	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N278/N279	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N278/N279	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N278/N279	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N278/N279	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N278/N279	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N278/N279	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N278/N279	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N278/N279	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N278/N279	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N278/N279	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N278/N279	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N278/N279	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N279/N280	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N279/N280	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N279/N280	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N279/N280	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N279/N280	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N279/N280	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N279/N280	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N279/N280	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N279/N280	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N279/N280	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N279/N280	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N279/N280	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N280/N281	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N280/N281	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N280/N281	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N280/N281	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N280/N281	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N280/N281	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N280/N281	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N280/N281	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N280/N281	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N280/N281	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N280/N281	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N280/N281	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N281/N282	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N281/N282	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N281/N282	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N281/N282	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N281/N282	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N281/N282	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N281/N282	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N281/N282	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N281/N282	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N281/N282	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N281/N282	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N281/N282	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N282/N283	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N282/N283	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N282/N283	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N282/N283	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N282/N283	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N282/N283	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N282/N283	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N282/N283	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N282/N283	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N282/N283	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N282/N283	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N282/N283	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N283/N284	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N283/N284	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N283/N284	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N283/N284	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N283/N284	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N283/N284	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N283/N284	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N283/N284	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N283/N284	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N283/N284	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N283/N284	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N283/N284	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N284/N285	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N284/N285	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N284/N285	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N284/N285	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N284/N285	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N284/N285	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N284/N285	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N284/N285	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N284/N285	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N284/N285	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N284/N285	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N284/N285	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N286/N287	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N286/N287	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N286/N287	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N286/N287	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N286/N287	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N286/N287	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N286/N287	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N286/N287	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N286/N287	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N286/N287	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N286/N287	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N286/N287	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N287/N288	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N287/N288	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N287/N288	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N287/N288	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N287/N288	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N287/N288	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N287/N288	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N287/N288	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N287/N288	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N287/N288	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N287/N288	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N287/N288	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N288/N289	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N288/N289	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N288/N289	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N288/N289	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N288/N289	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N288/N289	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N288/N289	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N288/N289	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N288/N289	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N288/N289	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N288/N289	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N288/N289	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N289/N290	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N289/N290	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N289/N290	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N289/N290	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N289/N290	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N289/N290	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N289/N290	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N289/N290	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N289/N290	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N289/N290	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N289/N290	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N289/N290	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N290/N291	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N290/N291	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N290/N291	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N290/N291	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N290/N291	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N290/N291	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N290/N291	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N290/N291	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N290/N291	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N290/N291	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N290/N291	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N290/N291	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N291/N292	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N291/N292	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N291/N292	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N291/N292	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N291/N292	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N291/N292	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N291/N292	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N291/N292	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N291/N292	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N291/N292	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N291/N292	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N291/N292	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N292/N293	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N292/N293	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N292/N293	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N292/N293	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N292/N293	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N292/N293	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N292/N293	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N292/N293	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N292/N293	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N292/N293	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N292/N293	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N292/N293	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N293/N294	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N293/N294	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N293/N294	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N293/N294	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N293/N294	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N293/N294	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N293/N294	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N293/N294	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N293/N294	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N293/N294	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N293/N294	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N293/N294	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N294/N295	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N294/N295	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N294/N295	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N294/N295	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N294/N295	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N294/N295	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N294/N295	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N294/N295	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N294/N295	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N294/N295	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N294/N295	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N294/N295	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N295/N296	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N295/N296	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N295/N296	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N295/N296	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N295/N296	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N295/N296	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N295/N296	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N295/N296	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N295/N296	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N295/N296	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N295/N296	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N295/N296	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N296/N297	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N296/N297	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N296/N297	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N296/N297	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N296/N297	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N296/N297	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N296/N297	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N296/N297	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N296/N297	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N296/N297	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N296/N297	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N296/N297	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N297/N298	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N297/N298	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N297/N298	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N297/N298	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N297/N298	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N297/N298	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N297/N298	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N297/N298	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N297/N298	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N297/N298	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N297/N298	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N297/N298	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N298/N299	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N298/N299	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N298/N299	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N298/N299	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N298/N299	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N298/N299	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N298/N299	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N298/N299	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N298/N299	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N298/N299	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N298/N299	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N298/N299	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N299/N300	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N299/N300	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N299/N300	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N299/N300	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N299/N300	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N299/N300	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N299/N300	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N299/N300	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N299/N300	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N299/N300	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N299/N300	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N299/N300	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N300/N301	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N300/N301	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N300/N301	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N300/N301	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N300/N301	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N300/N301	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N300/N301	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N300/N301	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N300/N301	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N300/N301	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N300/N301	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N300/N301	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N301/N302	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N301/N302	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N301/N302	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N301/N302	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N301/N302	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N301/N302	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N301/N302	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N301/N302	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N301/N302	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N301/N302	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N301/N302	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N301/N302	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N302/N303	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N302/N303	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N302/N303	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N302/N303	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N302/N303	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N302/N303	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N302/N303	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N302/N303	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N302/N303	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N302/N303	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N302/N303	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N302/N303	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N303/N304	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N303/N304	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N303/N304	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N303/N304	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N303/N304	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N303/N304	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N303/N304	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N303/N304	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N303/N304	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N303/N304	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N303/N304	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N303/N304	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N304/N305	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N304/N305	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N304/N305	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N304/N305	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N304/N305	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N304/N305	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N304/N305	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N304/N305	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N304/N305	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N304/N305	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N304/N305	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N304/N305	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N305/N306	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N305/N306	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N305/N306	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N305/N306	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N305/N306	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N305/N306	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N305/N306	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N305/N306	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N305/N306	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N305/N306	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N305/N306	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N305/N306	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N306/N307	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N306/N307	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N306/N307	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N306/N307	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N306/N307	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N306/N307	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N306/N307	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N306/N307	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N306/N307	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N306/N307	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N306/N307	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N306/N307	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N307/N308	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N307/N308	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N307/N308	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N307/N308	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N307/N308	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N307/N308	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N307/N308	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N307/N308	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N307/N308	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N307/N308	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N307/N308	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N307/N308	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N309/N310	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N309/N310	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N309/N310	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N309/N310	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N309/N310	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N309/N310	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N309/N310	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N309/N310	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N309/N310	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N309/N310	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N309/N310	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N309/N310	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N310/N311	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N310/N311	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N310/N311	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N310/N311	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N310/N311	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N310/N311	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N310/N311	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N310/N311	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N310/N311	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N310/N311	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N310/N311	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N310/N311	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N311/N312	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N311/N312	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N311/N312	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N311/N312	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N311/N312	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N311/N312	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N311/N312	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N311/N312	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N311/N312	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N311/N312	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N311/N312	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N311/N312	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N312/N313	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N312/N313	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N312/N313	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N312/N313	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N312/N313	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N312/N313	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N312/N313	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N312/N313	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N312/N313	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N312/N313	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N312/N313	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N312/N313	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N313/N314	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N313/N314	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N313/N314	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N313/N314	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N313/N314	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N313/N314	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N313/N314	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N313/N314	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N313/N314	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N313/N314	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N313/N314	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N313/N314	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N314/N315	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N314/N315	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N314/N315	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N314/N315	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N314/N315	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N314/N315	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N314/N315	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N314/N315	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N314/N315	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N314/N315	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N314/N315	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N314/N315	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N315/N316	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N315/N316	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N315/N316	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N315/N316	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N315/N316	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N315/N316	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N315/N316	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N315/N316	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N315/N316	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N315/N316	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N315/N316	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N315/N316	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N316/N317	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N316/N317	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N316/N317	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N316/N317	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N316/N317	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N316/N317	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N316/N317	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N316/N317	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N316/N317	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N316/N317	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N316/N317	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N316/N317	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N317/N318	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N317/N318	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N317/N318	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N317/N318	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N317/N318	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N317/N318	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N317/N318	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N317/N318	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N317/N318	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N317/N318	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N317/N318	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N317/N318	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N318/N319	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N318/N319	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N318/N319	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N318/N319	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N318/N319	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N318/N319	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N318/N319	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N318/N319	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N318/N319	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N318/N319	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N318/N319	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N318/N319	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N319/N320	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N319/N320	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N319/N320	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N319/N320	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N319/N320	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N319/N320	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N319/N320	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N319/N320	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N319/N320	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N319/N320	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N319/N320	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N319/N320	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N320/N321	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N320/N321	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N320/N321	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N320/N321	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N320/N321	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N320/N321	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N320/N321	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N320/N321	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N320/N321	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N320/N321	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N320/N321	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N320/N321	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N321/N322	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N321/N322	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N321/N322	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N321/N322	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N321/N322	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N321/N322	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N321/N322	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N321/N322	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N321/N322	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N321/N322	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N321/N322	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N321/N322	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N322/N323	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N322/N323	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N322/N323	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N322/N323	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N322/N323	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N322/N323	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N322/N323	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N322/N323	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N322/N323	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N322/N323	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N322/N323	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N322/N323	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N323/N324	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N323/N324	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N323/N324	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N323/N324	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N323/N324	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N323/N324	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N323/N324	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N323/N324	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N323/N324	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N323/N324	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N323/N324	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N323/N324	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N324/N325	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N324/N325	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N324/N325	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N324/N325	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N324/N325	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N324/N325	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N324/N325	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N324/N325	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N324/N325	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N324/N325	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N324/N325	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N324/N325	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N325/N326	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N325/N326	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N325/N326	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N325/N326	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N325/N326	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N325/N326	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N325/N326	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N325/N326	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N325/N326	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N325/N326	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N325/N326	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N325/N326	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N326/N327	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N326/N327	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N326/N327	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N326/N327	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N326/N327	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N326/N327	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N326/N327	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N326/N327	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N326/N327	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N326/N327	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N326/N327	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N326/N327	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N327/N328	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N327/N328	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N327/N328	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N327/N328	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N327/N328	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N327/N328	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N327/N328	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N327/N328	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N327/N328	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N327/N328	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N327/N328	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N327/N328	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N328/N329	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N328/N329	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N328/N329	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N328/N329	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N328/N329	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N328/N329	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N328/N329	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N328/N329	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N328/N329	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N328/N329	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N328/N329	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N328/N329	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N329/N330	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N329/N330	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N329/N330	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N329/N330	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N329/N330	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N329/N330	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N329/N330	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N329/N330	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N329/N330	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N329/N330	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N329/N330	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N329/N330	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N330/N331	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N330/N331	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N330/N331	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N330/N331	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N330/N331	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N330/N331	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N330/N331	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N330/N331	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N330/N331	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N330/N331	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N330/N331	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N330/N331	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N332/N333	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N332/N333	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N332/N333	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N332/N333	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N332/N333	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N332/N333	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N332/N333	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N332/N333	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N332/N333	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N332/N333	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N332/N333	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N332/N333	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N333/N334	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N333/N334	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N333/N334	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N333/N334	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N333/N334	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N333/N334	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N333/N334	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N333/N334	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N333/N334	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N333/N334	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N333/N334	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N333/N334	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N334/N335	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N334/N335	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N334/N335	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N334/N335	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N334/N335	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N334/N335	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N334/N335	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N334/N335	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N334/N335	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N334/N335	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N334/N335	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N334/N335	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N335/N336	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N335/N336	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N335/N336	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N335/N336	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N335/N336	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N335/N336	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N335/N336	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N335/N336	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N335/N336	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N335/N336	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N335/N336	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N335/N336	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N336/N337	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N336/N337	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N336/N337	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N336/N337	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N336/N337	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N336/N337	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N336/N337	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N336/N337	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N336/N337	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N336/N337	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N336/N337	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N336/N337	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N337/N338	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N337/N338	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N337/N338	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N337/N338	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N337/N338	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N337/N338	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N337/N338	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N337/N338	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N337/N338	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N337/N338	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N337/N338	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N337/N338	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N338/N339	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N338/N339	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N338/N339	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N338/N339	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N338/N339	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N338/N339	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N338/N339	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N338/N339	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N338/N339	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N338/N339	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N338/N339	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N338/N339	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N339/N340	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N339/N340	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N339/N340	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N339/N340	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N339/N340	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N339/N340	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N339/N340	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N339/N340	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N339/N340	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N339/N340	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N339/N340	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N339/N340	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N340/N341	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N340/N341	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N340/N341	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N340/N341	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N340/N341	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N340/N341	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N340/N341	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N340/N341	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N340/N341	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N340/N341	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N340/N341	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N340/N341	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N341/N342	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N341/N342	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N341/N342	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N341/N342	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N341/N342	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N341/N342	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N341/N342	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N341/N342	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N341/N342	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N341/N342	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N341/N342	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N341/N342	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N342/N343	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N342/N343	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N342/N343	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N342/N343	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N342/N343	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N342/N343	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N342/N343	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N342/N343	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N342/N343	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N342/N343	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N342/N343	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N342/N343	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N343/N344	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N343/N344	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N343/N344	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N343/N344	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N343/N344	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N343/N344	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N343/N344	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N343/N344	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N343/N344	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N343/N344	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N343/N344	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N343/N344	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N344/N345	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N344/N345	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N344/N345	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N344/N345	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N344/N345	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N344/N345	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N344/N345	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N344/N345	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N344/N345	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N344/N345	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N344/N345	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N344/N345	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N345/N346	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N345/N346	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N345/N346	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N345/N346	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N345/N346	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N345/N346	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N345/N346	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N345/N346	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N345/N346	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N345/N346	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N345/N346	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N345/N346	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N346/N347	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N346/N347	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N346/N347	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N346/N347	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N346/N347	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N346/N347	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N346/N347	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N346/N347	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N346/N347	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N346/N347	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N346/N347	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N346/N347	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N347/N348	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N347/N348	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N347/N348	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N347/N348	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N347/N348	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N347/N348	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N347/N348	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N347/N348	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N347/N348	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N347/N348	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N347/N348	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N347/N348	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N348/N349	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N348/N349	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N348/N349	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N348/N349	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N348/N349	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N348/N349	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N348/N349	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N348/N349	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N348/N349	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N348/N349	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N348/N349	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N348/N349	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N349/N350	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N349/N350	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N349/N350	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N349/N350	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N349/N350	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N349/N350	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N349/N350	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N349/N350	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N349/N350	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N349/N350	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N349/N350	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N349/N350	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N350/N351	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N350/N351	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N350/N351	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N350/N351	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N350/N351	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N350/N351	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N350/N351	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N350/N351	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N350/N351	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N350/N351	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N350/N351	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N350/N351	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N351/N352	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N351/N352	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N351/N352	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N351/N352	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N351/N352	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N351/N352	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N351/N352	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N351/N352	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N351/N352	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N351/N352	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N351/N352	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N351/N352	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N352/N353	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N352/N353	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N352/N353	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N352/N353	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N352/N353	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N352/N353	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N352/N353	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N352/N353	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N352/N353	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N352/N353	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N352/N353	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N352/N353	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N353/N354	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N353/N354	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N353/N354	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N353/N354	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N353/N354	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N353/N354	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N353/N354	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N353/N354	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N353/N354	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N353/N354	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N353/N354	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N353/N354	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N355/N356	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N355/N356	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N355/N356	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N355/N356	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N355/N356	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N355/N356	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N355/N356	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N355/N356	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N355/N356	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N355/N356	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N355/N356	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N355/N356	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N356/N357	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N356/N357	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N356/N357	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N356/N357	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N356/N357	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N356/N357	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N356/N357	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N356/N357	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N356/N357	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N356/N357	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N356/N357	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N356/N357	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N357/N358	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N357/N358	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N357/N358	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N357/N358	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N357/N358	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N357/N358	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N357/N358	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N357/N358	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N357/N358	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N357/N358	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N357/N358	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N357/N358	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N358/N359	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N358/N359	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N358/N359	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N358/N359	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N358/N359	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N358/N359	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N358/N359	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N358/N359	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N358/N359	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N358/N359	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N358/N359	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N358/N359	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N359/N360	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N359/N360	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N359/N360	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N359/N360	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N359/N360	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N359/N360	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N359/N360	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N359/N360	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N359/N360	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N359/N360	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N359/N360	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N359/N360	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N360/N361	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N360/N361	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N360/N361	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N360/N361	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N360/N361	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N360/N361	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N360/N361	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N360/N361	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N360/N361	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N360/N361	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N360/N361	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N360/N361	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N361/N362	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N361/N362	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N361/N362	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N361/N362	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N361/N362	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N361/N362	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N361/N362	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N361/N362	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N361/N362	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N361/N362	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N361/N362	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N361/N362	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N362/N363	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N362/N363	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N362/N363	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N362/N363	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N362/N363	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N362/N363	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N362/N363	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N362/N363	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N362/N363	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N362/N363	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N362/N363	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N362/N363	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N363/N364	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N363/N364	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N363/N364	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N363/N364	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N363/N364	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N363/N364	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N363/N364	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N363/N364	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N363/N364	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N363/N364	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N363/N364	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N363/N364	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N364/N365	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N364/N365	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N364/N365	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N364/N365	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N364/N365	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N364/N365	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N364/N365	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N364/N365	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N364/N365	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N364/N365	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N364/N365	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N364/N365	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N365/N366	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N365/N366	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N365/N366	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N365/N366	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N365/N366	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N365/N366	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N365/N366	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N365/N366	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N365/N366	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N365/N366	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N365/N366	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N365/N366	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N366/N367	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N366/N367	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N366/N367	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N366/N367	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N366/N367	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N366/N367	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N366/N367	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N366/N367	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N366/N367	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N366/N367	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N366/N367	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N366/N367	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N367/N368	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N367/N368	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N367/N368	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N367/N368	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N367/N368	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N367/N368	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N367/N368	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N367/N368	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N367/N368	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N367/N368	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N367/N368	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N367/N368	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N368/N369	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N368/N369	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N368/N369	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N368/N369	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N368/N369	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N368/N369	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N368/N369	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N368/N369	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N368/N369	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N368/N369	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N368/N369	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N368/N369	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N369/N370	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N369/N370	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N369/N370	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N369/N370	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N369/N370	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N369/N370	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N369/N370	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N369/N370	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N369/N370	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N369/N370	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N369/N370	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N369/N370	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N370/N371	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N370/N371	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N370/N371	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N370/N371	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N370/N371	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N370/N371	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N370/N371	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N370/N371	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N370/N371	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N370/N371	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N370/N371	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N370/N371	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N371/N372	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N371/N372	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N371/N372	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N371/N372	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N371/N372	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N371/N372	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N371/N372	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N371/N372	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N371/N372	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N371/N372	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N371/N372	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N371/N372	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N372/N373	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N372/N373	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N372/N373	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N372/N373	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N372/N373	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N372/N373	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N372/N373	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N372/N373	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N372/N373	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N372/N373	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N372/N373	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N372/N373	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N373/N374	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N373/N374	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N373/N374	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N373/N374	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N373/N374	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N373/N374	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N373/N374	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N373/N374	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N373/N374	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N373/N374	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N373/N374	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N373/N374	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N374/N375	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N374/N375	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N374/N375	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N374/N375	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N374/N375	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N374/N375	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N374/N375	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N374/N375	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N374/N375	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N374/N375	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N374/N375	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N374/N375	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N375/N376	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N375/N376	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N375/N376	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N375/N376	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N375/N376	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N375/N376	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N375/N376	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N375/N376	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N375/N376	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N375/N376	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N375/N376	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N375/N376	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N376/N377	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N376/N377	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N376/N377	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N376/N377	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N376/N377	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N376/N377	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N376/N377	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N376/N377	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N376/N377	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N376/N377	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N376/N377	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N376/N377	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N378/N379	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N378/N379	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N378/N379	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N378/N379	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N378/N379	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N378/N379	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N378/N379	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N378/N379	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N378/N379	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N378/N379	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N378/N379	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N378/N379	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N379/N380	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N379/N380	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N379/N380	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N379/N380	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N379/N380	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N379/N380	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N379/N380	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N379/N380	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N379/N380	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N379/N380	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N379/N380	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N379/N380	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N380/N381	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N380/N381	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N380/N381	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N380/N381	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N380/N381	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N380/N381	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N380/N381	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N380/N381	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N380/N381	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N380/N381	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N380/N381	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N380/N381	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N381/N382	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N381/N382	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N381/N382	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N381/N382	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N381/N382	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N381/N382	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N381/N382	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N381/N382	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N381/N382	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N381/N382	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N381/N382	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N381/N382	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N382/N383	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N382/N383	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N382/N383	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N382/N383	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N382/N383	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N382/N383	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N382/N383	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N382/N383	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N382/N383	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N382/N383	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N382/N383	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N382/N383	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N383/N384	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N383/N384	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N383/N384	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N383/N384	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N383/N384	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N383/N384	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N383/N384	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N383/N384	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N383/N384	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N383/N384	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N383/N384	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N383/N384	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N384/N385	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N384/N385	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N384/N385	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N384/N385	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N384/N385	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N384/N385	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N384/N385	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N384/N385	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N384/N385	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N384/N385	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N384/N385	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N384/N385	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N385/N386	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N385/N386	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N385/N386	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N385/N386	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N385/N386	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N385/N386	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N385/N386	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N385/N386	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N385/N386	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N385/N386	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N385/N386	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N385/N386	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N386/N387	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N386/N387	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N386/N387	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N386/N387	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N386/N387	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N386/N387	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N386/N387	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N386/N387	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N386/N387	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N386/N387	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N386/N387	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N386/N387	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N387/N388	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N387/N388	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N387/N388	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N387/N388	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N387/N388	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N387/N388	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N387/N388	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N387/N388	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N387/N388	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N387/N388	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N387/N388	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N387/N388	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N388/N389	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N388/N389	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N388/N389	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N388/N389	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N388/N389	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N388/N389	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N388/N389	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N388/N389	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N388/N389	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N388/N389	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N388/N389	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N388/N389	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N389/N390	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N389/N390	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N389/N390	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N389/N390	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N389/N390	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N389/N390	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N389/N390	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N389/N390	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N389/N390	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N389/N390	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N389/N390	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N389/N390	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N390/N391	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N390/N391	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N390/N391	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N390/N391	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N390/N391	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N390/N391	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N390/N391	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N390/N391	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N390/N391	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N390/N391	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N390/N391	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N390/N391	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N391/N392	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N391/N392	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N391/N392	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N391/N392	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N391/N392	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N391/N392	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N391/N392	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N391/N392	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N391/N392	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N391/N392	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N391/N392	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N391/N392	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N392/N393	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N392/N393	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N392/N393	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N392/N393	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N392/N393	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N392/N393	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N392/N393	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N392/N393	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N392/N393	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N392/N393	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N392/N393	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N392/N393	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N393/N394	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N393/N394	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N393/N394	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N393/N394	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N393/N394	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N393/N394	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N393/N394	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N393/N394	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N393/N394	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N393/N394	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N393/N394	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N393/N394	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N394/N395	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N394/N395	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N394/N395	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N394/N395	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N394/N395	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N394/N395	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N394/N395	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N394/N395	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N394/N395	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N394/N395	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N394/N395	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N394/N395	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N395/N396	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N395/N396	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N395/N396	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N395/N396	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N395/N396	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N395/N396	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N395/N396	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N395/N396	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N395/N396	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N395/N396	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N395/N396	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N395/N396	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N396/N397	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N396/N397	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N396/N397	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N396/N397	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N396/N397	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N396/N397	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N396/N397	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N396/N397	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N396/N397	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N396/N397	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N396/N397	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N396/N397	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N397/N398	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N397/N398	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N397/N398	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N397/N398	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N397/N398	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N397/N398	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N397/N398	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N397/N398	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N397/N398	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N397/N398	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N397/N398	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N397/N398	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N398/N399	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N398/N399	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N398/N399	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N398/N399	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N398/N399	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N398/N399	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N398/N399	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N398/N399	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N398/N399	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N398/N399	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N398/N399	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N398/N399	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N399/N400	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N399/N400	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N399/N400	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N399/N400	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N399/N400	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N399/N400	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N399/N400	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N399/N400	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N399/N400	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N399/N400	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N399/N400	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N399/N400	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N401/N402	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N401/N402	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N401/N402	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N401/N402	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N401/N402	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N401/N402	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N401/N402	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N401/N402	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N401/N402	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N401/N402	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N401/N402	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N401/N402	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N402/N403	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N402/N403	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N402/N403	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N402/N403	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N402/N403	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N402/N403	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N402/N403	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N402/N403	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N402/N403	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N402/N403	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N402/N403	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N402/N403	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N403/N404	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N403/N404	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N403/N404	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N403/N404	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N403/N404	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N403/N404	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N403/N404	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N403/N404	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N403/N404	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N403/N404	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N403/N404	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N403/N404	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N404/N405	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N404/N405	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N404/N405	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N404/N405	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N404/N405	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N404/N405	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N404/N405	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N404/N405	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N404/N405	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N404/N405	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N404/N405	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N404/N405	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N405/N406	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N405/N406	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N405/N406	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N405/N406	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N405/N406	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N405/N406	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N405/N406	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N405/N406	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N405/N406	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N405/N406	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N405/N406	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N405/N406	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N406/N407	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N406/N407	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N406/N407	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N406/N407	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N406/N407	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N406/N407	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N406/N407	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N406/N407	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N406/N407	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N406/N407	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N406/N407	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N406/N407	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N407/N408	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N407/N408	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N407/N408	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N407/N408	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N407/N408	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N407/N408	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N407/N408	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N407/N408	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N407/N408	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N407/N408	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N407/N408	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N407/N408	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N408/N409	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N408/N409	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N408/N409	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N408/N409	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N408/N409	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N408/N409	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N408/N409	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N408/N409	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N408/N409	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N408/N409	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N408/N409	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N408/N409	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N409/N410	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N409/N410	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N409/N410	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N409/N410	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N409/N410	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N409/N410	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N409/N410	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N409/N410	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N409/N410	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N409/N410	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N409/N410	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N409/N410	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N410/N411	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N410/N411	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N410/N411	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N410/N411	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N410/N411	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N410/N411	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N410/N411	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N410/N411	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N410/N411	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N410/N411	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N410/N411	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N410/N411	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N411/N412	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N411/N412	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N411/N412	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N411/N412	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N411/N412	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N411/N412	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N411/N412	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N411/N412	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N411/N412	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N411/N412	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N411/N412	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N411/N412	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N412/N413	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N412/N413	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N412/N413	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N412/N413	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N412/N413	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N412/N413	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N412/N413	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N412/N413	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N412/N413	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N412/N413	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N412/N413	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N412/N413	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N413/N414	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N413/N414	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N413/N414	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N413/N414	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N413/N414	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N413/N414	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N413/N414	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N413/N414	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N413/N414	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N413/N414	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N413/N414	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N413/N414	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N414/N415	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N414/N415	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N414/N415	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N414/N415	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N414/N415	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N414/N415	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N414/N415	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N414/N415	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N414/N415	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N414/N415	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N414/N415	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N414/N415	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N415/N416	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N415/N416	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N415/N416	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N415/N416	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N415/N416	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N415/N416	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N415/N416	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N415/N416	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N415/N416	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N415/N416	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N415/N416	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N415/N416	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N416/N417	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N416/N417	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N416/N417	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N416/N417	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N416/N417	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N416/N417	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N416/N417	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N416/N417	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N416/N417	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N416/N417	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N416/N417	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N416/N417	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N417/N418	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N417/N418	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N417/N418	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N417/N418	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N417/N418	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N417/N418	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N417/N418	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N417/N418	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N417/N418	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N417/N418	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N417/N418	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N417/N418	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N418/N419	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N418/N419	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N418/N419	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N418/N419	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N418/N419	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N418/N419	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N418/N419	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N418/N419	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N418/N419	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N418/N419	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N418/N419	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N418/N419	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N419/N420	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N419/N420	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N419/N420	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N419/N420	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N419/N420	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N419/N420	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N419/N420	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N419/N420	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N419/N420	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N419/N420	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N419/N420	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N419/N420	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N420/N421	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N420/N421	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N420/N421	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N420/N421	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N420/N421	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N420/N421	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N420/N421	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N420/N421	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N420/N421	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N420/N421	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N420/N421	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N420/N421	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N421/N422	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N421/N422	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N421/N422	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N421/N422	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N421/N422	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N421/N422	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N421/N422	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N421/N422	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N421/N422	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N421/N422	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N421/N422	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N421/N422	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N422/N423	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N422/N423	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N422/N423	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N422/N423	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N422/N423	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N422/N423	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N422/N423	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N422/N423	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N422/N423	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N422/N423	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N422/N423	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N422/N423	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N424/N425	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N424/N425	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N424/N425	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N424/N425	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N424/N425	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N424/N425	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N424/N425	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N424/N425	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N424/N425	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N424/N425	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N424/N425	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N424/N425	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N425/N426	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N425/N426	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N425/N426	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N425/N426	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N425/N426	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N425/N426	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N425/N426	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N425/N426	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N425/N426	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N425/N426	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N425/N426	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N425/N426	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N426/N427	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N426/N427	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N426/N427	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N426/N427	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N426/N427	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N426/N427	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N426/N427	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N426/N427	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N426/N427	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N426/N427	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N426/N427	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N426/N427	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N427/N428	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N427/N428	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N427/N428	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N427/N428	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N427/N428	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N427/N428	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N427/N428	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N427/N428	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N427/N428	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N427/N428	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N427/N428	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N427/N428	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N428/N429	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N428/N429	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N428/N429	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N428/N429	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N428/N429	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N428/N429	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N428/N429	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N428/N429	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N428/N429	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N428/N429	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N428/N429	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N428/N429	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N429/N430	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N429/N430	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N429/N430	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N429/N430	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N429/N430	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N429/N430	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N429/N430	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N429/N430	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N429/N430	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N429/N430	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N429/N430	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N429/N430	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N430/N431	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N430/N431	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N430/N431	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N430/N431	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N430/N431	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N430/N431	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N430/N431	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N430/N431	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N430/N431	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N430/N431	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N430/N431	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N430/N431	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N431/N432	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N431/N432	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N431/N432	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N431/N432	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N431/N432	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N431/N432	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N431/N432	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N431/N432	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N431/N432	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N431/N432	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N431/N432	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N431/N432	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N432/N433	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N432/N433	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N432/N433	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N432/N433	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N432/N433	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N432/N433	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N432/N433	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N432/N433	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N432/N433	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N432/N433	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N432/N433	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N432/N433	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N433/N434	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N433/N434	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N433/N434	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N433/N434	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N433/N434	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N433/N434	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N433/N434	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N433/N434	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N433/N434	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N433/N434	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N433/N434	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N433/N434	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N434/N435	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N434/N435	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N434/N435	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N434/N435	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N434/N435	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N434/N435	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N434/N435	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N434/N435	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N434/N435	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N434/N435	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N434/N435	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N434/N435	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N435/N436	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N435/N436	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N435/N436	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N435/N436	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N435/N436	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N435/N436	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N435/N436	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N435/N436	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N435/N436	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N435/N436	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N435/N436	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N435/N436	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N436/N437	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N436/N437	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N436/N437	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N436/N437	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N436/N437	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N436/N437	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N436/N437	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N436/N437	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N436/N437	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N436/N437	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N436/N437	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N436/N437	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N437/N438	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N437/N438	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N437/N438	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N437/N438	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N437/N438	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N437/N438	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N437/N438	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N437/N438	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N437/N438	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N437/N438	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N437/N438	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N437/N438	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N438/N439	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N438/N439	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N438/N439	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N438/N439	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N438/N439	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N438/N439	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N438/N439	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N438/N439	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N438/N439	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N438/N439	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N438/N439	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N438/N439	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N439/N440	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N439/N440	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N439/N440	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N439/N440	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N439/N440	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N439/N440	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N439/N440	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N439/N440	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N439/N440	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N439/N440	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N439/N440	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N439/N440	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N440/N441	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N440/N441	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N440/N441	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N440/N441	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N440/N441	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N440/N441	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N440/N441	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N440/N441	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N440/N441	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N440/N441	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N440/N441	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N440/N441	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N441/N442	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N441/N442	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N441/N442	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N441/N442	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N441/N442	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N441/N442	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N441/N442	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N441/N442	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N441/N442	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N441/N442	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N441/N442	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N441/N442	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N442/N443	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N442/N443	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N442/N443	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N442/N443	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N442/N443	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N442/N443	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N442/N443	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N442/N443	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N442/N443	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N442/N443	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N442/N443	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N442/N443	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N443/N444	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N443/N444	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N443/N444	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N443/N444	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N443/N444	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N443/N444	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N443/N444	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N443/N444	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N443/N444	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N443/N444	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N443/N444	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N443/N444	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N444/N445	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N444/N445	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N444/N445	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N444/N445	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N444/N445	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N444/N445	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N444/N445	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N444/N445	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N444/N445	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N444/N445	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N444/N445	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N444/N445	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N445/N446	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N445/N446	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N445/N446	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N445/N446	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N445/N446	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N445/N446	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N445/N446	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N445/N446	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N445/N446	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N445/N446	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N445/N446	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N445/N446	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N447/N448	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N447/N448	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N447/N448	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N447/N448	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N447/N448	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N447/N448	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N447/N448	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N447/N448	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N447/N448	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N447/N448	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N447/N448	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N447/N448	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N448/N449	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N448/N449	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N448/N449	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N448/N449	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N448/N449	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N448/N449	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N448/N449	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N448/N449	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N448/N449	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N448/N449	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N448/N449	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N448/N449	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N449/N450	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N449/N450	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N449/N450	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N449/N450	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N449/N450	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N449/N450	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N449/N450	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N449/N450	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N449/N450	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N449/N450	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N449/N450	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N449/N450	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N450/N451	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N450/N451	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N450/N451	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N450/N451	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N450/N451	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N450/N451	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N450/N451	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N450/N451	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N450/N451	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N450/N451	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N450/N451	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N450/N451	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N451/N452	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N451/N452	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N451/N452	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N451/N452	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N451/N452	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N451/N452	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N451/N452	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N451/N452	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N451/N452	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N451/N452	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N451/N452	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N451/N452	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N452/N453	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N452/N453	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N452/N453	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N452/N453	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N452/N453	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N452/N453	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N452/N453	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N452/N453	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N452/N453	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N452/N453	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N452/N453	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N452/N453	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N453/N454	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N453/N454	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N453/N454	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N453/N454	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N453/N454	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N453/N454	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N453/N454	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N453/N454	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N453/N454	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N453/N454	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N453/N454	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N453/N454	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N454/N455	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N454/N455	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N454/N455	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N454/N455	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N454/N455	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N454/N455	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N454/N455	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N454/N455	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N454/N455	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N454/N455	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N454/N455	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N454/N455	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N455/N456	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N455/N456	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N455/N456	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N455/N456	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N455/N456	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N455/N456	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N455/N456	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N455/N456	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N455/N456	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N455/N456	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N455/N456	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N455/N456	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N456/N457	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N456/N457	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N456/N457	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N456/N457	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N456/N457	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N456/N457	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N456/N457	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N456/N457	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N456/N457	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N456/N457	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N456/N457	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N456/N457	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N457/N458	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N457/N458	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N457/N458	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N457/N458	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N457/N458	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N457/N458	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N457/N458	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N457/N458	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N457/N458	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N457/N458	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N457/N458	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N457/N458	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N458/N459	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N458/N459	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N458/N459	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N458/N459	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N458/N459	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N458/N459	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N458/N459	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N458/N459	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N458/N459	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N458/N459	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N458/N459	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N458/N459	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N459/N460	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N459/N460	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N459/N460	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N459/N460	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N459/N460	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N459/N460	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N459/N460	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N459/N460	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N459/N460	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N459/N460	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N459/N460	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N459/N460	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N460/N461	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N460/N461	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N460/N461	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N460/N461	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N460/N461	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N460/N461	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N460/N461	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N460/N461	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N460/N461	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N460/N461	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N460/N461	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N460/N461	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N461/N462	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N461/N462	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N461/N462	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N461/N462	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N461/N462	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N461/N462	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N461/N462	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N461/N462	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N461/N462	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N461/N462	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N461/N462	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N461/N462	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N462/N463	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N462/N463	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N462/N463	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N462/N463	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N462/N463	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N462/N463	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N462/N463	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N462/N463	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N462/N463	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N462/N463	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N462/N463	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N462/N463	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N463/N464	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N463/N464	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N463/N464	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N463/N464	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N463/N464	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N463/N464	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N463/N464	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N463/N464	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N463/N464	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N463/N464	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N463/N464	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N463/N464	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N464/N465	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N464/N465	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N464/N465	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N464/N465	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N464/N465	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N464/N465	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N464/N465	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N464/N465	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N464/N465	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N464/N465	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N464/N465	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N464/N465	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N465/N466	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N465/N466	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N465/N466	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N465/N466	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N465/N466	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N465/N466	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N465/N466	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N465/N466	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N465/N466	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N465/N466	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N465/N466	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N465/N466	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N466/N467	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N466/N467	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N466/N467	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N466/N467	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N466/N467	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N466/N467	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N466/N467	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N466/N467	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N466/N467	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N466/N467	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N466/N467	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N466/N467	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N467/N468	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N467/N468	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N467/N468	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N467/N468	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N467/N468	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N467/N468	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N467/N468	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N467/N468	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N467/N468	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N467/N468	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N467/N468	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N467/N468	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N468/N469	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N468/N469	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N468/N469	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N468/N469	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N468/N469	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N468/N469	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N468/N469	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N468/N469	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N468/N469	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N468/N469	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N468/N469	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N468/N469	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N470/N471	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N470/N471	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N470/N471	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N470/N471	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N470/N471	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N470/N471	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N470/N471	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N470/N471	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N470/N471	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N470/N471	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N470/N471	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N470/N471	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N471/N472	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N471/N472	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N471/N472	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N471/N472	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N471/N472	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N471/N472	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N471/N472	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N471/N472	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N471/N472	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N471/N472	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N471/N472	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N471/N472	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N472/N473	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N472/N473	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N472/N473	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N472/N473	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N472/N473	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N472/N473	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N472/N473	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N472/N473	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N472/N473	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N472/N473	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N472/N473	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N472/N473	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N473/N474	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N473/N474	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N473/N474	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N473/N474	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N473/N474	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N473/N474	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N473/N474	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N473/N474	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N473/N474	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N473/N474	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N473/N474	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N473/N474	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N474/N475	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N474/N475	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N474/N475	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N474/N475	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N474/N475	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N474/N475	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N474/N475	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N474/N475	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N474/N475	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N474/N475	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N474/N475	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N474/N475	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N475/N476	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N475/N476	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N475/N476	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N475/N476	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N475/N476	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N475/N476	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N475/N476	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N475/N476	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N475/N476	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N475/N476	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N475/N476	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N475/N476	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N476/N477	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N476/N477	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N476/N477	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N476/N477	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N476/N477	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N476/N477	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N476/N477	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N476/N477	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N476/N477	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N476/N477	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N476/N477	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N476/N477	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N477/N478	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N477/N478	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N477/N478	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N477/N478	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N477/N478	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N477/N478	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N477/N478	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N477/N478	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N477/N478	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N477/N478	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N477/N478	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N477/N478	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N478/N479	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N478/N479	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N478/N479	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N478/N479	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N478/N479	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N478/N479	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N478/N479	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N478/N479	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N478/N479	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N478/N479	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N478/N479	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N478/N479	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N479/N480	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N479/N480	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N479/N480	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N479/N480	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N479/N480	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N479/N480	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N479/N480	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N479/N480	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N479/N480	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N479/N480	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N479/N480	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N479/N480	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N480/N481	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N480/N481	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N480/N481	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N480/N481	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N480/N481	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N480/N481	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N480/N481	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N480/N481	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N480/N481	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N480/N481	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N480/N481	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N480/N481	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N481/N482	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N481/N482	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N481/N482	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N481/N482	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N481/N482	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N481/N482	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N481/N482	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N481/N482	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N481/N482	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N481/N482	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N481/N482	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N481/N482	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N482/N483	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N482/N483	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N482/N483	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N482/N483	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N482/N483	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N482/N483	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N482/N483	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N482/N483	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N482/N483	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N482/N483	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N482/N483	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N482/N483	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N483/N484	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N483/N484	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N483/N484	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N483/N484	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N483/N484	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N483/N484	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N483/N484	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N483/N484	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N483/N484	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N483/N484	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N483/N484	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N483/N484	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N484/N485	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N484/N485	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N484/N485	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N484/N485	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N484/N485	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N484/N485	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N484/N485	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N484/N485	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N484/N485	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N484/N485	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N484/N485	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N484/N485	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N485/N486	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N485/N486	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N485/N486	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N485/N486	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N485/N486	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N485/N486	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N485/N486	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N485/N486	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N485/N486	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N485/N486	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N485/N486	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N485/N486	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N486/N487	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N486/N487	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N486/N487	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N486/N487	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N486/N487	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N486/N487	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N486/N487	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N486/N487	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N486/N487	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N486/N487	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N486/N487	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N486/N487	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N487/N488	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N487/N488	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N487/N488	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N487/N488	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N487/N488	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N487/N488	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N487/N488	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N487/N488	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N487/N488	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N487/N488	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N487/N488	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N487/N488	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N488/N489	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N488/N489	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N488/N489	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N488/N489	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N488/N489	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N488/N489	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N488/N489	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N488/N489	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N488/N489	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N488/N489	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N488/N489	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N488/N489	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N489/N490	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N489/N490	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N489/N490	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N489/N490	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N489/N490	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N489/N490	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N489/N490	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N489/N490	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N489/N490	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N489/N490	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N489/N490	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N489/N490	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N490/N491	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N490/N491	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N490/N491	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N490/N491	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N490/N491	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N490/N491	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N490/N491	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N490/N491	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N490/N491	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N490/N491	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N490/N491	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N490/N491	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N491/N492	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N491/N492	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N491/N492	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N491/N492	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N491/N492	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N491/N492	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N491/N492	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N491/N492	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N491/N492	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N491/N492	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N491/N492	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N491/N492	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N493/N494	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N493/N494	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N493/N494	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N493/N494	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N493/N494	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N493/N494	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N493/N494	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N493/N494	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N493/N494	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N493/N494	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N493/N494	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N493/N494	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N494/N495	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N494/N495	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N494/N495	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N494/N495	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N494/N495	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N494/N495	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N494/N495	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N494/N495	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N494/N495	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N494/N495	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N494/N495	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N494/N495	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N495/N496	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N495/N496	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N495/N496	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N495/N496	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N495/N496	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N495/N496	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N495/N496	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N495/N496	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N495/N496	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N495/N496	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N495/N496	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N495/N496	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N496/N497	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N496/N497	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N496/N497	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N496/N497	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N496/N497	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N496/N497	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N496/N497	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N496/N497	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N496/N497	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N496/N497	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N496/N497	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N496/N497	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N497/N498	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N497/N498	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N497/N498	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N497/N498	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N497/N498	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N497/N498	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N497/N498	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N497/N498	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N497/N498	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N497/N498	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N497/N498	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N497/N498	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N498/N499	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N498/N499	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N498/N499	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N498/N499	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N498/N499	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N498/N499	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N498/N499	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N498/N499	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N498/N499	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N498/N499	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N498/N499	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N498/N499	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N499/N500	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N499/N500	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N499/N500	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N499/N500	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N499/N500	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N499/N500	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N499/N500	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N499/N500	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N499/N500	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N499/N500	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N499/N500	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N499/N500	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N500/N501	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N500/N501	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N500/N501	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N500/N501	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N500/N501	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N500/N501	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N500/N501	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N500/N501	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N500/N501	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N500/N501	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N500/N501	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N500/N501	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N501/N502	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N501/N502	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N501/N502	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N501/N502	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N501/N502	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N501/N502	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N501/N502	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N501/N502	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N501/N502	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N501/N502	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N501/N502	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N501/N502	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N502/N503	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N502/N503	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N502/N503	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N502/N503	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N502/N503	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N502/N503	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N502/N503	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N502/N503	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N502/N503	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N502/N503	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N502/N503	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N502/N503	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N503/N504	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N503/N504	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N503/N504	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N503/N504	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N503/N504	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N503/N504	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N503/N504	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N503/N504	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N503/N504	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N503/N504	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N503/N504	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N503/N504	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N504/N505	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N504/N505	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N504/N505	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N504/N505	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N504/N505	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N504/N505	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N504/N505	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N504/N505	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N504/N505	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N504/N505	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N504/N505	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N504/N505	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N505/N506	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N505/N506	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N505/N506	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N505/N506	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N505/N506	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N505/N506	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N505/N506	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N505/N506	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N505/N506	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N505/N506	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N505/N506	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N505/N506	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N506/N507	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N506/N507	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N506/N507	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N506/N507	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N506/N507	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N506/N507	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N506/N507	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N506/N507	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N506/N507	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N506/N507	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N506/N507	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N506/N507	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N507/N508	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N507/N508	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N507/N508	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N507/N508	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N507/N508	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N507/N508	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N507/N508	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N507/N508	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N507/N508	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N507/N508	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N507/N508	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N507/N508	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N508/N509	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N508/N509	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N508/N509	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N508/N509	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N508/N509	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N508/N509	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N508/N509	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N508/N509	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N508/N509	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N508/N509	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N508/N509	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N508/N509	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N509/N510	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N509/N510	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N509/N510	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N509/N510	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N509/N510	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N509/N510	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N509/N510	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N509/N510	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N509/N510	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N509/N510	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N509/N510	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N509/N510	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N510/N511	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N510/N511	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N510/N511	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N510/N511	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N510/N511	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N510/N511	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N510/N511	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N510/N511	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N510/N511	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N510/N511	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N510/N511	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N510/N511	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N511/N512	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N511/N512	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N511/N512	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N511/N512	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N511/N512	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N511/N512	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N511/N512	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N511/N512	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N511/N512	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N511/N512	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N511/N512	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N511/N512	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N512/N513	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N512/N513	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N512/N513	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N512/N513	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N512/N513	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N512/N513	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N512/N513	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N512/N513	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N512/N513	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N512/N513	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N512/N513	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N512/N513	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N513/N514	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N513/N514	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N513/N514	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N513/N514	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N513/N514	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N513/N514	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N513/N514	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N513/N514	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N513/N514	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N513/N514	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N513/N514	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N513/N514	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N514/N515	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N514/N515	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N514/N515	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N514/N515	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N514/N515	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N514/N515	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N514/N515	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N514/N515	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N514/N515	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N514/N515	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N514/N515	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N514/N515	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N516/N517	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N516/N517	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N516/N517	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N516/N517	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N516/N517	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N516/N517	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N516/N517	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N516/N517	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N516/N517	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N516/N517	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N516/N517	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N516/N517	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N517/N518	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N517/N518	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N517/N518	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N517/N518	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N517/N518	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N517/N518	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N517/N518	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N517/N518	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N517/N518	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N517/N518	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N517/N518	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N517/N518	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N518/N519	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N518/N519	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N518/N519	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N518/N519	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N518/N519	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N518/N519	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N518/N519	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N518/N519	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N518/N519	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N518/N519	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N518/N519	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N518/N519	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N519/N520	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N519/N520	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N519/N520	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N519/N520	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N519/N520	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N519/N520	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N519/N520	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N519/N520	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N519/N520	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N519/N520	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N519/N520	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N519/N520	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N520/N521	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N520/N521	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N520/N521	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N520/N521	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N520/N521	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N520/N521	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N520/N521	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N520/N521	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N520/N521	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N520/N521	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N520/N521	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N520/N521	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N521/N522	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N521/N522	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N521/N522	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N521/N522	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N521/N522	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N521/N522	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N521/N522	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N521/N522	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N521/N522	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N521/N522	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N521/N522	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N521/N522	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N522/N523	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N522/N523	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N522/N523	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N522/N523	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N522/N523	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N522/N523	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N522/N523	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N522/N523	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N522/N523	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N522/N523	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N522/N523	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N522/N523	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N523/N524	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N523/N524	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N523/N524	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N523/N524	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N523/N524	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N523/N524	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N523/N524	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N523/N524	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N523/N524	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N523/N524	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N523/N524	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N523/N524	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N524/N525	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N524/N525	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N524/N525	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N524/N525	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N524/N525	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N524/N525	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N524/N525	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N524/N525	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N524/N525	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N524/N525	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N524/N525	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N524/N525	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N525/N526	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N525/N526	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N525/N526	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N525/N526	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N525/N526	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N525/N526	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N525/N526	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N525/N526	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N525/N526	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N525/N526	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N525/N526	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N525/N526	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N526/N527	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N526/N527	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N526/N527	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N526/N527	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N526/N527	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N526/N527	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N526/N527	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N526/N527	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N526/N527	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N526/N527	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N526/N527	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N526/N527	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N527/N528	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N527/N528	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N527/N528	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N527/N528	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N527/N528	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N527/N528	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N527/N528	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N527/N528	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N527/N528	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N527/N528	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N527/N528	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N527/N528	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N528/N529	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N528/N529	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N528/N529	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N528/N529	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N528/N529	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N528/N529	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N528/N529	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N528/N529	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N528/N529	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N528/N529	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N528/N529	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N528/N529	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N529/N530	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N529/N530	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N529/N530	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N529/N530	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N529/N530	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N529/N530	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N529/N530	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N529/N530	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N529/N530	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N529/N530	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N529/N530	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N529/N530	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N530/N531	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N530/N531	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N530/N531	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N530/N531	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N530/N531	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N530/N531	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N530/N531	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N530/N531	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N530/N531	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N530/N531	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N530/N531	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N530/N531	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N531/N532	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N531/N532	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N531/N532	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N531/N532	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N531/N532	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N531/N532	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N531/N532	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N531/N532	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N531/N532	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N531/N532	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N531/N532	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N531/N532	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N532/N533	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N532/N533	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N532/N533	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N532/N533	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N532/N533	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N532/N533	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N532/N533	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N532/N533	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N532/N533	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N532/N533	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N532/N533	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N532/N533	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N533/N534	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N533/N534	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N533/N534	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N533/N534	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N533/N534	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N533/N534	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N533/N534	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N533/N534	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N533/N534	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N533/N534	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N533/N534	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N533/N534	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N534/N535	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N534/N535	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N534/N535	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N534/N535	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N534/N535	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N534/N535	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N534/N535	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N534/N535	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N534/N535	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N534/N535	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N534/N535	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N534/N535	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N535/N536	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N535/N536	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N535/N536	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N535/N536	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N535/N536	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N535/N536	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N535/N536	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N535/N536	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N535/N536	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N535/N536	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N535/N536	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N535/N536	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N536/N537	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N536/N537	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N536/N537	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N536/N537	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N536/N537	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N536/N537	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N536/N537	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N536/N537	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N536/N537	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N536/N537	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N536/N537	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N536/N537	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N537/N538	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N537/N538	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N537/N538	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N537/N538	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N537/N538	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N537/N538	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N537/N538	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N537/N538	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N537/N538	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N537/N538	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N537/N538	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N537/N538	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N539/N540	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N539/N540	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N539/N540	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N539/N540	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N539/N540	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N539/N540	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N539/N540	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N539/N540	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N539/N540	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N539/N540	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N539/N540	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N539/N540	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N540/N541	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N540/N541	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N540/N541	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N540/N541	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N540/N541	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N540/N541	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N540/N541	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N540/N541	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N540/N541	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N540/N541	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N540/N541	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N540/N541	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N541/N542	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N541/N542	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N541/N542	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N541/N542	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N541/N542	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N541/N542	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N541/N542	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N541/N542	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N541/N542	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N541/N542	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N541/N542	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N541/N542	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N542/N543	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N542/N543	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N542/N543	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N542/N543	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N542/N543	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N542/N543	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N542/N543	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N542/N543	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N542/N543	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N542/N543	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N542/N543	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N542/N543	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N543/N544	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N543/N544	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N543/N544	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N543/N544	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N543/N544	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N543/N544	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N543/N544	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N543/N544	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N543/N544	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N543/N544	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N543/N544	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N543/N544	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N544/N545	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N544/N545	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N544/N545	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N544/N545	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N544/N545	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N544/N545	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N544/N545	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N544/N545	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N544/N545	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N544/N545	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N544/N545	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N544/N545	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N545/N546	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N545/N546	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N545/N546	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N545/N546	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N545/N546	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N545/N546	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N545/N546	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N545/N546	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N545/N546	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N545/N546	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N545/N546	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N545/N546	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N546/N547	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N546/N547	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N546/N547	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N546/N547	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N546/N547	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N546/N547	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N546/N547	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N546/N547	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N546/N547	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N546/N547	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N546/N547	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N546/N547	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N547/N548	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N547/N548	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N547/N548	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N547/N548	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N547/N548	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N547/N548	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N547/N548	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N547/N548	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N547/N548	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N547/N548	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N547/N548	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N547/N548	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N548/N549	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N548/N549	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N548/N549	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N548/N549	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N548/N549	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N548/N549	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N548/N549	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N548/N549	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N548/N549	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N548/N549	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N548/N549	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N548/N549	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N549/N550	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N549/N550	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N549/N550	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N549/N550	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N549/N550	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N549/N550	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N549/N550	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N549/N550	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N549/N550	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N549/N550	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N549/N550	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N549/N550	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N550/N551	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N550/N551	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N550/N551	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N550/N551	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N550/N551	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N550/N551	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N550/N551	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N550/N551	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N550/N551	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N550/N551	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N550/N551	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N550/N551	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N551/N552	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N551/N552	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N551/N552	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N551/N552	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N551/N552	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N551/N552	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N551/N552	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N551/N552	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N551/N552	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N551/N552	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N551/N552	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N551/N552	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N552/N553	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N552/N553	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N552/N553	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N552/N553	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N552/N553	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N552/N553	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N552/N553	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N552/N553	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N552/N553	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N552/N553	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N552/N553	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N552/N553	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N553/N554	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N553/N554	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N553/N554	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N553/N554	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N553/N554	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N553/N554	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N553/N554	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N553/N554	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N553/N554	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N553/N554	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N553/N554	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N553/N554	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N554/N555	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N554/N555	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N554/N555	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N554/N555	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N554/N555	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N554/N555	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N554/N555	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N554/N555	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N554/N555	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N554/N555	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N554/N555	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N554/N555	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N555/N556	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N555/N556	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N555/N556	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N555/N556	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N555/N556	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N555/N556	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N555/N556	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N555/N556	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N555/N556	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N555/N556	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N555/N556	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N555/N556	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N556/N557	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N556/N557	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N556/N557	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N556/N557	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N556/N557	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N556/N557	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N556/N557	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N556/N557	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N556/N557	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N556/N557	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N556/N557	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N556/N557	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N557/N558	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N557/N558	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N557/N558	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N557/N558	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N557/N558	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N557/N558	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N557/N558	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N557/N558	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N557/N558	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N557/N558	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N557/N558	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N557/N558	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N558/N559	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N558/N559	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N558/N559	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N558/N559	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N558/N559	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N558/N559	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N558/N559	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N558/N559	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N558/N559	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N558/N559	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N558/N559	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N558/N559	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N559/N560	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N559/N560	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N559/N560	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N559/N560	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N559/N560	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N559/N560	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N559/N560	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N559/N560	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N559/N560	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N559/N560	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N559/N560	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N559/N560	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N560/N561	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N560/N561	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N560/N561	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N560/N561	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N560/N561	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N560/N561	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N560/N561	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N560/N561	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N560/N561	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N560/N561	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N560/N561	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N560/N561	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N562/N563	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N562/N563	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N562/N563	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N562/N563	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N562/N563	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N562/N563	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N562/N563	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N562/N563	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N562/N563	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N562/N563	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N562/N563	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N562/N563	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N563/N564	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N563/N564	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N563/N564	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N563/N564	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N563/N564	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N563/N564	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N563/N564	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N563/N564	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N563/N564	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N563/N564	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N563/N564	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N563/N564	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N564/N565	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N564/N565	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N564/N565	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N564/N565	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N564/N565	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N564/N565	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N564/N565	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N564/N565	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N564/N565	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N564/N565	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N564/N565	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N564/N565	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N565/N566	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N565/N566	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N565/N566	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N565/N566	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N565/N566	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N565/N566	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N565/N566	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N565/N566	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N565/N566	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N565/N566	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N565/N566	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N565/N566	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N566/N567	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N566/N567	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N566/N567	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N566/N567	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N566/N567	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N566/N567	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N566/N567	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N566/N567	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N566/N567	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N566/N567	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N566/N567	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N566/N567	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N567/N568	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N567/N568	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N567/N568	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N567/N568	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N567/N568	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N567/N568	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N567/N568	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N567/N568	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N567/N568	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N567/N568	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N567/N568	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N567/N568	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N568/N569	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N568/N569	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N568/N569	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N568/N569	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N568/N569	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N568/N569	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N568/N569	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N568/N569	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N568/N569	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N568/N569	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N568/N569	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N568/N569	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N569/N570	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N569/N570	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N569/N570	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N569/N570	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N569/N570	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N569/N570	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N569/N570	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N569/N570	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N569/N570	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N569/N570	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N569/N570	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N569/N570	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N570/N571	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N570/N571	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N570/N571	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N570/N571	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N570/N571	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N570/N571	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N570/N571	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N570/N571	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N570/N571	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N570/N571	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N570/N571	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N570/N571	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N571/N572	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N571/N572	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N571/N572	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N571/N572	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N571/N572	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N571/N572	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N571/N572	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N571/N572	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N571/N572	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N571/N572	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N571/N572	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N571/N572	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N572/N573	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N572/N573	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N572/N573	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N572/N573	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N572/N573	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N572/N573	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N572/N573	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N572/N573	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N572/N573	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N572/N573	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N572/N573	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N572/N573	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N573/N574	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N573/N574	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N573/N574	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N573/N574	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N573/N574	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N573/N574	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N573/N574	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N573/N574	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N573/N574	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N573/N574	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N573/N574	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N573/N574	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N574/N575	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N574/N575	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N574/N575	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N574/N575	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N574/N575	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N574/N575	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N574/N575	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N574/N575	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N574/N575	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N574/N575	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N574/N575	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N574/N575	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N575/N576	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N575/N576	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N575/N576	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N575/N576	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N575/N576	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N575/N576	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N575/N576	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N575/N576	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N575/N576	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N575/N576	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N575/N576	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N575/N576	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N576/N577	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N576/N577	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N576/N577	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N576/N577	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N576/N577	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N576/N577	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N576/N577	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N576/N577	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N576/N577	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N576/N577	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N576/N577	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N576/N577	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N577/N578	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N577/N578	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N577/N578	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N577/N578	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N577/N578	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N577/N578	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N577/N578	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N577/N578	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N577/N578	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N577/N578	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N577/N578	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N577/N578	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N578/N579	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N578/N579	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N578/N579	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N578/N579	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N578/N579	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N578/N579	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N578/N579	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N578/N579	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N578/N579	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N578/N579	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N578/N579	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N578/N579	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N579/N580	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N579/N580	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N579/N580	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N579/N580	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N579/N580	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N579/N580	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N579/N580	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N579/N580	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N579/N580	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N579/N580	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N579/N580	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N579/N580	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N580/N581	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N580/N581	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N580/N581	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N580/N581	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N580/N581	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N580/N581	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N580/N581	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N580/N581	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N580/N581	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N580/N581	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N580/N581	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N580/N581	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N581/N582	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N581/N582	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N581/N582	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N581/N582	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N581/N582	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N581/N582	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N581/N582	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N581/N582	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N581/N582	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N581/N582	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N581/N582	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N581/N582	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N582/N583	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N582/N583	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N582/N583	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N582/N583	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N582/N583	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N582/N583	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N582/N583	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N582/N583	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N582/N583	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N582/N583	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N582/N583	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N582/N583	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N583/N584	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N583/N584	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N583/N584	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N583/N584	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N583/N584	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N583/N584	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N583/N584	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N583/N584	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N583/N584	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N583/N584	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N583/N584	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N583/N584	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N585/N586	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N585/N586	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N585/N586	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N585/N586	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N585/N586	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N585/N586	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N585/N586	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N585/N586	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N585/N586	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N585/N586	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N585/N586	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N585/N586	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N586/N587	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N586/N587	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N586/N587	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N586/N587	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N586/N587	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N586/N587	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N586/N587	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N586/N587	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N586/N587	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N586/N587	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N586/N587	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N586/N587	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N587/N588	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N587/N588	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N587/N588	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N587/N588	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N587/N588	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N587/N588	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N587/N588	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N587/N588	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N587/N588	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N587/N588	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N587/N588	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N587/N588	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N588/N589	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N588/N589	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N588/N589	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N588/N589	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N588/N589	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N588/N589	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N588/N589	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N588/N589	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N588/N589	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N588/N589	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N588/N589	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N588/N589	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N589/N590	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N589/N590	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N589/N590	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N589/N590	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N589/N590	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N589/N590	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N589/N590	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N589/N590	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N589/N590	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N589/N590	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N589/N590	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N589/N590	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N590/N591	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N590/N591	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N590/N591	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N590/N591	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N590/N591	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N590/N591	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N590/N591	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N590/N591	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N590/N591	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N590/N591	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N590/N591	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N590/N591	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N591/N592	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N591/N592	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N591/N592	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N591/N592	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N591/N592	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N591/N592	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N591/N592	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N591/N592	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N591/N592	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N591/N592	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N591/N592	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N591/N592	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N592/N593	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N592/N593	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N592/N593	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N592/N593	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N592/N593	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N592/N593	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N592/N593	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N592/N593	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N592/N593	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N592/N593	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N592/N593	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N592/N593	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N593/N594	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N593/N594	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N593/N594	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N593/N594	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N593/N594	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N593/N594	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N593/N594	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N593/N594	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N593/N594	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N593/N594	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N593/N594	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N593/N594	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N594/N595	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N594/N595	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N594/N595	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N594/N595	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N594/N595	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N594/N595	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N594/N595	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N594/N595	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N594/N595	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N594/N595	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N594/N595	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N594/N595	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N595/N596	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N595/N596	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N595/N596	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N595/N596	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N595/N596	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N595/N596	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N595/N596	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N595/N596	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N595/N596	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N595/N596	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N595/N596	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N595/N596	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N596/N597	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N596/N597	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N596/N597	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N596/N597	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N596/N597	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N596/N597	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N596/N597	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N596/N597	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N596/N597	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N596/N597	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N596/N597	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N596/N597	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N597/N598	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N597/N598	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N597/N598	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N597/N598	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N597/N598	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N597/N598	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N597/N598	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N597/N598	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N597/N598	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N597/N598	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N597/N598	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N597/N598	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N598/N599	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N598/N599	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N598/N599	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N598/N599	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N598/N599	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N598/N599	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N598/N599	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N598/N599	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N598/N599	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N598/N599	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N598/N599	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N598/N599	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N599/N600	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N599/N600	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N599/N600	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N599/N600	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N599/N600	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N599/N600	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N599/N600	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N599/N600	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N599/N600	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N599/N600	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N599/N600	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N599/N600	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N600/N601	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N600/N601	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N600/N601	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N600/N601	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N600/N601	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N600/N601	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N600/N601	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N600/N601	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N600/N601	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N600/N601	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N600/N601	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N600/N601	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N601/N602	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N601/N602	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N601/N602	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N601/N602	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N601/N602	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N601/N602	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N601/N602	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N601/N602	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N601/N602	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N601/N602	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N601/N602	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N601/N602	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N602/N603	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N602/N603	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N602/N603	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N602/N603	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N602/N603	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N602/N603	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N602/N603	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N602/N603	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N602/N603	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N602/N603	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N602/N603	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N602/N603	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N603/N604	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N603/N604	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N603/N604	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N603/N604	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N603/N604	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N603/N604	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N603/N604	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N603/N604	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N603/N604	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N603/N604	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N603/N604	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N603/N604	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N604/N605	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N604/N605	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N604/N605	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N604/N605	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N604/N605	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N604/N605	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N604/N605	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N604/N605	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N604/N605	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N604/N605	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N604/N605	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N604/N605	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N605/N606	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N605/N606	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N605/N606	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N605/N606	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N605/N606	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N605/N606	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N605/N606	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N605/N606	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N605/N606	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N605/N606	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N605/N606	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N605/N606	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N606/N607	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N606/N607	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N606/N607	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N606/N607	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N606/N607	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N606/N607	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N606/N607	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N606/N607	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N606/N607	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N606/N607	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N606/N607	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N606/N607	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N608/N609	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N608/N609	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N608/N609	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N608/N609	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N608/N609	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N608/N609	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N608/N609	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N608/N609	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N608/N609	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N608/N609	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N608/N609	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N608/N609	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N609/N610	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N609/N610	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N609/N610	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N609/N610	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N609/N610	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N609/N610	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N609/N610	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N609/N610	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N609/N610	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N609/N610	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N609/N610	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N609/N610	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N610/N611	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N610/N611	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N610/N611	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N610/N611	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N610/N611	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N610/N611	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N610/N611	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N610/N611	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N610/N611	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N610/N611	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N610/N611	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N610/N611	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N611/N612	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N611/N612	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N611/N612	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N611/N612	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N611/N612	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N611/N612	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N611/N612	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N611/N612	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N611/N612	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N611/N612	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N611/N612	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N611/N612	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N612/N613	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N612/N613	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N612/N613	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N612/N613	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N612/N613	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N612/N613	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N612/N613	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N612/N613	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N612/N613	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N612/N613	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N612/N613	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N612/N613	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N613/N614	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N613/N614	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N613/N614	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N613/N614	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N613/N614	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N613/N614	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N613/N614	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N613/N614	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N613/N614	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N613/N614	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N613/N614	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N613/N614	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N614/N615	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N614/N615	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N614/N615	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N614/N615	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N614/N615	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N614/N615	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N614/N615	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N614/N615	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N614/N615	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N614/N615	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N614/N615	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N614/N615	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N615/N616	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N615/N616	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N615/N616	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N615/N616	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N615/N616	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N615/N616	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N615/N616	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N615/N616	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N615/N616	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N615/N616	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N615/N616	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N615/N616	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N616/N617	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N616/N617	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N616/N617	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N616/N617	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N616/N617	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N616/N617	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N616/N617	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N616/N617	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N616/N617	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N616/N617	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N616/N617	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N616/N617	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N617/N618	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N617/N618	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N617/N618	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N617/N618	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N617/N618	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N617/N618	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N617/N618	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N617/N618	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N617/N618	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N617/N618	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N617/N618	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N617/N618	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N618/N619	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N618/N619	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N618/N619	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N618/N619	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N618/N619	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N618/N619	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N618/N619	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N618/N619	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N618/N619	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N618/N619	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N618/N619	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N618/N619	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N619/N620	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N619/N620	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N619/N620	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N619/N620	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N619/N620	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N619/N620	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N619/N620	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N619/N620	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N619/N620	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N619/N620	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N619/N620	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N619/N620	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N620/N621	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N620/N621	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N620/N621	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N620/N621	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N620/N621	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N620/N621	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N620/N621	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N620/N621	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N620/N621	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N620/N621	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N620/N621	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N620/N621	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N621/N622	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N621/N622	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N621/N622	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N621/N622	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N621/N622	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N621/N622	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N621/N622	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N621/N622	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N621/N622	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N621/N622	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N621/N622	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N621/N622	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N622/N623	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N622/N623	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N622/N623	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N622/N623	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N622/N623	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N622/N623	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N622/N623	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N622/N623	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N622/N623	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N622/N623	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N622/N623	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N622/N623	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N623/N624	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N623/N624	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N623/N624	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N623/N624	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N623/N624	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N623/N624	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N623/N624	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N623/N624	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N623/N624	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N623/N624	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N623/N624	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N623/N624	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N624/N625	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N624/N625	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N624/N625	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N624/N625	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N624/N625	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N624/N625	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N624/N625	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N624/N625	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N624/N625	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N624/N625	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N624/N625	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N624/N625	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N625/N626	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N625/N626	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N625/N626	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N625/N626	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N625/N626	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N625/N626	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N625/N626	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N625/N626	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N625/N626	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N625/N626	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N625/N626	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N625/N626	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N626/N627	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N626/N627	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N626/N627	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N626/N627	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N626/N627	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N626/N627	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N626/N627	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N626/N627	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N626/N627	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N626/N627	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N626/N627	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N626/N627	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N627/N628	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N627/N628	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N627/N628	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N627/N628	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N627/N628	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N627/N628	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N627/N628	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N627/N628	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N627/N628	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N627/N628	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N627/N628	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N627/N628	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N628/N629	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N628/N629	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N628/N629	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N628/N629	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N628/N629	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N628/N629	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N628/N629	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N628/N629	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N628/N629	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N628/N629	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N628/N629	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N628/N629	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N629/N630	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N629/N630	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N629/N630	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N629/N630	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N629/N630	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N629/N630	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N629/N630	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N629/N630	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N629/N630	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N629/N630	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N629/N630	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N629/N630	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N631/N632	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N631/N632	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N631/N632	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N631/N632	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N631/N632	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N631/N632	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N631/N632	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N631/N632	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N631/N632	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N631/N632	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N631/N632	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N631/N632	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N632/N633	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N632/N633	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N632/N633	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N632/N633	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N632/N633	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N632/N633	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N632/N633	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N632/N633	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N632/N633	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N632/N633	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N632/N633	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N632/N633	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N633/N634	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N633/N634	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N633/N634	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N633/N634	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N633/N634	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N633/N634	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N633/N634	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N633/N634	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N633/N634	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N633/N634	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N633/N634	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N633/N634	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N634/N635	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N634/N635	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N634/N635	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N634/N635	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N634/N635	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N634/N635	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N634/N635	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N634/N635	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N634/N635	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N634/N635	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N634/N635	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N634/N635	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N635/N636	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N635/N636	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N635/N636	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N635/N636	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N635/N636	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N635/N636	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N635/N636	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N635/N636	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N635/N636	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N635/N636	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N635/N636	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N635/N636	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N636/N637	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N636/N637	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N636/N637	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N636/N637	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N636/N637	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N636/N637	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N636/N637	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N636/N637	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N636/N637	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N636/N637	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N636/N637	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N636/N637	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N637/N638	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N637/N638	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N637/N638	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N637/N638	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N637/N638	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N637/N638	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N637/N638	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N637/N638	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N637/N638	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N637/N638	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N637/N638	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N637/N638	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N638/N639	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N638/N639	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N638/N639	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N638/N639	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N638/N639	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N638/N639	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N638/N639	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N638/N639	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N638/N639	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N638/N639	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N638/N639	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N638/N639	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N639/N640	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N639/N640	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N639/N640	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N639/N640	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N639/N640	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N639/N640	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N639/N640	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N639/N640	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N639/N640	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N639/N640	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N639/N640	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N639/N640	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N640/N641	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N640/N641	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N640/N641	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N640/N641	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N640/N641	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N640/N641	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N640/N641	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N640/N641	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N640/N641	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N640/N641	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N640/N641	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N640/N641	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N641/N642	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N641/N642	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N641/N642	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N641/N642	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N641/N642	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N641/N642	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N641/N642	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N641/N642	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N641/N642	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N641/N642	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N641/N642	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N641/N642	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N642/N643	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N642/N643	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N642/N643	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N642/N643	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N642/N643	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N642/N643	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N642/N643	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N642/N643	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N642/N643	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N642/N643	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N642/N643	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N642/N643	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N643/N644	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N643/N644	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N643/N644	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N643/N644	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N643/N644	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N643/N644	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N643/N644	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N643/N644	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N643/N644	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N643/N644	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N643/N644	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N643/N644	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N644/N645	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N644/N645	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N644/N645	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N644/N645	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N644/N645	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N644/N645	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N644/N645	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N644/N645	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N644/N645	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N644/N645	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N644/N645	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N644/N645	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N645/N646	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N645/N646	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N645/N646	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N645/N646	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N645/N646	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N645/N646	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N645/N646	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N645/N646	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N645/N646	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N645/N646	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N645/N646	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N645/N646	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N646/N647	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N646/N647	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N646/N647	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N646/N647	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N646/N647	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N646/N647	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N646/N647	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N646/N647	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N646/N647	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N646/N647	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N646/N647	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N646/N647	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N647/N648	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N647/N648	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N647/N648	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N647/N648	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N647/N648	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N647/N648	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N647/N648	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N647/N648	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N647/N648	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N647/N648	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N647/N648	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N647/N648	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N648/N649	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N648/N649	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N648/N649	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N648/N649	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N648/N649	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N648/N649	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N648/N649	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N648/N649	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N648/N649	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N648/N649	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N648/N649	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N648/N649	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N649/N650	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N649/N650	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N649/N650	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N649/N650	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N649/N650	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N649/N650	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N649/N650	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N649/N650	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N649/N650	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N649/N650	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N649/N650	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N649/N650	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N650/N651	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N650/N651	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N650/N651	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N650/N651	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N650/N651	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N650/N651	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N650/N651	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N650/N651	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N650/N651	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N650/N651	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N650/N651	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N650/N651	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N651/N652	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N651/N652	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N651/N652	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N651/N652	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N651/N652	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N651/N652	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N651/N652	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N651/N652	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N651/N652	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N651/N652	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N651/N652	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N651/N652	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N652/N653	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N652/N653	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N652/N653	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N652/N653	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N652/N653	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N652/N653	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N652/N653	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N652/N653	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N652/N653	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N652/N653	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N652/N653	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N652/N653	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N654/N655	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N654/N655	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N654/N655	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N654/N655	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N654/N655	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N654/N655	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N654/N655	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N654/N655	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N654/N655	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N654/N655	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N654/N655	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N654/N655	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N655/N656	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N655/N656	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N655/N656	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N655/N656	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N655/N656	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N655/N656	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N655/N656	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N655/N656	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N655/N656	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N655/N656	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N655/N656	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N655/N656	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N656/N657	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N656/N657	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N656/N657	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N656/N657	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N656/N657	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N656/N657	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N656/N657	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N656/N657	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N656/N657	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N656/N657	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N656/N657	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N656/N657	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N657/N658	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N657/N658	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N657/N658	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N657/N658	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N657/N658	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N657/N658	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N657/N658	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N657/N658	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N657/N658	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N657/N658	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N657/N658	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N657/N658	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N658/N659	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N658/N659	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N658/N659	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N658/N659	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N658/N659	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N658/N659	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N658/N659	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N658/N659	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N658/N659	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N658/N659	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N658/N659	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N658/N659	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N659/N660	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N659/N660	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N659/N660	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N659/N660	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N659/N660	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N659/N660	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N659/N660	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N659/N660	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N659/N660	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N659/N660	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N659/N660	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N659/N660	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N660/N661	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N660/N661	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N660/N661	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N660/N661	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N660/N661	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N660/N661	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N660/N661	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N660/N661	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N660/N661	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N660/N661	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N660/N661	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N660/N661	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N661/N662	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N661/N662	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N661/N662	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N661/N662	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N661/N662	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N661/N662	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N661/N662	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N661/N662	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N661/N662	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N661/N662	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N661/N662	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N661/N662	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N662/N663	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N662/N663	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N662/N663	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N662/N663	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N662/N663	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N662/N663	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N662/N663	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N662/N663	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N662/N663	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N662/N663	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N662/N663	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N662/N663	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N663/N664	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N663/N664	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N663/N664	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N663/N664	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N663/N664	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N663/N664	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N663/N664	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N663/N664	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N663/N664	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N663/N664	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N663/N664	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N663/N664	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N664/N665	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N664/N665	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N664/N665	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N664/N665	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N664/N665	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N664/N665	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N664/N665	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N664/N665	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N664/N665	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N664/N665	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N664/N665	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N664/N665	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N665/N666	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N665/N666	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N665/N666	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N665/N666	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N665/N666	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N665/N666	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N665/N666	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N665/N666	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N665/N666	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N665/N666	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N665/N666	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N665/N666	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N666/N667	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N666/N667	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N666/N667	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N666/N667	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N666/N667	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N666/N667	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N666/N667	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N666/N667	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N666/N667	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N666/N667	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N666/N667	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N666/N667	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N667/N668	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N667/N668	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N667/N668	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N667/N668	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N667/N668	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N667/N668	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N667/N668	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N667/N668	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N667/N668	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N667/N668	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N667/N668	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N667/N668	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N668/N669	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N668/N669	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N668/N669	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N668/N669	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N668/N669	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N668/N669	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N668/N669	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N668/N669	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N668/N669	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N668/N669	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N668/N669	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N668/N669	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N669/N670	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N669/N670	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N669/N670	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N669/N670	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N669/N670	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N669/N670	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N669/N670	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N669/N670	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N669/N670	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N669/N670	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N669/N670	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N669/N670	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N670/N671	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N670/N671	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N670/N671	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N670/N671	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N670/N671	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N670/N671	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N670/N671	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N670/N671	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N670/N671	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N670/N671	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N670/N671	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N670/N671	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N671/N672	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N671/N672	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N671/N672	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N671/N672	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N671/N672	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N671/N672	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N671/N672	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N671/N672	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N671/N672	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N671/N672	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N671/N672	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N671/N672	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N672/N673	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N672/N673	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N672/N673	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N672/N673	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N672/N673	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N672/N673	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N672/N673	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N672/N673	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N672/N673	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N672/N673	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N672/N673	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N672/N673	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N673/N674	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N673/N674	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N673/N674	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N673/N674	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N673/N674	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N673/N674	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N673/N674	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N673/N674	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N673/N674	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N673/N674	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N673/N674	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N673/N674	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N674/N675	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N674/N675	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N674/N675	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N674/N675	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N674/N675	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N674/N675	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N674/N675	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N674/N675	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N674/N675	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N674/N675	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N674/N675	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N674/N675	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N675/N676	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N675/N676	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N675/N676	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N675/N676	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N675/N676	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N675/N676	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N675/N676	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N675/N676	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N675/N676	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N675/N676	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N675/N676	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N675/N676	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N677/N678	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N677/N678	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N677/N678	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N677/N678	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N677/N678	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N677/N678	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N677/N678	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N677/N678	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N677/N678	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N677/N678	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N677/N678	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N677/N678	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N678/N679	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N678/N679	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N678/N679	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N678/N679	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N678/N679	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N678/N679	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N678/N679	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N678/N679	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N678/N679	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N678/N679	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N678/N679	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N678/N679	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N679/N680	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N679/N680	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N679/N680	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N679/N680	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N679/N680	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N679/N680	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N679/N680	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N679/N680	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N679/N680	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N679/N680	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N679/N680	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N679/N680	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N680/N681	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N680/N681	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N680/N681	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N680/N681	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N680/N681	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N680/N681	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N680/N681	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N680/N681	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N680/N681	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N680/N681	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N680/N681	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N680/N681	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N681/N682	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N681/N682	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N681/N682	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N681/N682	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N681/N682	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N681/N682	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N681/N682	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N681/N682	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N681/N682	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N681/N682	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N681/N682	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N681/N682	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N682/N683	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N682/N683	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N682/N683	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N682/N683	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N682/N683	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N682/N683	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N682/N683	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N682/N683	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N682/N683	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N682/N683	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N682/N683	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N682/N683	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N683/N684	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N683/N684	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N683/N684	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N683/N684	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N683/N684	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N683/N684	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N683/N684	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N683/N684	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N683/N684	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N683/N684	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N683/N684	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N683/N684	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N684/N685	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N684/N685	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N684/N685	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N684/N685	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N684/N685	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N684/N685	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N684/N685	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N684/N685	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N684/N685	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N684/N685	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N684/N685	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N684/N685	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N685/N686	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N685/N686	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N685/N686	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N685/N686	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N685/N686	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N685/N686	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N685/N686	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N685/N686	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N685/N686	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N685/N686	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N685/N686	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N685/N686	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N686/N687	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N686/N687	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N686/N687	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N686/N687	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N686/N687	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N686/N687	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N686/N687	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N686/N687	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N686/N687	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N686/N687	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N686/N687	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N686/N687	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N687/N688	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N687/N688	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N687/N688	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N687/N688	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N687/N688	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N687/N688	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N687/N688	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N687/N688	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N687/N688	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N687/N688	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N687/N688	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N687/N688	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N688/N689	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N688/N689	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N688/N689	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N688/N689	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N688/N689	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N688/N689	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N688/N689	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N688/N689	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N688/N689	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N688/N689	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N688/N689	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N688/N689	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N689/N690	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N689/N690	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N689/N690	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N689/N690	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N689/N690	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N689/N690	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N689/N690	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N689/N690	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N689/N690	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N689/N690	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N689/N690	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N689/N690	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N690/N691	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N690/N691	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N690/N691	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N690/N691	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N690/N691	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N690/N691	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N690/N691	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N690/N691	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N690/N691	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N690/N691	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N690/N691	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N690/N691	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N691/N692	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N691/N692	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N691/N692	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N691/N692	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N691/N692	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N691/N692	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N691/N692	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N691/N692	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N691/N692	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N691/N692	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N691/N692	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N691/N692	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N692/N693	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N692/N693	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N692/N693	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N692/N693	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N692/N693	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N692/N693	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N692/N693	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N692/N693	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N692/N693	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N692/N693	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N692/N693	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N692/N693	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N693/N694	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N693/N694	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N693/N694	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N693/N694	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N693/N694	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N693/N694	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N693/N694	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N693/N694	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N693/N694	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N693/N694	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N693/N694	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N693/N694	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N694/N695	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N694/N695	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N694/N695	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N694/N695	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N694/N695	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N694/N695	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N694/N695	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N694/N695	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N694/N695	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N694/N695	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N694/N695	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N694/N695	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N695/N696	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N695/N696	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N695/N696	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N695/N696	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N695/N696	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N695/N696	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N695/N696	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N695/N696	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N695/N696	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N695/N696	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N695/N696	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N695/N696	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N696/N697	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N696/N697	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N696/N697	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N696/N697	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N696/N697	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N696/N697	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N696/N697	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N696/N697	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N696/N697	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N696/N697	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N696/N697	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N696/N697	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N697/N698	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N697/N698	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N697/N698	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N697/N698	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N697/N698	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N697/N698	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N697/N698	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N697/N698	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N697/N698	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N697/N698	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N697/N698	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N697/N698	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N698/N699	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N698/N699	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N698/N699	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N698/N699	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N698/N699	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N698/N699	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N698/N699	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N698/N699	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N698/N699	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N698/N699	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N698/N699	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N698/N699	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N700/N701	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N700/N701	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N700/N701	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N700/N701	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N700/N701	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N700/N701	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N700/N701	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N700/N701	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N700/N701	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N700/N701	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N700/N701	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N700/N701	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N701/N702	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N701/N702	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N701/N702	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N701/N702	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N701/N702	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N701/N702	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N701/N702	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N701/N702	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N701/N702	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N701/N702	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N701/N702	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N701/N702	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N702/N703	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N702/N703	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N702/N703	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N702/N703	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N702/N703	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N702/N703	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N702/N703	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N702/N703	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N702/N703	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N702/N703	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N702/N703	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N702/N703	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N703/N704	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N703/N704	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N703/N704	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N703/N704	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N703/N704	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N703/N704	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N703/N704	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N703/N704	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N703/N704	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N703/N704	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N703/N704	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N703/N704	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N704/N705	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N704/N705	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N704/N705	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N704/N705	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N704/N705	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N704/N705	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N704/N705	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N704/N705	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N704/N705	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N704/N705	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N704/N705	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N704/N705	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N705/N706	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N705/N706	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N705/N706	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N705/N706	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N705/N706	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N705/N706	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N705/N706	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N705/N706	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N705/N706	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N705/N706	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N705/N706	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N705/N706	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N706/N707	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N706/N707	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N706/N707	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N706/N707	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N706/N707	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N706/N707	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N706/N707	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N706/N707	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N706/N707	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N706/N707	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N706/N707	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N706/N707	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N707/N708	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N707/N708	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N707/N708	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N707/N708	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N707/N708	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N707/N708	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N707/N708	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N707/N708	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N707/N708	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N707/N708	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N707/N708	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N707/N708	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N708/N709	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N708/N709	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N708/N709	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N708/N709	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N708/N709	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N708/N709	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N708/N709	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N708/N709	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N708/N709	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N708/N709	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N708/N709	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N708/N709	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N709/N710	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N709/N710	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N709/N710	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N709/N710	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N709/N710	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N709/N710	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N709/N710	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N709/N710	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N709/N710	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N709/N710	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N709/N710	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N709/N710	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N710/N711	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N710/N711	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N710/N711	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N710/N711	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N710/N711	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N710/N711	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N710/N711	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N710/N711	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N710/N711	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N710/N711	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N710/N711	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N710/N711	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N711/N712	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N711/N712	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N711/N712	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N711/N712	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N711/N712	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N711/N712	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N711/N712	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N711/N712	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N711/N712	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N711/N712	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N711/N712	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N711/N712	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N712/N713	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N712/N713	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N712/N713	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N712/N713	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N712/N713	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N712/N713	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N712/N713	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N712/N713	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N712/N713	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N712/N713	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N712/N713	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N712/N713	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N713/N714	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N713/N714	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N713/N714	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N713/N714	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N713/N714	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N713/N714	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N713/N714	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N713/N714	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N713/N714	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N713/N714	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N713/N714	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N713/N714	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N714/N715	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N714/N715	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N714/N715	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N714/N715	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N714/N715	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N714/N715	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N714/N715	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N714/N715	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N714/N715	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N714/N715	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N714/N715	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N714/N715	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N715/N716	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N715/N716	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N715/N716	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N715/N716	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N715/N716	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N715/N716	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N715/N716	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N715/N716	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N715/N716	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N715/N716	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N715/N716	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N715/N716	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N716/N717	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N716/N717	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N716/N717	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N716/N717	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N716/N717	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N716/N717	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N716/N717	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N716/N717	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N716/N717	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N716/N717	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N716/N717	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N716/N717	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N717/N718	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N717/N718	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N717/N718	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N717/N718	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N717/N718	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N717/N718	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N717/N718	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N717/N718	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N717/N718	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N717/N718	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N717/N718	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N717/N718	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N718/N719	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N718/N719	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N718/N719	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N718/N719	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N718/N719	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N718/N719	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N718/N719	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N718/N719	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N718/N719	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N718/N719	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N718/N719	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N718/N719	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N719/N720	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N719/N720	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N719/N720	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N719/N720	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N719/N720	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N719/N720	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N719/N720	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N719/N720	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N719/N720	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N719/N720	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N719/N720	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N719/N720	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N720/N721	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N720/N721	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N720/N721	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N720/N721	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N720/N721	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N720/N721	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N720/N721	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N720/N721	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N720/N721	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N720/N721	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N720/N721	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N720/N721	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N721/N722	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N721/N722	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N721/N722	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N721/N722	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N721/N722	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N721/N722	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N721/N722	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N721/N722	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N721/N722	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N721/N722	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N721/N722	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N721/N722	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N723/N724	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N723/N724	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N723/N724	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N723/N724	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N723/N724	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N723/N724	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N723/N724	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N723/N724	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N723/N724	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N723/N724	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N723/N724	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N723/N724	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N724/N725	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N724/N725	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N724/N725	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N724/N725	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N724/N725	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N724/N725	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N724/N725	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N724/N725	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N724/N725	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N724/N725	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N724/N725	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N724/N725	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N725/N726	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N725/N726	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N725/N726	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N725/N726	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N725/N726	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N725/N726	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N725/N726	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N725/N726	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N725/N726	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N725/N726	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N725/N726	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N725/N726	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N726/N727	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N726/N727	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N726/N727	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N726/N727	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N726/N727	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N726/N727	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N726/N727	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N726/N727	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N726/N727	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N726/N727	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N726/N727	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N726/N727	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N727/N728	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N727/N728	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N727/N728	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N727/N728	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N727/N728	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N727/N728	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N727/N728	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N727/N728	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N727/N728	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N727/N728	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N727/N728	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N727/N728	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N728/N729	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N728/N729	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N728/N729	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N728/N729	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N728/N729	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N728/N729	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N728/N729	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N728/N729	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N728/N729	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N728/N729	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N728/N729	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N728/N729	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N729/N730	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N729/N730	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N729/N730	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N729/N730	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N729/N730	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N729/N730	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N729/N730	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N729/N730	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N729/N730	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N729/N730	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N729/N730	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N729/N730	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N730/N731	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N730/N731	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N730/N731	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N730/N731	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N730/N731	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N730/N731	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N730/N731	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N730/N731	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N730/N731	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N730/N731	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N730/N731	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N730/N731	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N731/N732	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N731/N732	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N731/N732	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N731/N732	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N731/N732	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N731/N732	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N731/N732	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N731/N732	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N731/N732	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N731/N732	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N731/N732	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N731/N732	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N732/N733	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N732/N733	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N732/N733	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N732/N733	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N732/N733	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N732/N733	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N732/N733	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N732/N733	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N732/N733	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N732/N733	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N732/N733	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N732/N733	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N733/N734	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N733/N734	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N733/N734	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N733/N734	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N733/N734	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N733/N734	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N733/N734	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N733/N734	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N733/N734	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N733/N734	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N733/N734	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N733/N734	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N734/N735	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N734/N735	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N734/N735	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N734/N735	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N734/N735	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N734/N735	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N734/N735	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N734/N735	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N734/N735	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N734/N735	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N734/N735	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N734/N735	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N735/N736	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N735/N736	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N735/N736	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N735/N736	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N735/N736	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N735/N736	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N735/N736	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N735/N736	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N735/N736	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N735/N736	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N735/N736	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N735/N736	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N736/N737	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N736/N737	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N736/N737	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N736/N737	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N736/N737	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N736/N737	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N736/N737	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N736/N737	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N736/N737	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N736/N737	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N736/N737	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N736/N737	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N737/N738	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N737/N738	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N737/N738	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N737/N738	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N737/N738	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N737/N738	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N737/N738	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N737/N738	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N737/N738	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N737/N738	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N737/N738	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N737/N738	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N738/N739	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N738/N739	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N738/N739	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N738/N739	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N738/N739	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N738/N739	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N738/N739	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N738/N739	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N738/N739	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N738/N739	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N738/N739	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N738/N739	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N739/N740	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N739/N740	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N739/N740	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N739/N740	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N739/N740	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N739/N740	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N739/N740	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N739/N740	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N739/N740	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N739/N740	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N739/N740	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N739/N740	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N740/N741	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N740/N741	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N740/N741	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N740/N741	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N740/N741	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N740/N741	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N740/N741	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N740/N741	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N740/N741	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N740/N741	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N740/N741	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N740/N741	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N741/N742	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N741/N742	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N741/N742	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N741/N742	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N741/N742	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N741/N742	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N741/N742	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N741/N742	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N741/N742	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N741/N742	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N741/N742	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N741/N742	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N742/N743	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N742/N743	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N742/N743	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N742/N743	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N742/N743	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N742/N743	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N742/N743	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N742/N743	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N742/N743	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N742/N743	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N742/N743	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N742/N743	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N743/N744	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N743/N744	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N743/N744	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N743/N744	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N743/N744	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N743/N744	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N743/N744	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N743/N744	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N743/N744	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N743/N744	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N743/N744	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N743/N744	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N744/N745	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N744/N745	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N744/N745	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N744/N745	V x+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N744/N745	V x+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N744/N745	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N744/N745	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N744/N745	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N744/N745	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N744/N745	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N744/N745	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N744/N745	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N746/N747	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N746/N747	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N746/N747	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N746/N747	V x+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N746/N747	V x+(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N746/N747	V x+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N746/N747	V x+(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N746/N747	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N746/N747	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N746/N747	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N746/N747	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N746/N747	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N746/N747	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N746/N747	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N747/N748	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N747/N748	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N747/N748	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N747/N748	V x+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N747/N748	V x+(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N747/N748	V x+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N747/N748	V x+(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N747/N748	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N747/N748	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N747/N748	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N747/N748	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N747/N748	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N747/N748	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N747/N748	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N748/N749	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N748/N749	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N748/N749	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N748/N749	V x+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N748/N749	V x+(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N748/N749	V x+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N748/N749	V x+(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N748/N749	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N748/N749	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N748/N749	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N748/N749	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N748/N749	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N748/N749	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N748/N749	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N749/N750	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N749/N750	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N749/N750	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N749/N750	V x+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N749/N750	V x+(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N749/N750	V x+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N749/N750	V x+(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N749/N750	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N749/N750	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N749/N750	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N749/N750	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N749/N750	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N749/N750	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N749/N750	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N750/N751	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N750/N751	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N750/N751	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N750/N751	V x+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N750/N751	V x+(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N750/N751	V x+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N750/N751	V x+(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N750/N751	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N750/N751	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N750/N751	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N750/N751	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N750/N751	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N750/N751	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N750/N751	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N751/N752	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N751/N752	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N751/N752	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N751/N752	V x+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N751/N752	V x+(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N751/N752	V x+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N751/N752	V x+(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N751/N752	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N751/N752	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N751/N752	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N751/N752	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N751/N752	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N751/N752	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N751/N752	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N752/N753	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N752/N753	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N752/N753	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N752/N753	V x+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N752/N753	V x+(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N752/N753	V x+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N752/N753	V x+(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N752/N753	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N752/N753	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N752/N753	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N752/N753	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N752/N753	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N752/N753	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N752/N753	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N753/N754	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N753/N754	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N753/N754	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N753/N754	V x+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N753/N754	V x+(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N753/N754	V x+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N753/N754	V x+(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N753/N754	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N753/N754	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N753/N754	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N753/N754	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N753/N754	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N753/N754	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N753/N754	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N754/N755	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N754/N755	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N754/N755	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N754/N755	V x+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N754/N755	V x+(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N754/N755	V x+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N754/N755	V x+(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N754/N755	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N754/N755	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N754/N755	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N754/N755	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N754/N755	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N754/N755	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N754/N755	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N755/N756	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N755/N756	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N755/N756	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N755/N756	V x+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N755/N756	V x+(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N755/N756	V x+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N755/N756	V x+(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N755/N756	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N755/N756	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N755/N756	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N755/N756	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N755/N756	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N755/N756	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N755/N756	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N756/N757	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N756/N757	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N756/N757	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N756/N757	V x+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N756/N757	V x+(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N756/N757	V x+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N756/N757	V x+(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N756/N757	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N756/N757	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N756/N757	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N756/N757	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N756/N757	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N756/N757	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N756/N757	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N757/N758	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N757/N758	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N757/N758	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N757/N758	V x+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N757/N758	V x+(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N757/N758	V x+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N757/N758	V x+(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N757/N758	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N757/N758	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N757/N758	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N757/N758	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N757/N758	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N757/N758	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N757/N758	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N758/N759	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N758/N759	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N758/N759	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N758/N759	V x+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N758/N759	V x+(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N758/N759	V x+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N758/N759	V x+(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N758/N759	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N758/N759	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N758/N759	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N758/N759	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N758/N759	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N758/N759	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N758/N759	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N759/N760	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N759/N760	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N759/N760	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N759/N760	V x+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N759/N760	V x+(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N759/N760	V x+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N759/N760	V x+(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N759/N760	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N759/N760	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N759/N760	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N759/N760	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N759/N760	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N759/N760	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N759/N760	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N760/N761	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N760/N761	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N760/N761	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N760/N761	V x+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N760/N761	V x+(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N760/N761	V x+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N760/N761	V x+(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N760/N761	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N760/N761	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N760/N761	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N760/N761	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N760/N761	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N760/N761	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N760/N761	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N761/N762	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N761/N762	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N761/N762	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N761/N762	V x+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N761/N762	V x+(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N761/N762	V x+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N761/N762	V x+(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N761/N762	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N761/N762	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N761/N762	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N761/N762	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N761/N762	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N761/N762	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N761/N762	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N762/N763	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N762/N763	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N762/N763	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N762/N763	V x+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N762/N763	V x+(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N762/N763	V x+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N762/N763	V x+(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N762/N763	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N762/N763	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N762/N763	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N762/N763	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N762/N763	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N762/N763	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N762/N763	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N763/N764	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N763/N764	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N763/N764	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N763/N764	V x+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N763/N764	V x+(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N763/N764	V x+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N763/N764	V x+(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N763/N764	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N763/N764	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N763/N764	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N763/N764	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N763/N764	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N763/N764	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N763/N764	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N764/N765	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N764/N765	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N764/N765	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N764/N765	V x+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N764/N765	V x+(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N764/N765	V x+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N764/N765	V x+(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N764/N765	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N764/N765	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N764/N765	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N764/N765	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N764/N765	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N764/N765	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N764/N765	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N765/N766	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N765/N766	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N765/N766	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N765/N766	V x+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N765/N766	V x+(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N765/N766	V x+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N765/N766	V x+(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N765/N766	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N765/N766	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N765/N766	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N765/N766	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N765/N766	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N765/N766	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N765/N766	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N766/N767	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N766/N767	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N766/N767	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N766/N767	V x+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N766/N767	V x+(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N766/N767	V x+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N766/N767	V x+(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N766/N767	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N766/N767	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N766/N767	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N766/N767	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N766/N767	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N766/N767	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N766/N767	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N767/N768	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N767/N768	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N767/N768	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N767/N768	V x+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N767/N768	V x+(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N767/N768	V x+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N767/N768	V x+(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N767/N768	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N767/N768	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N767/N768	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N767/N768	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N767/N768	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N767/N768	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N767/N768	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N769/N770	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N769/N770	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N769/N770	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N769/N770	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N769/N770	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N769/N770	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N769/N770	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N769/N770	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N769/N770	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N769/N770	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N769/N770	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N769/N770	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N770/N771	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N770/N771	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N770/N771	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N770/N771	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N770/N771	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N770/N771	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N770/N771	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N770/N771	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N770/N771	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N770/N771	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N770/N771	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N770/N771	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N771/N772	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N771/N772	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N771/N772	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N771/N772	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N771/N772	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N771/N772	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N771/N772	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N771/N772	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N771/N772	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N771/N772	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N771/N772	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N771/N772	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N772/N773	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N772/N773	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N772/N773	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N772/N773	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N772/N773	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N772/N773	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N772/N773	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N772/N773	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N772/N773	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N772/N773	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N772/N773	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N772/N773	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N773/N774	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N773/N774	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N773/N774	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N773/N774	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N773/N774	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N773/N774	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N773/N774	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N773/N774	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N773/N774	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N773/N774	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N773/N774	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N773/N774	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N774/N775	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N774/N775	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N774/N775	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N774/N775	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N774/N775	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N774/N775	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N774/N775	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N774/N775	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N774/N775	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N774/N775	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N774/N775	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N774/N775	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N775/N776	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N775/N776	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N775/N776	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N775/N776	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N775/N776	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N775/N776	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N775/N776	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N775/N776	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N775/N776	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N775/N776	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N775/N776	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N775/N776	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N776/N777	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N776/N777	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N776/N777	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N776/N777	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N776/N777	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N776/N777	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N776/N777	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N776/N777	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N776/N777	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N776/N777	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N776/N777	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N776/N777	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N777/N778	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N777/N778	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N777/N778	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N777/N778	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N777/N778	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N777/N778	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N777/N778	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N777/N778	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N777/N778	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N777/N778	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N777/N778	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N777/N778	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N778/N779	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N778/N779	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N778/N779	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N778/N779	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N778/N779	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N778/N779	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N778/N779	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N778/N779	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N778/N779	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N778/N779	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N778/N779	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N778/N779	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N779/N780	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N779/N780	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N779/N780	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N779/N780	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N779/N780	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N779/N780	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N779/N780	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N779/N780	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N779/N780	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N779/N780	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N779/N780	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N779/N780	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N780/N781	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N780/N781	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N780/N781	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N780/N781	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N780/N781	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N780/N781	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N780/N781	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N780/N781	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N780/N781	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N780/N781	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N780/N781	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N780/N781	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N781/N782	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N781/N782	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N781/N782	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N781/N782	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N781/N782	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N781/N782	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N781/N782	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N781/N782	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N781/N782	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N781/N782	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N781/N782	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N781/N782	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N782/N783	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N782/N783	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N782/N783	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N782/N783	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N782/N783	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N782/N783	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N782/N783	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N782/N783	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N782/N783	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N782/N783	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N782/N783	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N782/N783	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N783/N784	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N783/N784	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N783/N784	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N783/N784	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N783/N784	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N783/N784	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N783/N784	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N783/N784	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N783/N784	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N783/N784	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N783/N784	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N783/N784	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N784/N785	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N784/N785	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N784/N785	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N784/N785	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N784/N785	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N784/N785	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N784/N785	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N784/N785	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N784/N785	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N784/N785	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N784/N785	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N784/N785	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N785/N786	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N785/N786	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N785/N786	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N785/N786	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N785/N786	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N785/N786	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N785/N786	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N785/N786	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N785/N786	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N785/N786	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N785/N786	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N785/N786	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N786/N787	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N786/N787	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N786/N787	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N786/N787	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N786/N787	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N786/N787	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N786/N787	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N786/N787	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N786/N787	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N786/N787	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N786/N787	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N786/N787	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N787/N788	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N787/N788	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N787/N788	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N787/N788	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N787/N788	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N787/N788	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N787/N788	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N787/N788	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N787/N788	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N787/N788	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N787/N788	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N787/N788	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N788/N789	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N788/N789	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N788/N789	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N788/N789	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N788/N789	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N788/N789	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N788/N789	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N788/N789	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N788/N789	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N788/N789	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N788/N789	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N788/N789	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N789/N790	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N789/N790	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N789/N790	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N789/N790	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N789/N790	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N789/N790	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N789/N790	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N789/N790	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N789/N790	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N789/N790	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N789/N790	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N789/N790	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N790/N791	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N790/N791	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N790/N791	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N790/N791	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N790/N791	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N790/N791	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N790/N791	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N790/N791	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N790/N791	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N790/N791	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N790/N791	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N790/N791	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N792/N793	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N792/N793	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N792/N793	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N792/N793	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N792/N793	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N792/N793	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N792/N793	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N792/N793	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N792/N793	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N792/N793	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N792/N793	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N792/N793	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N793/N794	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N793/N794	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N793/N794	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N793/N794	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N793/N794	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N793/N794	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N793/N794	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N793/N794	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N793/N794	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N793/N794	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N793/N794	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N793/N794	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N794/N795	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N794/N795	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N794/N795	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N794/N795	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N794/N795	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N794/N795	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N794/N795	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N794/N795	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N794/N795	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N794/N795	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N794/N795	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N794/N795	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N795/N796	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N795/N796	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N795/N796	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N795/N796	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N795/N796	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N795/N796	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N795/N796	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N795/N796	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N795/N796	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N795/N796	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N795/N796	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N795/N796	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N796/N797	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N796/N797	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N796/N797	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N796/N797	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N796/N797	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N796/N797	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N796/N797	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N796/N797	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N796/N797	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N796/N797	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N796/N797	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N796/N797	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N797/N798	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N797/N798	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N797/N798	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N797/N798	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N797/N798	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N797/N798	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N797/N798	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N797/N798	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N797/N798	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N797/N798	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N797/N798	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N797/N798	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N798/N799	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N798/N799	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N798/N799	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N798/N799	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N798/N799	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N798/N799	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N798/N799	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N798/N799	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N798/N799	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N798/N799	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N798/N799	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N798/N799	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N799/N800	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N799/N800	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N799/N800	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N799/N800	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N799/N800	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N799/N800	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N799/N800	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N799/N800	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N799/N800	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N799/N800	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N799/N800	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N799/N800	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N800/N801	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N800/N801	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N800/N801	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N800/N801	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N800/N801	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N800/N801	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N800/N801	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N800/N801	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N800/N801	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N800/N801	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N800/N801	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N800/N801	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N801/N802	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N801/N802	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N801/N802	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N801/N802	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N801/N802	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N801/N802	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N801/N802	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N801/N802	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N801/N802	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N801/N802	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N801/N802	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N801/N802	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N802/N803	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N802/N803	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N802/N803	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N802/N803	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N802/N803	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N802/N803	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N802/N803	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N802/N803	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N802/N803	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N802/N803	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N802/N803	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N802/N803	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N803/N804	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N803/N804	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N803/N804	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N803/N804	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N803/N804	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N803/N804	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N803/N804	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N803/N804	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N803/N804	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N803/N804	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N803/N804	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N803/N804	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N804/N805	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N804/N805	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N804/N805	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N804/N805	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N804/N805	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N804/N805	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N804/N805	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N804/N805	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N804/N805	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N804/N805	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N804/N805	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N804/N805	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N805/N806	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N805/N806	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N805/N806	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N805/N806	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N805/N806	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N805/N806	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N805/N806	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N805/N806	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N805/N806	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N805/N806	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N805/N806	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N805/N806	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N806/N807	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N806/N807	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N806/N807	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N806/N807	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N806/N807	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N806/N807	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N806/N807	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N806/N807	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N806/N807	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N806/N807	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N806/N807	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N806/N807	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N807/N808	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N807/N808	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N807/N808	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N807/N808	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N807/N808	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N807/N808	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N807/N808	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N807/N808	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N807/N808	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N807/N808	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N807/N808	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N807/N808	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N808/N809	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N808/N809	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N808/N809	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N808/N809	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N808/N809	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N808/N809	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N808/N809	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N808/N809	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N808/N809	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N808/N809	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N808/N809	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N808/N809	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N809/N810	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N809/N810	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N809/N810	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N809/N810	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N809/N810	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N809/N810	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N809/N810	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N809/N810	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N809/N810	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N809/N810	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N809/N810	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N809/N810	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N810/N811	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N810/N811	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N810/N811	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N810/N811	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N810/N811	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N810/N811	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N810/N811	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N810/N811	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N810/N811	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N810/N811	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N810/N811	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N810/N811	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N811/N812	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N811/N812	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N811/N812	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N811/N812	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N811/N812	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N811/N812	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N811/N812	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N811/N812	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N811/N812	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N811/N812	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N811/N812	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N811/N812	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N812/N813	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N812/N813	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N812/N813	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N812/N813	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N812/N813	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N812/N813	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N812/N813	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N812/N813	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N812/N813	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N812/N813	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N812/N813	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N812/N813	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N813/N814	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N813/N814	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N813/N814	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N813/N814	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N813/N814	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N813/N814	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N813/N814	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N813/N814	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N813/N814	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N813/N814	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N813/N814	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N813/N814	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N815/N816	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N815/N816	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N815/N816	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N815/N816	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N815/N816	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N815/N816	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N815/N816	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N815/N816	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N815/N816	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N815/N816	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N815/N816	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N815/N816	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N816/N817	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N816/N817	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N816/N817	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N816/N817	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N816/N817	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N816/N817	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N816/N817	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N816/N817	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N816/N817	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N816/N817	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N816/N817	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N816/N817	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N817/N818	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N817/N818	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N817/N818	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N817/N818	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N817/N818	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N817/N818	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N817/N818	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N817/N818	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N817/N818	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N817/N818	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N817/N818	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N817/N818	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N818/N819	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N818/N819	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N818/N819	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N818/N819	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N818/N819	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N818/N819	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N818/N819	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N818/N819	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N818/N819	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N818/N819	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N818/N819	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N818/N819	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N819/N820	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N819/N820	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N819/N820	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N819/N820	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N819/N820	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N819/N820	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N819/N820	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N819/N820	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N819/N820	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N819/N820	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N819/N820	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N819/N820	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N820/N821	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N820/N821	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N820/N821	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N820/N821	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N820/N821	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N820/N821	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N820/N821	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N820/N821	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N820/N821	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N820/N821	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N820/N821	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N820/N821	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N821/N822	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N821/N822	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N821/N822	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N821/N822	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N821/N822	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N821/N822	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N821/N822	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N821/N822	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N821/N822	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N821/N822	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N821/N822	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N821/N822	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N822/N823	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N822/N823	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N822/N823	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N822/N823	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N822/N823	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N822/N823	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N822/N823	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N822/N823	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N822/N823	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N822/N823	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N822/N823	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N822/N823	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N823/N824	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N823/N824	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N823/N824	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N823/N824	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N823/N824	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N823/N824	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N823/N824	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N823/N824	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N823/N824	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N823/N824	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N823/N824	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N823/N824	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N824/N825	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N824/N825	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N824/N825	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N824/N825	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N824/N825	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N824/N825	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N824/N825	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N824/N825	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N824/N825	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N824/N825	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N824/N825	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N824/N825	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N825/N826	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N825/N826	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N825/N826	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N825/N826	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N825/N826	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N825/N826	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N825/N826	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N825/N826	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N825/N826	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N825/N826	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N825/N826	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N825/N826	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N826/N827	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N826/N827	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N826/N827	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N826/N827	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N826/N827	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N826/N827	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N826/N827	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N826/N827	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N826/N827	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N826/N827	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N826/N827	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N826/N827	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N827/N828	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N827/N828	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N827/N828	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N827/N828	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N827/N828	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N827/N828	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N827/N828	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N827/N828	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N827/N828	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N827/N828	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N827/N828	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N827/N828	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N828/N829	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N828/N829	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N828/N829	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N828/N829	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N828/N829	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N828/N829	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N828/N829	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N828/N829	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N828/N829	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N828/N829	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N828/N829	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N828/N829	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N829/N830	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N829/N830	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N829/N830	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N829/N830	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N829/N830	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N829/N830	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N829/N830	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N829/N830	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N829/N830	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N829/N830	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N829/N830	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N829/N830	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N830/N831	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N830/N831	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N830/N831	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N830/N831	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N830/N831	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N830/N831	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N830/N831	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N830/N831	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N830/N831	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N830/N831	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N830/N831	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N830/N831	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N831/N832	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N831/N832	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N831/N832	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N831/N832	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N831/N832	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N831/N832	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N831/N832	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N831/N832	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N831/N832	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N831/N832	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N831/N832	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N831/N832	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N832/N833	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N832/N833	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N832/N833	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N832/N833	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N832/N833	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N832/N833	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N832/N833	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N832/N833	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N832/N833	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N832/N833	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N832/N833	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N832/N833	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N833/N834	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N833/N834	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N833/N834	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N833/N834	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N833/N834	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N833/N834	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N833/N834	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N833/N834	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N833/N834	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N833/N834	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N833/N834	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N833/N834	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N834/N835	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N834/N835	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N834/N835	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N834/N835	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N834/N835	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N834/N835	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N834/N835	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N834/N835	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N834/N835	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N834/N835	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N834/N835	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N834/N835	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N835/N836	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N835/N836	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N835/N836	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N835/N836	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N835/N836	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N835/N836	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N835/N836	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N835/N836	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N835/N836	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N835/N836	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N835/N836	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N835/N836	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N836/N837	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N836/N837	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N836/N837	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N836/N837	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N836/N837	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N836/N837	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N836/N837	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N836/N837	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N836/N837	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N836/N837	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N836/N837	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N836/N837	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N838/N839	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N838/N839	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N838/N839	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N838/N839	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N838/N839	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N838/N839	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N838/N839	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N838/N839	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N838/N839	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N838/N839	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N838/N839	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N838/N839	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N839/N840	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N839/N840	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N839/N840	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N839/N840	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N839/N840	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N839/N840	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N839/N840	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N839/N840	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N839/N840	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N839/N840	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N839/N840	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N839/N840	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N840/N841	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N840/N841	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N840/N841	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N840/N841	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N840/N841	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N840/N841	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N840/N841	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N840/N841	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N840/N841	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N840/N841	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N840/N841	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N840/N841	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N841/N842	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N841/N842	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N841/N842	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N841/N842	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N841/N842	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N841/N842	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N841/N842	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N841/N842	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N841/N842	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N841/N842	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N841/N842	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N841/N842	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N842/N843	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N842/N843	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N842/N843	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N842/N843	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N842/N843	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N842/N843	Vy+(1)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N842/N843	Vy+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N842/N843	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N842/N843	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N842/N843	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N842/N843	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N842/N843	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N843/N844	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N843/N844	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N843/N844	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N843/N844	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N843/N844	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N843/N844	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N843/N844	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N843/N844	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N843/N844	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N843/N844	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N843/N844	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N843/N844	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N844/N845	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N844/N845	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N844/N845	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N844/N845	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N844/N845	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N844/N845	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N844/N845	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N844/N845	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N844/N845	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N844/N845	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N844/N845	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N844/N845	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N845/N846	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N845/N846	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N845/N846	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N845/N846	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N845/N846	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N845/N846	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N845/N846	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N845/N846	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N845/N846	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N845/N846	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N845/N846	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N845/N846	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N846/N847	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N846/N847	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N846/N847	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N846/N847	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N846/N847	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N846/N847	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N846/N847	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N846/N847	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N846/N847	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N846/N847	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N846/N847	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N846/N847	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N847/N848	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N847/N848	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N847/N848	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N847/N848	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N847/N848	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N847/N848	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N847/N848	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N847/N848	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N847/N848	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N847/N848	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N847/N848	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N847/N848	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N848/N849	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N848/N849	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N848/N849	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N848/N849	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N848/N849	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N848/N849	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N848/N849	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N848/N849	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N848/N849	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N848/N849	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N848/N849	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N848/N849	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N849/N850	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N849/N850	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N849/N850	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N849/N850	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N849/N850	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N849/N850	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N849/N850	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N849/N850	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N849/N850	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N849/N850	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N849/N850	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N849/N850	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N850/N851	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N850/N851	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N850/N851	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N850/N851	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N850/N851	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N850/N851	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N850/N851	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N850/N851	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N850/N851	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N850/N851	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N850/N851	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N850/N851	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N851/N852	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N851/N852	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N851/N852	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N851/N852	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N851/N852	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N851/N852	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N851/N852	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N851/N852	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N851/N852	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N851/N852	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N851/N852	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N851/N852	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N852/N853	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N852/N853	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N852/N853	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N852/N853	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N852/N853	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N852/N853	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N852/N853	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N852/N853	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N852/N853	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N852/N853	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N852/N853	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N852/N853	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N853/N854	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N853/N854	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N853/N854	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N853/N854	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N853/N854	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N853/N854	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N853/N854	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N853/N854	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N853/N854	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N853/N854	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N853/N854	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N853/N854	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N854/N855	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N854/N855	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N854/N855	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N854/N855	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N854/N855	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N854/N855	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N854/N855	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N854/N855	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N854/N855	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N854/N855	V y-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	-0.000	-0.999
N854/N855	V y-(2)	Uniforme	0.232	-	-	-	Globales	0.050	0.000	0.999
N854/N855	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N855/N856	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N855/N856	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N855/N856	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N855/N856	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N855/N856	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N855/N856	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N855/N856	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N855/N856	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N855/N856	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N855/N856	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N855/N856	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N855/N856	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N856/N857	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N856/N857	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N856/N857	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N856/N857	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N856/N857	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N856/N857	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N856/N857	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N856/N857	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N856/N857	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N856/N857	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N856/N857	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N856/N857	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N857/N858	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N857/N858	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N857/N858	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N857/N858	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N857/N858	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N857/N858	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N857/N858	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N857/N858	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N857/N858	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N857/N858	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N857/N858	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N857/N858	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N858/N859	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N858/N859	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N858/N859	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N858/N859	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N858/N859	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N858/N859	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N858/N859	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N858/N859	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N858/N859	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N858/N859	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N858/N859	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N858/N859	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N859/N860	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N859/N860	CM 1	Uniforme	0.130	-	-	-	Globales	0.000	0.000	-1.000
N859/N860	Q 1	Uniforme	0.703	-	-	-	Globales	0.000	0.000	-1.000
N859/N860	V x+(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N859/N860	V x+(2)	Uniforme	0.810	-	-	-	Globales	0.050	-0.000	0.999
N859/N860	Vy+(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N859/N860	Vy+(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N859/N860	V x-(1)	Uniforme	0.232	-	-	-	Globales	-0.050	0.000	-0.999
N859/N860	V x-(2)	Uniforme	0.232	-	-	-	Globales	0.050	-0.000	0.999
N859/N860	V y-(1)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N859/N860	V y-(2)	Uniforme	0.810	-	-	-	Globales	0.050	0.000	0.999
N859/N860	N 1	Uniforme	0.521	-	-	-	Globales	0.000	0.000	-1.000
N55/N77	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N77/N100	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N100/N123	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N123/N146	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N146/N169	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N169/N192	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N192/N215	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N215/N238	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N238/N261	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N261/N284	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N284/N307	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N307/N330	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N330/N353	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N353/N376	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N376/N399	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N399/N422	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N422/N445	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N445/N468	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N468/N491	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N491/N514	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N514/N537	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N537/N560	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N560/N583	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N583/N606	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N606/N629	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N629/N652	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N652/N675	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N675/N698	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N698/N721	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N721/N744	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N744/N767	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N767/N790	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N790/N813	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N813/N836	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N836/N859	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N859/N881	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N54/N76	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N76/N99	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N99/N122	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N122/N145	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N145/N168	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N168/N191	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N191/N214	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N214/N237	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N237/N260	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N260/N283	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N283/N306	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N306/N329	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N329/N352	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N352/N375	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N375/N398	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N398/N421	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N421/N444	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N444/N467	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N467/N490	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N490/N513	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N513/N536	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N536/N559	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N559/N582	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N582/N605	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N605/N628	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N628/N651	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N651/N674	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N674/N697	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N697/N720	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N720/N743	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N743/N766	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N766/N789	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N789/N812	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N812/N835	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N835/N858	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N858/N880	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N53/N75	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N75/N98	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N98/N121	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N121/N144	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N144/N167	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N167/N190	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N190/N213	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N213/N236	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N236/N259	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N259/N282	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N282/N305	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N305/N328	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N328/N351	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N351/N374	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N374/N397	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N397/N420	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N420/N443	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N443/N466	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N466/N489	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N489/N512	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N512/N535	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N535/N558	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N558/N581	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N581/N604	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N604/N627	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N627/N650	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N650/N673	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N673/N696	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N696/N719	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N719/N742	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N742/N765	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N765/N788	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N788/N811	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N811/N834	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N834/N857	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N857/N879	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N52/N74	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N74/N97	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N97/N120	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N120/N143	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N143/N166	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N166/N189	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N189/N212	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N212/N235	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N235/N258	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N258/N281	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N281/N304	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N304/N327	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N327/N350	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N350/N373	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N373/N396	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N396/N419	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N419/N442	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N442/N465	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N465/N488	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N488/N511	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N511/N534	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N534/N557	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N557/N580	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N580/N603	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N603/N626	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N626/N649	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N649/N672	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N672/N695	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N695/N718	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N718/N741	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N741/N764	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N764/N787	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N787/N810	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N810/N833	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N833/N856	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N856/N878	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N51/N73	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N73/N96	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N96/N119	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N119/N142	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N142/N165	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N165/N188	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N188/N211	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N211/N234	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N234/N257	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N257/N280	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N280/N303	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N303/N326	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N326/N349	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N349/N372	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N372/N395	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N395/N418	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N418/N441	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N441/N464	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N464/N487	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N487/N510	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N510/N533	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N533/N556	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N556/N579	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N579/N602	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N602/N625	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N625/N648	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N648/N671	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N671/N694	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N694/N717	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N717/N740	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N740/N763	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N763/N786	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N786/N809	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N809/N832	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N832/N855	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N855/N877	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N50/N72	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N72/N95	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N95/N118	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N118/N141	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N141/N164	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N164/N187	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N187/N210	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N210/N233	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N233/N256	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N256/N279	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N279/N302	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N302/N325	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N325/N348	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N348/N371	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N371/N394	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N394/N417	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N417/N440	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N440/N463	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N463/N486	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N486/N509	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N509/N532	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N532/N555	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N555/N578	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N578/N601	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N601/N624	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N624/N647	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N647/N670	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N670/N693	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N693/N716	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N716/N739	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N739/N762	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N762/N785	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N785/N808	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N808/N831	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N831/N854	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N854/N876	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N49/N71	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N71/N94	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N94/N117	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N117/N140	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N140/N163	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N163/N186	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N186/N209	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N209/N232	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N232/N255	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N255/N278	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N278/N301	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N301/N324	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N324/N347	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N347/N370	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N370/N393	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N393/N416	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N416/N439	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N439/N462	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N462/N485	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N485/N508	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N508/N531	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N531/N554	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N554/N577	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N577/N600	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N600/N623	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N623/N646	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N646/N669	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N669/N692	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N692/N715	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N715/N738	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N738/N761	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N761/N784	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N784/N807	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N807/N830	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N830/N853	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N853/N875	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N48/N70	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N70/N93	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N93/N116	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N116/N139	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N139/N162	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N162/N185	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N185/N208	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N208/N231	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N231/N254	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N254/N277	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N277/N300	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N300/N323	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N323/N346	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N346/N369	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N369/N392	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N392/N415	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N415/N438	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N438/N461	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N461/N484	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N484/N507	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N507/N530	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N530/N553	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N553/N576	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N576/N599	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N599/N622	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N622/N645	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N645/N668	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N668/N691	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N691/N714	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N714/N737	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N737/N760	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N760/N783	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N783/N806	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N806/N829	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N829/N852	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N852/N874	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N47/N69	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N69/N92	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N92/N115	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N115/N138	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N138/N161	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N161/N184	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N184/N207	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N207/N230	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N230/N253	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N253/N276	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N276/N299	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N299/N322	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N322/N345	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N345/N368	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N368/N391	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N391/N414	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N414/N437	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N437/N460	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N460/N483	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N483/N506	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N506/N529	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N529/N552	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N552/N575	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N575/N598	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N598/N621	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N621/N644	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N644/N667	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N667/N690	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N690/N713	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N713/N736	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N736/N759	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N759/N782	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N782/N805	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N805/N828	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N828/N851	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N851/N873	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N46/N68	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N68/N91	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N91/N114	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N114/N137	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N137/N160	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N160/N183	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N183/N206	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N206/N229	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N229/N252	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N252/N275	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N275/N298	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N298/N321	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N321/N344	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N344/N367	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N367/N390	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N390/N413	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N413/N436	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N436/N459	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N459/N482	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N482/N505	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N505/N528	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N528/N551	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N551/N574	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N574/N597	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N597/N620	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N620/N643	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N643/N666	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N666/N689	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N689/N712	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N712/N735	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N735/N758	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N758/N781	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N781/N804	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N804/N827	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N827/N850	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N850/N872	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N45/N67	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N67/N90	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N90/N113	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N113/N136	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N136/N159	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N159/N182	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N182/N205	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N205/N228	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N228/N251	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N251/N274	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N274/N297	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N297/N320	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N320/N343	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N343/N366	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N366/N389	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N389/N412	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N412/N435	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N435/N458	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N458/N481	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N481/N504	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N504/N527	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N527/N550	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N550/N573	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N573/N596	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N596/N619	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N619/N642	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N642/N665	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N665/N688	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N688/N711	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N711/N734	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N734/N757	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N757/N780	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N780/N803	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N803/N826	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N826/N849	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N849/N871	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N44/N66	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N66/N89	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N89/N112	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N112/N135	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N135/N158	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N158/N181	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N181/N204	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N204/N227	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N227/N250	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N250/N273	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N273/N296	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N296/N319	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N319/N342	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N342/N365	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N365/N388	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N388/N411	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N411/N434	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N434/N457	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N457/N480	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N480/N503	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N503/N526	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N526/N549	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N549/N572	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N572/N595	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N595/N618	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N618/N641	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N641/N664	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N664/N687	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N687/N710	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N710/N733	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N733/N756	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N756/N779	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N779/N802	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N802/N825	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N825/N848	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N848/N870	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N43/N65	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N65/N88	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N88/N111	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N111/N134	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N134/N157	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N157/N180	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N180/N203	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N203/N226	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N226/N249	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N249/N272	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N272/N295	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N295/N318	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N318/N341	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N341/N364	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N364/N387	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N387/N410	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N410/N433	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N433/N456	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N456/N479	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N479/N502	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N502/N525	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N525/N548	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N548/N571	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N571/N594	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N594/N617	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N617/N640	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N640/N663	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N663/N686	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N686/N709	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N709/N732	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N732/N755	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N755/N778	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N778/N801	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N801/N824	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N824/N847	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N847/N869	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N42/N64	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N64/N87	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N87/N110	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N110/N133	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N133/N156	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N156/N179	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N179/N202	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N202/N225	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N225/N248	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N248/N271	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N271/N294	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N294/N317	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N317/N340	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N340/N363	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N363/N386	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N386/N409	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N409/N432	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N432/N455	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N455/N478	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N478/N501	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N501/N524	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N524/N547	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N547/N570	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N570/N593	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N593/N616	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N616/N639	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N639/N662	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N662/N685	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N685/N708	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N708/N731	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N731/N754	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N754/N777	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N777/N800	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N800/N823	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N823/N846	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N846/N868	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N41/N63	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N63/N86	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N86/N109	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N109/N132	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N132/N155	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N155/N178	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N178/N201	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N201/N224	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N224/N247	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N247/N270	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N270/N293	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N293/N316	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N316/N339	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N339/N362	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N362/N385	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N385/N408	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N408/N431	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N431/N454	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N454/N477	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N477/N500	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N500/N523	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N523/N546	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N546/N569	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N569/N592	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N592/N615	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N615/N638	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N638/N661	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N661/N684	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N684/N707	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N707/N730	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N730/N753	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N753/N776	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N776/N799	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N799/N822	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N822/N845	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N845/N867	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N40/N62	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N62/N85	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N85/N108	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N108/N131	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N131/N154	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N154/N177	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N177/N200	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N200/N223	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N223/N246	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N246/N269	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N269/N292	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N292/N315	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N315/N338	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N338/N361	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N361/N384	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N384/N407	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N407/N430	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N430/N453	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N453/N476	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N476/N499	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N499/N522	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N522/N545	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N545/N568	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N568/N591	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N591/N614	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N614/N637	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N637/N660	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N660/N683	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N683/N706	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N706/N729	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N729/N752	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N752/N775	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N775/N798	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N798/N821	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N821/N844	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N844/N866	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N39/N61	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N61/N84	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N84/N107	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N107/N130	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N130/N153	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N153/N176	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N176/N199	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N199/N222	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N222/N245	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N245/N268	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N268/N291	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N291/N314	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N314/N337	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N337/N360	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N360/N383	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N383/N406	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N406/N429	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N429/N452	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N452/N475	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N475/N498	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N498/N521	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N521/N544	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N544/N567	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N567/N590	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N590/N613	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N613/N636	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N636/N659	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N659/N682	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N682/N705	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N705/N728	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N728/N751	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N751/N774	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N774/N797	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N797/N820	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N820/N843	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N843/N865	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N38/N60	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N60/N83	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N83/N106	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N106/N129	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N129/N152	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N152/N175	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N175/N198	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N198/N221	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N221/N244	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N244/N267	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N267/N290	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N290/N313	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N313/N336	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N336/N359	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N359/N382	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N382/N405	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N405/N428	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N428/N451	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N451/N474	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N474/N497	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N497/N520	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N520/N543	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N543/N566	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N566/N589	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N589/N612	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N612/N635	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N635/N658	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N658/N681	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N681/N704	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N704/N727	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N727/N750	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N750/N773	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N773/N796	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N796/N819	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N819/N842	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N842/N864	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N37/N59	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N59/N82	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N82/N105	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N105/N128	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N128/N151	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N151/N174	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N174/N197	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N197/N220	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N220/N243	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N243/N266	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N266/N289	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N289/N312	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N312/N335	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N335/N358	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N358/N381	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N381/N404	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N404/N427	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N427/N450	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N450/N473	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N473/N496	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N496/N519	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N519/N542	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N542/N565	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N565/N588	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N588/N611	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N611/N634	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N634/N657	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N657/N680	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N680/N703	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N703/N726	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N726/N749	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N749/N772	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N772/N795	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N795/N818	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N818/N841	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N841/N863	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N36/N58	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N58/N81	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N81/N104	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N104/N127	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N127/N150	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N150/N173	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N173/N196	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N196/N219	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N219/N242	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N242/N265	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N265/N288	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N288/N311	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N311/N334	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N334/N357	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N357/N380	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N380/N403	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N403/N426	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N426/N449	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N449/N472	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N472/N495	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N495/N518	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N518/N541	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N541/N564	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N564/N587	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N587/N610	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N610/N633	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N633/N656	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N656/N679	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N679/N702	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N702/N725	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N725/N748	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N748/N771	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N771/N794	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N794/N817	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N817/N840	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N840/N862	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N35/N57	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N57/N80	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N80/N103	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N103/N126	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N126/N149	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N149/N172	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N172/N195	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N195/N218	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N218/N241	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N241/N264	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N264/N287	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N287/N310	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N310/N333	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N333/N356	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N356/N379	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N379/N402	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N402/N425	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N425/N448	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N448/N471	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N471/N494	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N494/N517	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N517/N540	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N540/N563	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N563/N586	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N586/N609	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N609/N632	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N632/N655	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N655/N678	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N678/N701	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N701/N724	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N724/N747	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N747/N770	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N770/N793	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N793/N816	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N816/N839	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N839/N861	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N882/N883	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N883/N884	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N884/N885	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N885/N886	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N886/N887	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N887/N888	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N888/N889	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N889/N890	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N890/N891	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N891/N892	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N892/N893	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N893/N894	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N894/N895	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N895/N896	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N896/N897	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N897/N898	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N898/N899	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N899/N900	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N900/N901	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N901/N902	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N902/N903	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N904/N905	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N905/N906	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N906/N907	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N907/N908	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N908/N909	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N909/N910	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N910/N911	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N911/N912	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N912/N913	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N913/N914	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N914/N915	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N915/N916	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N916/N917	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N917/N918	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N918/N919	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N919/N920	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N920/N921	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N921/N922	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N922/N923	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N923/N924	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N924/N925	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N926/N927	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N927/N928	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N928/N929	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N929/N930	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N930/N931	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N931/N932	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N932/N933	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N933/N934	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N934/N935	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N935/N936	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N936/N937	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N937/N938	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N938/N939	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N939/N940	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N940/N941	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N941/N942	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N942/N943	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N943/N944	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N944/N945	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N945/N946	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N946/N947	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N948/N949	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N949/N950	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N950/N951	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N951/N952	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N952/N953	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N953/N954	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N954/N955	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N955/N956	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N956/N957	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N957/N958	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N958/N959	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N959/N960	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N960/N961	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N961/N962	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N962/N963	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N963/N964	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N964/N965	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N965/N966	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N966/N967	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N967/N968	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N968/N969	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N970/N971	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N971/N972	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N972/N973	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N973/N974	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N974/N975	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N975/N976	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N976/N977	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N977/N978	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N978/N979	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N979/N980	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N980/N981	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N981/N982	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N982/N983	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N983/N984	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N984/N985	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N985/N986	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N986/N987	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N987/N988	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N988/N989	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N989/N990	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N990/N991	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N992/N993	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N993/N994	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N994/N995	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N995/N996	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N996/N997	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N997/N998	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N998/N999	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N999/N1000	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1000/N1001	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1001/N1002	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1002/N1003	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1003/N1004	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1004/N1005	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1005/N1006	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1006/N1007	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1007/N1008	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1008/N1009	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1009/N1010	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1010/N1011	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1011/N1012	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1012/N1013	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1014/N1015	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1015/N1016	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1016/N1017	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1017/N1018	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1018/N1019	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1019/N1020	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1020/N1021	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1021/N1022	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1022/N1023	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1023/N1024	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1024/N1025	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1025/N1026	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1026/N1027	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1027/N1028	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1028/N1029	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1029/N1030	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1030/N1031	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1031/N1032	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1032/N1033	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1033/N1034	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1034/N1035	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1036/N1037	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1037/N1038	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1038/N1039	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1039/N1040	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1040/N1041	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1041/N1042	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1042/N1043	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1043/N1044	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1044/N1045	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1045/N1046	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1046/N1047	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1047/N1048	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1048/N1049	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1049/N1050	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1050/N1051	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1051/N1052	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1052/N1053	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1053/N1054	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1054/N1055	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1055/N1056	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1056/N1057	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1058/N1059	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1059/N1060	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1060/N1061	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1061/N1062	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1062/N1063	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1063/N1064	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1064/N1065	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1065/N1066	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1066/N1067	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1067/N1068	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1068/N1069	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1069/N1070	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1070/N1071	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1071/N1072	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1072/N1073	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1073/N1074	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1074/N1075	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1075/N1076	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1076/N1077	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1077/N1078	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1078/N1079	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1080/N1081	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1081/N1082	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1082/N1083	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1083/N1084	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1084/N1085	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1085/N1086	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1086/N1087	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1087/N1088	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1088/N1089	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1089/N1090	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1090/N1091	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1091/N1092	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1092/N1093	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1093/N1094	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1094/N1095	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1095/N1096	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1096/N1097	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1097/N1098	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1098/N1099	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1099/N1100	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1100/N1101	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1102/N1103	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1103/N1104	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1104/N1105	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1105/N1106	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1106/N1107	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1107/N1108	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1108/N1109	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1109/N1110	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1110/N1111	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1111/N1112	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1112/N1113	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1113/N1114	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1114/N1115	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1115/N1116	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1116/N1117	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1117/N1118	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1118/N1119	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1119/N1120	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1120/N1121	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1121/N1122	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1122/N1123	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1124/N1125	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1125/N1126	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1126/N1127	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1127/N1128	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1128/N1129	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1129/N1130	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1130/N1131	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1131/N1132	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1132/N1133	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1133/N1134	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1134/N1135	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1135/N1136	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1136/N1137	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1137/N1138	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1138/N1139	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1139/N1140	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1140/N1141	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1141/N1142	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1142/N1143	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1143/N1144	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1144/N1145	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1146/N1147	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1147/N1148	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1148/N1149	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1149/N1150	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1150/N1151	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1151/N1152	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1152/N1153	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1153/N1154	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1154/N1155	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1155/N1156	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1156/N1157	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1157/N1158	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1158/N1159	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1159/N1160	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1160/N1161	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1161/N1162	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1162/N1163	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1163/N1164	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1164/N1165	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1165/N1166	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1166/N1167	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1168/N1169	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1169/N1170	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1170/N1171	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1171/N1172	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1172/N1173	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1173/N1174	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1174/N1175	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1175/N1176	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1176/N1177	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1177/N1178	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1178/N1179	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1179/N1180	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1180/N1181	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1181/N1182	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1182/N1183	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1183/N1184	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1184/N1185	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1185/N1186	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1186/N1187	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1187/N1188	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1188/N1189	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1190/N1191	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1191/N1192	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1192/N1193	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1193/N1194	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1194/N1195	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1195/N1196	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1196/N1197	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1197/N1198	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1198/N1199	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1199/N1200	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1200/N1201	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1201/N1202	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1202/N1203	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1203/N1204	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1204/N1205	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1205/N1206	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1206/N1207	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1207/N1208	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1208/N1209	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1209/N1210	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1210/N1211	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1212/N1213	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1213/N1214	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1214/N1215	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1215/N1216	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1216/N1217	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1217/N1218	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1218/N1219	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1219/N1220	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1220/N1221	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1221/N1222	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1222/N1223	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1223/N1224	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1224/N1225	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1225/N1226	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1226/N1227	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1227/N1228	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1228/N1229	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1229/N1230	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1230/N1231	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1231/N1232	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1232/N1233	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1234/N1235	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1235/N1236	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1236/N1237	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1237/N1238	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1238/N1239	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1239/N1240	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1240/N1241	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1241/N1242	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1242/N1243	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1243/N1244	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1244/N1245	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1245/N1246	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1246/N1247	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1247/N1248	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1248/N1249	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1249/N1250	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1250/N1251	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1251/N1252	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1252/N1253	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1253/N1254	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1254/N1255	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1256/N1257	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1257/N1258	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1258/N1259	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1259/N1260	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1260/N1261	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1261/N1262	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1262/N1263	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1263/N1264	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1264/N1265	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1265/N1266	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1266/N1267	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1267/N1268	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1268/N1269	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1269/N1270	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1270/N1271	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1271/N1272	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1272/N1273	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1273/N1274	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1274/N1275	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1275/N1276	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1276/N1277	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1278/N1279	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1279/N1280	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1280/N1281	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1281/N1282	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1282/N1283	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1283/N1284	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1284/N1285	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1285/N1286	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1286/N1287	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1287/N1288	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1288/N1289	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1289/N1290	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1290/N1291	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1291/N1292	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1292/N1293	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1293/N1294	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1294/N1295	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1295/N1296	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1296/N1297	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1297/N1298	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1298/N1299	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1300/N1301	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1301/N1302	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1302/N1303	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1303/N1304	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1304/N1305	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1305/N1306	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1306/N1307	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1307/N1308	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1308/N1309	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1309/N1310	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1310/N1311	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1311/N1312	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1312/N1313	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1313/N1314	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1314/N1315	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1315/N1316	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1316/N1317	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1317/N1318	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1318/N1319	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1319/N1320	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1320/N1321	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1322/N1323	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1323/N1324	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1324/N1325	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1325/N1326	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1326/N1327	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1327/N1328	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1328/N1329	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1329/N1330	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1330/N1331	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1331/N1332	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1332/N1333	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1333/N1334	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1334/N1335	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1335/N1336	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1336/N1337	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1337/N1338	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1338/N1339	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1339/N1340	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1340/N1341	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1341/N1342	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1342/N1343	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1344/N1345	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1345/N1346	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1346/N1347	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1347/N1348	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1348/N1349	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1349/N1350	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1350/N1351	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1351/N1352	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1352/N1353	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1353/N1354	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1354/N1355	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1355/N1356	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1356/N1357	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1357/N1358	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1358/N1359	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1359/N1360	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1360/N1361	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1361/N1362	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1362/N1363	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1363/N1364	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1364/N1365	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1366/N1367	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1367/N1368	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1368/N1369	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1369/N1370	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1370/N1371	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1371/N1372	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1372/N1373	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1373/N1374	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1374/N1375	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1375/N1376	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1376/N1377	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1377/N1378	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1378/N1379	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1379/N1380	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1380/N1381	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1381/N1382	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1382/N1383	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1383/N1384	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1384/N1385	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1385/N1386	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1386/N1387	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1388/N1389	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1389/N1390	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1390/N1391	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1391/N1392	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1392/N1393	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1393/N1394	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1394/N1395	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1395/N1396	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1396/N1397	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1397/N1398	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1398/N1399	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1399/N1400	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1400/N1401	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1401/N1402	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1402/N1403	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1403/N1404	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1404/N1405	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1405/N1406	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1406/N1407	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1407/N1408	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1408/N1409	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1410/N1411	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1411/N1412	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1412/N1413	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1413/N1414	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1414/N1415	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1415/N1416	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1416/N1417	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1417/N1418	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1418/N1419	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1419/N1420	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1420/N1421	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1421/N1422	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1422/N1423	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1423/N1424	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1424/N1425	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1425/N1426	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1426/N1427	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1427/N1428	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1428/N1429	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1429/N1430	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1430/N1431	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1432/N1433	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1433/N1434	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1434/N1435	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1435/N1436	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1436/N1437	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1437/N1438	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1438/N1439	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1439/N1440	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1440/N1441	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1441/N1442	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1442/N1443	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1443/N1444	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1444/N1445	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1445/N1446	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1446/N1447	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1447/N1448	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1448/N1449	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1449/N1450	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1450/N1451	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1451/N1452	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1452/N1453	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1454/N1455	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1455/N1456	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1456/N1457	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1457/N1458	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1458/N1459	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1459/N1460	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1460/N1461	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1461/N1462	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1462/N1463	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1463/N1464	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1464/N1465	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1465/N1466	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1466/N1467	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1467/N1468	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1468/N1469	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1469/N1470	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1470/N1471	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1471/N1472	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1472/N1473	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1473/N1474	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1474/N1475	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1476/N1477	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1477/N1478	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1478/N1479	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1479/N1480	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1480/N1481	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1481/N1482	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1482/N1483	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1483/N1484	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1484/N1485	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1485/N1486	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1486/N1487	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1487/N1488	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1488/N1489	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1489/N1490	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1490/N1491	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1491/N1492	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1492/N1493	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1493/N1494	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1494/N1495	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1495/N1496	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1496/N1497	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1498/N1499	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1499/N1500	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1500/N1501	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1501/N1502	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1502/N1503	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1503/N1504	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1504/N1505	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1505/N1506	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1506/N1507	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1507/N1508	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1508/N1509	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1509/N1510	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1510/N1511	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1511/N1512	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1512/N1513	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1513/N1514	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1514/N1515	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1515/N1516	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1516/N1517	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1517/N1518	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1518/N1519	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1520/N1521	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1521/N1522	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1522/N1523	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1523/N1524	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1524/N1525	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1525/N1526	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1526/N1527	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1527/N1528	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1528/N1529	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1529/N1530	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1530/N1531	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1531/N1532	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1532/N1533	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1533/N1534	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1534/N1535	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1535/N1536	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1536/N1537	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1537/N1538	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1538/N1539	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1539/N1540	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1540/N1541	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1542/N1543	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1543/N1544	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1544/N1545	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1545/N1546	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1547/N1548	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1548/N1549	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1550/N1551	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1551/N1552	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1553/N1554	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1554/N1555	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1555/N1556	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1556/N1557	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1558/N1559	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1559/N1560	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1560/N1561	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1561/N1562	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1563/N1564	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1564/N1565	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1566/N1567	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1567/N1568	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1569/N1570	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1570/N1571	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1571/N1572	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1572/N1573	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1574/N1575	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1575/N1576	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1576/N1577	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1577/N1578	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1578/N1579	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1579/N1580	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1580/N1581	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1581/N1582	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1582/N1583	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1583/N1584	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1584/N1585	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1585/N1586	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1586/N1587	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1587/N1588	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1588/N1589	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1589/N1590	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1590/N1591	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1591/N1592	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1592/N1593	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1593/N1594	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1594/N1595	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1596/N1597	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1597/N1598	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1598/N1599	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1599/N1600	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1600/N1601	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1601/N1602	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1602/N1603	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1603/N1604	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1604/N1605	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1605/N1606	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1606/N1607	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1607/N1608	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1608/N1609	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1609/N1610	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1610/N1611	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1611/N1612	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1612/N1613	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1613/N1614	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1614/N1615	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1615/N1616	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1616/N1617	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1618/N1619	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1619/N1620	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1620/N1621	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1621/N1622	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1622/N1623	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1623/N1624	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1624/N1625	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1625/N1626	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1626/N1627	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1627/N1628	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1628/N1629	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1629/N1630	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1630/N1631	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1631/N1632	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1632/N1633	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1633/N1634	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1634/N1635	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1635/N1636	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1636/N1637	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1637/N1638	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1638/N1639	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1640/N1641	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1641/N1642	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1642/N1643	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1643/N1644	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1644/N1645	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1645/N1646	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1646/N1647	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1647/N1648	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1648/N1649	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1649/N1650	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1650/N1651	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1651/N1652	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1652/N1653	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1653/N1654	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1654/N1655	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1655/N1656	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1656/N1657	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1657/N1658	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1658/N1659	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1659/N1660	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1660/N1661	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N903/N925	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N925/N947	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N947/N969	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N969/N991	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N991/N1013	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1013/N1035	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1035/N1057	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1057/N1079	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1079/N1101	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1101/N1123	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1123/N1145	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1145/N1167	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1167/N1189	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1189/N1211	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1211/N1233	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1233/N1255	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1255/N1277	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1277/N1299	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1299/N1321	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1321/N1343	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1343/N1365	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1365/N1387	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1387/N1409	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1409/N1431	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1431/N1453	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1453/N1475	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1475/N1497	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1497/N1519	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1519/N1541	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1541/N1557	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1557/N1573	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1573/N1595	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1595/N1617	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1617/N1639	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1639/N1661	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N902/N924	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N924/N946	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N946/N968	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N968/N990	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N990/N1012	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1012/N1034	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1034/N1883	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1883/N1056	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1056/N1078	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1078/N1100	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1100/N1122	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1122/N1144	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1144/N1166	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1166/N1843	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1843/N1188	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1188/N1210	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1210/N1232	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1232/N1254	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1254/N1276	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1276/N1298	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1298/N1803	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1803/N1320	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1320/N1342	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1342/N1364	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1364/N1386	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1386/N1408	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1408/N1430	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1430/N1731	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1731/N1452	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1452/N1474	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1474/N1496	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1496/N1518	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1518/N1540	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1540/N1556	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1556/N1923	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1923/N1572	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1572/N1594	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1594/N1616	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1616/N1638	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1638/N1660	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N901/N923	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N923/N945	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N945/N967	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N967/N989	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N989/N1011	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1011/N1033	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1033/N1879	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1879/N1055	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1055/N1077	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1077/N1099	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1099/N1121	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1121/N1143	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1143/N1165	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1165/N1839	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1839/N1187	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1187/N1209	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1209/N1231	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1231/N1253	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1253/N1275	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1275/N1297	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1297/N1799	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1799/N1319	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1319/N1341	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1341/N1363	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1363/N1385	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1385/N1407	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1407/N1429	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1429/N1730	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1730/N1451	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1451/N1473	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1473/N1495	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1495/N1517	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1517/N1539	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1539/N1555	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1555/N1919	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1919/N1571	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1571/N1593	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1593/N1615	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1615/N1637	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1637/N1659	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N900/N922	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N922/N944	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N944/N966	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N966/N988	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N988/N1010	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1010/N1032	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1032/N1878	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1878/N1054	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1054/N1076	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1076/N1098	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1098/N1120	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1120/N1142	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1142/N1164	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1164/N1838	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1838/N1186	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1186/N1208	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1208/N1230	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1230/N1252	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1252/N1274	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1274/N1296	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1296/N1798	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1798/N1318	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1318/N1340	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1340/N1362	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1362/N1384	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1384/N1406	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1406/N1428	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1428/N1729	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1729/N1450	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1450/N1472	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1472/N1494	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1494/N1516	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1516/N1538	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1538/N1554	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1554/N1918	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1918/N1570	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1570/N1592	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1592/N1614	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1614/N1636	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1636/N1658	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N899/N921	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N921/N943	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N943/N965	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N965/N987	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N987/N1009	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1009/N1031	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1031/N1877	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1877/N1053	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1053/N1075	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1075/N1097	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1097/N1119	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1119/N1141	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1141/N1163	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1163/N1837	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1837/N1185	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1185/N1207	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1207/N1229	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1229/N1251	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1251/N1273	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1273/N1295	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1295/N1797	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1797/N1317	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1317/N1339	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1339/N1361	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1361/N1383	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1383/N1405	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1405/N1427	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1427/N1728	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1728/N1449	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1449/N1471	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1471/N1493	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1493/N1515	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1515/N1537	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1537/N1553	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1553/N1917	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1917/N1569	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1569/N1591	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1591/N1613	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1613/N1635	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1635/N1657	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N898/N920	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N920/N942	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N942/N964	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N964/N986	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N986/N1008	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1008/N1030	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1030/N1873	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1873/N1052	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1052/N1074	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1074/N1096	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1096/N1118	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1118/N1140	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1140/N1162	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1162/N1833	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1833/N1184	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1184/N1206	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1206/N1228	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1228/N1250	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1250/N1272	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1272/N1294	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1294/N1793	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1793/N1316	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1316/N1338	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1338/N1360	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1360/N1382	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1382/N1404	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1404/N1426	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1426/N1727	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1727/N1448	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1448/N1470	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1470/N1492	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1492/N1514	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1514/N1536	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1590/N1612	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1612/N1634	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1634/N1656	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N897/N919	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N919/N941	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N941/N963	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N963/N985	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N985/N1007	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1007/N1029	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1029/N1872	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1872/N1051	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1051/N1073	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1073/N1095	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1095/N1117	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1117/N1139	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1139/N1161	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1161/N1832	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1832/N1183	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1183/N1205	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1205/N1227	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1227/N1249	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1249/N1271	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1271/N1293	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1293/N1792	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1792/N1315	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1315/N1337	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1337/N1359	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1359/N1381	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1381/N1403	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1403/N1425	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1425/N1726	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1726/N1447	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1447/N1469	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1469/N1491	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1491/N1513	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1513/N1535	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1589/N1611	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1611/N1633	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1633/N1655	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N896/N918	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N918/N940	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N940/N962	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N962/N984	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N984/N1006	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1006/N1028	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1028/N1869	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1869/N1050	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1050/N1072	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1072/N1094	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1094/N1116	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1116/N1138	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1138/N1160	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1160/N1829	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1829/N1182	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1182/N1204	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1204/N1226	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1226/N1248	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1248/N1270	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1270/N1292	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1292/N1789	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1789/N1314	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1314/N1336	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1336/N1358	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1358/N1380	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1380/N1402	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1402/N1424	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1424/N1725	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1725/N1446	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1446/N1468	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1468/N1490	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1490/N1512	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1512/N1534	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1534/N1552	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1552/N1909	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1909/N1568	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1568/N1588	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1588/N1610	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1610/N1632	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1632/N1654	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N895/N917	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N917/N939	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N939/N961	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N961/N983	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N983/N1005	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1005/N1027	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1027/N1868	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1868/N1049	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1049/N1071	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1071/N1093	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1093/N1115	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1115/N1137	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1137/N1159	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1159/N1828	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1828/N1181	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1181/N1203	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1203/N1225	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1225/N1247	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1247/N1269	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1269/N1291	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1291/N1788	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1788/N1313	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1313/N1335	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1335/N1357	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1357/N1379	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1379/N1401	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1401/N1423	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1423/N1724	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1724/N1445	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1445/N1467	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1467/N1489	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1489/N1511	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1511/N1533	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1533/N1551	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1551/N1908	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1908/N1567	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1567/N1587	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1587/N1609	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1609/N1631	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1631/N1653	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N894/N916	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N916/N938	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N938/N960	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N960/N982	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N982/N1004	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1004/N1026	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1026/N1867	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1867/N1048	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1048/N1070	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1070/N1092	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1092/N1114	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1114/N1136	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1136/N1158	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1158/N1827	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1827/N1180	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1180/N1202	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1202/N1224	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1224/N1246	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1246/N1268	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1268/N1290	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1290/N1787	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1787/N1312	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1312/N1334	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1334/N1356	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1356/N1378	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1378/N1400	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1400/N1422	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1422/N1743	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1743/N1444	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1444/N1466	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1466/N1488	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1488/N1510	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1510/N1532	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1532/N1550	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1550/N1907	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1907/N1566	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1566/N1586	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1586/N1608	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1608/N1630	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1630/N1652	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N893/N915	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N915/N937	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N937/N959	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N959/N981	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N981/N1003	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1003/N1025	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1025/N1862	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1862/N1047	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1047/N1069	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1069/N1091	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1091/N1113	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1113/N1135	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1135/N1157	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1157/N1822	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1822/N1179	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1179/N1201	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1201/N1223	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1223/N1245	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1245/N1267	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1267/N1289	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1289/N1782	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1782/N1311	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1311/N1333	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1333/N1355	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1355/N1377	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1377/N1399	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1399/N1421	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1421/N1742	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1742/N1443	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1443/N1465	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1465/N1487	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1487/N1509	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1509/N1531	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1585/N1607	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1607/N1629	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1629/N1651	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N892/N914	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N914/N936	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N936/N958	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N958/N980	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N980/N1002	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1002/N1024	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1024/N1861	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1861/N1046	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1046/N1068	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1068/N1090	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1090/N1112	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1112/N1134	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1134/N1156	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1156/N1821	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1821/N1178	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1178/N1200	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1200/N1222	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1222/N1244	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1244/N1266	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1266/N1288	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1288/N1781	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1781/N1310	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1310/N1332	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1332/N1354	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1354/N1376	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1376/N1398	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1398/N1420	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1420/N1741	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1741/N1442	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1442/N1464	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1464/N1486	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1486/N1508	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1508/N1530	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1584/N1606	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1606/N1628	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1628/N1650	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N891/N913	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N913/N935	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N935/N957	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N957/N979	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N979/N1001	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1001/N1023	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1023/N1860	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1860/N1045	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1045/N1067	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1067/N1089	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1089/N1111	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1111/N1133	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1133/N1155	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1155/N1820	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1820/N1177	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1177/N1199	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1199/N1221	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1221/N1243	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1243/N1265	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1265/N1287	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1287/N1780	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1780/N1309	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1309/N1331	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1331/N1353	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1353/N1375	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1375/N1397	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1397/N1419	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1419/N1740	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1740/N1441	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1441/N1463	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1463/N1485	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1485/N1507	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1507/N1529	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1529/N1549	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1549/N1900	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1900/N1565	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1565/N1583	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1583/N1605	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1605/N1627	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1627/N1649	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N890/N912	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N912/N934	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N934/N956	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N956/N978	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N978/N1000	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1000/N1022	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1022/N1859	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1859/N1044	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1044/N1066	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1066/N1088	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1088/N1110	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1110/N1132	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1132/N1154	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1154/N1819	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1819/N1176	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1176/N1198	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1198/N1220	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1220/N1242	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1242/N1264	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1264/N1286	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1286/N1779	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1779/N1308	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1308/N1330	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1330/N1352	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1352/N1374	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1374/N1396	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1396/N1418	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1418/N1739	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1739/N1440	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1440/N1462	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1462/N1484	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1484/N1506	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1506/N1528	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1528/N1548	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1548/N1899	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1899/N1564	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1564/N1582	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1582/N1604	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1604/N1626	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1626/N1648	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N889/N911	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N911/N933	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N933/N955	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N955/N977	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N977/N999	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N999/N1021	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1021/N1849	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1849/N1043	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1043/N1065	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1065/N1087	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1087/N1109	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1109/N1131	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1131/N1153	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1153/N1809	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1809/N1175	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1175/N1197	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1197/N1219	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1219/N1241	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1241/N1263	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1263/N1285	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1285/N1769	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1769/N1307	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1307/N1329	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1329/N1351	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1351/N1373	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1373/N1395	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1395/N1417	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1417/N1738	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1738/N1439	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1439/N1461	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1461/N1483	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1483/N1505	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1505/N1527	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1527/N1547	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1547/N1889	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1889/N1563	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1563/N1581	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1581/N1603	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1603/N1625	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1625/N1647	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N888/N910	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N910/N932	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N932/N954	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N954/N976	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N976/N998	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N998/N1020	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1020/N1848	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1848/N1042	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1042/N1064	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1064/N1086	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1086/N1108	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1108/N1130	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1130/N1152	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1152/N1808	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1808/N1174	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1174/N1196	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1196/N1218	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1218/N1240	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1240/N1262	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1262/N1284	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1284/N1768	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1768/N1306	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1306/N1328	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1328/N1350	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1350/N1372	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1372/N1394	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1394/N1416	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1416/N1737	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1737/N1438	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1438/N1460	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1460/N1482	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1482/N1504	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1504/N1526	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1580/N1602	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1602/N1624	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1624/N1646	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N887/N909	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N909/N931	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N931/N953	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N953/N975	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N975/N997	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N997/N1019	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1019/N1847	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1847/N1041	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1041/N1063	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1063/N1085	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1085/N1107	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1107/N1129	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1129/N1151	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1151/N1807	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1807/N1173	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1173/N1195	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1195/N1217	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1217/N1239	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1239/N1261	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1261/N1283	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1283/N1767	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1767/N1305	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1305/N1327	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1327/N1349	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1349/N1371	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1371/N1393	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1393/N1415	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1415/N1736	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1736/N1437	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1437/N1459	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1459/N1481	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1481/N1503	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1503/N1525	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1579/N1601	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1601/N1623	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1623/N1645	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N886/N908	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N908/N930	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N930/N952	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N952/N974	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N974/N996	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N996/N1018	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1018/N1846	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1846/N1040	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1040/N1062	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1062/N1084	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1084/N1106	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1106/N1128	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1128/N1150	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1150/N1806	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1806/N1172	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1172/N1194	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1194/N1216	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1216/N1238	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1238/N1260	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1260/N1282	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1282/N1766	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1766/N1304	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1304/N1326	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1326/N1348	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1348/N1370	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1370/N1392	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1392/N1414	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1414/N1735	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1735/N1436	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1436/N1458	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1458/N1480	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1480/N1502	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1502/N1524	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1524/N1546	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1546/N1886	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1886/N1562	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1562/N1578	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1578/N1600	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1600/N1622	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1622/N1644	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N885/N907	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N907/N929	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N929/N951	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N951/N973	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N973/N995	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N995/N1017	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1017/N1845	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1845/N1039	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1039/N1061	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1061/N1083	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1083/N1105	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1105/N1127	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1127/N1149	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1149/N1805	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1805/N1171	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1171/N1193	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1193/N1215	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1215/N1237	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1237/N1259	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1259/N1281	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1281/N1765	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1765/N1303	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1303/N1325	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1325/N1347	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1347/N1369	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1369/N1391	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1391/N1413	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1413/N1734	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1734/N1435	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1435/N1457	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1457/N1479	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1479/N1501	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1501/N1523	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1523/N1545	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1545/N1885	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1885/N1561	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1561/N1577	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1577/N1599	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1599/N1621	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1621/N1643	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N884/N906	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N906/N928	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N928/N950	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N950/N972	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N972/N994	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N994/N1016	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1016/N1844	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1844/N1038	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1038/N1060	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1060/N1082	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1082/N1104	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1104/N1126	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1126/N1148	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1148/N1804	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Listados
Coberta de 46'8x28'6 malla tetràedres
Fecha: 13/11/24

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1804/N1170	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1170/N1192	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1192/N1214	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1214/N1236	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1236/N1258	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1258/N1280	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1280/N1764	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1764/N1302	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1302/N1324	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1324/N1346	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1346/N1368	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1368/N1390	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1390/N1412	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1412/N1733	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1733/N1434	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1434/N1456	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1456/N1478	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1478/N1500	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1500/N1522	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1522/N1544	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1544/N1884	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1884/N1560	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1560/N1576	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1576/N1598	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1598/N1620	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1620/N1642	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N883/N905	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N905/N927	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N927/N949	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N949/N971	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N971/N993	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N993/N1015	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1015/N1856	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1856/N1037	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1037/N1059	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1059/N1081	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1081/N1103	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1103/N1125	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1125/N1147	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1147/N1816	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1816/N1169	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1169/N1191	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1191/N1213	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1213/N1235	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1235/N1257	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1257/N1279	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1279/N1776	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1776/N1301	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1301/N1323	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1323/N1345	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1345/N1367	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1367/N1389	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1389/N1411	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1411/N1732	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1732/N1433	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1433/N1455	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1455/N1477	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1477/N1499	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1499/N1521	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1521/N1543	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1543/N1896	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1896/N1559	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1559/N1575	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1575/N1597	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1597/N1619	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1619/N1641	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N882/N904	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N904/N926	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N926/N948	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N948/N970	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N970/N992	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N992/N1014	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1014/N1036	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1036/N1058	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1058/N1080	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1080/N1102	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1102/N1124	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1124/N1146	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1146/N1168	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1168/N1190	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1190/N1212	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1212/N1234	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1234/N1256	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1256/N1278	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1278/N1300	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1300/N1322	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1322/N1344	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1344/N1366	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1366/N1388	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1388/N1410	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1410/N1432	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1432/N1454	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1454/N1476	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1476/N1498	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1498/N1520	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1520/N1542	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1542/N1558	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1558/N1574	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1574/N1596	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1596/N1618	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1618/N1640	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N903/N32	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N903/N55	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N902/N55	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N902/N54	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N901/N54	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N901/N53	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N900/N53	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N900/N52	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N899/N52	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N899/N51	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N898/N51	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N898/N50	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N897/N50	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N897/N49	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N896/N49	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N896/N48	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N895/N48	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N895/N47	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N894/N47	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N894/N46	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N893/N46	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N893/N45	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N892/N45	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N892/N44	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N891/N44	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N891/N43	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N890/N43	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N890/N42	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N889/N42	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N889/N41	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N888/N41	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N888/N40	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N887/N40	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N887/N39	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N886/N39	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N886/N38	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N885/N38	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N885/N37	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N884/N37	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N884/N36	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N883/N36	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N883/N35	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N882/N35	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N882/N33	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N903/N78	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N903/N77	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N902/N77	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N902/N76	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N901/N76	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N901/N75	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N900/N75	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N900/N74	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N899/N74	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N899/N73	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N898/N73	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N898/N72	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N897/N72	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N897/N71	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N896/N71	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N896/N70	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N895/N70	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N895/N69	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N894/N69	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N894/N68	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N893/N68	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N893/N67	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N892/N67	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N892/N66	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N891/N66	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N891/N65	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N890/N65	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N890/N64	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N889/N64	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N889/N63	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N888/N63	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N888/N62	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N887/N62	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N887/N61	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N886/N61	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N886/N60	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N885/N60	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N885/N59	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N884/N59	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N884/N58	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N883/N58	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N883/N57	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N882/N57	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N882/N56	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N925/N78	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N925/N77	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N924/N77	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N924/N76	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N923/N76	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N923/N75	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N922/N75	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N922/N74	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N921/N74	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N921/N73	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N920/N73	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N920/N72	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N919/N72	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N919/N71	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N918/N71	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N918/N70	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N917/N70	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N917/N69	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N916/N69	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N916/N68	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N915/N68	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N915/N67	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N914/N67	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N914/N66	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N913/N66	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N913/N65	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N912/N65	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N912/N64	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N911/N64	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N911/N63	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N910/N63	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N910/N62	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N909/N62	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N909/N61	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N908/N61	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N908/N60	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N907/N60	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N907/N59	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N906/N59	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N906/N58	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N905/N58	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N905/N57	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N904/N57	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N904/N56	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N925/N101	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N925/N100	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N924/N100	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N924/N99	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N923/N99	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N923/N98	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N922/N98	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N922/N97	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N921/N97	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N921/N96	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N920/N96	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N920/N95	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N919/N95	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N919/N94	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N918/N94	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N918/N93	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N917/N93	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N917/N92	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N916/N92	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N916/N91	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N915/N91	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N915/N90	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N914/N90	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N914/N89	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N913/N89	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N913/N88	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N912/N88	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N912/N87	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N911/N87	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N911/N86	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N910/N86	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N910/N85	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N909/N85	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N909/N84	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N908/N84	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N908/N83	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N907/N83	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N907/N82	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N906/N82	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N906/N81	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N905/N81	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N905/N80	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N904/N80	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N904/N79	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N947/N101	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N947/N100	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N946/N100	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N946/N99	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N945/N99	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N945/N98	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N944/N98	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N944/N97	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N943/N97	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N943/N96	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N942/N96	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N942/N95	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N941/N95	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N941/N94	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N940/N94	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N940/N93	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N939/N93	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N939/N92	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N938/N92	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N938/N91	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N937/N91	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N937/N90	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N936/N90	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N936/N89	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N935/N89	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N935/N88	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N934/N88	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N934/N87	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N933/N87	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N933/N86	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N932/N86	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N932/N85	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N931/N85	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N931/N84	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N930/N84	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N930/N83	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N929/N83	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N929/N82	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N928/N82	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N928/N81	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N927/N81	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N927/N80	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N926/N80	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N926/N79	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N947/N124	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N947/N123	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N946/N123	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N946/N122	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N945/N122	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N945/N121	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N944/N121	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N944/N120	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N943/N120	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N943/N119	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N942/N119	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N942/N118	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N941/N118	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N941/N117	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N940/N117	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N940/N116	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N939/N116	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N939/N115	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N938/N115	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N938/N114	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N937/N114	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N937/N113	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N936/N113	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N936/N112	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N935/N112	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N935/N111	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N934/N111	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N934/N110	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N933/N110	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N933/N109	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N932/N109	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N932/N108	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N931/N108	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N931/N107	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N930/N107	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N930/N106	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N929/N106	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N929/N105	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N928/N105	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N928/N104	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N927/N104	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N927/N103	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N926/N103	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N926/N102	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N969/N124	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N969/N123	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N968/N123	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N968/N122	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N967/N122	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N967/N121	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N966/N121	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N966/N120	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N965/N120	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N965/N119	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N964/N119	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N964/N118	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N963/N118	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N963/N117	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N962/N117	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N962/N116	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N961/N116	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N961/N115	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N960/N115	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N960/N114	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N959/N114	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N959/N113	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N958/N113	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N958/N112	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N957/N112	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N957/N111	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N956/N111	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N956/N110	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N955/N110	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N955/N109	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N954/N109	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N954/N108	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N953/N108	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N953/N107	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N952/N107	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N952/N106	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N951/N106	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N951/N105	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N950/N105	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N950/N104	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N949/N104	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N949/N103	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N948/N103	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N948/N102	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N969/N147	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N969/N146	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N968/N146	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N968/N145	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N967/N145	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N967/N144	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N966/N144	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N966/N143	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N965/N143	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N965/N142	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N964/N142	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N964/N141	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N963/N141	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N963/N140	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N962/N140	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N962/N139	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N961/N139	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N961/N138	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N960/N138	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N960/N137	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N959/N137	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N959/N136	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N958/N136	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N958/N135	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N957/N135	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N957/N134	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N956/N134	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N956/N133	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N955/N133	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N955/N132	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N954/N132	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N954/N131	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N953/N131	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N953/N130	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N952/N130	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N952/N129	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N951/N129	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N951/N128	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N950/N128	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N950/N127	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N949/N127	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N949/N126	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N948/N126	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N948/N125	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N991/N147	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N991/N146	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N990/N146	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N990/N145	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N989/N145	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N989/N144	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N988/N144	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N988/N143	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N987/N143	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N987/N142	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N986/N142	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N986/N141	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N985/N141	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N985/N140	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N984/N140	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N984/N139	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N983/N139	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N983/N138	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N982/N138	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N982/N137	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N981/N137	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N981/N136	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N980/N136	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N980/N135	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N979/N135	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N979/N134	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N978/N134	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N978/N133	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N977/N133	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N977/N132	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N976/N132	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N976/N131	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N975/N131	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N975/N130	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N974/N130	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N974/N129	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N973/N129	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N973/N128	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N972/N128	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N972/N127	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N971/N127	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N971/N126	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N970/N126	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N970/N125	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N991/N170	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N991/N169	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N990/N169	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N990/N168	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N989/N168	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N989/N167	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N988/N167	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N988/N166	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N987/N166	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N987/N165	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N986/N165	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N986/N164	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N985/N164	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N985/N163	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N984/N163	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N984/N162	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N983/N162	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N983/N161	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N982/N161	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N982/N160	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N981/N160	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N981/N159	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N980/N159	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N980/N158	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N979/N158	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N979/N157	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N978/N157	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N978/N156	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N977/N156	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N977/N155	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N976/N155	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N976/N154	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N975/N154	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N975/N153	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N974/N153	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N974/N152	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N973/N152	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N973/N151	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N972/N151	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N972/N150	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N971/N150	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N971/N149	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N970/N149	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N970/N148	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1013/N170	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1013/N169	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1012/N169	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1012/N168	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1011/N168	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1011/N167	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1010/N167	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1010/N166	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1009/N166	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1009/N165	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1008/N165	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1008/N164	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1007/N164	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1007/N163	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1006/N163	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1006/N162	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1005/N162	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1005/N161	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1004/N161	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1004/N160	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1003/N160	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1003/N159	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1002/N159	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1002/N158	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1001/N158	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1001/N157	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1000/N157	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1000/N156	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N999/N156	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N999/N155	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N998/N155	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N998/N154	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N997/N154	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N997/N153	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N996/N153	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N996/N152	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N995/N152	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N995/N151	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N994/N151	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N994/N150	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N993/N150	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N993/N149	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N992/N149	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N992/N148	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1013/N193	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1013/N192	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1012/N192	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1012/N191	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1011/N191	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1011/N190	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1010/N190	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1010/N189	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1009/N189	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1009/N188	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1008/N188	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1008/N187	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1007/N187	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1007/N186	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1006/N186	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1006/N185	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1005/N185	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1005/N184	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1004/N184	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1004/N183	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1003/N183	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1003/N182	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1002/N182	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1002/N181	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1001/N181	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1001/N180	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1000/N180	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1000/N179	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N999/N179	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N999/N178	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N998/N178	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N998/N177	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N997/N177	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N997/N176	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N996/N176	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N996/N175	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N995/N175	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N995/N174	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N994/N174	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N994/N173	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N993/N173	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N993/N172	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N992/N172	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N992/N171	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1035/N193	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1035/N192	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1034/N192	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1034/N191	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1033/N191	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1033/N190	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1032/N190	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1032/N189	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1031/N189	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1031/N188	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1030/N188	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1030/N187	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1029/N187	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1029/N186	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1028/N186	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1028/N185	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1027/N185	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1027/N184	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1026/N184	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1026/N183	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1025/N183	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1025/N182	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1024/N182	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1024/N181	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1023/N181	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1023/N180	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1022/N180	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1022/N179	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1021/N179	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1021/N178	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1020/N178	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1020/N177	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1019/N177	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1019/N176	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1018/N176	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1018/N175	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1017/N175	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1017/N174	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1016/N174	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1016/N173	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1015/N173	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1015/N172	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1014/N172	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1014/N171	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1035/N216	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1035/N215	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1034/N215	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1034/N214	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1033/N214	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1033/N213	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1032/N213	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1032/N212	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1031/N212	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1031/N211	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1030/N211	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1030/N210	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1029/N210	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1029/N209	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1028/N209	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1028/N208	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1027/N208	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1027/N207	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1026/N207	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1026/N206	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1025/N206	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1025/N205	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1024/N205	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1024/N204	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1023/N204	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1023/N203	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1022/N203	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1022/N202	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1021/N202	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1021/N201	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1020/N201	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1020/N200	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1019/N200	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1019/N199	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1018/N199	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1018/N198	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1017/N198	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1017/N197	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1016/N197	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1016/N196	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1015/N196	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1015/N195	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1014/N195	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1014/N194	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1057/N216	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1057/N215	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1056/N215	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1056/N214	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1055/N214	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1055/N213	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1054/N213	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1054/N212	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1053/N212	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1053/N211	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1052/N211	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1052/N210	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1051/N210	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1051/N209	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1050/N209	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1050/N208	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1049/N208	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1049/N207	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1048/N207	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1048/N206	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1047/N206	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1047/N205	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1046/N205	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1046/N204	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1045/N204	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1045/N203	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1044/N203	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1044/N202	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1043/N202	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1043/N201	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1042/N201	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1042/N200	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1041/N200	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1041/N199	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1040/N199	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1040/N198	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1039/N198	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1039/N197	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1038/N197	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1038/N196	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1037/N196	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1037/N195	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1036/N195	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1036/N194	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1057/N239	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1057/N238	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1056/N238	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1056/N237	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1055/N237	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1055/N236	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1054/N236	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1054/N235	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1053/N235	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1053/N234	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1052/N234	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1052/N233	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1051/N233	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1051/N232	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1050/N232	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1050/N231	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1049/N231	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1049/N230	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1048/N230	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1048/N229	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1047/N229	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1047/N228	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1046/N228	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1046/N227	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1045/N227	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1045/N226	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1044/N226	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1044/N225	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1043/N225	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1043/N224	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1042/N224	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1042/N223	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1041/N223	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1041/N222	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1040/N222	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1040/N221	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1039/N221	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1039/N220	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1038/N220	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1038/N219	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1037/N219	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1037/N218	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1036/N218	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1036/N217	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1079/N239	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1079/N238	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1078/N238	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1078/N237	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1077/N237	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1077/N236	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1076/N236	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1076/N235	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1075/N235	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1075/N234	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1074/N234	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1074/N233	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1073/N233	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1073/N232	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1072/N232	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1072/N231	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1071/N231	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1071/N230	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1070/N230	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1070/N229	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1069/N229	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1069/N228	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1068/N228	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1068/N227	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1067/N227	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1067/N226	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1066/N226	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1066/N225	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1065/N225	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1065/N224	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1064/N224	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1064/N223	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1063/N223	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1063/N222	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1062/N222	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1062/N221	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1061/N221	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1061/N220	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1060/N220	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1060/N219	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1059/N219	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1059/N218	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1058/N218	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1058/N217	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1079/N262	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1079/N261	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1078/N261	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1078/N260	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1077/N260	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1077/N259	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1076/N259	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1076/N258	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1075/N258	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1075/N257	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1074/N257	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1074/N256	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1073/N256	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1073/N255	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1072/N255	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1072/N254	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1071/N254	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1071/N253	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1070/N253	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1070/N252	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1069/N252	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1069/N251	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1068/N251	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1068/N250	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1067/N250	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1067/N249	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1066/N249	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1066/N248	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1065/N248	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1065/N247	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1064/N247	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1064/N246	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1063/N246	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1063/N245	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1062/N245	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1062/N244	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1061/N244	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1061/N243	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1060/N243	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1060/N242	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1059/N242	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1059/N241	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1058/N241	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1058/N240	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1101/N262	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1101/N261	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1100/N261	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1100/N260	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1099/N260	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1099/N259	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1098/N259	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1098/N258	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1097/N258	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1097/N257	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1096/N257	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1096/N256	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1095/N256	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1095/N255	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1094/N255	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1094/N254	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1093/N254	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1093/N253	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1092/N253	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1092/N252	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1091/N252	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1091/N251	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1090/N251	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1090/N250	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1089/N250	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1089/N249	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1088/N249	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1088/N248	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1087/N248	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1087/N247	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1086/N247	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1086/N246	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1085/N246	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1085/N245	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1084/N245	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1084/N244	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1083/N244	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1083/N243	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1082/N243	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1082/N242	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1081/N242	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1081/N241	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1080/N241	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1080/N240	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1101/N285	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1101/N284	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1100/N284	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1100/N283	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1099/N283	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1099/N282	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1098/N282	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1098/N281	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1097/N281	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1097/N280	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1096/N280	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1096/N279	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1095/N279	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1095/N278	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1094/N278	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1094/N277	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1093/N277	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1093/N276	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1092/N276	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1092/N275	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1091/N275	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1091/N274	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1090/N274	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1090/N273	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1089/N273	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1089/N272	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1088/N272	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1088/N271	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1087/N271	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1087/N270	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1086/N270	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1086/N269	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1085/N269	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1085/N268	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1084/N268	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1084/N267	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1083/N267	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1083/N266	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1082/N266	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1082/N265	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1081/N265	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1081/N264	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1080/N264	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1080/N263	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1123/N285	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1123/N284	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1122/N284	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1122/N283	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1121/N283	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1121/N282	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1120/N282	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1120/N281	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1119/N281	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1119/N280	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1118/N280	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1118/N279	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1117/N279	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1117/N278	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1116/N278	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1116/N277	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1115/N277	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1115/N276	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1114/N276	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1114/N275	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1113/N275	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1113/N274	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1112/N274	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1112/N273	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1111/N273	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1111/N272	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1110/N272	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1110/N271	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1109/N271	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1109/N270	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1108/N270	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1108/N269	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1107/N269	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1107/N268	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1106/N268	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1106/N267	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1105/N267	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1105/N266	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1104/N266	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1104/N265	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1103/N265	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1103/N264	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1102/N264	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1102/N263	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1123/N308	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1123/N307	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1122/N307	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1122/N306	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1121/N306	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1121/N305	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1120/N305	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1120/N304	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1119/N304	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1119/N303	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1118/N303	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1118/N302	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1117/N302	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1117/N301	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1116/N301	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1116/N300	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1115/N300	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1115/N299	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1114/N299	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1114/N298	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1113/N298	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1113/N297	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1112/N297	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1112/N296	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1111/N296	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1111/N295	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1110/N295	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1110/N294	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1109/N294	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1109/N293	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1108/N293	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1108/N292	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1107/N292	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1107/N291	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1106/N291	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1106/N290	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1105/N290	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1105/N289	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1104/N289	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1104/N288	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1103/N288	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1103/N287	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1102/N287	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1102/N286	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1145/N308	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1145/N307	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1144/N307	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1144/N306	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1143/N306	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1143/N305	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1142/N305	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1142/N304	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1141/N304	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1141/N303	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1140/N303	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1140/N302	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1139/N302	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1139/N301	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1138/N301	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1138/N300	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1137/N300	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1137/N299	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1136/N299	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1136/N298	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1135/N298	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1135/N297	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1134/N297	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1134/N296	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1133/N296	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1133/N295	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1132/N295	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1132/N294	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1131/N294	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1131/N293	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1130/N293	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1130/N292	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1129/N292	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1129/N291	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1128/N291	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1128/N290	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1127/N290	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1127/N289	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1126/N289	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1126/N288	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1125/N288	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1125/N287	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1124/N287	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1124/N286	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1145/N331	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1145/N330	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1144/N330	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1144/N329	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1143/N329	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1143/N328	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1142/N328	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1142/N327	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1141/N327	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1141/N326	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1140/N326	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1140/N325	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1139/N325	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1139/N324	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1138/N324	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1138/N323	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1137/N323	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1137/N322	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1136/N322	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1136/N321	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1135/N321	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1135/N320	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1134/N320	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1134/N319	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1133/N319	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1133/N318	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1132/N318	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1132/N317	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1131/N317	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1131/N316	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1130/N316	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1130/N315	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1129/N315	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1129/N314	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1128/N314	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1128/N313	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1127/N313	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1127/N312	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1126/N312	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1126/N311	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1125/N311	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1125/N310	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1124/N310	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1124/N309	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1167/N331	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1167/N330	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1166/N330	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1166/N329	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1165/N329	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1165/N328	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1164/N328	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1164/N327	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1163/N327	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1163/N326	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1162/N326	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1162/N325	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1161/N325	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1161/N324	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1160/N324	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1160/N323	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1159/N323	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1159/N322	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1158/N322	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1158/N321	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1157/N321	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1157/N320	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1156/N320	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1156/N319	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1155/N319	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1155/N318	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1154/N318	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1154/N317	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1153/N317	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1153/N316	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1152/N316	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1152/N315	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1151/N315	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1151/N314	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1150/N314	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1150/N313	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1149/N313	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1149/N312	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1148/N312	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1148/N311	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1147/N311	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1147/N310	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1146/N310	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1146/N309	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1167/N354	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1167/N353	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1166/N353	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1166/N352	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1165/N352	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1165/N351	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1164/N351	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1164/N350	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1163/N350	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1163/N349	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1162/N349	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1162/N348	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1161/N348	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1161/N347	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1160/N347	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1160/N346	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1159/N346	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1159/N345	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1158/N345	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1158/N344	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1157/N344	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1157/N343	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1156/N343	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1156/N342	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1155/N342	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1155/N341	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1154/N341	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1154/N340	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1153/N340	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1153/N339	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1152/N339	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1152/N338	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1151/N338	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1151/N337	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1150/N337	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1150/N336	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1149/N336	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1149/N335	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1148/N335	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1148/N334	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1147/N334	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1147/N333	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1146/N333	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1146/N332	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1189/N354	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1189/N353	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1188/N353	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1188/N352	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1187/N352	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1187/N351	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1186/N351	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1186/N350	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1185/N350	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1185/N349	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1184/N349	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1184/N348	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1183/N348	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1183/N347	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1182/N347	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1182/N346	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1181/N346	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1181/N345	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1180/N345	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1180/N344	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1179/N344	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1179/N343	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1178/N343	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1178/N342	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1177/N342	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1177/N341	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1176/N341	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1176/N340	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1175/N340	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1175/N339	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1174/N339	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1174/N338	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1173/N338	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1173/N337	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1172/N337	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1172/N336	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1171/N336	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1171/N335	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1170/N335	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1170/N334	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1169/N334	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1169/N333	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1168/N333	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1168/N332	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1189/N377	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1189/N376	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1188/N376	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1188/N375	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1187/N375	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1187/N374	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1186/N374	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1186/N373	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1185/N373	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1185/N372	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1184/N372	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1184/N371	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1183/N371	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1183/N370	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1182/N370	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1182/N369	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1181/N369	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1181/N368	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1180/N368	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1180/N367	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1179/N367	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1179/N366	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1178/N366	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1178/N365	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1177/N365	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1177/N364	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1176/N364	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1176/N363	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1175/N363	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1175/N362	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1174/N362	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1174/N361	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1173/N361	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1173/N360	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1172/N360	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1172/N359	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1171/N359	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1171/N358	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1170/N358	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1170/N357	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1169/N357	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1169/N356	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1168/N356	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1168/N355	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1211/N377	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1211/N376	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1210/N376	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1210/N375	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1209/N375	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1209/N374	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1208/N374	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1208/N373	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1207/N373	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1207/N372	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1206/N372	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1206/N371	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1205/N371	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1205/N370	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1204/N370	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1204/N369	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1203/N369	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1203/N368	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1202/N368	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1202/N367	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1201/N367	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1201/N366	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1200/N366	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1200/N365	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1199/N365	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1199/N364	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1198/N364	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1198/N363	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1197/N363	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1197/N362	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1196/N362	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1196/N361	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1195/N361	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1195/N360	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1194/N360	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1194/N359	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1193/N359	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1193/N358	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1192/N358	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1192/N357	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1191/N357	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1191/N356	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1190/N356	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1190/N355	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1211/N400	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1211/N399	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1210/N399	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1210/N398	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1209/N398	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1209/N397	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1208/N397	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1208/N396	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1207/N396	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1207/N395	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1206/N395	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1206/N394	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1205/N394	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1205/N393	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1204/N393	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1204/N392	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1203/N392	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1203/N391	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1202/N391	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1202/N390	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1201/N390	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1201/N389	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1200/N389	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1200/N388	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1199/N388	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1199/N387	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1198/N387	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1198/N386	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1197/N386	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1197/N385	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1196/N385	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1196/N384	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1195/N384	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1195/N383	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1194/N383	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1194/N382	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1193/N382	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1193/N381	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1192/N381	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1192/N380	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1191/N380	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1191/N379	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1190/N379	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1190/N378	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1233/N400	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1233/N399	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1232/N399	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1232/N398	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1231/N398	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1231/N397	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1230/N397	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1230/N396	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1229/N396	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1229/N395	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1228/N395	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1228/N394	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1227/N394	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1227/N393	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1226/N393	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1226/N392	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1225/N392	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1225/N391	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1224/N391	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1224/N390	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1223/N390	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1223/N389	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1222/N389	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1222/N388	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1221/N388	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1221/N387	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1220/N387	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1220/N386	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1219/N386	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1219/N385	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1218/N385	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1218/N384	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1217/N384	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1217/N383	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1216/N383	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1216/N382	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1215/N382	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1215/N381	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1214/N381	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1214/N380	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1213/N380	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1213/N379	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1212/N379	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1212/N378	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1233/N423	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1233/N422	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1232/N422	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1232/N421	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1231/N421	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1231/N420	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1230/N420	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1230/N419	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1229/N419	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1229/N418	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1228/N418	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1228/N417	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1227/N417	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1227/N416	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1226/N416	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1226/N415	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1225/N415	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1225/N414	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1224/N414	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1224/N413	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1223/N413	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1223/N412	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1222/N412	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1222/N411	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1221/N411	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1221/N410	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1220/N410	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1220/N409	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1219/N409	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1219/N408	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1218/N408	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1218/N407	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1217/N407	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1217/N406	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1216/N406	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1216/N405	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1215/N405	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1215/N404	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1214/N404	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1214/N403	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1213/N403	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1213/N402	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1212/N402	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1212/N401	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1255/N423	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1255/N422	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1254/N422	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1254/N421	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1253/N421	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1253/N420	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1252/N420	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1252/N419	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1251/N419	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1251/N418	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1250/N418	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1250/N417	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1249/N417	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1249/N416	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1248/N416	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1248/N415	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1247/N415	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1247/N414	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1246/N414	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1246/N413	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1245/N413	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1245/N412	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1244/N412	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1244/N411	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1243/N411	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1243/N410	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1242/N410	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1242/N409	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1241/N409	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1241/N408	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1240/N408	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1240/N407	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1239/N407	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1239/N406	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1238/N406	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1238/N405	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1237/N405	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1237/N404	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1236/N404	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1236/N403	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1235/N403	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1235/N402	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1234/N402	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1234/N401	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1255/N446	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1255/N445	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1254/N445	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1254/N444	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1253/N444	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1253/N443	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1252/N443	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1252/N442	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1251/N442	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1251/N441	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1250/N441	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1250/N440	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1249/N440	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1249/N439	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1248/N439	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1248/N438	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1247/N438	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1247/N437	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1246/N437	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1246/N436	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1245/N436	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1245/N435	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1244/N435	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1244/N434	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1243/N434	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1243/N433	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1242/N433	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1242/N432	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1241/N432	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1241/N431	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1240/N431	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1240/N430	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1239/N430	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1239/N429	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1238/N429	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1238/N428	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1237/N428	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1237/N427	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1236/N427	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1236/N426	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1235/N426	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1235/N425	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1234/N425	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1234/N424	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1277/N446	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1277/N445	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1276/N445	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1276/N444	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1275/N444	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1275/N443	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1274/N443	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1274/N442	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1273/N442	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1273/N441	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1272/N441	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1272/N440	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1271/N440	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1271/N439	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1270/N439	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1270/N438	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1269/N438	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1269/N437	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1268/N437	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1268/N436	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1267/N436	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1267/N435	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1266/N435	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1266/N434	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1265/N434	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1265/N433	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1264/N433	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1264/N432	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1263/N432	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1263/N431	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1262/N431	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1262/N430	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1261/N430	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1261/N429	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1260/N429	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1260/N428	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1259/N428	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1259/N427	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1258/N427	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1258/N426	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1257/N426	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1257/N425	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1256/N425	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1256/N424	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1277/N469	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1277/N468	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1276/N468	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1276/N467	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1275/N467	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1275/N466	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1274/N466	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1274/N465	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1273/N465	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1273/N464	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1272/N464	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1272/N463	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1271/N463	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1271/N462	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1270/N462	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1270/N461	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1269/N461	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1269/N460	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1268/N460	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1268/N459	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1267/N459	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1267/N458	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1266/N458	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1266/N457	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1265/N457	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1265/N456	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1264/N456	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1264/N455	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1263/N455	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1263/N454	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1262/N454	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1262/N453	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1261/N453	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1261/N452	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1260/N452	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1260/N451	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1259/N451	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1259/N450	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1258/N450	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1258/N449	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1257/N449	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1257/N448	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1256/N448	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1256/N447	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1299/N469	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1299/N468	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1298/N468	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1298/N467	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1297/N467	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1297/N466	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1296/N466	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1296/N465	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1295/N465	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1295/N464	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1294/N464	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1294/N463	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1293/N463	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1293/N462	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1292/N462	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1292/N461	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1291/N461	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1291/N460	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1290/N460	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1290/N459	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1289/N459	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1289/N458	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1288/N458	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1288/N457	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1287/N457	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1287/N456	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1286/N456	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1286/N455	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1285/N455	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1285/N454	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1284/N454	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1284/N453	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1283/N453	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1283/N452	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1282/N452	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1282/N451	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1281/N451	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1281/N450	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1280/N450	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1280/N449	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1279/N449	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1279/N448	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1278/N448	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1278/N447	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1299/N492	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1299/N491	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1298/N491	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1298/N490	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1297/N490	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1297/N489	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1296/N489	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1296/N488	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1295/N488	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1295/N487	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1294/N487	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1294/N486	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1293/N486	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1293/N485	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1292/N485	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1292/N484	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1291/N484	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1291/N483	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1290/N483	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1290/N482	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1289/N482	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1289/N481	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1288/N481	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1288/N480	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1287/N480	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1287/N479	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1286/N479	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1286/N478	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1285/N478	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1285/N477	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1284/N477	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1284/N476	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1283/N476	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1283/N475	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1282/N475	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1282/N474	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1281/N474	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1281/N473	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1280/N473	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1280/N472	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1279/N472	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1279/N471	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1278/N471	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1278/N470	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1321/N492	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1321/N491	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1320/N491	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1320/N490	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1319/N490	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1319/N489	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1318/N489	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1318/N488	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1317/N488	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1317/N487	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1316/N487	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1316/N486	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1315/N486	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1315/N485	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1314/N485	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1314/N484	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1313/N484	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1313/N483	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1312/N483	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1312/N482	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1311/N482	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1311/N481	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1310/N481	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1310/N480	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1309/N480	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1309/N479	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1308/N479	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1308/N478	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1307/N478	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1307/N477	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1306/N477	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1306/N476	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1305/N476	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1305/N475	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1304/N475	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1304/N474	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1303/N474	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1303/N473	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1302/N473	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1302/N472	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1301/N472	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1301/N471	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1300/N471	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1300/N470	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1321/N515	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1321/N514	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1320/N514	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1320/N513	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1319/N513	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1319/N512	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1318/N512	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1318/N511	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1317/N511	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1317/N510	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1316/N510	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1316/N509	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1315/N509	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1315/N508	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1314/N508	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1314/N507	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1313/N507	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1313/N506	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1312/N506	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1312/N505	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1311/N505	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1311/N504	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1310/N504	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1310/N503	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1309/N503	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1309/N502	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1308/N502	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1308/N501	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1307/N501	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1307/N500	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1306/N500	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1306/N499	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1305/N499	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1305/N498	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1304/N498	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1304/N497	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1303/N497	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1303/N496	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1302/N496	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1302/N495	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1301/N495	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1301/N494	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1300/N494	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1300/N493	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1343/N515	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1343/N514	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1342/N514	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1342/N513	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1341/N513	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1341/N512	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1340/N512	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1340/N511	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1339/N511	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1339/N510	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1338/N510	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1338/N509	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1337/N509	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1337/N508	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1336/N508	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1336/N507	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1335/N507	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1335/N506	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1334/N506	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1334/N505	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1333/N505	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1333/N504	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1332/N504	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1332/N503	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1331/N503	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1331/N502	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1330/N502	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1330/N501	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1329/N501	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1329/N500	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1328/N500	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1328/N499	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1327/N499	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1327/N498	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1326/N498	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1326/N497	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1325/N497	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1325/N496	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1324/N496	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1324/N495	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1323/N495	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1323/N494	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1322/N494	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1322/N493	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1343/N538	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1343/N537	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1342/N537	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1342/N536	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1341/N536	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1341/N535	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1340/N535	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1340/N534	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1339/N534	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1339/N533	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1338/N533	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1338/N532	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1337/N532	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1337/N531	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1336/N531	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1336/N530	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1335/N530	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1335/N529	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1334/N529	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1334/N528	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1333/N528	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1333/N527	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1332/N527	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1332/N526	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1331/N526	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1331/N525	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1330/N525	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1330/N524	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1329/N524	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1329/N523	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1328/N523	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1328/N522	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1327/N522	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1327/N521	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1326/N521	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1326/N520	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1325/N520	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1325/N519	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1324/N519	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1324/N518	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1323/N518	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1323/N517	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1322/N517	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1322/N516	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1365/N538	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1365/N537	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1364/N537	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1364/N536	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1363/N536	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1363/N535	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1362/N535	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1362/N534	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1361/N534	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1361/N533	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1360/N533	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1360/N532	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1359/N532	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1359/N531	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1358/N531	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1358/N530	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1357/N530	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1357/N529	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1356/N529	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1356/N528	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1355/N528	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1355/N527	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1354/N527	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1354/N526	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1353/N526	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1353/N525	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1352/N525	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1352/N524	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1351/N524	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1351/N523	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1350/N523	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1350/N522	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1349/N522	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1349/N521	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1348/N521	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1348/N520	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1347/N520	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1347/N519	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1346/N519	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1346/N518	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1345/N518	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1345/N517	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1344/N517	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1344/N516	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1365/N561	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1365/N560	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1364/N560	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1364/N559	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1363/N559	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1363/N558	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1362/N558	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1362/N557	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1361/N557	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1361/N556	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1360/N556	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1360/N555	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1359/N555	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1359/N554	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1358/N554	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1358/N553	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1357/N553	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1357/N552	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1356/N552	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1356/N551	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1355/N551	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1355/N550	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1354/N550	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1354/N549	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1353/N549	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1353/N548	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1352/N548	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1352/N547	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1351/N547	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1351/N546	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1350/N546	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1350/N545	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1349/N545	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1349/N544	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1348/N544	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1348/N543	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1347/N543	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1347/N542	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1346/N542	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1346/N541	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1345/N541	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1345/N540	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1344/N540	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1344/N539	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1387/N561	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1387/N560	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1386/N560	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1386/N559	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1385/N559	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1385/N558	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1384/N558	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1384/N557	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1383/N557	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1383/N556	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1382/N556	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1382/N555	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1381/N555	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1381/N554	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1380/N554	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1380/N553	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1379/N553	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1379/N552	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1378/N552	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1378/N551	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1377/N551	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1377/N550	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1376/N550	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1376/N549	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1375/N549	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1375/N548	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1374/N548	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1374/N547	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1373/N547	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1373/N546	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1372/N546	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1372/N545	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1371/N545	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1371/N544	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1370/N544	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1370/N543	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1369/N543	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1369/N542	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1368/N542	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1368/N541	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1367/N541	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1367/N540	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1366/N540	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1366/N539	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1387/N584	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1387/N583	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1386/N583	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1386/N582	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1385/N582	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1385/N581	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1384/N581	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1384/N580	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1383/N580	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1383/N579	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1382/N579	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1382/N578	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1381/N578	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1381/N577	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1380/N577	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1380/N576	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1379/N576	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1379/N575	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1378/N575	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1378/N574	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1377/N574	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1377/N573	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1376/N573	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1376/N572	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1375/N572	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1375/N571	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1374/N571	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1374/N570	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1373/N570	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1373/N569	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1372/N569	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1372/N568	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1371/N568	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1371/N567	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1370/N567	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1370/N566	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1369/N566	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1369/N565	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1368/N565	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1368/N564	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1367/N564	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1367/N563	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1366/N563	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1366/N562	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1409/N584	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1409/N583	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1408/N583	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1408/N582	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1407/N582	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1407/N581	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1406/N581	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1406/N580	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1405/N580	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1405/N579	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1404/N579	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1404/N578	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1403/N578	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1403/N577	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1402/N577	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1402/N576	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1401/N576	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1401/N575	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1400/N575	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1400/N574	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1399/N574	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1399/N573	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1398/N573	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1398/N572	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1397/N572	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1397/N571	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1396/N571	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1396/N570	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1395/N570	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1395/N569	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1394/N569	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1394/N568	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1393/N568	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1393/N567	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1392/N567	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1392/N566	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1391/N566	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1391/N565	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1390/N565	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1390/N564	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1389/N564	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1389/N563	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1388/N563	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1388/N562	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1409/N607	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1409/N606	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1408/N606	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1408/N605	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1407/N605	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1407/N604	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1406/N604	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1406/N603	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1405/N603	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1405/N602	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1404/N602	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1404/N601	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1403/N601	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1403/N600	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1402/N600	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1402/N599	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1401/N599	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1401/N598	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1400/N598	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1400/N597	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1399/N597	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1399/N596	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1398/N596	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1398/N595	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1397/N595	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1397/N594	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1396/N594	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1396/N593	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1395/N593	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1395/N592	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1394/N592	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1394/N591	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1393/N591	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1393/N590	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1392/N590	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1392/N589	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1391/N589	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1391/N588	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1390/N588	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1390/N587	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1389/N587	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1389/N586	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1388/N586	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1388/N585	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1431/N607	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1431/N606	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1430/N606	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1430/N605	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1429/N605	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1429/N604	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1428/N604	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1428/N603	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1427/N603	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1427/N602	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1426/N602	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1426/N601	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1425/N601	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1425/N600	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1424/N600	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1424/N599	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1423/N599	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1423/N598	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1422/N598	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1422/N597	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1421/N597	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1421/N596	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1420/N596	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1420/N595	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1419/N595	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1419/N594	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1418/N594	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1418/N593	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1417/N593	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1417/N592	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1416/N592	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1416/N591	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1415/N591	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1415/N590	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1414/N590	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1414/N589	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1413/N589	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1413/N588	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1412/N588	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1412/N587	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1411/N587	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1411/N586	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1410/N586	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1410/N585	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1431/N630	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1431/N629	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1430/N629	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1430/N628	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1429/N628	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1429/N627	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1428/N627	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1428/N626	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1427/N626	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1427/N625	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1426/N625	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1426/N624	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1425/N624	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1425/N623	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1424/N623	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1424/N622	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1423/N622	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1423/N621	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1422/N621	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1422/N620	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1421/N620	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1421/N619	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1420/N619	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1420/N618	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1419/N618	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1419/N617	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1418/N617	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1418/N616	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1417/N616	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1417/N615	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1416/N615	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1416/N614	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1415/N614	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1415/N613	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1414/N613	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1414/N612	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1413/N612	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1413/N611	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1412/N611	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1412/N610	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1411/N610	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1411/N609	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1410/N609	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1410/N608	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1453/N630	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1453/N629	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1452/N629	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1452/N628	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1451/N628	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1451/N627	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1450/N627	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1450/N626	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1449/N626	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1449/N625	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1448/N625	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1448/N624	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1447/N624	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1447/N623	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1446/N623	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1446/N622	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1445/N622	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1445/N621	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1444/N621	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1444/N620	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1443/N620	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1443/N619	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1442/N619	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1442/N618	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1441/N618	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1441/N617	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1440/N617	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1440/N616	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1439/N616	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1439/N615	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1438/N615	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1438/N614	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1437/N614	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1437/N613	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1436/N613	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1436/N612	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1435/N612	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1435/N611	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1434/N611	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1434/N610	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1433/N610	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1433/N609	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1432/N609	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1432/N608	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1453/N653	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1453/N652	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1452/N652	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1452/N651	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1451/N651	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1451/N650	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1450/N650	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1450/N649	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1449/N649	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1449/N648	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1448/N648	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1448/N647	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1447/N647	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1447/N646	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1446/N646	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1446/N645	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1445/N645	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1445/N644	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1444/N644	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1444/N643	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1443/N643	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1443/N642	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1442/N642	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1442/N641	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1441/N641	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1441/N640	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1440/N640	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1440/N639	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1439/N639	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1439/N638	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1438/N638	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1438/N637	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1437/N637	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1437/N636	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1436/N636	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1436/N635	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1435/N635	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1435/N634	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1434/N634	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1434/N633	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1433/N633	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1433/N632	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1432/N632	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1432/N631	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1475/N653	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1475/N652	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1474/N652	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1474/N651	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1473/N651	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1473/N650	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1472/N650	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1472/N649	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1471/N649	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1471/N648	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1470/N648	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1470/N647	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1469/N647	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1469/N646	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1468/N646	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1468/N645	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1467/N645	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1467/N644	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1466/N644	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1466/N643	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1465/N643	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1465/N642	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1464/N642	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1464/N641	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1463/N641	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1463/N640	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1462/N640	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1462/N639	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1461/N639	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1461/N638	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1460/N638	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1460/N637	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1459/N637	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1459/N636	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1458/N636	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1458/N635	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1457/N635	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1457/N634	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1456/N634	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1456/N633	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1455/N633	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1455/N632	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1454/N632	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1454/N631	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1475/N676	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1475/N675	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1474/N675	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1474/N674	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1473/N674	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1473/N673	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1472/N673	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1472/N672	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1471/N672	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1471/N671	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1470/N671	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1470/N670	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1469/N670	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1469/N669	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1468/N669	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1468/N668	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1467/N668	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1467/N667	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1466/N667	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1466/N666	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1465/N666	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1465/N665	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1464/N665	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1464/N664	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1463/N664	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1463/N663	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1462/N663	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1462/N662	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1461/N662	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1461/N661	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1460/N661	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1460/N660	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1459/N660	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1459/N659	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1458/N659	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1458/N658	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1457/N658	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1457/N657	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1456/N657	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1456/N656	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1455/N656	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1455/N655	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1454/N655	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1454/N654	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1497/N676	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1497/N675	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1496/N675	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1496/N674	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1495/N674	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1495/N673	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1494/N673	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1494/N672	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1493/N672	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1493/N671	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1492/N671	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1492/N670	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1491/N670	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1491/N669	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1490/N669	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1490/N668	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1489/N668	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1489/N667	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1488/N667	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1488/N666	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1487/N666	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1487/N665	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1486/N665	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1486/N664	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1485/N664	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1485/N663	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1484/N663	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1484/N662	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1483/N662	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1483/N661	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1482/N661	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1482/N660	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1481/N660	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1481/N659	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1480/N659	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1480/N658	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1479/N658	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1479/N657	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1478/N657	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1478/N656	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1477/N656	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1477/N655	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1476/N655	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1476/N654	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1497/N699	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1497/N698	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1496/N698	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1496/N697	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1495/N697	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1495/N696	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1494/N696	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1494/N695	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1493/N695	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1493/N694	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1492/N694	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1492/N693	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1491/N693	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1491/N692	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1490/N692	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1490/N691	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1489/N691	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1489/N690	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1488/N690	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1488/N689	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1487/N689	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1487/N688	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1486/N688	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1486/N687	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1485/N687	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1485/N686	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1484/N686	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1484/N685	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1483/N685	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1483/N684	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1482/N684	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1482/N683	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1481/N683	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1481/N682	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1480/N682	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1480/N681	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1479/N681	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1479/N680	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1478/N680	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1478/N679	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1477/N679	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1477/N678	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1476/N678	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1476/N677	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1519/N699	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1519/N698	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1518/N698	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1518/N697	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1517/N697	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1517/N696	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1516/N696	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1516/N695	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1515/N695	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1515/N694	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1514/N694	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1514/N693	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1513/N693	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1513/N692	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1512/N692	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1512/N691	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1511/N691	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1511/N690	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1510/N690	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1510/N689	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1509/N689	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1509/N688	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1508/N688	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1508/N687	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1507/N687	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1507/N686	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1506/N686	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1506/N685	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1505/N685	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1505/N684	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1504/N684	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1504/N683	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1503/N683	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1503/N682	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1502/N682	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1502/N681	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1501/N681	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1501/N680	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1500/N680	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1500/N679	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1499/N679	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1499/N678	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1498/N678	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1498/N677	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1519/N722	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1519/N721	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1518/N721	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1518/N720	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1517/N720	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1517/N719	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1516/N719	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1516/N718	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1515/N718	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1515/N717	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1514/N717	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1514/N716	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1513/N716	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1513/N715	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1512/N715	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1512/N714	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1511/N714	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1511/N713	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1510/N713	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1510/N712	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1509/N712	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1509/N711	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1508/N711	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1508/N710	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1507/N710	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1507/N709	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1506/N709	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1506/N708	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1505/N708	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1505/N707	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1504/N707	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1504/N706	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1503/N706	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1503/N705	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1502/N705	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1502/N704	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1501/N704	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1501/N703	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1500/N703	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1500/N702	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1499/N702	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1499/N701	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1498/N701	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1498/N700	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1541/N722	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1541/N721	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1540/N721	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1540/N720	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1539/N720	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1539/N719	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1538/N719	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1538/N718	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1537/N718	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1537/N717	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1536/N717	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1536/N716	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1535/N716	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1535/N715	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1534/N715	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1534/N714	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1533/N714	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1533/N713	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1532/N713	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1532/N712	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1531/N712	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1531/N711	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1530/N711	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1530/N710	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1529/N710	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1529/N709	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1528/N709	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1528/N708	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1527/N708	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1527/N707	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1526/N707	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1526/N706	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1525/N706	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1525/N705	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1524/N705	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1524/N704	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1523/N704	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1523/N703	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1522/N703	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1522/N702	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1521/N702	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1521/N701	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1520/N701	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1520/N700	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1541/N745	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1541/N744	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1540/N744	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1540/N743	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1539/N743	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1539/N742	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1538/N742	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1538/N741	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1537/N741	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1537/N740	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1536/N740	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1536/N739	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1535/N739	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1535/N738	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1534/N738	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1534/N737	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1533/N737	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1533/N736	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1532/N736	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1532/N735	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1531/N735	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1531/N734	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1530/N734	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1530/N733	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1529/N733	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1529/N732	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1528/N732	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1528/N731	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1527/N731	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1527/N730	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1526/N730	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1526/N729	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1525/N729	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1525/N728	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1524/N728	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1524/N727	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1523/N727	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1523/N726	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1522/N726	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1522/N725	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1521/N725	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1521/N724	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1520/N724	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1520/N723	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1557/N745	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1557/N744	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1556/N744	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1556/N743	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1555/N743	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1555/N742	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1554/N742	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1554/N741	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1553/N741	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1553/N740	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1552/N738	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1552/N737	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1551/N737	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1551/N736	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1550/N736	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1550/N735	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1549/N733	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1549/N732	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1548/N732	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1548/N731	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1547/N731	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1547/N730	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1546/N728	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1546/N727	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1545/N727	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1545/N726	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1544/N726	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1544/N725	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1543/N725	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1543/N724	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1542/N724	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1542/N723	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1557/N768	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1557/N767	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1556/N767	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1556/N766	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1555/N766	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1555/N765	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1554/N765	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1554/N764	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1553/N764	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1553/N763	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1552/N761	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1552/N760	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1551/N760	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1551/N759	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1550/N759	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1550/N758	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1549/N756	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1549/N755	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1548/N755	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1548/N754	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1547/N754	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1547/N753	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1546/N751	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1546/N750	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1545/N750	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1545/N749	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1544/N749	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1544/N748	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1543/N748	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1543/N747	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1542/N747	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1542/N746	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1573/N768	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1573/N767	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1572/N767	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1572/N766	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1571/N766	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1571/N765	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1570/N765	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1570/N764	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1569/N764	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1569/N763	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1568/N761	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1568/N760	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1567/N760	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1567/N759	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1566/N759	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1566/N758	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1565/N756	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1565/N755	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1564/N755	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1564/N754	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1563/N754	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1563/N753	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1562/N751	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1562/N750	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1561/N750	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1561/N749	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1560/N749	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1560/N748	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1559/N748	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1559/N747	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1558/N747	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1558/N746	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1573/N791	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1573/N790	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1572/N790	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1572/N789	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1571/N789	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1571/N788	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1570/N788	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1570/N787	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1569/N787	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1569/N786	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1568/N784	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1568/N783	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1567/N783	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1567/N782	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1566/N782	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1566/N781	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1565/N779	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1565/N778	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1564/N778	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1564/N777	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1563/N777	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1563/N776	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1562/N774	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1562/N773	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1561/N773	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1561/N772	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1560/N772	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1560/N771	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1559/N771	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1559/N770	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1558/N770	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1558/N769	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1595/N791	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1595/N790	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1594/N790	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1594/N789	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1593/N789	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1593/N788	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1592/N788	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1592/N787	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1591/N787	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1591/N786	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1590/N786	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1590/N785	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1589/N785	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1589/N784	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1588/N784	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1588/N783	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1587/N783	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1587/N782	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1586/N782	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1586/N781	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1585/N781	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1585/N780	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1584/N780	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1584/N779	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1583/N779	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1583/N778	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1582/N778	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1582/N777	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1581/N777	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1581/N776	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1580/N776	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1580/N775	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1579/N775	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1579/N774	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1578/N774	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1578/N773	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1577/N773	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1577/N772	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1576/N772	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1576/N771	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1575/N771	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1575/N770	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1574/N770	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1574/N769	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1595/N814	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1595/N813	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1594/N813	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1594/N812	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1593/N812	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1593/N811	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1592/N811	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1592/N810	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1591/N810	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1591/N809	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1590/N809	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1590/N808	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1589/N808	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1589/N807	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1588/N807	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1588/N806	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1587/N806	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1587/N805	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1586/N805	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1586/N804	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1585/N804	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1585/N803	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1584/N803	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1584/N802	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1583/N802	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1583/N801	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1582/N801	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1582/N800	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1581/N800	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1581/N799	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1580/N799	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1580/N798	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1579/N798	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1579/N797	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1578/N797	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1578/N796	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1577/N796	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1577/N795	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1576/N795	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1576/N794	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1575/N794	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1575/N793	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1574/N793	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1574/N792	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1617/N814	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1617/N813	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1616/N813	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1616/N812	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1615/N812	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1615/N811	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1614/N811	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1614/N810	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1613/N810	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1613/N809	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1612/N809	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1612/N808	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1611/N808	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1611/N807	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1610/N807	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1610/N806	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1609/N806	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1609/N805	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1608/N805	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1608/N804	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1607/N804	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1607/N803	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1606/N803	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1606/N802	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1605/N802	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1605/N801	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1604/N801	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1604/N800	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1603/N800	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1603/N799	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1602/N799	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1602/N798	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1601/N798	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1601/N797	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1600/N797	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1600/N796	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1599/N796	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1599/N795	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1598/N795	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1598/N794	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1597/N794	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1597/N793	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1596/N793	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1596/N792	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1617/N837	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1617/N836	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1616/N836	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1616/N835	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1615/N835	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1615/N834	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1614/N834	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1614/N833	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1613/N833	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1613/N832	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1612/N832	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1612/N831	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1611/N831	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1611/N830	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1610/N830	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1610/N829	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1609/N829	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1609/N828	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1608/N828	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1608/N827	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1607/N827	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1607/N826	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1606/N826	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1606/N825	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1605/N825	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1605/N824	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1604/N824	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1604/N823	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1603/N823	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1603/N822	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1602/N822	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1602/N821	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1601/N821	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1601/N820	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1600/N820	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1600/N819	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1599/N819	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1599/N818	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1598/N818	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1598/N817	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1597/N817	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1597/N816	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1596/N816	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1596/N815	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1639/N837	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1639/N836	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1638/N836	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1638/N835	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1637/N835	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1637/N834	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1636/N834	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1636/N833	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1635/N833	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1635/N832	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1634/N832	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1634/N831	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1633/N831	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1633/N830	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1632/N830	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1632/N829	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1631/N829	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1631/N828	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1630/N828	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1630/N827	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1629/N827	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1629/N826	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1628/N826	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1628/N825	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1627/N825	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1627/N824	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1626/N824	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1626/N823	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1625/N823	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1625/N822	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1624/N822	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1624/N821	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1623/N821	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1623/N820	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1622/N820	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1622/N819	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1621/N819	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1621/N818	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1620/N818	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1620/N817	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1619/N817	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1619/N816	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1618/N816	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1618/N815	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1639/N860	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1639/N859	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1638/N859	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1638/N858	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1637/N858	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1637/N857	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1636/N857	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1636/N856	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1635/N856	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1635/N855	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1634/N855	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1634/N854	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1633/N854	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1633/N853	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1632/N853	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1632/N852	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1631/N852	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1631/N851	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1630/N851	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1630/N850	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1629/N850	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1629/N849	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1628/N849	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1628/N848	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1627/N848	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1627/N847	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1626/N847	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1626/N846	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1625/N846	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1625/N845	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1624/N845	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1624/N844	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1623/N844	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1623/N843	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1622/N843	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1622/N842	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1621/N842	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1621/N841	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1620/N841	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1620/N840	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1619/N840	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1619/N839	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1618/N839	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1618/N838	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1661/N860	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1661/N859	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1660/N859	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1660/N858	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1659/N858	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1659/N857	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1658/N857	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1658/N856	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1657/N856	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1657/N855	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1656/N855	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1656/N854	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1655/N854	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1655/N853	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1654/N853	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1654/N852	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1653/N852	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1653/N851	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1652/N851	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1652/N850	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1651/N850	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1651/N849	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1650/N849	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1650/N848	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1649/N848	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1649/N847	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1648/N847	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1648/N846	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1647/N846	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1647/N845	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1646/N845	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1646/N844	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1645/N844	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1645/N843	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1644/N843	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1644/N842	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1643/N842	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1643/N841	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1642/N841	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1642/N840	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1641/N840	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1641/N839	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1640/N839	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1640/N838	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1661/N31	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1661/N881	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1660/N881	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1660/N880	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1659/N880	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1659/N879	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1658/N879	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1658/N878	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1657/N878	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1657/N877	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1656/N877	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1656/N876	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1655/N876	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1655/N875	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1654/N875	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1654/N874	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1653/N874	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1653/N873	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1652/N873	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1652/N872	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1651/N872	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1651/N871	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1650/N871	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1650/N870	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1649/N870	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1649/N869	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1648/N869	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1648/N868	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1647/N868	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1647/N867	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1646/N867	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1646/N866	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1645/N866	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1645/N865	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1644/N865	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1644/N864	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1643/N864	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1643/N863	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1642/N863	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1642/N862	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1641/N862	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1641/N861	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1640/N861	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1640/N34	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N34/N861	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N34/N861	CM 1	Uniforme	0.065	-	-	-	Globales	0.000	0.000	-1.000
N34/N861	Q 1	Uniforme	0.351	-	-	-	Globales	0.000	0.000	-1.000
N34/N861	V x+(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N34/N861	V x+(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N34/N861	Vy+(1)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N34/N861	Vy+(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N34/N861	V x-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N34/N861	V x-(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N34/N861	V y-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N34/N861	V y-(2)	Uniforme	0.116	-	-	-	Globales	0.050	0.000	0.999
N34/N861	N 1	Uniforme	0.260	-	-	-	Globales	0.000	0.000	-1.000
N861/N862	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N861/N862	CM 1	Uniforme	0.065	-	-	-	Globales	0.000	0.000	-1.000
N861/N862	Q 1	Uniforme	0.351	-	-	-	Globales	0.000	0.000	-1.000
N861/N862	V x+(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N861/N862	V x+(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N861/N862	Vy+(1)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N861/N862	Vy+(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N861/N862	V x-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N861/N862	V x-(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N861/N862	V y-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N861/N862	V y-(2)	Uniforme	0.116	-	-	-	Globales	0.050	0.000	0.999
N861/N862	N 1	Uniforme	0.260	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N862/N863	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N862/N863	CM 1	Uniforme	0.065	-	-	-	Globales	0.000	0.000	-1.000
N862/N863	Q 1	Uniforme	0.351	-	-	-	Globales	0.000	0.000	-1.000
N862/N863	V x+(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N862/N863	V x+(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N862/N863	Vy+(1)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N862/N863	Vy+(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N862/N863	V x-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N862/N863	V x-(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N862/N863	V y-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N862/N863	V y-(2)	Uniforme	0.116	-	-	-	Globales	0.050	0.000	0.999
N862/N863	N 1	Uniforme	0.260	-	-	-	Globales	0.000	0.000	-1.000
N863/N864	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N863/N864	CM 1	Uniforme	0.065	-	-	-	Globales	0.000	0.000	-1.000
N863/N864	Q 1	Uniforme	0.351	-	-	-	Globales	0.000	0.000	-1.000
N863/N864	V x+(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N863/N864	V x+(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N863/N864	Vy+(1)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N863/N864	Vy+(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N863/N864	V x-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N863/N864	V x-(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N863/N864	V y-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N863/N864	V y-(2)	Uniforme	0.116	-	-	-	Globales	0.050	0.000	0.999
N863/N864	N 1	Uniforme	0.260	-	-	-	Globales	0.000	0.000	-1.000
N864/N865	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N864/N865	CM 1	Uniforme	0.065	-	-	-	Globales	0.000	0.000	-1.000
N864/N865	Q 1	Uniforme	0.351	-	-	-	Globales	0.000	0.000	-1.000
N864/N865	V x+(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N864/N865	V x+(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N864/N865	Vy+(1)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N864/N865	Vy+(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N864/N865	V x-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N864/N865	V x-(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N864/N865	V y-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N864/N865	V y-(2)	Uniforme	0.116	-	-	-	Globales	0.050	0.000	0.999
N864/N865	N 1	Uniforme	0.260	-	-	-	Globales	0.000	0.000	-1.000
N865/N866	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N865/N866	CM 1	Uniforme	0.065	-	-	-	Globales	0.000	0.000	-1.000
N865/N866	Q 1	Uniforme	0.351	-	-	-	Globales	0.000	0.000	-1.000
N865/N866	V x+(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N865/N866	V x+(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N865/N866	Vy+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N865/N866	Vy+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N865/N866	V x-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N865/N866	V x-(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N865/N866	V y-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N865/N866	V y-(2)	Uniforme	0.116	-	-	-	Globales	0.050	0.000	0.999
N865/N866	N 1	Uniforme	0.260	-	-	-	Globales	0.000	0.000	-1.000
N866/N867	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N866/N867	CM 1	Uniforme	0.065	-	-	-	Globales	0.000	0.000	-1.000
N866/N867	Q 1	Uniforme	0.351	-	-	-	Globales	0.000	0.000	-1.000
N866/N867	V x+(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N866/N867	V x+(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N866/N867	Vy+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N866/N867	Vy+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N866/N867	V x-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N866/N867	V x-(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N866/N867	V y-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N866/N867	V y-(2)	Uniforme	0.116	-	-	-	Globales	0.050	0.000	0.999
N866/N867	N 1	Uniforme	0.260	-	-	-	Globales	0.000	0.000	-1.000
N867/N868	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N867/N868	CM 1	Uniforme	0.065	-	-	-	Globales	0.000	0.000	-1.000
N867/N868	Q 1	Uniforme	0.351	-	-	-	Globales	0.000	0.000	-1.000
N867/N868	V x+(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N867/N868	V x+(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N867/N868	Vy+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N867/N868	Vy+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N867/N868	V x-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N867/N868	V x-(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N867/N868	V y-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N867/N868	V y-(2)	Uniforme	0.116	-	-	-	Globales	0.050	0.000	0.999
N867/N868	N 1	Uniforme	0.260	-	-	-	Globales	0.000	0.000	-1.000
N868/N869	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N868/N869	CM 1	Uniforme	0.065	-	-	-	Globales	0.000	0.000	-1.000
N868/N869	Q 1	Uniforme	0.351	-	-	-	Globales	0.000	0.000	-1.000
N868/N869	V x+(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N868/N869	V x+(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N868/N869	Vy+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N868/N869	Vy+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N868/N869	V x-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N868/N869	V x-(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N868/N869	V y-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N868/N869	V y-(2)	Uniforme	0.116	-	-	-	Globales	0.050	0.000	0.999
N868/N869	N 1	Uniforme	0.260	-	-	-	Globales	0.000	0.000	-1.000
N869/N870	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N869/N870	CM 1	Uniforme	0.065	-	-	-	Globales	0.000	0.000	-1.000
N869/N870	Q 1	Uniforme	0.351	-	-	-	Globales	0.000	0.000	-1.000
N869/N870	V x+(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N869/N870	V x+(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N869/N870	Vy+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N869/N870	Vy+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N869/N870	V x-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N869/N870	V x-(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N869/N870	V y-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N869/N870	V y-(2)	Uniforme	0.116	-	-	-	Globales	0.050	0.000	0.999
N869/N870	N 1	Uniforme	0.260	-	-	-	Globales	0.000	0.000	-1.000
N870/N871	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N870/N871	CM 1	Uniforme	0.065	-	-	-	Globales	0.000	0.000	-1.000
N870/N871	Q 1	Uniforme	0.351	-	-	-	Globales	0.000	0.000	-1.000
N870/N871	V x+(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N870/N871	V x+(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N870/N871	Vy+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N870/N871	Vy+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N870/N871	V x-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N870/N871	V x-(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N870/N871	V y-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N870/N871	V y-(2)	Uniforme	0.116	-	-	-	Globales	0.050	0.000	0.999
N870/N871	N 1	Uniforme	0.260	-	-	-	Globales	0.000	0.000	-1.000
N871/N872	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N871/N872	CM 1	Uniforme	0.065	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N871/N872	Q 1	Uniforme	0.351	-	-	-	Globales	0.000	0.000	-1.000
N871/N872	V x+(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N871/N872	V x+(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N871/N872	Vy+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N871/N872	Vy+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N871/N872	V x-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N871/N872	V x-(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N871/N872	V y-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N871/N872	V y-(2)	Uniforme	0.116	-	-	-	Globales	0.050	0.000	0.999
N871/N872	N 1	Uniforme	0.260	-	-	-	Globales	0.000	0.000	-1.000
N872/N873	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N872/N873	CM 1	Uniforme	0.065	-	-	-	Globales	0.000	0.000	-1.000
N872/N873	Q 1	Uniforme	0.351	-	-	-	Globales	0.000	0.000	-1.000
N872/N873	V x+(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N872/N873	V x+(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N872/N873	Vy+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N872/N873	Vy+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N872/N873	V x-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N872/N873	V x-(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N872/N873	V y-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N872/N873	V y-(2)	Uniforme	0.116	-	-	-	Globales	0.050	0.000	0.999
N872/N873	N 1	Uniforme	0.260	-	-	-	Globales	0.000	0.000	-1.000
N873/N874	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N873/N874	CM 1	Uniforme	0.065	-	-	-	Globales	0.000	0.000	-1.000
N873/N874	Q 1	Uniforme	0.351	-	-	-	Globales	0.000	0.000	-1.000
N873/N874	V x+(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N873/N874	V x+(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N873/N874	Vy+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N873/N874	Vy+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N873/N874	V x-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N873/N874	V x-(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N873/N874	V y-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N873/N874	V y-(2)	Uniforme	0.116	-	-	-	Globales	0.050	0.000	0.999
N873/N874	N 1	Uniforme	0.260	-	-	-	Globales	0.000	0.000	-1.000
N874/N875	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N874/N875	CM 1	Uniforme	0.065	-	-	-	Globales	0.000	0.000	-1.000
N874/N875	Q 1	Uniforme	0.351	-	-	-	Globales	0.000	0.000	-1.000
N874/N875	V x+(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N874/N875	V x+(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N874/N875	Vy+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N874/N875	Vy+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N874/N875	V x-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N874/N875	V x-(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N874/N875	V y-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N874/N875	V y-(2)	Uniforme	0.116	-	-	-	Globales	0.050	0.000	0.999
N874/N875	N 1	Uniforme	0.260	-	-	-	Globales	0.000	0.000	-1.000
N875/N876	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N875/N876	CM 1	Uniforme	0.065	-	-	-	Globales	0.000	0.000	-1.000
N875/N876	Q 1	Uniforme	0.351	-	-	-	Globales	0.000	0.000	-1.000
N875/N876	V x+(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N875/N876	V x+(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N875/N876	Vy+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N875/N876	Vy+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N875/N876	V x-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N875/N876	V x-(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N875/N876	V y-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N875/N876	V y-(2)	Uniforme	0.116	-	-	-	Globales	0.050	0.000	0.999
N875/N876	N 1	Uniforme	0.260	-	-	-	Globales	0.000	0.000	-1.000
N876/N877	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N876/N877	CM 1	Uniforme	0.065	-	-	-	Globales	0.000	0.000	-1.000
N876/N877	Q 1	Uniforme	0.351	-	-	-	Globales	0.000	0.000	-1.000
N876/N877	V x+(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N876/N877	V x+(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N876/N877	Vy+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N876/N877	Vy+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N876/N877	V x-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N876/N877	V x-(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N876/N877	V y-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N876/N877	V y-(2)	Uniforme	0.116	-	-	-	Globales	0.050	0.000	0.999
N876/N877	N 1	Uniforme	0.260	-	-	-	Globales	0.000	0.000	-1.000
N877/N878	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N877/N878	CM 1	Uniforme	0.065	-	-	-	Globales	0.000	0.000	-1.000
N877/N878	Q 1	Uniforme	0.351	-	-	-	Globales	0.000	0.000	-1.000
N877/N878	V x+(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N877/N878	V x+(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N877/N878	Vy+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N877/N878	Vy+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N877/N878	V x-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N877/N878	V x-(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N877/N878	V y-(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N877/N878	V y-(2)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N877/N878	N 1	Uniforme	0.260	-	-	-	Globales	0.000	0.000	-1.000
N878/N879	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N878/N879	CM 1	Uniforme	0.065	-	-	-	Globales	0.000	0.000	-1.000
N878/N879	Q 1	Uniforme	0.351	-	-	-	Globales	0.000	0.000	-1.000
N878/N879	V x+(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N878/N879	V x+(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N878/N879	Vy+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N878/N879	Vy+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N878/N879	V x-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N878/N879	V x-(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N878/N879	V y-(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N878/N879	V y-(2)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N878/N879	N 1	Uniforme	0.260	-	-	-	Globales	0.000	0.000	-1.000
N879/N880	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N879/N880	CM 1	Uniforme	0.065	-	-	-	Globales	0.000	0.000	-1.000
N879/N880	Q 1	Uniforme	0.351	-	-	-	Globales	0.000	0.000	-1.000
N879/N880	V x+(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N879/N880	V x+(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N879/N880	Vy+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N879/N880	Vy+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N879/N880	V x-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N879/N880	V x-(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N879/N880	V y-(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N879/N880	V y-(2)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N879/N880	N 1	Uniforme	0.260	-	-	-	Globales	0.000	0.000	-1.000
N880/N881	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N880/N881	CM 1	Uniforme	0.065	-	-	-	Globales	0.000	0.000	-1.000
N880/N881	Q 1	Uniforme	0.351	-	-	-	Globales	0.000	0.000	-1.000
N880/N881	V x+(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N880/N881	V x+(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N880/N881	Vy+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N880/N881	Vy+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N880/N881	V x-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N880/N881	V x-(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N880/N881	V y-(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N880/N881	V y-(2)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N880/N881	N 1	Uniforme	0.260	-	-	-	Globales	0.000	0.000	-1.000
N881/N31	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N881/N31	CM 1	Uniforme	0.065	-	-	-	Globales	0.000	0.000	-1.000
N881/N31	Q 1	Uniforme	0.351	-	-	-	Globales	0.000	0.000	-1.000
N881/N31	V x+(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N881/N31	V x+(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N881/N31	Vy+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N881/N31	Vy+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N881/N31	V x-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N881/N31	V x-(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N881/N31	V y-(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N881/N31	V y-(2)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N881/N31	N 1	Uniforme	0.260	-	-	-	Globales	0.000	0.000	-1.000
N32/N78	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N78/N101	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N101/N124	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N124/N147	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N147/N170	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N170/N193	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N193/N216	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N216/N239	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N239/N262	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N262/N285	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N285/N308	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N308/N331	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N331/N354	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N354/N377	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N377/N400	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N400/N423	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N423/N446	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N446/N469	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N469/N492	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N492/N515	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N515/N538	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N538/N561	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N561/N584	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N584/N607	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N607/N630	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N630/N653	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N653/N676	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N676/N699	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N699/N722	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N722/N745	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N745/N768	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N768/N791	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N791/N814	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N814/N837	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N837/N860	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N860/N31	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N33/N56	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N56/N79	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N79/N102	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N102/N125	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N125/N148	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N148/N171	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N171/N194	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N194/N217	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N217/N240	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N240/N263	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N263/N286	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N286/N309	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N309/N332	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N332/N355	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N355/N378	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N378/N401	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N401/N424	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N424/N447	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N447/N470	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N470/N493	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N493/N516	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N516/N539	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N539/N562	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N562/N585	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N585/N608	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N608/N631	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N631/N654	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N654/N677	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N677/N700	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N700/N723	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N723/N746	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N746/N769	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N769/N792	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N792/N815	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N815/N838	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N838/N34	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N35/N36	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N35/N36	CM 1	Uniforme	0.065	-	-	-	Globales	0.000	0.000	-1.000
N35/N36	Q 1	Uniforme	0.351	-	-	-	Globales	0.000	0.000	-1.000
N35/N36	V x+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N35/N36	V x+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N35/N36	Vy+(1)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N35/N36	Vy+(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N35/N36	V x-(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N35/N36	V x-(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N35/N36	V y-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N35/N36	V y-(2)	Uniforme	0.116	-	-	-	Globales	0.050	0.000	0.999
N35/N36	N 1	Uniforme	0.260	-	-	-	Globales	0.000	0.000	-1.000
N36/N37	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N36/N37	CM 1	Uniforme	0.065	-	-	-	Globales	0.000	0.000	-1.000
N36/N37	Q 1	Uniforme	0.351	-	-	-	Globales	0.000	0.000	-1.000
N36/N37	V x+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N36/N37	V x+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N36/N37	Vy+(1)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N36/N37	Vy+(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N36/N37	V x-(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N36/N37	V x-(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N36/N37	V y-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N36/N37	V y-(2)	Uniforme	0.116	-	-	-	Globales	0.050	0.000	0.999
N36/N37	N 1	Uniforme	0.260	-	-	-	Globales	0.000	0.000	-1.000
N37/N38	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N37/N38	CM 1	Uniforme	0.065	-	-	-	Globales	0.000	0.000	-1.000
N37/N38	Q 1	Uniforme	0.351	-	-	-	Globales	0.000	0.000	-1.000
N37/N38	V x+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N37/N38	V x+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N37/N38	Vy+(1)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N37/N38	Vy+(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N37/N38	V x-(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N37/N38	V x-(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N37/N38	V y-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N37/N38	V y-(2)	Uniforme	0.116	-	-	-	Globales	0.050	0.000	0.999
N37/N38	N 1	Uniforme	0.260	-	-	-	Globales	0.000	0.000	-1.000
N38/N39	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N38/N39	CM 1	Uniforme	0.065	-	-	-	Globales	0.000	0.000	-1.000
N38/N39	Q 1	Uniforme	0.351	-	-	-	Globales	0.000	0.000	-1.000
N38/N39	V x+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N38/N39	V x+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N38/N39	Vy+(1)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N38/N39	Vy+(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N38/N39	V x-(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N38/N39	V x-(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N38/N39	V y-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N38/N39	V y-(2)	Uniforme	0.116	-	-	-	Globales	0.050	0.000	0.999
N38/N39	N 1	Uniforme	0.260	-	-	-	Globales	0.000	0.000	-1.000
N39/N40	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N39/N40	CM 1	Uniforme	0.065	-	-	-	Globales	0.000	0.000	-1.000
N39/N40	Q 1	Uniforme	0.351	-	-	-	Globales	0.000	0.000	-1.000
N39/N40	V x+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N39/N40	V x+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N39/N40	Vy+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N39/N40	Vy+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N39/N40	V x-(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N39/N40	V x-(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N39/N40	V y-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N39/N40	V y-(2)	Uniforme	0.116	-	-	-	Globales	0.050	0.000	0.999
N39/N40	N 1	Uniforme	0.260	-	-	-	Globales	0.000	0.000	-1.000
N40/N41	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N40/N41	CM 1	Uniforme	0.065	-	-	-	Globales	0.000	0.000	-1.000
N40/N41	Q 1	Uniforme	0.351	-	-	-	Globales	0.000	0.000	-1.000
N40/N41	V x+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N40/N41	V x+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N40/N41	Vy+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N40/N41	Vy+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N40/N41	V x-(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N40/N41	V x-(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N40/N41	V y-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N40/N41	V y-(2)	Uniforme	0.116	-	-	-	Globales	0.050	0.000	0.999
N40/N41	N 1	Uniforme	0.260	-	-	-	Globales	0.000	0.000	-1.000
N41/N42	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N41/N42	CM 1	Uniforme	0.065	-	-	-	Globales	0.000	0.000	-1.000
N41/N42	Q 1	Uniforme	0.351	-	-	-	Globales	0.000	0.000	-1.000
N41/N42	V x+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N41/N42	V x+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N41/N42	Vy+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N41/N42	Vy+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N41/N42	V x-(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N41/N42	V x-(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N41/N42	V y-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N41/N42	V y-(2)	Uniforme	0.116	-	-	-	Globales	0.050	0.000	0.999
N41/N42	N 1	Uniforme	0.260	-	-	-	Globales	0.000	0.000	-1.000
N42/N43	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N42/N43	CM 1	Uniforme	0.065	-	-	-	Globales	0.000	0.000	-1.000
N42/N43	Q 1	Uniforme	0.351	-	-	-	Globales	0.000	0.000	-1.000
N42/N43	V x+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N42/N43	V x+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N42/N43	Vy+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N42/N43	Vy+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N42/N43	V x-(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N42/N43	V x-(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N42/N43	V y-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N42/N43	V y-(2)	Uniforme	0.116	-	-	-	Globales	0.050	0.000	0.999
N42/N43	N 1	Uniforme	0.260	-	-	-	Globales	0.000	0.000	-1.000
N43/N44	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N43/N44	CM 1	Uniforme	0.065	-	-	-	Globales	0.000	0.000	-1.000
N43/N44	Q 1	Uniforme	0.351	-	-	-	Globales	0.000	0.000	-1.000
N43/N44	V x+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N43/N44	V x+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N43/N44	Vy+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N43/N44	Vy+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N43/N44	V x-(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N43/N44	V x-(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N43/N44	V y-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N43/N44	V y-(2)	Uniforme	0.116	-	-	-	Globales	0.050	0.000	0.999
N43/N44	N 1	Uniforme	0.260	-	-	-	Globales	0.000	0.000	-1.000
N44/N45	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N44/N45	CM 1	Uniforme	0.065	-	-	-	Globales	0.000	0.000	-1.000
N44/N45	Q 1	Uniforme	0.351	-	-	-	Globales	0.000	0.000	-1.000
N44/N45	V x+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N44/N45	V x+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N44/N45	Vy+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N44/N45	Vy+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N44/N45	V x-(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N44/N45	V x-(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N44/N45	V y-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N44/N45	V y-(2)	Uniforme	0.116	-	-	-	Globales	0.050	0.000	0.999
N44/N45	N 1	Uniforme	0.260	-	-	-	Globales	0.000	0.000	-1.000
N45/N46	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N45/N46	CM 1	Uniforme	0.065	-	-	-	Globales	0.000	0.000	-1.000
N45/N46	Q 1	Uniforme	0.351	-	-	-	Globales	0.000	0.000	-1.000
N45/N46	V x+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N45/N46	V x+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N45/N46	Vy+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N45/N46	Vy+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N45/N46	V x-(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N45/N46	V x-(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N45/N46	V y-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N45/N46	V y-(2)	Uniforme	0.116	-	-	-	Globales	0.050	0.000	0.999
N45/N46	N 1	Uniforme	0.260	-	-	-	Globales	0.000	0.000	-1.000
N46/N47	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N46/N47	CM 1	Uniforme	0.065	-	-	-	Globales	0.000	0.000	-1.000
N46/N47	Q 1	Uniforme	0.351	-	-	-	Globales	0.000	0.000	-1.000
N46/N47	V x+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N46/N47	V x+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N46/N47	Vy+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N46/N47	Vy+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N46/N47	V x-(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N46/N47	V x-(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N46/N47	V y-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N46/N47	V y-(2)	Uniforme	0.116	-	-	-	Globales	0.050	0.000	0.999
N46/N47	N 1	Uniforme	0.260	-	-	-	Globales	0.000	0.000	-1.000
N47/N48	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N47/N48	CM 1	Uniforme	0.065	-	-	-	Globales	0.000	0.000	-1.000
N47/N48	Q 1	Uniforme	0.351	-	-	-	Globales	0.000	0.000	-1.000
N47/N48	V x+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N47/N48	V x+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N47/N48	Vy+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N47/N48	Vy+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N47/N48	V x-(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N47/N48	V x-(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N47/N48	V y-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N47/N48	V y-(2)	Uniforme	0.116	-	-	-	Globales	0.050	0.000	0.999
N47/N48	N 1	Uniforme	0.260	-	-	-	Globales	0.000	0.000	-1.000
N48/N49	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N48/N49	CM 1	Uniforme	0.065	-	-	-	Globales	0.000	0.000	-1.000
N48/N49	Q 1	Uniforme	0.351	-	-	-	Globales	0.000	0.000	-1.000
N48/N49	V x+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N48/N49	V x+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N48/N49	Vy+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N48/N49	Vy+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N48/N49	V x-(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N48/N49	V x-(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N48/N49	V y-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N48/N49	V y-(2)	Uniforme	0.116	-	-	-	Globales	0.050	0.000	0.999
N48/N49	N 1	Uniforme	0.260	-	-	-	Globales	0.000	0.000	-1.000
N49/N50	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N49/N50	CM 1	Uniforme	0.065	-	-	-	Globales	0.000	0.000	-1.000
N49/N50	Q 1	Uniforme	0.351	-	-	-	Globales	0.000	0.000	-1.000
N49/N50	V x+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N49/N50	V x+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N49/N50	Vy+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N49/N50	Vy+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N49/N50	V x-(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N49/N50	V x-(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N49/N50	V y-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N49/N50	V y-(2)	Uniforme	0.116	-	-	-	Globales	0.050	0.000	0.999
N49/N50	N 1	Uniforme	0.260	-	-	-	Globales	0.000	0.000	-1.000
N50/N51	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N50/N51	CM 1	Uniforme	0.065	-	-	-	Globales	0.000	0.000	-1.000
N50/N51	Q 1	Uniforme	0.351	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N50/N51	V x+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N50/N51	V x+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N50/N51	Vy+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N50/N51	Vy+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N50/N51	V x-(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N50/N51	V x-(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N50/N51	V y-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N50/N51	V y-(2)	Uniforme	0.116	-	-	-	Globales	0.050	0.000	0.999
N50/N51	N 1	Uniforme	0.260	-	-	-	Globales	0.000	0.000	-1.000
N51/N52	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N51/N52	CM 1	Uniforme	0.065	-	-	-	Globales	0.000	0.000	-1.000
N51/N52	Q 1	Uniforme	0.351	-	-	-	Globales	0.000	0.000	-1.000
N51/N52	V x+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N51/N52	V x+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N51/N52	Vy+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N51/N52	Vy+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N51/N52	V x-(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N51/N52	V x-(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N51/N52	V y-(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N51/N52	V y-(2)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N51/N52	N 1	Uniforme	0.260	-	-	-	Globales	0.000	0.000	-1.000
N52/N53	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N52/N53	CM 1	Uniforme	0.065	-	-	-	Globales	0.000	0.000	-1.000
N52/N53	Q 1	Uniforme	0.351	-	-	-	Globales	0.000	0.000	-1.000
N52/N53	V x+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N52/N53	V x+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N52/N53	Vy+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N52/N53	Vy+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N52/N53	V x-(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N52/N53	V x-(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N52/N53	V y-(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N52/N53	V y-(2)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N52/N53	N 1	Uniforme	0.260	-	-	-	Globales	0.000	0.000	-1.000
N53/N54	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N53/N54	CM 1	Uniforme	0.065	-	-	-	Globales	0.000	0.000	-1.000
N53/N54	Q 1	Uniforme	0.351	-	-	-	Globales	0.000	0.000	-1.000
N53/N54	V x+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N53/N54	V x+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N53/N54	Vy+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N53/N54	Vy+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N53/N54	V x-(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N53/N54	V x-(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N53/N54	V y-(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N53/N54	V y-(2)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N53/N54	N 1	Uniforme	0.260	-	-	-	Globales	0.000	0.000	-1.000
N54/N55	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N54/N55	CM 1	Uniforme	0.065	-	-	-	Globales	0.000	0.000	-1.000
N54/N55	Q 1	Uniforme	0.351	-	-	-	Globales	0.000	0.000	-1.000
N54/N55	V x+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N54/N55	V x+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N54/N55	Vy+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N54/N55	Vy+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N54/N55	V x-(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N54/N55	V x-(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N54/N55	V y-(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N54/N55	V y-(2)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N54/N55	N 1	Uniforme	0.260	-	-	-	Globales	0.000	0.000	-1.000
N55/N32	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N55/N32	CM 1	Uniforme	0.065	-	-	-	Globales	0.000	0.000	-1.000
N55/N32	Q 1	Uniforme	0.351	-	-	-	Globales	0.000	0.000	-1.000
N55/N32	V x+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N55/N32	V x+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N55/N32	Vy+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	0.000	-0.999
N55/N32	Vy+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N55/N32	V x-(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N55/N32	V x-(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N55/N32	V y-(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N55/N32	V y-(2)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N55/N32	N 1	Uniforme	0.260	-	-	-	Globales	0.000	0.000	-1.000
N33/N35	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N33/N35	CM 1	Uniforme	0.065	-	-	-	Globales	0.000	0.000	-1.000
N33/N35	Q 1	Uniforme	0.351	-	-	-	Globales	0.000	0.000	-1.000
N33/N35	V x+(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N33/N35	V x+(2)	Uniforme	0.116	-	-	-	Globales	0.050	-0.000	0.999
N33/N35	Vy+(1)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N33/N35	Vy+(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N33/N35	V x-(1)	Uniforme	0.405	-	-	-	Globales	0.050	0.000	0.999
N33/N35	V x-(2)	Uniforme	0.405	-	-	-	Globales	0.050	-0.000	0.999
N33/N35	V y-(1)	Uniforme	0.116	-	-	-	Globales	-0.050	-0.000	-0.999
N33/N35	V y-(2)	Uniforme	0.116	-	-	-	Globales	0.050	0.000	0.999
N33/N35	N 1	Uniforme	0.260	-	-	-	Globales	0.000	0.000	-1.000
N1663/N1669	Peso propio	Uniforme	0.152	-	-	-	Globales	0.000	0.000	-1.000
N1669/N1670	Peso propio	Uniforme	0.152	-	-	-	Globales	0.000	0.000	-1.000
N1670/N1671	Peso propio	Uniforme	0.152	-	-	-	Globales	0.000	0.000	-1.000
N1671/N1668	Peso propio	Uniforme	0.152	-	-	-	Globales	0.000	0.000	-1.000
N1677/N1558	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1677/N1542	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1677/N1559	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1677/N1543	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1691/N1432	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1691/N1433	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1691/N1411	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1691/N1410	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1678/N1572	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1678/N1573	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1678/N1557	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1678/N1556	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1679/N1452	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1679/N1453	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1679/N1431	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1679/N1430	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1680/N1320	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1680/N1321	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1680/N1299	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1680/N1298	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1681/N1188	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1681/N1189	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1681/N1167	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1681/N1166	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1682/N1057	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1682/N1056	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1682/N1035	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1682/N1034	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1683/N946	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1683/N947	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1683/N925	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1683/N924	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1684/N941	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1684/N942	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1684/N920	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1684/N919	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1685/N936	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1685/N937	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1685/N915	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1685/N914	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1686/N931	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1686/N932	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1686/N910	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1686/N909	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1687/N926	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1687/N927	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1687/N905	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1687/N904	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1688/N1036	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1688/N1037	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1688/N1015	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1688/N1014	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1689/N1168	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1689/N1169	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1689/N1147	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1689/N1146	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1690/N1300	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1690/N1301	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1690/N1279	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1690/N1278	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1692/N1693	Peso propio	Uniforme	0.712	-	-	-	Globales	0.000	0.000	-1.000
N1692/N1693	V x+(1)	Uniforme	2.022	-	-	-	Globales	1.000	-0.000	0.000
N1692/N1693	V x+(1)	Faja	2.311	-	0.325	3.800	Globales	-0.000	1.000	-0.000
N1692/N1693	V x+(2)	Faja	2.311	-	0.325	3.800	Globales	0.000	1.000	-0.000
N1692/N1693	V x+(2)	Uniforme	2.022	-	-	-	Globales	1.000	0.000	0.000
N1692/N1693	Vy+(1)	Uniforme	2.311	-	-	-	Globales	-1.000	-0.000	-0.000
N1692/N1693	Vy+(1)	Faja	2.096	-	0.325	3.800	Globales	0.000	1.000	-0.000
N1692/N1693	Vy+(2)	Uniforme	2.311	-	-	-	Globales	-1.000	0.000	-0.000
N1692/N1693	Vy+(2)	Faja	2.096	-	0.325	3.800	Globales	0.000	1.000	-0.000
N1692/N1693	V x-(1)	Faja	2.311	-	0.325	3.800	Globales	-0.000	-1.000	0.000
N1692/N1693	V x-(1)	Uniforme	0.868	-	-	-	Globales	-1.000	-0.000	-0.000
N1692/N1693	V x-(2)	Faja	2.311	-	0.325	3.800	Globales	-0.000	-1.000	0.000
N1692/N1693	V x-(2)	Uniforme	0.868	-	-	-	Globales	-1.000	-0.000	-0.000
N1692/N1693	V y-(1)	Faja	1.017	-	0.325	3.800	Globales	-0.000	-1.000	0.000
N1692/N1693	V y-(1)	Uniforme	2.311	-	-	-	Globales	-1.000	0.000	-0.000
N1692/N1693	V y-(2)	Faja	1.017	-	0.325	3.800	Globales	-0.000	-1.000	0.000
N1692/N1693	V y-(2)	Uniforme	2.311	-	-	-	Globales	-1.000	-0.000	-0.000
N1692/N1693	V y-(2)	Uniforme	2.311	-	-	-	Globales	-1.000	0.000	-0.000
N1693/N1707	Peso propio	Uniforme	0.712	-	-	-	Globales	0.000	0.000	-1.000
N1693/N1707	V x+(1)	Uniforme	2.022	-	-	-	Globales	1.000	-0.000	0.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1693/N1707	V x+(1)	Uniforme	2.311	-	-	-	Globales	-0.000	1.000	-0.000
N1693/N1707	V x+(2)	Uniforme	2.311	-	-	-	Globales	0.000	1.000	-0.000
N1693/N1707	V x+(2)	Uniforme	2.022	-	-	-	Globales	1.000	0.000	0.000
N1693/N1707	Vy+(1)	Uniforme	2.311	-	-	-	Globales	-1.000	-0.000	-0.000
N1693/N1707	Vy+(1)	Uniforme	2.096	-	-	-	Globales	0.000	1.000	-0.000
N1693/N1707	Vy+(2)	Uniforme	2.311	-	-	-	Globales	-1.000	0.000	-0.000
N1693/N1707	Vy+(2)	Uniforme	2.096	-	-	-	Globales	0.000	1.000	-0.000
N1693/N1707	V x-(1)	Uniforme	2.311	-	-	-	Globales	-0.000	-1.000	0.000
N1693/N1707	V x-(1)	Uniforme	0.868	-	-	-	Globales	-1.000	-0.000	-0.000
N1693/N1707	V x-(2)	Uniforme	2.311	-	-	-	Globales	-0.000	-1.000	0.000
N1693/N1707	V x-(2)	Uniforme	0.868	-	-	-	Globales	-1.000	-0.000	-0.000
N1693/N1707	V y-(1)	Uniforme	1.017	-	-	-	Globales	-0.000	-1.000	0.000
N1693/N1707	V y-(1)	Uniforme	2.311	-	-	-	Globales	-1.000	0.000	-0.000
N1693/N1707	V y-(2)	Uniforme	1.017	-	-	-	Globales	-0.000	-1.000	0.000
N1693/N1707	V y-(2)	Uniforme	2.311	-	-	-	Globales	-1.000	-0.000	-0.000
N1693/N1707	V y-(2)	Uniforme	2.311	-	-	-	Globales	-1.000	0.000	-0.000
N1707/N1694	Peso propio	Uniforme	0.712	-	-	-	Globales	0.000	0.000	-1.000
N1707/N1694	V x+(1)	Faja	2.022	-	0.000	0.975	Globales	1.000	-0.000	0.000
N1707/N1694	V x+(1)	Faja	2.311	-	0.000	0.975	Globales	-0.000	1.000	-0.000
N1707/N1694	V x+(1)	Triangular Izq.	5.418	-	0.975	1.300	Globales	-0.000	1.000	-0.000
N1707/N1694	V x+(2)	Faja	2.311	-	0.000	0.975	Globales	0.000	1.000	-0.000
N1707/N1694	V x+(2)	Triangular Izq.	5.418	-	0.975	1.300	Globales	0.000	1.000	-0.000
N1707/N1694	V x+(2)	Faja	2.022	-	0.000	0.975	Globales	1.000	0.000	0.000
N1707/N1694	Vy+(1)	Faja	2.311	-	0.000	0.975	Globales	-1.000	-0.000	-0.000
N1707/N1694	Vy+(1)	Triangular Izq.	4.915	-	0.975	1.300	Globales	0.000	1.000	-0.000
N1707/N1694	Vy+(1)	Faja	2.096	-	0.000	0.975	Globales	0.000	1.000	-0.000
N1707/N1694	Vy+(2)	Faja	2.311	-	0.000	0.975	Globales	-1.000	0.000	-0.000
N1707/N1694	Vy+(2)	Triangular Izq.	4.915	-	0.975	1.300	Globales	0.000	1.000	-0.000
N1707/N1694	Vy+(2)	Faja	2.096	-	0.000	0.975	Globales	0.000	1.000	-0.000
N1707/N1694	V x-(1)	Triangular Izq.	5.418	-	0.975	1.300	Globales	-0.000	-1.000	0.000
N1707/N1694	V x-(1)	Faja	2.311	-	0.000	0.975	Globales	-0.000	-1.000	0.000
N1707/N1694	V x-(1)	Faja	0.868	-	0.000	0.975	Globales	-1.000	-0.000	-0.000
N1707/N1694	V x-(2)	Triangular Izq.	5.418	-	0.975	1.300	Globales	-0.000	-1.000	0.000
N1707/N1694	V x-(2)	Faja	2.311	-	0.000	0.975	Globales	-0.000	-1.000	0.000
N1707/N1694	V x-(2)	Faja	0.868	-	0.000	0.975	Globales	-1.000	-0.000	-0.000
N1707/N1694	V y-(1)	Faja	1.017	-	0.000	0.975	Globales	-0.000	-1.000	0.000
N1707/N1694	V y-(1)	Triangular Izq.	2.385	-	0.975	1.300	Globales	-0.000	-1.000	0.000
N1707/N1694	V y-(1)	Faja	2.311	-	0.000	0.975	Globales	-1.000	0.000	-0.000
N1707/N1694	V y-(2)	Faja	1.017	-	0.000	0.975	Globales	-0.000	-1.000	0.000
N1707/N1694	V y-(2)	Triangular Izq.	2.385	-	0.975	1.300	Globales	-0.000	-1.000	0.000
N1707/N1694	V y-(2)	Uniforme	2.311	-	-	-	Globales	-1.000	-0.000	-0.000
N1707/N1694	V y-(2)	Uniforme	2.311	-	-	-	Globales	-1.000	0.000	-0.000
N1695/N1696	Peso propio	Uniforme	0.712	-	-	-	Globales	0.000	0.000	-1.000
N1695/N1696	V x+(1)	Uniforme	2.022	-	-	-	Globales	1.000	-0.000	0.000
N1695/N1696	V x+(1)	Uniforme	2.311	-	-	-	Globales	-0.000	1.000	-0.000
N1695/N1696	V x+(2)	Uniforme	2.311	-	-	-	Globales	0.000	1.000	0.000
N1695/N1696	V x+(2)	Uniforme	2.022	-	-	-	Globales	1.000	0.000	0.000
N1695/N1696	Vy+(1)	Uniforme	2.311	-	-	-	Globales	-1.000	-0.000	-0.000
N1695/N1696	Vy+(1)	Uniforme	1.017	-	-	-	Globales	-0.000	1.000	-0.000
N1695/N1696	Vy+(2)	Uniforme	2.311	-	-	-	Globales	-1.000	0.000	-0.000
N1695/N1696	Vy+(2)	Uniforme	1.017	-	-	-	Globales	-0.000	1.000	-0.000
N1695/N1696	V x-(1)	Uniforme	2.311	-	-	-	Globales	0.000	1.000	0.000
N1695/N1696	V x-(1)	Uniforme	0.868	-	-	-	Globales	-1.000	-0.000	-0.000
N1695/N1696	V x-(2)	Uniforme	2.311	-	-	-	Globales	-0.000	1.000	-0.000
N1695/N1696	V x-(2)	Uniforme	0.868	-	-	-	Globales	-1.000	-0.000	-0.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1695/N1696	V y-(1)	Uniforme	2.096	-	-	-	Globales	-0.000	-1.000	-0.000
N1695/N1696	V y-(1)	Uniforme	2.311	-	-	-	Globales	-1.000	0.000	-0.000
N1695/N1696	V y-(2)	Uniforme	2.096	-	-	-	Globales	-0.000	-1.000	-0.000
N1695/N1696	V y-(2)	Uniforme	2.311	-	-	-	Globales	-1.000	-0.000	-0.000
N1695/N1696	V y-(2)	Uniforme	2.311	-	-	-	Globales	-1.000	0.000	-0.000
N1696/N1711	Peso propio	Uniforme	0.712	-	-	-	Globales	0.000	0.000	-1.000
N1696/N1711	V x+(1)	Uniforme	2.022	-	-	-	Globales	1.000	-0.000	0.000
N1696/N1711	V x+(1)	Uniforme	2.311	-	-	-	Globales	-0.000	1.000	-0.000
N1696/N1711	V x+(2)	Uniforme	2.311	-	-	-	Globales	0.000	1.000	0.000
N1696/N1711	V x+(2)	Uniforme	2.022	-	-	-	Globales	1.000	0.000	0.000
N1696/N1711	Vy+(1)	Uniforme	2.311	-	-	-	Globales	-1.000	-0.000	-0.000
N1696/N1711	Vy+(1)	Uniforme	1.017	-	-	-	Globales	-0.000	1.000	-0.000
N1696/N1711	Vy+(2)	Uniforme	2.311	-	-	-	Globales	-1.000	0.000	-0.000
N1696/N1711	Vy+(2)	Uniforme	1.017	-	-	-	Globales	-0.000	1.000	-0.000
N1696/N1711	V x-(1)	Uniforme	2.311	-	-	-	Globales	0.000	1.000	0.000
N1696/N1711	V x-(1)	Uniforme	0.868	-	-	-	Globales	-1.000	-0.000	-0.000
N1696/N1711	V x-(2)	Uniforme	2.311	-	-	-	Globales	-0.000	1.000	-0.000
N1696/N1711	V x-(2)	Uniforme	0.868	-	-	-	Globales	-1.000	-0.000	-0.000
N1696/N1711	V y-(1)	Uniforme	2.096	-	-	-	Globales	-0.000	-1.000	-0.000
N1696/N1711	V y-(1)	Uniforme	2.311	-	-	-	Globales	-1.000	0.000	-0.000
N1696/N1711	V y-(2)	Uniforme	2.096	-	-	-	Globales	-0.000	-1.000	-0.000
N1696/N1711	V y-(2)	Uniforme	2.311	-	-	-	Globales	-1.000	-0.000	-0.000
N1696/N1711	V y-(2)	Uniforme	2.311	-	-	-	Globales	-1.000	0.000	-0.000
N1711/N1697	Peso propio	Uniforme	0.712	-	-	-	Globales	0.000	0.000	-1.000
N1711/N1697	V x+(1)	Faja	2.022	-	0.000	0.975	Globales	1.000	-0.000	0.000
N1711/N1697	V x+(1)	Trapecial	2.836	1.427	0.000	0.975	Globales	-0.000	1.000	-0.000
N1711/N1697	V x+(2)	Trapecial	2.836	1.427	0.000	0.975	Globales	0.000	1.000	0.000
N1711/N1697	V x+(2)	Faja	2.022	-	0.000	0.975	Globales	1.000	0.000	0.000
N1711/N1697	Vy+(1)	Faja	2.311	-	0.000	0.975	Globales	-1.000	-0.000	-0.000
N1711/N1697	Vy+(1)	Trapecial	1.248	0.628	0.000	0.975	Globales	-0.000	1.000	-0.000
N1711/N1697	Vy+(2)	Faja	2.311	-	0.000	0.975	Globales	-1.000	0.000	-0.000
N1711/N1697	Vy+(2)	Trapecial	1.248	0.628	0.000	0.975	Globales	-0.000	1.000	-0.000
N1711/N1697	V x-(1)	Trapecial	2.836	1.427	0.000	0.975	Globales	0.000	1.000	0.000
N1711/N1697	V x-(1)	Faja	0.868	-	0.000	0.975	Globales	-1.000	-0.000	-0.000
N1711/N1697	V x-(2)	Trapecial	2.836	1.427	0.000	0.975	Globales	-0.000	1.000	-0.000
N1711/N1697	V x-(2)	Faja	0.868	-	0.000	0.975	Globales	-1.000	-0.000	-0.000
N1711/N1697	V y-(1)	Trapecial	2.572	1.295	0.000	0.975	Globales	-0.000	-1.000	-0.000
N1711/N1697	V y-(1)	Faja	2.311	-	0.000	0.975	Globales	-1.000	0.000	-0.000
N1711/N1697	V y-(2)	Trapecial	2.572	1.295	0.000	0.975	Globales	-0.000	-1.000	-0.000
N1711/N1697	V y-(2)	Uniforme	2.311	-	-	-	Globales	-1.000	-0.000	-0.000
N1711/N1697	V y-(2)	Uniforme	2.311	-	-	-	Globales	-1.000	0.000	-0.000
N1698/N1699	Peso propio	Uniforme	0.712	-	-	-	Globales	0.000	0.000	-1.000
N1698/N1699	V x+(1)	Uniforme	4.043	-	-	-	Globales	1.000	-0.000	0.000
N1698/N1699	V x+(2)	Uniforme	4.043	-	-	-	Globales	1.000	0.000	0.000
N1698/N1699	Vy+(1)	Uniforme	4.622	-	-	-	Globales	-1.000	-0.000	-0.000
N1698/N1699	Vy+(2)	Uniforme	4.622	-	-	-	Globales	-1.000	0.000	-0.000
N1698/N1699	V x-(1)	Uniforme	1.736	-	-	-	Globales	-1.000	-0.000	-0.000
N1698/N1699	V x-(2)	Uniforme	1.736	-	-	-	Globales	-1.000	-0.000	-0.000
N1698/N1699	V y-(1)	Uniforme	4.622	-	-	-	Globales	-1.000	0.000	-0.000
N1698/N1699	V y-(2)	Uniforme	4.622	-	-	-	Globales	-1.000	-0.000	-0.000
N1698/N1699	V y-(2)	Uniforme	4.622	-	-	-	Globales	-1.000	0.000	-0.000
N1699/N1708	Peso propio	Uniforme	0.712	-	-	-	Globales	0.000	0.000	-1.000
N1699/N1708	V x+(1)	Uniforme	4.043	-	-	-	Globales	1.000	-0.000	0.000
N1699/N1708	V x+(2)	Uniforme	4.043	-	-	-	Globales	1.000	0.000	0.000
N1699/N1708	Vy+(1)	Uniforme	4.622	-	-	-	Globales	-1.000	-0.000	-0.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1699/N1708	Vy+(2)	Uniforme	4.622	-	-	-	Globales	-1.000	0.000	-0.000
N1699/N1708	V x-(1)	Uniforme	1.736	-	-	-	Globales	-1.000	-0.000	-0.000
N1699/N1708	V x-(2)	Uniforme	1.736	-	-	-	Globales	-1.000	-0.000	-0.000
N1699/N1708	V y-(1)	Uniforme	4.622	-	-	-	Globales	-1.000	0.000	-0.000
N1699/N1708	V y-(2)	Uniforme	4.622	-	-	-	Globales	-1.000	-0.000	-0.000
N1699/N1708	V y-(2)	Uniforme	4.622	-	-	-	Globales	-1.000	0.000	-0.000
N1708/N1700	Peso propio	Uniforme	0.712	-	-	-	Globales	0.000	0.000	-1.000
N1708/N1700	V x+(1)	Faja	4.043	-	0.000	0.975	Globales	1.000	-0.000	0.000
N1708/N1700	V x+(2)	Faja	4.043	-	0.000	0.975	Globales	1.000	0.000	0.000
N1708/N1700	Vy+(1)	Faja	4.622	-	0.000	0.975	Globales	-1.000	-0.000	-0.000
N1708/N1700	Vy+(2)	Faja	4.622	-	0.000	0.975	Globales	-1.000	0.000	-0.000
N1708/N1700	V x-(1)	Faja	1.736	-	0.000	0.975	Globales	-1.000	-0.000	-0.000
N1708/N1700	V x-(2)	Faja	1.736	-	0.000	0.975	Globales	-1.000	-0.000	-0.000
N1708/N1700	V y-(1)	Faja	4.622	-	0.000	0.975	Globales	-1.000	0.000	-0.000
N1708/N1700	V y-(2)	Uniforme	4.622	-	-	-	Globales	-1.000	-0.000	-0.000
N1708/N1700	V y-(2)	Uniforme	4.622	-	-	-	Globales	-1.000	0.000	-0.000
N1701/N1702	Peso propio	Uniforme	0.712	-	-	-	Globales	0.000	0.000	-1.000
N1701/N1702	V x+(1)	Uniforme	4.043	-	-	-	Globales	1.000	-0.000	0.000
N1701/N1702	V x+(2)	Uniforme	4.043	-	-	-	Globales	1.000	0.000	0.000
N1701/N1702	Vy+(1)	Uniforme	4.622	-	-	-	Globales	-1.000	-0.000	-0.000
N1701/N1702	Vy+(2)	Uniforme	4.622	-	-	-	Globales	-1.000	0.000	-0.000
N1701/N1702	V x-(1)	Uniforme	1.736	-	-	-	Globales	-1.000	-0.000	-0.000
N1701/N1702	V x-(2)	Uniforme	1.736	-	-	-	Globales	-1.000	-0.000	-0.000
N1701/N1702	V y-(1)	Uniforme	4.622	-	-	-	Globales	-1.000	0.000	-0.000
N1701/N1702	V y-(2)	Uniforme	4.622	-	-	-	Globales	-1.000	-0.000	-0.000
N1701/N1702	V y-(2)	Uniforme	4.622	-	-	-	Globales	-1.000	0.000	-0.000
N1702/N1709	Peso propio	Uniforme	0.712	-	-	-	Globales	0.000	0.000	-1.000
N1702/N1709	V x+(1)	Uniforme	4.043	-	-	-	Globales	1.000	-0.000	0.000
N1702/N1709	V x+(2)	Uniforme	4.043	-	-	-	Globales	1.000	0.000	0.000
N1702/N1709	Vy+(1)	Uniforme	4.622	-	-	-	Globales	-1.000	-0.000	-0.000
N1702/N1709	Vy+(2)	Uniforme	4.622	-	-	-	Globales	-1.000	0.000	-0.000
N1702/N1709	V x-(1)	Uniforme	1.736	-	-	-	Globales	-1.000	-0.000	-0.000
N1702/N1709	V x-(2)	Uniforme	1.736	-	-	-	Globales	-1.000	-0.000	-0.000
N1702/N1709	V y-(1)	Uniforme	4.622	-	-	-	Globales	-1.000	0.000	-0.000
N1702/N1709	V y-(2)	Uniforme	4.622	-	-	-	Globales	-1.000	-0.000	-0.000
N1702/N1709	V y-(2)	Uniforme	4.622	-	-	-	Globales	-1.000	0.000	-0.000
N1709/N1703	Peso propio	Uniforme	0.712	-	-	-	Globales	0.000	0.000	-1.000
N1709/N1703	V x+(1)	Faja	4.043	-	0.000	0.975	Globales	1.000	-0.000	0.000
N1709/N1703	V x+(2)	Faja	4.043	-	0.000	0.975	Globales	1.000	0.000	0.000
N1709/N1703	Vy+(1)	Faja	4.622	-	0.000	0.975	Globales	-1.000	-0.000	-0.000
N1709/N1703	Vy+(2)	Faja	4.622	-	0.000	0.975	Globales	-1.000	0.000	-0.000
N1709/N1703	V x-(1)	Faja	1.736	-	0.000	0.975	Globales	-1.000	-0.000	-0.000
N1709/N1703	V x-(2)	Faja	1.736	-	0.000	0.975	Globales	-1.000	-0.000	-0.000
N1709/N1703	V y-(1)	Faja	4.622	-	0.000	0.975	Globales	-1.000	0.000	-0.000
N1709/N1703	V y-(2)	Uniforme	4.622	-	-	-	Globales	-1.000	-0.000	-0.000
N1709/N1703	V y-(2)	Uniforme	4.622	-	-	-	Globales	-1.000	0.000	-0.000
N1704/N1705	Peso propio	Uniforme	0.712	-	-	-	Globales	0.000	0.000	-1.000
N1704/N1705	V x+(1)	Uniforme	4.043	-	-	-	Globales	1.000	-0.000	0.000
N1704/N1705	V x+(2)	Uniforme	4.043	-	-	-	Globales	1.000	0.000	0.000
N1704/N1705	Vy+(1)	Uniforme	4.622	-	-	-	Globales	-1.000	-0.000	-0.000
N1704/N1705	Vy+(2)	Uniforme	4.622	-	-	-	Globales	-1.000	0.000	-0.000
N1704/N1705	V x-(1)	Uniforme	1.736	-	-	-	Globales	-1.000	-0.000	-0.000
N1704/N1705	V x-(2)	Uniforme	1.736	-	-	-	Globales	-1.000	-0.000	-0.000
N1704/N1705	V y-(1)	Uniforme	4.622	-	-	-	Globales	-1.000	0.000	-0.000
N1704/N1705	V y-(2)	Uniforme	4.622	-	-	-	Globales	-1.000	-0.000	-0.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1704/N1705	V y-(2)	Uniforme	4.622	-	-	-	Globales	-1.000	0.000	-0.000
N1705/N1710	Peso propio	Uniforme	0.712	-	-	-	Globales	0.000	0.000	-1.000
N1705/N1710	V x+(1)	Uniforme	4.043	-	-	-	Globales	1.000	-0.000	0.000
N1705/N1710	V x+(2)	Uniforme	4.043	-	-	-	Globales	1.000	0.000	0.000
N1705/N1710	Vy+(1)	Uniforme	4.622	-	-	-	Globales	-1.000	-0.000	-0.000
N1705/N1710	Vy+(2)	Uniforme	4.622	-	-	-	Globales	-1.000	0.000	-0.000
N1705/N1710	V x-(1)	Uniforme	1.736	-	-	-	Globales	-1.000	-0.000	-0.000
N1705/N1710	V x-(2)	Uniforme	1.736	-	-	-	Globales	-1.000	-0.000	-0.000
N1705/N1710	V y-(1)	Uniforme	4.622	-	-	-	Globales	-1.000	0.000	-0.000
N1705/N1710	V y-(2)	Uniforme	4.622	-	-	-	Globales	-1.000	-0.000	-0.000
N1705/N1710	V y-(2)	Uniforme	4.622	-	-	-	Globales	-1.000	0.000	-0.000
N1710/N1706	Peso propio	Uniforme	0.712	-	-	-	Globales	0.000	0.000	-1.000
N1710/N1706	V x+(1)	Faja	4.043	-	0.000	0.975	Globales	1.000	-0.000	0.000
N1710/N1706	V x+(2)	Faja	4.043	-	0.000	0.975	Globales	1.000	0.000	0.000
N1710/N1706	Vy+(1)	Faja	4.622	-	0.000	0.975	Globales	-1.000	-0.000	-0.000
N1710/N1706	Vy+(2)	Faja	4.622	-	0.000	0.975	Globales	-1.000	0.000	-0.000
N1710/N1706	V x-(1)	Faja	1.736	-	0.000	0.975	Globales	-1.000	-0.000	-0.000
N1710/N1706	V x-(2)	Faja	1.736	-	0.000	0.975	Globales	-1.000	-0.000	-0.000
N1710/N1706	V y-(1)	Faja	4.622	-	0.000	0.975	Globales	-1.000	0.000	-0.000
N1710/N1706	V y-(2)	Uniforme	4.622	-	-	-	Globales	-1.000	-0.000	-0.000
N1710/N1706	V y-(2)	Uniforme	4.622	-	-	-	Globales	-1.000	0.000	-0.000
N1693/N1699	Peso propio	Uniforme	0.152	-	-	-	Globales	0.000	0.000	-1.000
N1699/N1702	Peso propio	Uniforme	0.152	-	-	-	Globales	0.000	0.000	-1.000
N1702/N1705	Peso propio	Uniforme	0.152	-	-	-	Globales	0.000	0.000	-1.000
N1705/N1696	Peso propio	Uniforme	0.152	-	-	-	Globales	0.000	0.000	-1.000
N1696/N1672	Peso propio	Uniforme	0.152	-	-	-	Globales	0.000	0.000	-1.000
N1672/N1676	Peso propio	Uniforme	0.152	-	-	-	Globales	0.000	0.000	-1.000
N1676/N1675	Peso propio	Uniforme	0.152	-	-	-	Globales	0.000	0.000	-1.000
N1675/N1674	Peso propio	Uniforme	0.152	-	-	-	Globales	0.000	0.000	-1.000
N1674/N1673	Peso propio	Uniforme	0.152	-	-	-	Globales	0.000	0.000	-1.000
N1673/N1668	Peso propio	Uniforme	0.152	-	-	-	Globales	0.000	0.000	-1.000
N1693/N1662	Peso propio	Uniforme	0.152	-	-	-	Globales	0.000	0.000	-1.000
N1662/N1664	Peso propio	Uniforme	0.152	-	-	-	Globales	0.000	0.000	-1.000
N1664/N1665	Peso propio	Uniforme	0.152	-	-	-	Globales	0.000	0.000	-1.000
N1665/N1666	Peso propio	Uniforme	0.152	-	-	-	Globales	0.000	0.000	-1.000
N1666/N1667	Peso propio	Uniforme	0.152	-	-	-	Globales	0.000	0.000	-1.000
N1667/N1663	Peso propio	Uniforme	0.152	-	-	-	Globales	0.000	0.000	-1.000
N1711/N1661	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1711/N1660	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1710/N1655	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1710/N1656	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1709/N1650	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1709/N1651	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1708/N1645	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1708/N1646	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1707/N1640	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1707/N1641	Peso propio	Uniforme	0.107	-	-	-	Globales	0.000	0.000	-1.000
N1712/N1913	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1913/N1715	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1715/N1590	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1536/N1712	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1713/N1712	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1552/N1713	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1712/N1553	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1714/N1589	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1713/N1912	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1912/N1714	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1535/N1713	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1568/N1714	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1714/N1715	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1715/N1569	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1716/N1902	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1902/N1718	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1718/N1585	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1531/N1716	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1717/N1901	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1901/N1719	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1719/N1584	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1530/N1717	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1549/N1717	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1717/N1716	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1716/N1550	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1565/N1719	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1719/N1718	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1718/N1566	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1723/N1721	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1562/N1723	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1721/N1563	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1722/N1720	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1546/N1722	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1720/N1547	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1720/N1888	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1888/N1721	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1721/N1580	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1526/N1720	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1722/N1887	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1887/N1723	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1723/N1579	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1525/N1722	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1714/N784	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1714/N785	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1715/N785	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1715/N786	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1714/N761	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1713/N761	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1713/N738	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1713/N739	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1712/N739	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1715/N763	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1712/N763	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1712/N740	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1714/N762	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1712/N762	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1715/N762	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1713/N762	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1719/N779	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1719/N780	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1719/N756	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1717/N756	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1717/N733	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1717/N734	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1718/N780	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1718/N781	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1718/N758	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1716/N758	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1716/N735	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1716/N734	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1717/N757	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1719/N757	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1716/N757	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1718/N757	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1722/N751	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1722/N728	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1722/N729	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1720/N729	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1720/N753	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1721/N753	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1721/N776	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1721/N775	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1723/N775	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1723/N751	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1722/N752	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1721/N752	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1723/N752	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1720/N752	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1723/N774	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N14/N1732	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1732/N1733	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1733/N1734	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1734/N1735	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1735/N1736	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1736/N1737	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1737/N1738	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1738/N1739	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1739/N1740	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1740/N1741	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1741/N1742	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1742/N1743	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1743/N1724	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1724/N1725	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1725/N1726	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1726/N1727	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1727/N1728	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1728/N1729	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1729/N1730	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1730/N1731	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1731/N28	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1691/N1749	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1749/N1748	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1748/N1744	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1744/N1750	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1750/N1751	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1751/N1752	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1752/N1753	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1753/N1745	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1745/N1754	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1754/N1755	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1755/N1925	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1925/N1756	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1756/N1757	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1757/N1746	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1746/N1758	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1758/N1759	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1759/N1760	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1760/N1761	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1761/N1747	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1747/N1762	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1762/N1763	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1763/N1679	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1744/N1734	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1745/N1739	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1746/N1724	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1747/N1729	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1744/N1413	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1744/N1435	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1745/N1440	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1746/N1445	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1747/N1450	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1747/N1428	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1748/N1733	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1749/N1732	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1750/N1735	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1751/N1736	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1752/N1737	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1753/N1738	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1754/N1740	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1755/N1741	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1756/N1742	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1757/N1743	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1758/N1725	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1759/N1726	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1760/N1727	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1761/N1728	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1762/N1730	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1763/N1731	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1749/N1433	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1749/N1411	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1748/N1434	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1748/N1412	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1750/N1436	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1750/N1414	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1751/N1437	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1751/N1415	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1752/N1438	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1752/N1416	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1753/N1439	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1753/N1417	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1745/N1418	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1754/N1441	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1754/N1419	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1755/N1442	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1755/N1420	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1756/N1443	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1756/N1421	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1757/N1444	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1757/N1422	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1746/N1423	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1758/N1446	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1758/N1424	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1759/N1447	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1759/N1425	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1760/N1448	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1760/N1426	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1761/N1449	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1761/N1427	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1762/N1451	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1762/N1429	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1763/N1452	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1763/N1430	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N16/N1776	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1776/N1764	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1764/N1765	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1765/N1766	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1766/N1767	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1767/N1768	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1768/N1769	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1769/N1779	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1779/N1780	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1780/N1781	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1781/N1782	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1782/N1787	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1787/N1788	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1788/N1789	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1789/N1792	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1792/N1793	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1793/N1797	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1797/N1798	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1798/N1799	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1799/N1803	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1803/N26	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1690/N1777	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1777/N1778	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1778/N1770	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1770/N1771	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1771/N1772	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1772/N1773	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1773/N1774	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1774/N1775	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1775/N1783	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1783/N1784	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1784/N1924	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1924/N1785	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1785/N1786	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1786/N1790	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1790/N1791	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1791/N1794	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1794/N1795	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1795/N1796	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1796/N1800	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1800/N1801	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1801/N1802	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1802/N1680	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1770/N1765	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1770/N1281	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1770/N1303	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1771/N1766	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1772/N1767	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1773/N1768	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1774/N1769	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1771/N1304	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1771/N1282	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1772/N1305	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1772/N1283	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1773/N1306	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1773/N1284	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1774/N1307	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1774/N1285	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1778/N1764	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1777/N1279	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1778/N1302	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1778/N1280	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1777/N1776	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1777/N1301	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1775/N1779	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1775/N1308	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1783/N1780	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1784/N1781	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1785/N1782	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1775/N1286	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1783/N1309	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1783/N1287	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1784/N1310	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1784/N1288	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1785/N1311	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1785/N1289	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1790/N1788	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1790/N1313	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1786/N1787	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1786/N1312	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1786/N1290	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1790/N1291	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1791/N1789	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1794/N1792	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1795/N1793	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1791/N1314	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1791/N1292	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1794/N1315	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1794/N1293	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1795/N1316	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1795/N1294	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1800/N1798	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1800/N1318	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1800/N1296	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1796/N1797	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1801/N1799	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1796/N1317	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1796/N1295	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1801/N1319	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1802/N1803	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1801/N1297	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1802/N1320	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1802/N1298	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N18/N1816	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1816/N1804	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1804/N1805	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1805/N1806	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1806/N1807	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1807/N1808	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1808/N1809	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1809/N1819	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1819/N1820	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1820/N1821	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1821/N1822	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1822/N1827	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1827/N1828	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1828/N1829	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1829/N1832	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1832/N1833	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1833/N1837	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1837/N1838	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1838/N1839	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1839/N1843	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1843/N24	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1689/N1817	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1817/N1818	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1818/N1810	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1810/N1811	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1811/N1812	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1812/N1813	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1813/N1814	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1814/N1815	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1815/N1823	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1823/N1824	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1824/N1927	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1927/N1825	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1825/N1826	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1826/N1830	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1830/N1831	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1831/N1834	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1834/N1835	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1835/N1836	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1836/N1840	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1840/N1841	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1841/N1842	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1842/N1681	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1810/N1805	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1810/N1149	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1810/N1171	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1811/N1806	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1812/N1807	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1813/N1808	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1814/N1809	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1811/N1172	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1811/N1150	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1812/N1173	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1812/N1151	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1813/N1174	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1813/N1152	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1814/N1175	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1814/N1153	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1818/N1804	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1817/N1147	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1818/N1170	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1818/N1148	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1817/N1816	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1817/N1169	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1815/N1819	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1815/N1176	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1823/N1820	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1824/N1821	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1825/N1822	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1815/N1154	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1823/N1177	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1823/N1155	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1824/N1178	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1824/N1156	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1825/N1179	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1825/N1157	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1830/N1828	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1830/N1181	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1826/N1827	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1826/N1180	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1826/N1158	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1830/N1159	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1831/N1829	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1834/N1832	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1835/N1833	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1831/N1182	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1831/N1160	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1834/N1183	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1834/N1161	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1835/N1184	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1835/N1162	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1840/N1838	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1840/N1186	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1840/N1164	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1836/N1837	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1841/N1839	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1836/N1185	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1836/N1163	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1841/N1187	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1842/N1843	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1841/N1165	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1842/N1188	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1842/N1166	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N20/N1856	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1856/N1844	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1844/N1845	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1845/N1846	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1846/N1847	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1847/N1848	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1848/N1849	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1849/N1859	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1859/N1860	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1860/N1861	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1861/N1862	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1862/N1867	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1867/N1868	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1868/N1869	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1869/N1872	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1872/N1873	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1873/N1877	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1877/N1878	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1878/N1879	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1879/N1883	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1883/N22	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1688/N1857	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1857/N1858	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1858/N1850	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1850/N1851	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1851/N1852	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1852/N1853	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1853/N1854	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1854/N1855	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1855/N1863	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1863/N1864	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1864/N1928	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1928/N1865	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1865/N1866	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1866/N1870	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1870/N1871	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1871/N1874	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1874/N1875	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1875/N1876	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1876/N1880	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1880/N1881	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1881/N1882	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1882/N1682	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1850/N1845	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1850/N1017	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1850/N1039	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1851/N1846	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1852/N1847	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1853/N1848	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1854/N1849	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1851/N1040	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1851/N1018	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1852/N1041	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1852/N1019	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1853/N1042	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1853/N1020	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1854/N1043	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1854/N1021	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1858/N1844	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1857/N1015	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1858/N1038	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1858/N1016	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1857/N1856	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1857/N1037	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1855/N1859	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1855/N1044	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1863/N1860	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1864/N1861	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1865/N1862	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1855/N1022	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1863/N1045	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1863/N1023	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1864/N1046	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1864/N1024	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1865/N1047	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1865/N1025	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1870/N1868	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1870/N1049	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1866/N1867	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1866/N1048	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1866/N1026	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1870/N1027	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1871/N1869	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1874/N1872	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1875/N1873	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1871/N1050	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1871/N1028	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1874/N1051	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1874/N1029	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1875/N1052	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1875/N1030	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1880/N1878	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1880/N1054	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1880/N1032	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1876/N1877	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1881/N1879	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1876/N1053	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1876/N1031	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1881/N1055	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1882/N1883	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1881/N1033	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1882/N1056	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1882/N1034	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N12/N1896	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1896/N1884	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1884/N1885	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1885/N1886	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1886/N1887	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1887/N1888	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1888/N1889	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1889/N1899	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1899/N1900	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1900/N1901	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1901/N1902	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1902/N1907	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1907/N1908	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1908/N1909	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1909/N1912	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1912/N1913	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1913/N1917	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1917/N1918	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1918/N1919	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1919/N1923	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1923/N30	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1677/N1897	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1897/N1898	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1898/N1890	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1890/N1891	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1891/N1892	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1892/N1893	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1893/N1894	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1894/N1895	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1895/N1903	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1903/N1904	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1904/N1926	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1926/N1905	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1905/N1906	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1906/N1910	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1910/N1911	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1911/N1914	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1914/N1915	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1915/N1916	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1916/N1920	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1920/N1921	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1921/N1922	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1922/N1678	Peso propio	Uniforme	0.308	-	-	-	Globales	0.000	0.000	-1.000
N1890/N1885	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1890/N1545	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1890/N1561	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1891/N1886	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1892/N1887	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1893/N1888	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1894/N1889	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1891/N1562	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1891/N1546	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1892/N1723	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1892/N1722	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1893/N1721	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1893/N1720	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1894/N1563	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1894/N1547	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1898/N1884	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1897/N1543	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1898/N1560	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1898/N1544	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1897/N1896	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1897/N1559	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1895/N1899	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1895/N1564	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1903/N1900	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1904/N1901	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1905/N1902	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1895/N1548	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1903/N1565	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1903/N1549	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1904/N1719	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1904/N1717	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1905/N1718	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1905/N1716	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1910/N1908	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1910/N1567	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1906/N1907	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1906/N1566	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1906/N1550	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1910/N1551	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1911/N1909	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1914/N1912	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1915/N1913	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1911/N1568	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1911/N1552	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1914/N1714	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1914/N1713	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1915/N1715	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1915/N1712	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1920/N1918	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1920/N1570	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1920/N1554	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1916/N1917	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1921/N1919	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1916/N1569	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1916/N1553	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1921/N1571	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1922/N1923	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1921/N1555	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1922/N1572	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1922/N1556	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1748/N1732	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1762/N1731	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1744/N1733	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1747/N1730	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1761/N1729	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1750/N1734	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1801/N1803	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1800/N1799	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1796/N1798	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras

Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1898/N1896	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1890/N1884	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1891/N1885	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1921/N1923	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1920/N1919	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1916/N1918	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1778/N1776	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1770/N1764	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1771/N1765	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1707/N1708	Peso propio	Uniforme	0.152	-	-	-	Globales	0.000	0.000	-1.000
N1708/N1709	Peso propio	Uniforme	0.152	-	-	-	Globales	0.000	0.000	-1.000
N1709/N1710	Peso propio	Uniforme	0.152	-	-	-	Globales	0.000	0.000	-1.000
N1710/N1711	Peso propio	Uniforme	0.152	-	-	-	Globales	0.000	0.000	-1.000
N1687/N1686	Peso propio	Uniforme	0.152	-	-	-	Globales	0.000	0.000	-1.000
N1686/N1685	Peso propio	Uniforme	0.152	-	-	-	Globales	0.000	0.000	-1.000
N1685/N1684	Peso propio	Uniforme	0.152	-	-	-	Globales	0.000	0.000	-1.000
N1684/N1683	Peso propio	Uniforme	0.152	-	-	-	Globales	0.000	0.000	-1.000
N1818/N1816	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1810/N1804	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1811/N1805	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1841/N1843	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1840/N1839	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1836/N1838	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1858/N1856	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1850/N1844	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1851/N1845	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1881/N1883	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1880/N1879	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1876/N1878	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1697/N31	Peso propio	Uniforme	0.160	-	-	-	Globales	0.000	0.000	-1.000
N1697/N880	Peso propio	Uniforme	0.160	-	-	-	Globales	0.000	0.000	-1.000
N1706/N877	Peso propio	Uniforme	0.160	-	-	-	Globales	0.000	0.000	-1.000
N1706/N875	Peso propio	Uniforme	0.160	-	-	-	Globales	0.000	0.000	-1.000
N1703/N872	Peso propio	Uniforme	0.160	-	-	-	Globales	0.000	0.000	-1.000
N1703/N870	Peso propio	Uniforme	0.160	-	-	-	Globales	0.000	0.000	-1.000
N1700/N867	Peso propio	Uniforme	0.160	-	-	-	Globales	0.000	0.000	-1.000
N1700/N865	Peso propio	Uniforme	0.160	-	-	-	Globales	0.000	0.000	-1.000
N1694/N34	Peso propio	Uniforme	0.160	-	-	-	Globales	0.000	0.000	-1.000
N1694/N862	Peso propio	Uniforme	0.160	-	-	-	Globales	0.000	0.000	-1.000
N1915/N1917	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1914/N1913	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1911/N1912	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1760/N1728	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1759/N1727	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1758/N1726	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1795/N1797	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1794/N1793	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1791/N1792	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1835/N1837	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1834/N1833	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1831/N1832	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1875/N1877	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1874/N1873	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1871/N1872	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1852/N1846	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras										
Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1853/N1847	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1854/N1848	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1812/N1806	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1813/N1807	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1814/N1808	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1772/N1766	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1773/N1767	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1774/N1768	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1751/N1735	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1752/N1736	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1753/N1737	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1892/N1886	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1893/N1887	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1894/N1888	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1775/N1769	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1783/N1779	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1790/N1789	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1786/N1788	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1785/N1787	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1784/N1780	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1746/N1725	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1757/N1724	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1756/N1743	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1755/N1740	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1754/N1739	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1745/N1738	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1895/N1889	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1903/N1899	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1904/N1900	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1910/N1909	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1906/N1908	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1905/N1907	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1870/N1869	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1866/N1868	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1865/N1867	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1855/N1849	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1863/N1859	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1864/N1860	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1815/N1809	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1823/N1819	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1824/N1820	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1830/N1829	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1826/N1828	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1825/N1827	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1777/N16	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1802/N26	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1924/N1781	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1924/N1782	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1749/N14	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1925/N1741	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1925/N1742	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1763/N28	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1897/N12	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1817/N18	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1857/N20	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

Cargas en barras										
Barra	Hipótesis	Tipo	Valores		Posición		Dirección			
			P1	P2	L1 (m)	L2 (m)	Ejes	X	Y	Z
N1882/N22	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1842/N24	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1922/N30	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1926/N1901	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1926/N1902	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1927/N1821	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1927/N1822	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1928/N1861	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000
N1928/N1862	Peso propio	Uniforme	0.041	-	-	-	Globales	0.000	0.000	-1.000

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1. ESTRUCTURA

1.1. Resultados

1.1.1. Nudos

1.1.1.1. Reacciones

Referencias:

Rx, Ry, Rz: Reacciones en nudos con desplazamientos coaccionados (fuerzas).
Mx, My, Mz: Reacciones en nudos con giros coaccionados (momentos).

1.1.1.1.1. Envolventes

Envolventes de las reacciones en nudos

Referencia	Combinación		Reacciones en ejes globales					
	Tipo	Descripción	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kN·m)	My (kN·m)	Mz (kN·m)
N1	Hormigón en cimentaciones	Valor mínimo de la envolvente	-8.241	-82.836	-65.786	-26.71	-20.32	-0.77
		Valor máximo de la envolvente	43.298	11.478	81.004	41.06	15.65	1.42
	Tensiones sobre el terreno	Valor mínimo de la envolvente	-5.144	-51.701	-35.333	-16.69	-12.69	-0.46
		Valor máximo de la envolvente	26.991	7.172	67.794	25.63	9.87	0.98
N3	Hormigón en cimentaciones	Valor mínimo de la envolvente	-35.377	-13.985	-21.045	-25.83	-72.10	-0.38
		Valor máximo de la envolvente	27.596	52.901	108.798	38.04	48.12	1.40
	Tensiones sobre el terreno	Valor mínimo de la envolvente	-23.080	-8.736	-2.611	-16.16	-49.15	-0.16
		Valor máximo de la envolvente	17.006	33.244	105.766	23.76	29.06	1.19
N5	Hormigón en cimentaciones	Valor mínimo de la envolvente	-36.811	-14.726	-6.625	-26.84	-77.83	-0.11
		Valor máximo de la envolvente	27.696	10.029	97.790	39.41	47.23	0.17
	Tensiones sobre el terreno	Valor mínimo de la envolvente	-24.415	-9.204	7.399	-16.78	-54.54	-0.07
		Valor máximo de la envolvente	16.959	6.268	90.036	24.63	28.05	0.11
N7	Hormigón en cimentaciones	Valor mínimo de la envolvente	-35.789	-77.924	-22.434	-26.06	-74.43	-1.14
		Valor máximo de la envolvente	27.619	9.601	89.196	38.10	48.25	0.36
	Tensiones sobre el terreno	Valor mínimo de la envolvente	-23.337	-48.884	-3.479	-16.27	-50.61	-1.03
		Valor máximo de la envolvente	17.021	5.996	83.530	23.83	29.14	0.15
N9	Hormigón en cimentaciones	Valor mínimo de la envolvente	-7.485	-20.463	-87.557	-29.42	-21.22	-0.94
		Valor máximo de la envolvente	43.736	59.077	150.149	41.48	15.74	0.75
	Tensiones sobre el terreno	Valor mínimo de la envolvente	-4.678	-12.787	-48.941	-18.35	-13.26	-0.68
		Valor máximo de la envolvente	27.266	36.851	111.090	25.92	9.92	0.44
N11	Hormigón en cimentaciones	Valor mínimo de la envolvente	-3.212	-41.341	6.928	-66.56	-21.54	-1.22
		Valor máximo de la envolvente	39.860	37.626	147.800	88.22	18.31	0.82
	Tensiones sobre el terreno	Valor mínimo de la envolvente	-2.114	-25.333	22.212	-47.91	-13.50	-0.76
		Valor máximo de la envolvente	25.230	25.563	143.524	53.58	11.44	0.51
N13	Hormigón en cimentaciones	Valor mínimo de la envolvente	-3.033	-44.002	3.022	-75.55	-22.37	-0.66
		Valor máximo de la envolvente	2.987	42.297	199.155	92.72	17.08	0.38
	Tensiones sobre el terreno	Valor mínimo de la envolvente	-1.930	-26.604	25.480	-57.89	-13.98	-0.47
		Valor máximo de la envolvente	1.857	30.063	190.855	55.31	10.69	0.22
N15	Hormigón en cimentaciones	Valor mínimo de la envolvente	-3.235	-43.120	1.739	-73.56	-23.31	-0.44
		Valor máximo de la envolvente	2.494	41.896	210.124	90.24	17.16	0.22
	Tensiones sobre el terreno	Valor mínimo de la envolvente	-2.051	-25.874	25.858	-58.17	-14.59	-0.34
		Valor máximo de la envolvente	1.550	30.527	201.431	53.38	10.72	0.13
N17	Hormigón en cimentaciones	Valor mínimo de la envolvente	-2.619	-41.958	0.685	-70.82	-22.83	-0.37
		Valor máximo de la envolvente	1.473	39.900	196.548	86.08	16.62	0.35
	Tensiones sobre el terreno	Valor mínimo de la envolvente	-1.664	-25.146	23.646	-55.89	-14.32	-0.30
		Valor máximo de la envolvente	0.912	29.277	190.523	50.91	10.38	0.21
N19	Hormigón en cimentaciones	Valor mínimo de la envolvente	-50.950	-37.839	2.624	-58.82	-20.31	-0.61
		Valor máximo de la envolvente	0.500	32.504	141.090	76.29	15.06	0.76
	Tensiones sobre el terreno	Valor mínimo de la envolvente	-32.025	-22.923	18.643	-44.20	-12.69	-0.41
		Valor máximo de la envolvente	0.425	23.228	137.594	45.83	9.49	0.47
N21	Hormigón en cimentaciones	Valor mínimo de la envolvente	-57.277	-47.181	-3.809	-59.64	-21.53	-1.20
		Valor máximo de la envolvente	0.431	34.005	141.092	93.82	15.17	1.87
	Tensiones sobre el terreno	Valor mínimo de la envolvente	-35.974	-32.401	14.623	-35.42	-13.45	-0.74
		Valor máximo de la envolvente	0.382	20.526	137.500	66.06	9.57	1.21
N23	Hormigón en cimentaciones	Valor mínimo de la envolvente	-2.099	-54.435	2.581	-68.42	-25.20	-0.75
		Valor máximo de la envolvente	1.454	38.157	196.548	112.21	16.79	1.30
	Tensiones sobre el terreno	Valor mínimo de la envolvente	-1.338	-38.360	24.831	-39.88	-15.79	-0.45
		Valor máximo de la envolvente	0.900	22.771	187.151	81.75	10.48	0.87
N25	Hormigón en cimentaciones	Valor mínimo de la envolvente	-3.781	-55.021	3.342	-71.93	-26.55	-0.49

Envolventes de las reacciones en nudos								
Referencia	Combinación		Reacciones en ejes globales					
	Tipo	Descripción	Rx (kN)	Ry (kN)	Rz (kN)	Mx (kN·m)	My (kN·m)	Mz (kN·m)
		Valor máximo de la envolvente	2.821	39.233	210.126	116.01	17.94	0.90
	Tensiones sobre el terreno	Valor mínimo de la envolvente	-2.393	-38.727	26.860	-41.93	-16.61	-0.29
		Valor máximo de la envolvente	1.754	23.445	201.367	84.70	11.21	0.63
N27	Hormigón en cimentaciones	Valor mínimo de la envolvente	-4.355	-53.409	5.755	-73.01	-26.08	-0.26
		Valor máximo de la envolvente	3.818	39.668	199.157	112.34	19.13	0.52
	Tensiones sobre el terreno	Valor mínimo de la envolvente	-2.756	-37.005	27.191	-42.99	-16.30	-0.15
		Valor máximo de la envolvente	2.376	23.895	190.841	80.87	11.97	0.38
N29	Hormigón en cimentaciones	Valor mínimo de la envolvente	-4.718	-46.535	1.523	-68.18	-25.05	-0.81
		Valor máximo de la envolvente	42.873	36.827	147.826	96.39	20.27	0.60
	Tensiones sobre el terreno	Valor mínimo de la envolvente	-3.053	-31.133	18.840	-41.05	-15.69	-0.50
		Valor máximo de la envolvente	27.118	22.511	143.605	66.56	12.67	0.38
N1692	Hormigón en cimentaciones	Valor mínimo de la envolvente	-53.067	-88.956	-117.287	-31.02	-23.99	-1.85
		Valor máximo de la envolvente	15.268	12.301	104.341	49.12	24.63	0.27
	Tensiones sobre el terreno	Valor mínimo de la envolvente	-33.080	-55.543	-67.391	-19.38	-15.20	-1.25
		Valor máximo de la envolvente	9.529	7.679	76.323	30.80	15.38	0.14
N1695	Hormigón en cimentaciones	Valor mínimo de la envolvente	-59.297	-22.120	-46.371	-33.60	-27.55	-1.70
		Valor máximo de la envolvente	16.566	61.177	95.251	49.46	26.86	2.81
	Tensiones sobre el terreno	Valor mínimo de la envolvente	-36.973	-13.816	-23.064	-21.10	-17.43	-1.04
		Valor máximo de la envolvente	10.340	38.180	70.660	30.90	16.77	1.86
N1698	Hormigón en cimentaciones	Valor mínimo de la envolvente	-36.375	-17.479	-31.883	-31.14	-77.53	-2.41
		Valor máximo de la envolvente	79.258	55.441	63.597	48.27	150.56	1.01
	Tensiones sobre el terreno	Valor mínimo de la envolvente	-22.482	-11.065	-11.806	-19.44	-47.31	-1.84
		Valor máximo de la envolvente	50.562	34.759	59.228	30.28	98.81	0.55
N1701	Hormigón en cimentaciones	Valor mínimo de la envolvente	-36.850	-18.045	-2.055	-32.40	-78.22	-0.07
		Valor máximo de la envolvente	80.723	11.810	65.745	49.57	155.49	0.08
	Tensiones sobre el terreno	Valor mínimo de la envolvente	-22.672	-11.279	7.689	-20.25	-47.27	-0.05
		Valor máximo de la envolvente	51.910	7.381	60.205	30.98	103.75	0.05
N1704	Hormigón en cimentaciones	Valor mínimo de la envolvente	-36.485	-85.747	-36.879	-31.87	-78.09	-0.91
		Valor máximo de la envolvente	79.215	11.657	60.355	48.15	150.30	2.39
	Tensiones sobre el terreno	Valor mínimo de la envolvente	-22.551	-53.705	-14.931	-20.02	-47.65	-0.48
		Valor máximo de la envolvente	50.536	7.425	55.848	30.07	98.65	1.82

Nota: Las combinaciones de hormigón indicadas son las mismas que se utilizan para comprobar el estado límite de equilibrio en la cimentación.

1. ESTRUCTURA

1.1. Resultados

1.1.1. Barras

1.1.1.1. Resistencia

Referencias:

N: Esfuerzo axil (kN)
Vy: Esfuerzo cortante según el eje local Y de la barra. (kN)
Vz: Esfuerzo cortante según el eje local Z de la barra. (kN)
Mt: Momento torsor (kN·m)
My: Momento flector en el plano 'XZ' (giro de la sección respecto al eje local 'Y' de la barra). (kN·m)
Mz: Momento flector en el plano 'XY' (giro de la sección respecto al eje local 'Z' de la barra). (kN·m)

Los esfuerzos indicados son los correspondientes a la combinación pésima, es decir, aquella que demanda la máxima resistencia de la sección.

Origen de los esfuerzos pésimos:

– G: Sólo gravitatorias
– GV: Gravitatorias + viento
– GS: Gravitatorias + sismo
– GVS: Gravitatorias + viento + sismo

η: Aprovechamiento de la resistencia. La barra cumple con las condiciones de resistencia de la norma si se cumple que $\eta \leq 100$ %.

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1/N1658	37.04	0.000	-47.129	13.029	18.106	-2.70	38.15	23.10	GV	Cumple
N1658/N1822	15.63	2.374	-34.212	-0.259	-0.181	-2.82	-16.69	-7.86	GV	Cumple
N1822/N2	7.99	0.125	-15.689	0.861	-6.549	4.11	-8.44	-4.26	GV	Cumple
N6/N1663	43.59	0.000	-153.725	12.874	19.243	1.64	38.52	24.73	GV	Cumple
N1663/N1846	21.09	2.375	-86.698	1.221	2.241	2.92	-20.90	-8.59	GV	Cumple
N1846/N7	7.37	1.375	-18.869	2.210	-1.286	-5.33	-4.59	-6.75	GV	Cumple
N8/N1657	53.93	0.000	-110.954	6.222	34.294	0.69	66.83	18.54	GV	Cumple
N1657/N1964	21.07	0.837	-94.741	-0.631	0.388	2.22	25.79	1.47	GV	Cumple
N1964/N9	17.17	0.125	-71.214	-1.429	-34.412	-2.74	-22.47	1.49	GV	Cumple
N11/N1660	56.84	0.000	-75.770	4.725	38.081	-0.43	76.99	16.67	GV	Cumple
N1660/N1941	29.96	3.380	-150.793	-0.427	-3.364	0.32	36.40	1.13	GV	Cumple
N1941/N12	21.51	0.125	-92.887	4.718	-38.820	-1.89	-21.69	7.99	GV	Cumple
N13/N1661	54.79	0.000	-74.897	4.856	37.026	-0.84	73.33	16.79	GV	Cumple
N1661/N2010	29.94	2.990	-122.052	-0.473	-2.214	0.22	39.82	1.11	GV	Cumple
N2010/N14	19.83	0.125	-84.185	5.056	-35.290	-1.67	-19.07	8.42	GV	Cumple
N15/N1662	48.50	0.000	-42.480	6.388	33.065	-1.85	63.25	18.65	GV	Cumple
N1662/N2030	26.13	2.430	-95.712	1.719	-3.426	-0.44	34.96	-2.62	GV	Cumple
N2030/N1987	26.90	0.100	-94.775	-2.201	-3.198	-1.48	35.66	-3.38	GV	Cumple
N1987/N16	14.93	1.475	-66.756	-0.834	-22.745	2.82	17.02	-3.37	GV	Cumple
N17/N1665	60.66	0.000	-77.759	5.895	42.707	0.57	80.54	19.71	GV	Cumple
N1665/N2032	31.17	2.429	-88.471	4.645	-4.405	2.81	-38.42	-8.73	GV	Cumple
N2032/N2001	31.59	0.100	-88.274	23.050	-4.933	5.26	-37.78	-10.13	GV	Cumple
N2001/N18	13.29	0.125	-54.571	1.676	25.875	1.06	15.11	3.49	GV	Cumple
N19/N1666	70.76	0.000	-129.855	4.543	48.530	0.18	95.84	17.59	GV	Cumple
N1666/N2024	38.55	2.781	-123.132	6.595	-6.125	0.91	-43.58	-13.52	GV	Cumple
N2024/N20	20.66	0.125	-85.825	5.125	36.096	1.73	20.25	8.56	GV	Cumple
N21/N1667	72.59	0.000	-133.555	5.173	48.757	0.29	98.49	17.84	GV	Cumple
N1667/N1955	35.47	2.553	-127.043	3.980	-4.033	0.46	-43.46	-7.83	GV	Cumple
N1955/N22	22.32	0.125	-94.551	4.754	39.667	1.91	22.91	8.06	GV	Cumple
N24/N1664	59.19	0.000	-93.743	7.204	40.075	1.25	76.73	19.49	GV	Cumple
N1664/N1978	21.73	1.348	-68.157	-0.957	1.058	0.13	-28.73	-3.37	GV	Cumple
N1978/N25	17.67	0.125	-72.447	-1.426	34.881	2.76	23.24	1.48	GV	Cumple
N51/N52	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N52/N53	19.13	0.650	-1.215	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N53/N54	19.59	0.650	-1.007	0.000	0.000	0.00	0.27	0.00	G	Cumple
N54/N55	19.06	0.650	-0.711	0.000	0.000	0.00	0.27	0.00	G	Cumple
N55/N56	20.33	0.650	2.708	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N56/N57	23.31	0.650	5.136	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N57/N58	23.14	0.650	5.000	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N58/N59	21.44	0.650	3.612	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N59/N60	21.13	0.650	3.358	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N60/N61	22.45	0.650	4.432	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N61/N62	24.51	0.650	6.111	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N62/N63	23.88	0.650	5.604	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N63/N64	21.72	0.650	3.841	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N64/N65	20.84	0.650	3.122	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N65/N66	21.70	0.650	3.823	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N66/N67	23.62	0.650	5.388	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N67/N68	22.79	0.650	4.713	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N68/N69	20.08	0.650	2.504	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N69/N70	19.06	0.650	-0.711	0.000	0.000	0.00	0.27	0.00	G	Cumple
N70/N71	19.59	0.650	-1.007	0.000	0.000	0.00	0.27	0.00	G	Cumple
N71/N72	18.43	0.650	-1.510	0.000	0.000	0.00	-0.23	0.01	GV	Cumple
N72/N73	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple
N74/N75	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple
N75/N76	19.15	0.650	-1.914	0.000	0.000	0.00	-0.23	0.01	GV	Cumple
N76/N77	20.79	0.650	-2.143	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N77/N78	21.45	0.650	-2.044	0.000	0.000	0.00	0.27	0.00	G	Cumple
N78/N79	19.84	0.650	-1.146	0.000	0.000	0.00	0.27	0.00	G	Cumple
N79/N80	19.19	0.650	1.149	0.000	0.000	0.00	0.27	0.00	G	Cumple
N80/N81	18.92	0.650	0.928	0.000	0.000	0.00	0.27	0.00	G	Cumple
N81/N82	20.82	0.650	-2.159	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N82/N83	21.89	0.650	-2.289	0.000	0.000	0.00	0.27	0.00	G	Cumple
N83/N84	19.60	0.650	-1.015	0.000	0.000	0.00	0.27	0.00	G	Cumple
N84/N85	19.88	0.650	1.712	0.000	0.000	0.00	0.27	0.00	G	Cumple
N85/N86	19.88	0.650	1.712	0.000	0.000	0.00	0.27	0.00	G	Cumple
N86/N87	19.60	0.650	-1.016	0.000	0.000	0.00	0.27	0.00	G	Cumple
N87/N88	21.89	0.650	-2.289	0.000	0.000	0.00	0.27	0.00	G	Cumple
N88/N89	20.81	0.650	-2.152	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N89/N90	19.61	0.650	2.117	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N90/N91	19.19	0.650	1.149	0.000	0.000	0.00	0.27	0.00	G	Cumple
N91/N92	19.84	0.650	-1.147	0.000	0.000	0.00	0.27	0.00	G	Cumple
N92/N93	21.45	0.650	-2.044	0.000	0.000	0.00	0.27	0.00	G	Cumple
N93/N94	20.13	0.650	-1.307	0.000	0.000	0.00	0.27	0.00	G	Cumple
N94/N95	19.14	0.650	1.735	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N95/N96	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple
N97/N98	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple
N98/N99	18.55	0.650	1.256	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N99/N100	20.91	0.650	-2.211	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N100/N101	23.38	0.650	-3.589	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N101/N102	23.44	0.650	-3.625	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N102/N103	22.09	0.650	-2.868	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N103/N104	24.03	0.650	-3.951	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N104/N105	26.51	0.650	-5.338	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N105/N106	27.79	0.650	-5.573	0.000	0.000	0.00	0.27	0.00	G	Cumple
N106/N107	26.10	0.650	-4.632	0.000	0.000	0.00	0.27	0.00	G	Cumple
N107/N108	23.11	0.650	-3.436	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N108/N109	23.11	0.650	-3.441	0.000	0.000	0.00	0.25	0.00	GV	Cumple

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 20/12/24

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N109/N110	26.10	0.650	-4.632	0.000	0.000	0.00	0.27	0.00	G	Cumple
N110/N111	27.79	0.650	-5.573	0.000	0.000	0.00	0.27	0.00	G	Cumple
N111/N112	26.44	0.650	-5.302	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N112/N113	24.01	0.650	-3.941	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N113/N114	21.85	0.650	-2.735	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N114/N115	22.94	0.650	-3.346	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N115/N116	22.63	0.650	-2.700	0.000	0.000	0.00	0.27	0.00	G	Cumple
N116/N117	20.18	0.650	-1.333	0.000	0.000	0.00	0.27	0.00	G	Cumple
N117/N118	19.37	0.650	1.924	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N118/N119	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple
N120/N121	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple
N121/N122	18.21	0.650	-0.240	0.000	0.000	0.00	0.27	0.00	G	Cumple
N122/N123	20.79	0.650	-1.676	0.000	0.000	0.00	0.27	0.00	G	Cumple
N123/N124	23.61	0.650	-3.247	0.000	0.000	0.00	0.27	0.00	G	Cumple
N124/N125	25.69	0.650	-4.880	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N125/N126	27.35	0.650	-5.807	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N126/N127	29.15	0.650	-6.817	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N127/N128	31.00	0.650	-7.359	0.000	0.000	0.00	0.27	0.00	G	Cumple
N128/N129	32.12	0.650	-7.986	0.000	0.000	0.00	0.27	0.00	G	Cumple
N129/N130	31.78	0.650	-7.795	0.000	0.000	0.00	0.27	0.00	G	Cumple
N130/N131	30.88	0.650	-7.295	0.000	0.000	0.00	0.27	0.00	G	Cumple
N131/N132	30.88	0.650	-7.295	0.000	0.000	0.00	0.27	0.00	G	Cumple
N132/N133	31.78	0.650	-7.795	0.000	0.000	0.00	0.27	0.00	G	Cumple
N133/N134	32.12	0.650	-7.986	0.000	0.000	0.00	0.27	0.00	G	Cumple
N134/N135	31.00	0.650	-7.359	0.000	0.000	0.00	0.27	0.00	G	Cumple
N135/N136	29.13	0.650	-6.804	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N136/N137	27.21	0.650	-5.729	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N137/N138	25.76	0.650	-4.918	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N138/N139	23.61	0.650	-3.247	0.000	0.000	0.00	0.27	0.00	G	Cumple
N139/N140	20.79	0.650	-1.676	0.000	0.000	0.00	0.27	0.00	G	Cumple
N140/N141	18.21	0.650	-0.240	0.000	0.000	0.00	0.27	0.00	G	Cumple
N141/N142	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple
N143/N144	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple
N144/N145	18.40	0.650	-0.345	0.000	0.000	0.00	0.27	0.00	G	Cumple
N145/N146	22.02	0.650	-2.358	0.000	0.000	0.00	0.27	0.00	G	Cumple
N146/N147	26.67	0.650	-4.947	0.000	0.000	0.00	0.27	0.00	G	Cumple
N147/N148	30.77	0.650	-7.235	0.000	0.000	0.00	0.27	0.00	G	Cumple
N148/N149	33.99	0.650	-9.025	0.000	0.000	0.00	0.27	0.00	G	Cumple
N149/N150	36.56	0.650	-10.457	0.000	0.000	0.00	0.27	0.00	G	Cumple
N150/N151	38.57	0.650	-11.575	0.000	0.000	0.00	0.27	0.00	G	Cumple
N151/N152	39.81	0.650	-12.269	0.000	0.000	0.00	0.27	0.00	G	Cumple
N152/N153	40.26	0.650	-12.519	0.000	0.000	0.00	0.27	0.00	G	Cumple
N153/N154	40.27	0.650	-12.523	0.000	0.000	0.00	0.27	0.00	G	Cumple
N154/N155	40.27	0.650	-12.523	0.000	0.000	0.00	0.27	0.00	G	Cumple
N155/N156	40.26	0.650	-12.519	0.000	0.000	0.00	0.27	0.00	G	Cumple
N156/N157	39.81	0.650	-12.269	0.000	0.000	0.00	0.27	0.00	G	Cumple
N157/N158	38.57	0.650	-11.575	0.000	0.000	0.00	0.27	0.00	G	Cumple
N158/N159	36.56	0.650	-10.457	0.000	0.000	0.00	0.27	0.00	G	Cumple
N159/N160	33.99	0.650	-9.025	0.000	0.000	0.00	0.27	0.00	G	Cumple
N160/N161	30.77	0.650	-7.235	0.000	0.000	0.00	0.27	0.00	G	Cumple
N161/N162	26.67	0.650	-4.947	0.000	0.000	0.00	0.27	0.00	G	Cumple
N162/N163	22.02	0.650	-2.358	0.000	0.000	0.00	0.27	0.00	G	Cumple
N163/N164	18.40	0.650	-0.345	0.000	0.000	0.00	0.27	0.00	G	Cumple
N164/N165	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple
N166/N167	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N167/N168	19.64	0.650	1.514	0.000	0.000	0.00	0.27	0.00	G	Cumple
N168/N169	23.15	0.650	-2.988	0.000	0.000	0.00	0.27	0.00	G	Cumple
N169/N170	31.78	0.650	-7.797	0.000	0.000	0.00	0.27	0.00	G	Cumple
N170/N171	38.52	0.650	-11.548	0.000	0.000	0.00	0.27	0.00	G	Cumple
N171/N172	43.57	0.650	-14.359	0.000	0.000	0.00	0.27	0.00	G	Cumple
N172/N173	47.37	0.650	-16.474	0.000	0.000	0.00	0.27	0.00	G	Cumple
N173/N174	50.17	0.650	-18.034	0.000	0.000	0.00	0.27	0.00	G	Cumple
N174/N175	52.07	0.650	-19.092	0.000	0.000	0.00	0.27	0.00	G	Cumple
N175/N176	53.13	0.650	-19.684	0.000	0.000	0.00	0.27	0.00	G	Cumple
N176/N177	53.50	0.650	-19.889	0.000	0.000	0.00	0.27	0.00	G	Cumple
N177/N178	53.50	0.650	-19.889	0.000	0.000	0.00	0.27	0.00	G	Cumple
N178/N179	53.13	0.650	-19.684	0.000	0.000	0.00	0.27	0.00	G	Cumple
N179/N180	52.07	0.650	-19.092	0.000	0.000	0.00	0.27	0.00	G	Cumple
N180/N181	50.17	0.650	-18.034	0.000	0.000	0.00	0.27	0.00	G	Cumple
N181/N182	47.37	0.650	-16.474	0.000	0.000	0.00	0.27	0.00	G	Cumple
N182/N183	43.57	0.650	-14.359	0.000	0.000	0.00	0.27	0.00	G	Cumple
N183/N184	38.52	0.650	-11.548	0.000	0.000	0.00	0.27	0.00	G	Cumple
N184/N185	31.78	0.650	-7.797	0.000	0.000	0.00	0.27	0.00	G	Cumple
N185/N186	23.15	0.650	-2.988	0.000	0.000	0.00	0.27	0.00	G	Cumple
N186/N187	19.64	0.650	1.514	0.000	0.000	0.00	0.27	0.00	G	Cumple
N187/N188	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple
N189/N190	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple
N190/N191	22.29	0.650	3.680	0.000	0.000	0.00	0.27	0.00	G	Cumple
N191/N192	23.49	0.650	-3.178	0.000	0.000	0.00	0.27	0.00	G	Cumple
N192/N193	35.64	0.650	-9.946	0.000	0.000	0.00	0.27	0.00	G	Cumple
N193/N194	44.67	0.650	-14.971	0.000	0.000	0.00	0.27	0.00	G	Cumple
N194/N195	51.36	0.650	-18.699	0.000	0.000	0.00	0.27	0.00	G	Cumple
N195/N196	56.42	0.650	-21.514	0.000	0.000	0.00	0.27	0.00	G	Cumple
N196/N197	60.18	0.650	-23.607	0.000	0.000	0.00	0.27	0.00	G	Cumple
N197/N198	62.81	0.650	-25.071	0.000	0.000	0.00	0.27	0.00	G	Cumple
N198/N199	64.36	0.650	-25.936	0.000	0.000	0.00	0.27	0.00	G	Cumple
N199/N200	64.92	0.650	-26.246	0.000	0.000	0.00	0.27	0.00	G	Cumple
N200/N201	64.92	0.650	-26.246	0.000	0.000	0.00	0.27	0.00	G	Cumple
N201/N202	64.36	0.650	-25.936	0.000	0.000	0.00	0.27	0.00	G	Cumple
N202/N203	62.81	0.650	-25.071	0.000	0.000	0.00	0.27	0.00	G	Cumple
N203/N204	60.18	0.650	-23.607	0.000	0.000	0.00	0.27	0.00	G	Cumple
N204/N205	56.42	0.650	-21.514	0.000	0.000	0.00	0.27	0.00	G	Cumple
N205/N206	51.36	0.650	-18.699	0.000	0.000	0.00	0.27	0.00	G	Cumple
N206/N207	44.67	0.650	-14.971	0.000	0.000	0.00	0.27	0.00	G	Cumple
N207/N208	35.64	0.650	-9.946	0.000	0.000	0.00	0.27	0.00	G	Cumple
N208/N209	23.49	0.650	-3.178	0.000	0.000	0.00	0.27	0.00	G	Cumple
N209/N210	22.29	0.650	3.680	0.000	0.000	0.00	0.27	0.00	G	Cumple
N210/N211	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple
N212/N213	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple
N213/N214	20.39	0.650	2.129	0.000	0.000	0.00	0.27	0.00	G	Cumple
N214/N215	23.68	0.650	-3.286	0.000	0.000	0.00	0.27	0.00	G	Cumple
N215/N216	34.91	0.650	-10.033	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N216/N217	43.85	0.650	-15.030	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N217/N218	50.57	0.650	-18.787	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N218/N219	55.63	0.650	-21.612	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N219/N220	59.38	0.650	-23.163	0.000	0.000	0.00	0.27	0.00	G	Cumple
N220/N221	62.08	0.650	-24.668	0.000	0.000	0.00	0.27	0.00	G	Cumple
N221/N222	63.72	0.650	-25.581	0.000	0.000	0.00	0.27	0.00	G	Cumple
N222/N223	64.39	0.650	-25.955	0.000	0.000	0.00	0.27	0.00	G	Cumple
N223/N224	64.39	0.650	-25.955	0.000	0.000	0.00	0.27	0.00	G	Cumple

Listados
Coberta de 46'8x28'6 malla tetràedres
Fecha: 20/12/24

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N224/N225	63.72	0.650	-25.581	0.000	0.000	0.00	0.27	0.00	G	Cumple
N225/N226	62.08	0.650	-24.668	0.000	0.000	0.00	0.27	0.00	G	Cumple
N226/N227	59.38	0.650	-23.163	0.000	0.000	0.00	0.27	0.00	G	Cumple
N227/N228	55.51	0.650	-21.009	0.000	0.000	0.00	0.27	0.00	G	Cumple
N228/N229	50.30	0.650	-18.105	0.000	0.000	0.00	0.27	0.00	G	Cumple
N229/N230	43.45	0.650	-14.290	0.000	0.000	0.00	0.27	0.00	G	Cumple
N230/N231	34.57	0.650	-9.349	0.000	0.000	0.00	0.27	0.00	G	Cumple
N231/N232	23.68	0.650	-3.286	0.000	0.000	0.00	0.27	0.00	G	Cumple
N232/N233	20.39	0.650	2.129	0.000	0.000	0.00	0.27	0.00	G	Cumple
N233/N234	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple
N235/N236	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple
N236/N237	19.01	0.650	-0.682	0.000	0.000	0.00	0.27	0.00	G	Cumple
N237/N238	24.49	0.650	-3.737	0.000	0.000	0.00	0.27	0.00	G	Cumple
N238/N239	32.07	0.650	-7.955	0.000	0.000	0.00	0.27	0.00	G	Cumple
N239/N240	39.61	0.650	-12.154	0.000	0.000	0.00	0.27	0.00	G	Cumple
N240/N241	46.05	0.650	-15.741	0.000	0.000	0.00	0.27	0.00	G	Cumple
N241/N242	51.10	0.650	-18.555	0.000	0.000	0.00	0.27	0.00	G	Cumple
N242/N243	54.83	0.650	-20.627	0.000	0.000	0.00	0.27	0.00	G	Cumple
N243/N244	57.38	0.650	-22.052	0.000	0.000	0.00	0.27	0.00	G	Cumple
N244/N245	58.96	0.650	-22.927	0.000	0.000	0.00	0.27	0.00	G	Cumple
N245/N246	59.69	0.650	-23.334	0.000	0.000	0.00	0.27	0.00	G	Cumple
N246/N247	59.69	0.650	-23.334	0.000	0.000	0.00	0.27	0.00	G	Cumple
N247/N248	58.95	0.650	-22.927	0.000	0.000	0.00	0.27	0.00	G	Cumple
N248/N249	57.38	0.650	-22.052	0.000	0.000	0.00	0.27	0.00	G	Cumple
N249/N250	54.83	0.650	-20.627	0.000	0.000	0.00	0.27	0.00	G	Cumple
N250/N251	51.10	0.650	-18.555	0.000	0.000	0.00	0.27	0.00	G	Cumple
N251/N252	46.05	0.650	-15.741	0.000	0.000	0.00	0.27	0.00	G	Cumple
N252/N253	39.61	0.650	-12.154	0.000	0.000	0.00	0.27	0.00	G	Cumple
N253/N254	32.07	0.650	-7.955	0.000	0.000	0.00	0.27	0.00	G	Cumple
N254/N255	24.49	0.650	-3.737	0.000	0.000	0.00	0.27	0.00	G	Cumple
N255/N256	19.01	0.650	-0.682	0.000	0.000	0.00	0.27	0.00	G	Cumple
N256/N257	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple
N258/N259	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple
N259/N260	19.68	0.650	-1.059	0.000	0.000	0.00	0.27	0.00	G	Cumple
N260/N261	24.98	0.650	-4.009	0.000	0.000	0.00	0.27	0.00	G	Cumple
N261/N262	32.15	0.650	-7.999	0.000	0.000	0.00	0.27	0.00	G	Cumple
N262/N263	39.74	0.650	-12.228	0.000	0.000	0.00	0.27	0.00	G	Cumple
N263/N264	46.50	0.650	-15.994	0.000	0.000	0.00	0.27	0.00	G	Cumple
N264/N265	51.89	0.650	-18.995	0.000	0.000	0.00	0.27	0.00	G	Cumple
N265/N266	55.87	0.650	-21.207	0.000	0.000	0.00	0.27	0.00	G	Cumple
N266/N267	58.58	0.650	-22.719	0.000	0.000	0.00	0.27	0.00	G	Cumple
N267/N268	60.24	0.650	-23.643	0.000	0.000	0.00	0.27	0.00	G	Cumple
N268/N269	61.02	0.650	-24.077	0.000	0.000	0.00	0.27	0.00	G	Cumple
N269/N270	61.02	0.650	-24.077	0.000	0.000	0.00	0.27	0.00	G	Cumple
N270/N271	60.24	0.650	-23.643	0.000	0.000	0.00	0.27	0.00	G	Cumple
N271/N272	58.58	0.650	-22.718	0.000	0.000	0.00	0.27	0.00	G	Cumple
N272/N273	55.87	0.650	-21.207	0.000	0.000	0.00	0.27	0.00	G	Cumple
N273/N274	51.89	0.650	-18.995	0.000	0.000	0.00	0.27	0.00	G	Cumple
N274/N275	46.50	0.650	-15.993	0.000	0.000	0.00	0.27	0.00	G	Cumple
N275/N276	39.74	0.650	-12.228	0.000	0.000	0.00	0.27	0.00	G	Cumple
N276/N277	32.15	0.650	-7.999	0.000	0.000	0.00	0.27	0.00	G	Cumple
N277/N278	24.98	0.650	-4.009	0.000	0.000	0.00	0.27	0.00	G	Cumple
N278/N279	19.68	0.650	-1.059	0.000	0.000	0.00	0.27	0.00	G	Cumple
N279/N280	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple
N281/N282	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N282/N283	19.43	0.650	-0.916	0.000	0.000	0.00	0.27	0.00	G	Cumple
N283/N284	25.92	0.650	-4.533	0.000	0.000	0.00	0.27	0.00	G	Cumple
N284/N285	34.96	0.650	-9.565	0.000	0.000	0.00	0.27	0.00	G	Cumple
N285/N286	43.86	0.650	-14.522	0.000	0.000	0.00	0.27	0.00	G	Cumple
N286/N287	51.43	0.650	-18.739	0.000	0.000	0.00	0.27	0.00	G	Cumple
N287/N288	57.41	0.650	-22.067	0.000	0.000	0.00	0.27	0.00	G	Cumple
N288/N289	61.87	0.650	-24.549	0.000	0.000	0.00	0.27	0.00	G	Cumple
N289/N290	64.96	0.650	-26.268	0.000	0.000	0.00	0.27	0.00	G	Cumple
N290/N291	66.84	0.650	-27.316	0.000	0.000	0.00	0.27	0.00	G	Cumple
N291/N292	67.70	0.650	-27.795	0.000	0.000	0.00	0.27	0.00	G	Cumple
N292/N293	67.70	0.650	-27.795	0.000	0.000	0.00	0.27	0.00	G	Cumple
N293/N294	66.84	0.650	-27.316	0.000	0.000	0.00	0.27	0.00	G	Cumple
N294/N295	64.95	0.650	-26.267	0.000	0.000	0.00	0.27	0.00	G	Cumple
N295/N296	61.87	0.650	-24.548	0.000	0.000	0.00	0.27	0.00	G	Cumple
N296/N297	57.41	0.650	-22.067	0.000	0.000	0.00	0.27	0.00	G	Cumple
N297/N298	51.43	0.650	-18.738	0.000	0.000	0.00	0.27	0.00	G	Cumple
N298/N299	43.86	0.650	-14.522	0.000	0.000	0.00	0.27	0.00	G	Cumple
N299/N300	34.96	0.650	-9.564	0.000	0.000	0.00	0.27	0.00	G	Cumple
N300/N301	25.92	0.650	-4.533	0.000	0.000	0.00	0.27	0.00	G	Cumple
N301/N302	19.43	0.650	-0.916	0.000	0.000	0.00	0.27	0.00	G	Cumple
N302/N303	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple
N304/N305	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple
N305/N306	20.81	0.650	2.473	0.000	0.000	0.00	0.27	0.00	G	Cumple
N306/N307	26.31	0.650	-4.748	0.000	0.000	0.00	0.27	0.00	G	Cumple
N307/N308	40.85	0.650	-12.845	0.000	0.000	0.00	0.27	0.00	G	Cumple
N308/N309	52.79	0.650	-19.494	0.000	0.000	0.00	0.27	0.00	G	Cumple
N309/N310	62.18	0.650	-24.722	0.000	0.000	0.00	0.27	0.00	G	Cumple
N310/N311	69.51	0.650	-28.805	0.000	0.000	0.00	0.27	0.00	G	Cumple
N311/N312	75.09	0.650	-31.911	0.000	0.000	0.00	0.27	0.00	G	Cumple
N312/N313	79.04	0.650	-34.112	0.000	0.000	0.00	0.27	0.00	G	Cumple
N313/N314	81.43	0.650	-35.439	0.000	0.000	0.00	0.27	0.00	G	Cumple
N314/N315	82.37	0.650	-35.966	0.000	0.000	0.00	0.27	0.00	G	Cumple
N315/N316	82.37	0.650	-35.966	0.000	0.000	0.00	0.27	0.00	G	Cumple
N316/N317	81.42	0.650	-35.438	0.000	0.000	0.00	0.27	0.00	G	Cumple
N317/N318	79.04	0.650	-34.112	0.000	0.000	0.00	0.27	0.00	G	Cumple
N318/N319	75.09	0.650	-31.911	0.000	0.000	0.00	0.27	0.00	G	Cumple
N319/N320	69.51	0.650	-28.805	0.000	0.000	0.00	0.27	0.00	G	Cumple
N320/N321	62.18	0.650	-24.722	0.000	0.000	0.00	0.27	0.00	G	Cumple
N321/N322	52.79	0.650	-19.494	0.000	0.000	0.00	0.27	0.00	G	Cumple
N322/N323	40.85	0.650	-12.844	0.000	0.000	0.00	0.27	0.00	G	Cumple
N323/N324	26.31	0.650	-4.748	0.000	0.000	0.00	0.27	0.00	G	Cumple
N324/N325	20.81	0.650	2.473	0.000	0.000	0.00	0.27	0.00	G	Cumple
N325/N326	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple
N327/N328	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple
N328/N329	24.22	0.650	5.251	0.000	0.000	0.00	0.27	0.00	G	Cumple
N329/N330	26.47	0.650	-4.841	0.000	0.000	0.00	0.27	0.00	G	Cumple
N330/N331	44.88	0.650	-15.091	0.000	0.000	0.00	0.27	0.00	G	Cumple
N331/N332	59.02	0.650	-22.964	0.000	0.000	0.00	0.27	0.00	G	Cumple
N332/N333	69.89	0.650	-29.015	0.000	0.000	0.00	0.27	0.00	G	Cumple
N333/N334	78.39	0.650	-33.747	0.000	0.000	0.00	0.27	0.00	G	Cumple
N334/N335	84.91	0.650	-37.378	0.000	0.000	0.00	0.27	0.00	G	Cumple
N335/N336	89.57	0.650	-39.974	0.000	0.000	0.00	0.27	0.00	G	Cumple
N336/N337	92.37	0.650	-41.531	0.000	0.000	0.00	0.27	0.00	G	Cumple
N337/N338	93.39	0.650	-42.099	0.000	0.000	0.00	0.27	0.00	G	Cumple
N338/N339	93.39	0.650	-42.099	0.000	0.000	0.00	0.27	0.00	G	Cumple

Listados
Coberta de 46'8x28'6 malla tetràedres
Fecha: 20/12/24

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N339/N340	92.37	0.650	-41.531	0.000	0.000	0.00	0.27	0.00	G	Cumple
N340/N341	89.57	0.650	-39.974	0.000	0.000	0.00	0.27	0.00	G	Cumple
N341/N342	84.91	0.650	-37.378	0.000	0.000	0.00	0.27	0.00	G	Cumple
N342/N343	78.39	0.650	-33.746	0.000	0.000	0.00	0.27	0.00	G	Cumple
N343/N344	69.89	0.650	-29.015	0.000	0.000	0.00	0.27	0.00	G	Cumple
N344/N345	59.02	0.650	-22.963	0.000	0.000	0.00	0.27	0.00	G	Cumple
N345/N346	44.88	0.650	-15.090	0.000	0.000	0.00	0.27	0.00	G	Cumple
N346/N347	26.53	0.650	-5.349	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N347/N348	24.22	0.650	5.251	0.000	0.000	0.00	0.27	0.00	G	Cumple
N348/N349	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple
N350/N351	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple
N351/N352	20.87	0.650	2.522	0.000	0.000	0.00	0.27	0.00	G	Cumple
N352/N353	26.61	0.650	-4.915	0.000	0.000	0.00	0.27	0.00	G	Cumple
N353/N354	41.76	0.650	-13.353	0.000	0.000	0.00	0.27	0.00	G	Cumple
N354/N355	54.37	0.650	-20.373	0.000	0.000	0.00	0.27	0.00	G	Cumple
N355/N356	64.36	0.650	-25.934	0.000	0.000	0.00	0.27	0.00	G	Cumple
N356/N357	72.18	0.650	-30.293	0.000	0.000	0.00	0.27	0.00	G	Cumple
N357/N358	78.15	0.650	-33.612	0.000	0.000	0.00	0.27	0.00	G	Cumple
N358/N359	82.38	0.650	-35.969	0.000	0.000	0.00	0.27	0.00	G	Cumple
N359/N360	84.94	0.650	-37.395	0.000	0.000	0.00	0.27	0.00	G	Cumple
N360/N361	85.97	0.650	-37.969	0.000	0.000	0.00	0.27	0.00	G	Cumple
N361/N362	85.97	0.650	-37.969	0.000	0.000	0.00	0.27	0.00	G	Cumple
N362/N363	84.94	0.650	-37.395	0.000	0.000	0.00	0.27	0.00	G	Cumple
N363/N364	82.38	0.650	-35.969	0.000	0.000	0.00	0.27	0.00	G	Cumple
N364/N365	78.14	0.650	-33.612	0.000	0.000	0.00	0.27	0.00	G	Cumple
N365/N366	72.18	0.650	-30.292	0.000	0.000	0.00	0.27	0.00	G	Cumple
N366/N367	64.36	0.650	-25.934	0.000	0.000	0.00	0.27	0.00	G	Cumple
N367/N368	54.37	0.650	-20.372	0.000	0.000	0.00	0.27	0.00	G	Cumple
N368/N369	41.76	0.650	-13.353	0.000	0.000	0.00	0.27	0.00	G	Cumple
N369/N370	26.61	0.650	-4.914	0.000	0.000	0.00	0.27	0.00	G	Cumple
N370/N371	20.87	0.650	2.522	0.000	0.000	0.00	0.27	0.00	G	Cumple
N371/N372	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple
N373/N374	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple
N374/N375	19.66	0.650	-1.046	0.000	0.000	0.00	0.27	0.00	G	Cumple
N375/N376	26.85	0.650	-5.052	0.000	0.000	0.00	0.27	0.00	G	Cumple
N376/N377	36.81	0.650	-10.595	0.000	0.000	0.00	0.27	0.00	G	Cumple
N377/N378	46.75	0.650	-16.133	0.000	0.000	0.00	0.27	0.00	G	Cumple
N378/N379	55.34	0.650	-20.916	0.000	0.000	0.00	0.27	0.00	G	Cumple
N379/N380	62.21	0.650	-24.739	0.000	0.000	0.00	0.27	0.00	G	Cumple
N380/N381	67.37	0.650	-27.614	0.000	0.000	0.00	0.27	0.00	G	Cumple
N381/N382	70.98	0.650	-29.621	0.000	0.000	0.00	0.27	0.00	G	Cumple
N382/N383	73.19	0.650	-30.853	0.000	0.000	0.00	0.27	0.00	G	Cumple
N383/N384	74.21	0.650	-31.421	0.000	0.000	0.00	0.27	0.00	G	Cumple
N384/N385	74.21	0.650	-31.421	0.000	0.000	0.00	0.27	0.00	G	Cumple
N385/N386	73.19	0.650	-30.853	0.000	0.000	0.00	0.27	0.00	G	Cumple
N386/N387	70.98	0.650	-29.621	0.000	0.000	0.00	0.27	0.00	G	Cumple
N387/N388	67.37	0.650	-27.614	0.000	0.000	0.00	0.27	0.00	G	Cumple
N388/N389	62.21	0.650	-24.738	0.000	0.000	0.00	0.27	0.00	G	Cumple
N389/N390	55.34	0.650	-20.916	0.000	0.000	0.00	0.27	0.00	G	Cumple
N390/N391	46.75	0.650	-16.132	0.000	0.000	0.00	0.27	0.00	G	Cumple
N391/N392	36.81	0.650	-10.595	0.000	0.000	0.00	0.27	0.00	G	Cumple
N392/N393	26.85	0.650	-5.052	0.000	0.000	0.00	0.27	0.00	G	Cumple
N393/N394	19.66	0.650	-1.046	0.000	0.000	0.00	0.27	0.00	G	Cumple
N394/N395	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple
N396/N397	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N397/N398	20.25	0.650	-1.375	0.000	0.000	0.00	0.27	0.00	G	Cumple
N398/N399	26.67	0.650	-4.948	0.000	0.000	0.00	0.27	0.00	G	Cumple
N399/N400	35.36	0.650	-9.787	0.000	0.000	0.00	0.27	0.00	G	Cumple
N400/N401	44.63	0.650	-14.949	0.000	0.000	0.00	0.27	0.00	G	Cumple
N401/N402	52.98	0.650	-19.599	0.000	0.000	0.00	0.27	0.00	G	Cumple
N402/N403	59.73	0.650	-23.361	0.000	0.000	0.00	0.27	0.00	G	Cumple
N403/N404	64.79	0.650	-26.178	0.000	0.000	0.00	0.27	0.00	G	Cumple
N404/N405	68.30	0.650	-28.128	0.000	0.000	0.00	0.27	0.00	G	Cumple
N405/N406	70.45	0.650	-29.328	0.000	0.000	0.00	0.27	0.00	G	Cumple
N406/N407	71.46	0.650	-29.892	0.000	0.000	0.00	0.27	0.00	G	Cumple
N407/N408	71.46	0.650	-29.892	0.000	0.000	0.00	0.27	0.00	G	Cumple
N408/N409	70.45	0.650	-29.328	0.000	0.000	0.00	0.27	0.00	G	Cumple
N409/N410	68.30	0.650	-28.128	0.000	0.000	0.00	0.27	0.00	G	Cumple
N410/N411	64.79	0.650	-26.178	0.000	0.000	0.00	0.27	0.00	G	Cumple
N411/N412	59.73	0.650	-23.361	0.000	0.000	0.00	0.27	0.00	G	Cumple
N412/N413	52.98	0.650	-19.599	0.000	0.000	0.00	0.27	0.00	G	Cumple
N413/N414	44.63	0.650	-14.949	0.000	0.000	0.00	0.27	0.00	G	Cumple
N414/N415	35.36	0.650	-9.787	0.000	0.000	0.00	0.27	0.00	G	Cumple
N415/N416	26.67	0.650	-4.948	0.000	0.000	0.00	0.27	0.00	G	Cumple
N416/N417	20.25	0.650	-1.375	0.000	0.000	0.00	0.27	0.00	G	Cumple
N417/N418	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple
N419/N420	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple
N420/N421	19.77	0.650	-1.106	0.000	0.000	0.00	0.27	0.00	G	Cumple
N421/N422	27.12	0.650	-5.199	0.000	0.000	0.00	0.27	0.00	G	Cumple
N422/N423	37.37	0.650	-10.907	0.000	0.000	0.00	0.27	0.00	G	Cumple
N423/N424	47.59	0.650	-16.598	0.000	0.000	0.00	0.27	0.00	G	Cumple
N424/N425	56.41	0.650	-21.509	0.000	0.000	0.00	0.27	0.00	G	Cumple
N425/N426	63.46	0.650	-25.436	0.000	0.000	0.00	0.27	0.00	G	Cumple
N426/N427	68.78	0.650	-28.396	0.000	0.000	0.00	0.27	0.00	G	Cumple
N427/N428	72.50	0.650	-30.467	0.000	0.000	0.00	0.27	0.00	G	Cumple
N428/N429	74.78	0.650	-31.740	0.000	0.000	0.00	0.27	0.00	G	Cumple
N429/N430	75.84	0.650	-32.327	0.000	0.000	0.00	0.27	0.00	G	Cumple
N430/N431	75.84	0.650	-32.327	0.000	0.000	0.00	0.27	0.00	G	Cumple
N431/N432	74.78	0.650	-31.740	0.000	0.000	0.00	0.27	0.00	G	Cumple
N432/N433	72.50	0.650	-30.467	0.000	0.000	0.00	0.27	0.00	G	Cumple
N433/N434	68.78	0.650	-28.397	0.000	0.000	0.00	0.27	0.00	G	Cumple
N434/N435	63.46	0.650	-25.437	0.000	0.000	0.00	0.27	0.00	G	Cumple
N435/N436	56.41	0.650	-21.509	0.000	0.000	0.00	0.27	0.00	G	Cumple
N436/N437	47.59	0.650	-16.599	0.000	0.000	0.00	0.27	0.00	G	Cumple
N437/N438	37.37	0.650	-10.907	0.000	0.000	0.00	0.27	0.00	G	Cumple
N438/N439	27.12	0.650	-5.199	0.000	0.000	0.00	0.27	0.00	G	Cumple
N439/N440	19.77	0.650	-1.106	0.000	0.000	0.00	0.27	0.00	G	Cumple
N440/N441	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple
N442/N443	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple
N443/N444	21.05	0.650	2.663	0.000	0.000	0.00	0.27	0.00	G	Cumple
N444/N445	27.18	0.650	-5.715	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N445/N446	43.01	0.650	-14.048	0.000	0.000	0.00	0.27	0.00	G	Cumple
N446/N447	56.22	0.650	-21.405	0.000	0.000	0.00	0.27	0.00	G	Cumple
N447/N448	66.72	0.650	-27.251	0.000	0.000	0.00	0.27	0.00	G	Cumple
N448/N449	74.99	0.650	-31.857	0.000	0.000	0.00	0.27	0.00	G	Cumple
N449/N450	81.33	0.650	-35.384	0.000	0.000	0.00	0.27	0.00	G	Cumple
N450/N451	85.84	0.650	-37.899	0.000	0.000	0.00	0.27	0.00	G	Cumple
N451/N452	88.59	0.650	-39.426	0.000	0.000	0.00	0.27	0.00	G	Cumple
N452/N453	89.69	0.650	-40.041	0.000	0.000	0.00	0.27	0.00	G	Cumple
N453/N454	89.69	0.650	-40.041	0.000	0.000	0.00	0.27	0.00	G	Cumple

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 20/12/24

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N454/N455	88.59	0.650	-39.427	0.000	0.000	0.00	0.27	0.00	G	Cumple
N455/N456	85.85	0.650	-37.900	0.000	0.000	0.00	0.27	0.00	G	Cumple
N456/N457	81.33	0.650	-35.385	0.000	0.000	0.00	0.27	0.00	G	Cumple
N457/N458	75.00	0.650	-31.858	0.000	0.000	0.00	0.27	0.00	G	Cumple
N458/N459	66.72	0.650	-27.253	0.000	0.000	0.00	0.27	0.00	G	Cumple
N459/N460	56.23	0.650	-21.407	0.000	0.000	0.00	0.27	0.00	G	Cumple
N460/N461	43.02	0.650	-14.568	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N461/N462	27.27	0.650	-5.764	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N462/N463	21.05	0.650	2.664	0.000	0.000	0.00	0.27	0.00	G	Cumple
N463/N464	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple
N465/N466	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple
N466/N467	24.57	0.650	5.538	0.000	0.000	0.00	0.27	0.00	G	Cumple
N467/N468	27.35	0.650	-5.807	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N468/N469	46.84	0.650	-16.182	0.000	0.000	0.00	0.27	0.00	G	Cumple
N469/N470	62.08	0.650	-24.666	0.000	0.000	0.00	0.27	0.00	G	Cumple
N470/N471	73.87	0.650	-31.233	0.000	0.000	0.00	0.27	0.00	G	Cumple
N471/N472	83.15	0.650	-36.400	0.000	0.000	0.00	0.27	0.00	G	Cumple
N472/N473	90.31	0.650	-40.385	0.000	0.000	0.00	0.27	0.00	G	Cumple
N473/N474	95.45	0.650	-43.246	0.000	0.000	0.00	0.27	0.00	G	Cumple
N474/N475	98.54	0.650	-44.970	0.000	0.000	0.00	0.27	0.00	G	Cumple
N475/N476	99.68	0.650	-45.603	0.000	0.000	0.00	0.27	0.00	G	Cumple
N476/N477	99.68	0.650	-45.603	0.000	0.000	0.00	0.27	0.00	G	Cumple
N477/N478	98.54	0.650	-44.971	0.000	0.000	0.00	0.27	0.00	G	Cumple
N478/N479	95.45	0.650	-43.249	0.000	0.000	0.00	0.27	0.00	G	Cumple
N479/N480	90.31	0.650	-40.388	0.000	0.000	0.00	0.27	0.00	G	Cumple
N480/N481	83.16	0.650	-36.403	0.000	0.000	0.00	0.27	0.00	G	Cumple
N481/N482	73.88	0.650	-31.236	0.000	0.000	0.00	0.27	0.00	G	Cumple
N482/N483	62.08	0.650	-24.669	0.000	0.000	0.00	0.27	0.00	G	Cumple
N483/N484	46.85	0.650	-16.184	0.000	0.000	0.00	0.27	0.00	G	Cumple
N484/N485	27.47	0.650	-5.877	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N485/N486	24.57	0.650	5.538	0.000	0.000	0.00	0.27	0.00	G	Cumple
N486/N487	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple
N488/N489	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple
N489/N490	20.90	0.650	2.542	0.000	0.000	0.00	0.27	0.00	G	Cumple
N490/N491	27.22	0.650	-5.258	0.000	0.000	0.00	0.27	0.00	G	Cumple
N491/N492	43.14	0.650	-14.119	0.000	0.000	0.00	0.27	0.00	G	Cumple
N492/N493	56.41	0.650	-21.511	0.000	0.000	0.00	0.27	0.00	G	Cumple
N493/N494	66.97	0.650	-27.391	0.000	0.000	0.00	0.27	0.00	G	Cumple
N494/N495	75.28	0.650	-32.019	0.000	0.000	0.00	0.27	0.00	G	Cumple
N495/N496	81.64	0.650	-35.557	0.000	0.000	0.00	0.27	0.00	G	Cumple
N496/N497	86.16	0.650	-38.075	0.000	0.000	0.00	0.27	0.00	G	Cumple
N497/N498	88.90	0.650	-39.602	0.000	0.000	0.00	0.27	0.00	G	Cumple
N498/N499	90.01	0.650	-40.217	0.000	0.000	0.00	0.27	0.00	G	Cumple
N499/N500	90.01	0.650	-40.217	0.000	0.000	0.00	0.27	0.00	G	Cumple
N500/N501	88.91	0.650	-39.604	0.000	0.000	0.00	0.27	0.00	G	Cumple
N501/N502	86.16	0.650	-38.078	0.000	0.000	0.00	0.27	0.00	G	Cumple
N502/N503	81.64	0.650	-35.560	0.000	0.000	0.00	0.27	0.00	G	Cumple
N503/N504	75.29	0.650	-32.022	0.000	0.000	0.00	0.27	0.00	G	Cumple
N504/N505	66.98	0.650	-27.395	0.000	0.000	0.00	0.27	0.00	G	Cumple
N505/N506	56.42	0.650	-21.515	0.000	0.000	0.00	0.27	0.00	G	Cumple
N506/N507	43.14	0.650	-14.122	0.000	0.000	0.00	0.27	0.00	G	Cumple
N507/N508	27.23	0.650	-5.259	0.000	0.000	0.00	0.27	0.00	G	Cumple
N508/N509	20.90	0.650	2.542	0.000	0.000	0.00	0.27	0.00	G	Cumple
N509/N510	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple
N511/N512	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N512/N513	19.78	0.650	-1.114	0.000	0.000	0.00	0.27	0.00	G	Cumple
N513/N514	27.24	0.650	-5.267	0.000	0.000	0.00	0.27	0.00	G	Cumple
N514/N515	37.54	0.650	-11.004	0.000	0.000	0.00	0.27	0.00	G	Cumple
N515/N516	47.82	0.650	-16.728	0.000	0.000	0.00	0.27	0.00	G	Cumple
N516/N517	56.70	0.650	-21.674	0.000	0.000	0.00	0.27	0.00	G	Cumple
N517/N518	63.81	0.650	-25.630	0.000	0.000	0.00	0.27	0.00	G	Cumple
N518/N519	69.17	0.650	-28.612	0.000	0.000	0.00	0.27	0.00	G	Cumple
N519/N520	72.91	0.650	-30.697	0.000	0.000	0.00	0.27	0.00	G	Cumple
N520/N521	75.21	0.650	-31.979	0.000	0.000	0.00	0.27	0.00	G	Cumple
N521/N522	76.27	0.650	-32.569	0.000	0.000	0.00	0.27	0.00	G	Cumple
N522/N523	76.27	0.650	-32.569	0.000	0.000	0.00	0.27	0.00	G	Cumple
N523/N524	75.21	0.650	-31.980	0.000	0.000	0.00	0.27	0.00	G	Cumple
N524/N525	72.91	0.650	-30.700	0.000	0.000	0.00	0.27	0.00	G	Cumple
N525/N526	69.17	0.650	-28.616	0.000	0.000	0.00	0.27	0.00	G	Cumple
N526/N527	63.82	0.650	-25.634	0.000	0.000	0.00	0.27	0.00	G	Cumple
N527/N528	56.71	0.650	-21.678	0.000	0.000	0.00	0.27	0.00	G	Cumple
N528/N529	47.83	0.650	-16.733	0.000	0.000	0.00	0.27	0.00	G	Cumple
N529/N530	37.55	0.650	-11.007	0.000	0.000	0.00	0.27	0.00	G	Cumple
N530/N531	27.24	0.650	-5.269	0.000	0.000	0.00	0.27	0.00	G	Cumple
N531/N532	19.78	0.650	-1.115	0.000	0.000	0.00	0.27	0.00	G	Cumple
N532/N533	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple
N534/N535	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple
N535/N536	20.29	0.650	-1.397	0.000	0.000	0.00	0.27	0.00	G	Cumple
N536/N537	26.79	0.650	-5.016	0.000	0.000	0.00	0.27	0.00	G	Cumple
N537/N538	35.58	0.650	-9.911	0.000	0.000	0.00	0.27	0.00	G	Cumple
N538/N539	44.95	0.650	-15.128	0.000	0.000	0.00	0.27	0.00	G	Cumple
N539/N540	53.39	0.650	-19.827	0.000	0.000	0.00	0.27	0.00	G	Cumple
N540/N541	60.21	0.650	-23.628	0.000	0.000	0.00	0.27	0.00	G	Cumple
N541/N542	65.33	0.650	-26.475	0.000	0.000	0.00	0.27	0.00	G	Cumple
N542/N543	68.87	0.650	-28.446	0.000	0.000	0.00	0.27	0.00	G	Cumple
N543/N544	71.05	0.650	-29.660	0.000	0.000	0.00	0.27	0.00	G	Cumple
N544/N545	72.07	0.650	-30.230	0.000	0.000	0.00	0.27	0.00	G	Cumple
N545/N546	72.07	0.650	-30.231	0.000	0.000	0.00	0.27	0.00	G	Cumple
N546/N547	71.05	0.650	-29.662	0.000	0.000	0.00	0.27	0.00	G	Cumple
N547/N548	68.87	0.650	-28.450	0.000	0.000	0.00	0.27	0.00	G	Cumple
N548/N549	65.34	0.650	-26.479	0.000	0.000	0.00	0.27	0.00	G	Cumple
N549/N550	60.22	0.650	-23.633	0.000	0.000	0.00	0.27	0.00	G	Cumple
N550/N551	53.40	0.650	-19.832	0.000	0.000	0.00	0.27	0.00	G	Cumple
N551/N552	44.96	0.650	-15.133	0.000	0.000	0.00	0.27	0.00	G	Cumple
N552/N553	35.59	0.650	-9.915	0.000	0.000	0.00	0.27	0.00	G	Cumple
N553/N554	26.80	0.650	-5.019	0.000	0.000	0.00	0.27	0.00	G	Cumple
N554/N555	20.29	0.650	-1.398	0.000	0.000	0.00	0.27	0.00	G	Cumple
N555/N556	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple
N557/N558	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple
N558/N559	19.73	0.650	-1.084	0.000	0.000	0.00	0.27	0.00	G	Cumple
N559/N560	27.00	0.650	-5.132	0.000	0.000	0.00	0.27	0.00	G	Cumple
N560/N561	37.12	0.650	-10.768	0.000	0.000	0.00	0.27	0.00	G	Cumple
N561/N562	47.22	0.650	-16.391	0.000	0.000	0.00	0.27	0.00	G	Cumple
N562/N563	55.93	0.650	-21.241	0.000	0.000	0.00	0.27	0.00	G	Cumple
N563/N564	62.89	0.650	-25.116	0.000	0.000	0.00	0.27	0.00	G	Cumple
N564/N565	68.12	0.650	-28.033	0.000	0.000	0.00	0.27	0.00	G	Cumple
N565/N566	71.78	0.650	-30.069	0.000	0.000	0.00	0.27	0.00	G	Cumple
N566/N567	74.03	0.650	-31.321	0.000	0.000	0.00	0.27	0.00	G	Cumple
N567/N568	75.07	0.650	-31.898	0.000	0.000	0.00	0.27	0.00	G	Cumple
N568/N569	75.07	0.650	-31.899	0.000	0.000	0.00	0.27	0.00	G	Cumple

Listados
Coberta de 46'8x28'6 malla tetràedres
Fecha: 20/12/24

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N569/N570	74.03	0.650	-31.323	0.000	0.000	0.00	0.27	0.00	G	Cumple
N570/N571	71.79	0.650	-30.073	0.000	0.000	0.00	0.27	0.00	G	Cumple
N571/N572	68.13	0.650	-28.037	0.000	0.000	0.00	0.27	0.00	G	Cumple
N572/N573	62.90	0.650	-25.121	0.000	0.000	0.00	0.27	0.00	G	Cumple
N573/N574	55.94	0.650	-21.247	0.000	0.000	0.00	0.27	0.00	G	Cumple
N574/N575	47.23	0.650	-16.397	0.000	0.000	0.00	0.27	0.00	G	Cumple
N575/N576	37.13	0.650	-10.775	0.000	0.000	0.00	0.27	0.00	G	Cumple
N576/N577	27.01	0.650	-5.138	0.000	0.000	0.00	0.27	0.00	G	Cumple
N577/N578	19.73	0.650	-1.087	0.000	0.000	0.00	0.27	0.00	G	Cumple
N578/N579	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple
N580/N581	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple
N581/N582	20.99	0.650	2.621	0.000	0.000	0.00	0.27	0.00	G	Cumple
N582/N583	27.02	0.650	-5.626	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N583/N584	42.39	0.650	-14.214	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N584/N585	55.06	0.650	-20.756	0.000	0.000	0.00	0.27	0.00	G	Cumple
N585/N586	65.19	0.650	-26.401	0.000	0.000	0.00	0.27	0.00	G	Cumple
N586/N587	73.15	0.650	-30.832	0.000	0.000	0.00	0.27	0.00	G	Cumple
N587/N588	79.23	0.650	-34.214	0.000	0.000	0.00	0.27	0.00	G	Cumple
N588/N589	83.55	0.650	-36.619	0.000	0.000	0.00	0.27	0.00	G	Cumple
N589/N590	86.16	0.650	-38.077	0.000	0.000	0.00	0.27	0.00	G	Cumple
N590/N591	87.22	0.650	-38.664	0.000	0.000	0.00	0.27	0.00	G	Cumple
N591/N592	87.22	0.650	-38.665	0.000	0.000	0.00	0.27	0.00	G	Cumple
N592/N593	86.17	0.650	-38.080	0.000	0.000	0.00	0.27	0.00	G	Cumple
N593/N594	83.55	0.650	-36.624	0.000	0.000	0.00	0.27	0.00	G	Cumple
N594/N595	79.23	0.650	-34.219	0.000	0.000	0.00	0.27	0.00	G	Cumple
N595/N596	73.16	0.650	-30.837	0.000	0.000	0.00	0.27	0.00	G	Cumple
N596/N597	65.20	0.650	-26.406	0.000	0.000	0.00	0.27	0.00	G	Cumple
N597/N598	55.12	0.650	-21.330	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N598/N599	42.51	0.650	-14.282	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N599/N600	27.13	0.650	-5.683	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N600/N601	20.99	0.650	2.615	0.000	0.000	0.00	0.27	0.00	G	Cumple
N601/N602	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple
N603/N604	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple
N604/N605	24.23	0.650	5.257	0.000	0.000	0.00	0.27	0.00	G	Cumple
N605/N606	27.25	0.650	-5.751	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N606/N607	45.61	0.650	-16.013	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N607/N608	60.02	0.650	-23.517	0.000	0.000	0.00	0.27	0.00	G	Cumple
N608/N609	71.11	0.650	-29.698	0.000	0.000	0.00	0.27	0.00	G	Cumple
N609/N610	79.80	0.650	-34.534	0.000	0.000	0.00	0.27	0.00	G	Cumple
N610/N611	86.47	0.650	-38.247	0.000	0.000	0.00	0.27	0.00	G	Cumple
N611/N612	91.24	0.650	-40.903	0.000	0.000	0.00	0.27	0.00	G	Cumple
N612/N613	94.10	0.650	-42.496	0.000	0.000	0.00	0.27	0.00	G	Cumple
N613/N614	95.14	0.650	-43.076	0.000	0.000	0.00	0.27	0.00	G	Cumple
N614/N615	95.14	0.650	-43.078	0.000	0.000	0.00	0.27	0.00	G	Cumple
N615/N616	94.11	0.650	-42.500	0.000	0.000	0.00	0.27	0.00	G	Cumple
N616/N617	91.25	0.650	-40.908	0.000	0.000	0.00	0.27	0.00	G	Cumple
N617/N618	86.48	0.650	-38.252	0.000	0.000	0.00	0.27	0.00	G	Cumple
N618/N619	79.81	0.650	-34.539	0.000	0.000	0.00	0.27	0.00	G	Cumple
N619/N620	71.12	0.650	-29.702	0.000	0.000	0.00	0.27	0.00	G	Cumple
N620/N621	60.02	0.650	-23.521	0.000	0.000	0.00	0.27	0.00	G	Cumple
N621/N622	45.74	0.650	-16.086	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N622/N623	27.37	0.650	-5.818	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N623/N624	24.22	0.650	5.251	0.000	0.000	0.00	0.27	0.00	G	Cumple
N624/N625	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple
N626/N627	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N627/N628	20.66	0.650	2.346	0.000	0.000	0.00	0.27	0.00	G	Cumple
N628/N629	26.89	0.650	-5.554	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N629/N630	41.59	0.650	-13.259	0.000	0.000	0.00	0.27	0.00	G	Cumple
N630/N631	53.86	0.650	-20.087	0.000	0.000	0.00	0.27	0.00	G	Cumple
N631/N632	63.52	0.650	-25.466	0.000	0.000	0.00	0.27	0.00	G	Cumple
N632/N633	71.06	0.650	-29.664	0.000	0.000	0.00	0.27	0.00	G	Cumple
N633/N634	76.78	0.650	-32.854	0.000	0.000	0.00	0.27	0.00	G	Cumple
N634/N635	80.84	0.650	-35.111	0.000	0.000	0.00	0.27	0.00	G	Cumple
N635/N636	83.28	0.650	-36.469	0.000	0.000	0.00	0.27	0.00	G	Cumple
N636/N637	84.24	0.650	-37.008	0.000	0.000	0.00	0.27	0.00	G	Cumple
N637/N638	84.25	0.650	-37.009	0.000	0.000	0.00	0.27	0.00	G	Cumple
N638/N639	83.28	0.650	-36.472	0.000	0.000	0.00	0.27	0.00	G	Cumple
N639/N640	80.84	0.650	-35.115	0.000	0.000	0.00	0.27	0.00	G	Cumple
N640/N641	76.79	0.650	-32.859	0.000	0.000	0.00	0.27	0.00	G	Cumple
N641/N642	71.06	0.650	-29.670	0.000	0.000	0.00	0.27	0.00	G	Cumple
N642/N643	63.53	0.650	-25.471	0.000	0.000	0.00	0.27	0.00	G	Cumple
N643/N644	53.87	0.650	-20.093	0.000	0.000	0.00	0.27	0.00	G	Cumple
N644/N645	41.60	0.650	-13.265	0.000	0.000	0.00	0.27	0.00	G	Cumple
N645/N646	26.98	0.650	-5.600	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N646/N647	20.65	0.650	2.341	0.000	0.000	0.00	0.27	0.00	G	Cumple
N647/N648	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple
N649/N650	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple
N650/N651	19.53	0.650	-0.973	0.000	0.000	0.00	0.27	0.00	G	Cumple
N651/N652	26.30	0.650	-4.745	0.000	0.000	0.00	0.27	0.00	G	Cumple
N652/N653	35.61	0.650	-9.928	0.000	0.000	0.00	0.27	0.00	G	Cumple
N653/N654	44.79	0.650	-15.038	0.000	0.000	0.00	0.27	0.00	G	Cumple
N654/N655	52.61	0.650	-19.391	0.000	0.000	0.00	0.27	0.00	G	Cumple
N655/N656	58.78	0.650	-22.830	0.000	0.000	0.00	0.27	0.00	G	Cumple
N656/N657	63.38	0.650	-25.393	0.000	0.000	0.00	0.27	0.00	G	Cumple
N657/N658	66.57	0.650	-27.168	0.000	0.000	0.00	0.27	0.00	G	Cumple
N658/N659	68.51	0.650	-28.248	0.000	0.000	0.00	0.27	0.00	G	Cumple
N659/N660	69.40	0.650	-28.741	0.000	0.000	0.00	0.27	0.00	G	Cumple
N660/N661	69.40	0.650	-28.742	0.000	0.000	0.00	0.27	0.00	G	Cumple
N661/N662	68.52	0.650	-28.250	0.000	0.000	0.00	0.27	0.00	G	Cumple
N662/N663	66.58	0.650	-27.171	0.000	0.000	0.00	0.27	0.00	G	Cumple
N663/N664	63.39	0.650	-25.398	0.000	0.000	0.00	0.27	0.00	G	Cumple
N664/N665	58.79	0.650	-22.836	0.000	0.000	0.00	0.27	0.00	G	Cumple
N665/N666	52.62	0.650	-19.398	0.000	0.000	0.00	0.27	0.00	G	Cumple
N666/N667	44.80	0.650	-15.045	0.000	0.000	0.00	0.27	0.00	G	Cumple
N667/N668	35.62	0.650	-9.936	0.000	0.000	0.00	0.27	0.00	G	Cumple
N668/N669	26.31	0.650	-4.751	0.000	0.000	0.00	0.27	0.00	G	Cumple
N669/N670	19.53	0.650	-0.976	0.000	0.000	0.00	0.27	0.00	G	Cumple
N670/N671	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple
N672/N673	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple
N673/N674	19.80	0.650	-1.125	0.000	0.000	0.00	0.27	0.00	G	Cumple
N674/N675	25.33	0.650	-4.205	0.000	0.000	0.00	0.27	0.00	G	Cumple
N675/N676	32.93	0.650	-8.926	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N676/N677	40.86	0.650	-13.359	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N677/N678	47.80	0.650	-17.238	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N678/N679	53.30	0.650	-19.778	0.000	0.000	0.00	0.27	0.00	G	Cumple
N679/N680	57.43	0.650	-22.075	0.000	0.000	0.00	0.27	0.00	G	Cumple
N680/N681	60.24	0.650	-23.643	0.000	0.000	0.00	0.27	0.00	G	Cumple
N681/N682	61.96	0.650	-24.599	0.000	0.000	0.00	0.27	0.00	G	Cumple
N682/N683	62.76	0.650	-25.045	0.000	0.000	0.00	0.27	0.00	G	Cumple
N683/N684	62.76	0.650	-25.044	0.000	0.000	0.00	0.27	0.00	G	Cumple

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 20/12/24

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N684/N685	61.96	0.650	-24.599	0.000	0.000	0.00	0.27	0.00	G	Cumple
N685/N686	60.25	0.650	-23.646	0.000	0.000	0.00	0.27	0.00	G	Cumple
N686/N687	57.44	0.650	-22.080	0.000	0.000	0.00	0.27	0.00	G	Cumple
N687/N688	53.33	0.650	-20.330	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N688/N689	47.88	0.650	-17.282	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N689/N690	40.94	0.650	-13.403	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N690/N691	33.00	0.650	-8.965	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N691/N692	25.34	0.650	-4.210	0.000	0.000	0.00	0.27	0.00	G	Cumple
N692/N693	19.80	0.650	-1.127	0.000	0.000	0.00	0.27	0.00	G	Cumple
N693/N694	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple
N695/N696	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple
N696/N697	19.15	0.650	-0.765	0.000	0.000	0.00	0.27	0.00	G	Cumple
N697/N698	25.08	0.650	-4.542	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N698/N699	33.31	0.650	-9.139	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N699/N700	41.20	0.650	-13.550	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N700/N701	47.79	0.650	-17.230	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N701/N702	52.88	0.650	-20.075	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N702/N703	56.59	0.650	-22.150	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N703/N704	59.25	0.650	-23.092	0.000	0.000	0.00	0.27	0.00	G	Cumple
N704/N705	60.88	0.650	-24.001	0.000	0.000	0.00	0.27	0.00	G	Cumple
N705/N706	61.65	0.650	-24.425	0.000	0.000	0.00	0.27	0.00	G	Cumple
N706/N707	61.65	0.650	-24.426	0.000	0.000	0.00	0.27	0.00	G	Cumple
N707/N708	60.89	0.650	-24.006	0.000	0.000	0.00	0.27	0.00	G	Cumple
N708/N709	59.26	0.650	-23.098	0.000	0.000	0.00	0.27	0.00	G	Cumple
N709/N710	56.66	0.650	-22.186	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N710/N711	52.95	0.650	-20.117	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N711/N712	47.87	0.650	-17.276	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N712/N713	41.29	0.650	-13.596	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N713/N714	33.38	0.650	-9.181	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N714/N715	25.14	0.650	-4.572	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N715/N716	19.16	0.650	-0.766	0.000	0.000	0.00	0.27	0.00	G	Cumple
N716/N717	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple
N718/N719	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple
N719/N720	20.44	0.650	2.167	0.000	0.000	0.00	0.27	0.00	G	Cumple
N720/N721	24.78	0.650	-4.371	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N721/N722	36.46	0.650	-10.900	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N722/N723	45.67	0.650	-16.045	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N723/N724	52.62	0.650	-19.933	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N724/N725	57.87	0.650	-22.865	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N725/N726	61.75	0.650	-25.031	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N726/N727	64.44	0.650	-26.534	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N727/N728	66.08	0.650	-26.897	0.000	0.000	0.00	0.27	0.00	G	Cumple
N728/N729	66.78	0.650	-27.284	0.000	0.000	0.00	0.27	0.00	G	Cumple
N729/N730	66.77	0.650	-27.279	0.000	0.000	0.00	0.27	0.00	G	Cumple
N730/N731	66.09	0.650	-26.901	0.000	0.000	0.00	0.27	0.00	G	Cumple
N731/N732	64.50	0.650	-26.571	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N732/N733	61.83	0.650	-25.080	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N733/N734	57.98	0.650	-22.925	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N734/N735	52.74	0.650	-20.000	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N735/N736	45.79	0.650	-16.117	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N736/N737	36.58	0.650	-10.969	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N737/N738	24.88	0.650	-4.428	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N738/N739	20.43	0.650	2.164	0.000	0.000	0.00	0.27	0.00	G	Cumple
N739/N740	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple
N741/N742	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N742/N743	22.28	0.650	3.672	0.000	0.000	0.00	0.27	0.00	G	Cumple
N743/N744	24.71	0.650	-4.332	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N744/N745	37.28	0.650	-11.361	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N745/N746	46.66	0.650	-16.598	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N746/N747	53.58	0.650	-20.467	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N747/N748	58.82	0.650	-22.851	0.000	0.000	0.00	0.27	0.00	G	Cumple
N748/N749	62.73	0.650	-25.031	0.000	0.000	0.00	0.27	0.00	G	Cumple
N749/N750	65.46	0.650	-26.551	0.000	0.000	0.00	0.27	0.00	G	Cumple
N750/N751	67.07	0.650	-27.447	0.000	0.000	0.00	0.27	0.00	G	Cumple
N751/N752	67.64	0.650	-27.762	0.000	0.000	0.00	0.27	0.00	G	Cumple
N752/N753	67.64	0.650	-27.765	0.000	0.000	0.00	0.27	0.00	G	Cumple
N753/N754	67.07	0.650	-27.447	0.000	0.000	0.00	0.27	0.00	G	Cumple
N754/N755	65.47	0.650	-26.553	0.000	0.000	0.00	0.27	0.00	G	Cumple
N755/N756	62.74	0.650	-25.035	0.000	0.000	0.00	0.27	0.00	G	Cumple
N756/N757	58.84	0.650	-23.409	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N757/N758	53.68	0.650	-20.525	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N758/N759	46.77	0.650	-16.659	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N759/N760	37.39	0.650	-11.418	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N760/N761	24.79	0.650	-4.380	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N761/N762	22.28	0.650	3.671	0.000	0.000	0.00	0.27	0.00	G	Cumple
N762/N763	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple
N764/N765	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple
N765/N766	19.40	0.650	1.324	0.000	0.000	0.00	0.27	0.00	G	Cumple
N766/N767	23.97	0.650	-3.445	0.000	0.000	0.00	0.27	0.00	G	Cumple
N767/N768	33.13	0.650	-8.548	0.000	0.000	0.00	0.27	0.00	G	Cumple
N768/N769	40.44	0.650	-13.121	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N769/N770	45.89	0.650	-16.171	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N770/N771	49.72	0.650	-18.312	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N771/N772	52.45	0.650	-19.307	0.000	0.000	0.00	0.27	0.00	G	Cumple
N772/N773	54.38	0.650	-20.382	0.000	0.000	0.00	0.27	0.00	G	Cumple
N773/N774	55.51	0.650	-21.010	0.000	0.000	0.00	0.27	0.00	G	Cumple
N774/N775	55.95	0.650	-21.252	0.000	0.000	0.00	0.27	0.00	G	Cumple
N775/N776	55.95	0.650	-21.252	0.000	0.000	0.00	0.27	0.00	G	Cumple
N776/N777	55.51	0.650	-21.011	0.000	0.000	0.00	0.27	0.00	G	Cumple
N777/N778	54.39	0.650	-20.384	0.000	0.000	0.00	0.27	0.00	G	Cumple
N778/N779	52.46	0.650	-19.309	0.000	0.000	0.00	0.27	0.00	G	Cumple
N779/N780	49.77	0.650	-18.337	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N780/N781	45.93	0.650	-16.194	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N781/N782	40.47	0.650	-13.141	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N782/N783	33.13	0.650	-8.549	0.000	0.000	0.00	0.27	0.00	G	Cumple
N783/N784	23.97	0.650	-3.445	0.000	0.000	0.00	0.27	0.00	G	Cumple
N784/N785	19.40	0.650	1.324	0.000	0.000	0.00	0.27	0.00	G	Cumple
N785/N786	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple
N787/N788	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple
N788/N789	18.80	0.650	-0.569	0.000	0.000	0.00	0.27	0.00	G	Cumple
N789/N790	22.66	0.650	-2.717	0.000	0.000	0.00	0.27	0.00	G	Cumple
N790/N791	27.64	0.650	-5.489	0.000	0.000	0.00	0.27	0.00	G	Cumple
N791/N792	32.19	0.650	-8.512	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N792/N793	36.01	0.650	-10.649	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N793/N794	38.53	0.650	-12.058	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N794/N795	40.13	0.650	-12.443	0.000	0.000	0.00	0.27	0.00	G	Cumple
N795/N796	41.32	0.650	-13.105	0.000	0.000	0.00	0.27	0.00	G	Cumple
N796/N797	41.90	0.650	-13.432	0.000	0.000	0.00	0.27	0.00	G	Cumple
N797/N798	42.11	0.650	-13.545	0.000	0.000	0.00	0.27	0.00	G	Cumple
N798/N799	42.11	0.650	-13.545	0.000	0.000	0.00	0.27	0.00	G	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N799/N800	41.91	0.650	-13.433	0.000	0.000	0.00	0.27	0.00	G	Cumple
N800/N801	41.32	0.650	-13.106	0.000	0.000	0.00	0.27	0.00	G	Cumple
N801/N802	40.13	0.650	-12.444	0.000	0.000	0.00	0.27	0.00	G	Cumple
N802/N803	38.56	0.650	-12.071	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N803/N804	36.03	0.650	-10.660	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N804/N805	32.20	0.650	-8.520	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N805/N806	27.64	0.650	-5.490	0.000	0.000	0.00	0.27	0.00	G	Cumple
N806/N807	22.66	0.650	-2.718	0.000	0.000	0.00	0.27	0.00	G	Cumple
N807/N808	18.80	0.650	-0.569	0.000	0.000	0.00	0.27	0.00	G	Cumple
N808/N809	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple
N810/N811	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple
N811/N812	18.58	0.650	-0.446	0.000	0.000	0.00	0.27	0.00	G	Cumple
N812/N813	21.05	0.650	-1.823	0.000	0.000	0.00	0.27	0.00	G	Cumple
N813/N814	24.05	0.650	-3.492	0.000	0.000	0.00	0.27	0.00	G	Cumple
N814/N815	26.66	0.650	-5.424	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N815/N816	29.11	0.650	-6.790	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N816/N817	30.83	0.650	-7.754	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N817/N818	31.95	0.650	-8.378	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N818/N819	32.85	0.650	-8.389	0.000	0.000	0.00	0.27	0.00	G	Cumple
N819/N820	32.81	0.650	-8.370	0.000	0.000	0.00	0.27	0.00	G	Cumple
N820/N821	32.61	0.650	-8.746	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N821/N822	32.63	0.650	-8.762	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N822/N823	32.81	0.650	-8.370	0.000	0.000	0.00	0.27	0.00	G	Cumple
N823/N824	32.85	0.650	-8.389	0.000	0.000	0.00	0.27	0.00	G	Cumple
N824/N825	31.92	0.650	-8.360	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N825/N826	30.80	0.650	-7.736	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N826/N827	29.12	0.650	-6.797	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N827/N828	26.67	0.650	-5.429	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N828/N829	24.05	0.650	-3.493	0.000	0.000	0.00	0.27	0.00	G	Cumple
N829/N830	21.06	0.650	-1.824	0.000	0.000	0.00	0.27	0.00	G	Cumple
N830/N831	18.58	0.650	-0.447	0.000	0.000	0.00	0.27	0.00	G	Cumple
N831/N832	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple
N833/N834	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple
N834/N835	19.14	0.650	-1.906	0.000	0.000	0.00	-0.23	0.01	GV	Cumple
N835/N836	19.72	0.650	-1.081	0.000	0.000	0.00	0.27	0.00	G	Cumple
N836/N837	22.16	0.650	-2.436	0.000	0.000	0.00	0.27	0.00	G	Cumple
N837/N838	22.83	0.650	-2.812	0.000	0.000	0.00	0.27	0.00	G	Cumple
N838/N839	23.56	0.650	-3.692	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N839/N840	25.35	0.650	-4.691	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N840/N841	26.43	0.650	-5.295	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N841/N842	27.49	0.650	-5.404	0.000	0.000	0.00	0.27	0.00	G	Cumple
N842/N843	26.42	0.650	-4.811	0.000	0.000	0.00	0.27	0.00	G	Cumple
N843/N844	24.98	0.650	-4.483	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N844/N845	25.01	0.650	-4.501	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N845/N846	26.42	0.650	-4.811	0.000	0.000	0.00	0.27	0.00	G	Cumple
N846/N847	27.49	0.650	-5.404	0.000	0.000	0.00	0.27	0.00	G	Cumple
N847/N848	26.39	0.650	-5.272	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N848/N849	25.31	0.650	-4.667	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N849/N850	23.53	0.650	-3.674	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N850/N851	22.83	0.650	-2.813	0.000	0.000	0.00	0.27	0.00	G	Cumple
N851/N852	22.16	0.650	-2.438	0.000	0.000	0.00	0.27	0.00	G	Cumple
N852/N853	19.73	0.650	-1.084	0.000	0.000	0.00	0.27	0.00	G	Cumple
N853/N854	18.63	0.650	1.316	0.000	0.000	0.00	0.25	0.00	GV	Cumple
N854/N855	18.34	0.650	0.456	0.000	0.000	0.00	0.27	0.00	G	Cumple
N50/N72	3.20	0.651	-1.689	0.000	0.000	0.00	0.01	0.00	GS	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N72/N95	4.57	0.651	-2.563	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N95/N118	15.64	0.651	-9.094	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N118/N141	8.50	0.651	-4.797	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N141/N164	5.01	0.651	-2.696	0.000	0.000	0.00	0.01	0.00	G	Cumple
N164/N187	3.79	0.651	2.658	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N187/N210	10.05	0.651	7.765	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N210/N233	11.89	0.651	9.261	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N233/N256	6.60	0.651	5.129	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N256/N279	9.97	0.651	-5.679	0.000	0.000	0.00	0.01	0.00	G	Cumple
N279/N302	9.45	0.651	-5.367	0.000	0.000	0.00	0.01	0.00	G	Cumple
N302/N325	7.21	0.651	5.626	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N325/N348	14.54	0.651	11.422	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N348/N371	15.58	0.651	12.276	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N371/N394	9.17	0.651	7.218	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N394/N417	9.91	0.651	-5.644	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N417/N440	9.89	0.651	-5.634	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N440/N463	9.58	0.651	7.553	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N463/N486	16.07	0.651	12.672	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N486/N509	18.68	0.651	14.799	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N509/N532	11.62	0.651	9.219	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N532/N555	11.12	0.651	8.810	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N555/N578	10.48	0.651	-5.986	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N578/N601	9.73	0.651	7.681	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N601/N624	15.05	0.651	11.841	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N624/N647	18.31	0.651	14.497	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N647/N670	10.92	0.651	8.647	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N670/N693	11.69	0.651	-6.716	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N693/N716	11.48	0.651	-6.588	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N716/N739	8.49	0.651	-4.789	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N739/N762	9.27	0.651	-5.395	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N762/N785	13.52	0.651	10.590	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N785/N808	10.38	0.651	8.211	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N808/N831	7.91	0.651	-4.441	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N831/N854	7.22	0.651	-4.025	0.000	0.000	0.00	0.01	0.00	G	Cumple
N854/N876	6.33	0.651	-3.489	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N49/N71	2.82	0.651	-1.461	0.000	0.000	0.00	0.01	0.00	GS	Cumple
N71/N94	5.16	0.651	-2.785	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N94/N117	13.78	0.651	-7.972	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N117/N140	8.05	0.651	-4.523	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N140/N163	6.04	0.651	-3.317	0.000	0.000	0.00	0.01	0.00	G	Cumple
N163/N186	4.30	0.651	-2.270	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N186/N209	7.35	0.651	5.559	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N209/N232	8.93	0.651	6.851	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N232/N255	8.63	0.651	-4.875	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N255/N278	12.90	0.651	-7.445	0.000	0.000	0.00	0.01	0.00	G	Cumple
N278/N301	12.25	0.651	-7.050	0.000	0.000	0.00	0.01	0.00	G	Cumple
N301/N324	5.78	0.651	-3.161	0.000	0.000	0.00	0.01	0.00	G	Cumple
N324/N347	12.70	0.651	9.922	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N347/N370	12.54	0.651	9.790	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N370/N393	7.06	0.651	5.504	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N393/N416	11.43	0.651	-6.560	0.000	0.000	0.00	0.01	0.00	G	Cumple
N416/N439	11.14	0.651	-6.383	0.000	0.000	0.00	0.01	0.00	G	Cumple
N439/N462	7.45	0.651	5.822	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N462/N485	14.63	0.651	11.497	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N485/N508	14.62	0.651	11.495	0.000	0.000	0.00	0.01	0.00	GV	Cumple

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 20/12/24

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N508/N531	7.70	0.651	6.027	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N531/N554	11.78	0.651	-6.767	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N554/N577	11.73	0.651	-6.739	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N577/N600	7.46	0.651	5.825	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N600/N623	13.13	0.651	10.277	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N623/N646	12.81	0.651	10.018	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N646/N669	8.20	0.651	-4.616	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N669/N692	13.84	0.651	-8.009	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N692/N715	14.00	0.651	-8.108	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N715/N738	9.07	0.651	-5.137	0.000	0.000	0.00	0.01	0.00	G	Cumple
N738/N761	6.80	0.651	5.112	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N761/N784	9.42	0.651	7.246	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N784/N807	8.74	0.651	6.875	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N807/N830	9.40	0.651	-5.340	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N830/N853	8.36	0.651	-4.710	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N853/N875	5.02	0.651	-2.698	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N48/N70	2.72	0.651	-1.404	0.000	0.000	0.00	0.01	0.00	GS	Cumple
N70/N93	3.98	0.651	-2.073	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N93/N116	10.28	0.651	-5.869	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N116/N139	7.35	0.651	-4.102	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N139/N162	6.16	0.651	-3.388	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N162/N185	5.51	0.651	-2.998	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N185/N208	4.61	0.651	-2.454	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N208/N231	5.19	0.651	-2.803	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N231/N254	9.96	0.651	-5.674	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N254/N277	12.89	0.651	-7.439	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N277/N300	11.97	0.651	-6.882	0.000	0.000	0.00	0.01	0.00	G	Cumple
N300/N323	6.49	0.651	-3.589	0.000	0.000	0.00	0.01	0.00	G	Cumple
N323/N346	7.87	0.651	5.986	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N346/N369	8.23	0.651	6.282	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N369/N392	5.87	0.651	4.531	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N392/N415	9.33	0.651	-5.298	0.000	0.000	0.00	0.01	0.00	G	Cumple
N415/N438	8.88	0.651	-5.023	0.000	0.000	0.00	0.01	0.00	G	Cumple
N438/N461	6.24	0.651	4.831	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N461/N484	10.30	0.651	7.967	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N484/N507	10.11	0.651	7.809	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N507/N530	6.38	0.651	4.950	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N530/N553	9.13	0.651	-5.177	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N553/N576	9.45	0.651	-5.366	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N576/N599	6.11	0.651	4.726	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N599/N622	8.37	0.651	6.395	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N622/N645	7.52	0.651	5.699	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N645/N668	7.60	0.651	-4.255	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N668/N691	12.74	0.651	-7.350	0.000	0.000	0.00	0.01	0.00	G	Cumple
N691/N714	13.83	0.651	-8.006	0.000	0.000	0.00	0.01	0.00	G	Cumple
N714/N737	10.38	0.651	-5.930	0.000	0.000	0.00	0.01	0.00	G	Cumple
N737/N760	5.69	0.651	-3.102	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N760/N783	5.95	0.651	4.594	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N783/N806	9.01	0.651	-5.100	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N806/N829	9.87	0.651	-5.621	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N829/N852	8.95	0.651	-5.066	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N852/N874	8.62	0.651	-4.868	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N47/N69	2.64	0.651	-1.355	0.000	0.000	0.00	0.01	0.00	GS	Cumple
N69/N92	2.98	0.651	1.994	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N92/N115	9.36	0.651	-5.452	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N115/N138	7.19	0.651	-4.007	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N138/N161	7.18	0.651	-4.001	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N161/N184	7.68	0.651	-4.303	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N184/N207	7.12	0.651	-3.964	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N207/N230	7.90	0.651	-4.434	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N230/N253	12.04	0.651	-6.926	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N253/N276	13.82	0.651	-7.996	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N276/N299	12.60	0.651	-7.264	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N299/N322	8.55	0.651	-4.824	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N322/N345	4.86	0.651	3.705	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N345/N368	5.37	0.651	4.124	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N368/N391	6.13	0.651	-3.369	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N391/N414	8.35	0.651	-4.708	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N414/N437	7.60	0.651	-4.252	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N437/N460	5.61	0.651	4.319	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N460/N483	7.71	0.651	5.852	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N483/N506	7.71	0.651	5.856	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N506/N529	5.71	0.651	4.398	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N529/N552	7.57	0.651	-4.235	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N552/N575	8.12	0.651	-4.568	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N575/N598	5.74	0.651	-3.133	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N598/N621	5.49	0.651	4.217	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N621/N644	4.91	0.651	3.747	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N644/N667	8.73	0.651	-4.935	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N667/N690	13.06	0.651	-7.538	0.000	0.000	0.00	0.01	0.00	G	Cumple
N690/N713	14.43	0.651	-8.363	0.000	0.000	0.00	0.01	0.00	G	Cumple
N713/N736	12.66	0.651	-7.297	0.000	0.000	0.00	0.01	0.00	G	Cumple
N736/N759	8.89	0.651	-5.032	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N759/N782	9.20	0.651	-5.218	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N782/N805	11.21	0.651	-6.426	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N805/N828	11.58	0.651	-6.652	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N828/N851	12.43	0.651	-7.161	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N851/N873	14.64	0.651	-8.488	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N46/N68	2.50	0.651	-1.271	0.000	0.000	0.00	0.01	0.00	GS	Cumple
N68/N91	4.24	0.651	3.022	0.000	0.000	0.00	0.01	0.00	G	Cumple
N91/N114	10.60	0.651	-6.196	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N114/N137	7.60	0.651	-4.254	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N137/N160	8.83	0.651	-4.994	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N160/N183	10.30	0.651	-5.880	0.000	0.000	0.00	0.01	0.00	G	Cumple
N183/N206	9.95	0.651	-5.671	0.000	0.000	0.00	0.01	0.00	G	Cumple
N206/N229	11.14	0.651	-6.384	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N229/N252	14.45	0.651	-8.376	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N252/N275	15.57	0.651	-9.051	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N275/N298	14.37	0.651	-8.331	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N298/N321	10.97	0.651	-6.280	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N321/N344	6.01	0.651	-3.295	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N344/N367	4.91	0.651	-2.638	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N367/N390	7.50	0.651	-4.192	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N390/N413	8.75	0.651	-4.946	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N413/N436	7.85	0.651	-4.403	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N436/N459	5.33	0.651	4.090	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N459/N482	6.62	0.651	4.969	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N482/N505	6.68	0.651	5.013	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N505/N528	5.42	0.651	4.163	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N528/N551	7.44	0.651	-4.158	0.000	0.000	0.00	0.01	0.00	GV	Cumple

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 20/12/24

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N551/N574	8.26	0.651	-4.652	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N574/N597	7.04	0.651	-3.914	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N597/N620	4.88	0.651	3.724	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N620/N643	4.90	0.651	-2.626	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N643/N666	10.58	0.651	-6.049	0.000	0.000	0.00	0.01	0.00	G	Cumple
N666/N689	14.55	0.651	-8.435	0.000	0.000	0.00	0.01	0.00	G	Cumple
N689/N712	16.17	0.651	-9.410	0.000	0.000	0.00	0.01	0.00	G	Cumple
N712/N735	15.39	0.651	-8.940	0.000	0.000	0.00	0.01	0.00	G	Cumple
N735/N758	12.64	0.651	-7.287	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N758/N781	12.68	0.651	-7.309	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N781/N804	14.06	0.651	-8.139	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N804/N827	14.15	0.651	-8.198	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N827/N850	16.83	0.651	-9.811	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N850/N872	22.58	0.651	-13.270	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N45/N67	2.37	0.651	-1.187	0.000	0.000	0.00	0.01	0.00	GS	Cumple
N67/N90	5.33	0.651	3.916	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N90/N113	12.04	0.651	-7.061	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N113/N136	8.30	0.651	-4.675	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N136/N159	10.77	0.651	-6.161	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N159/N182	12.49	0.651	-7.196	0.000	0.000	0.00	0.01	0.00	G	Cumple
N182/N205	12.49	0.651	-7.199	0.000	0.000	0.00	0.01	0.00	G	Cumple
N205/N228	13.36	0.651	-7.723	0.000	0.000	0.00	0.01	0.00	G	Cumple
N228/N251	16.62	0.651	-9.686	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N251/N274	17.58	0.651	-10.258	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N274/N297	16.35	0.651	-9.519	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N297/N320	12.98	0.651	-7.493	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N320/N343	7.65	0.651	-4.285	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N343/N366	6.37	0.651	-3.515	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N366/N389	8.87	0.651	-5.017	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N389/N412	9.78	0.651	-5.565	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N412/N435	8.71	0.651	-4.923	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N435/N458	5.93	0.651	4.580	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N458/N481	6.27	0.651	4.683	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N481/N504	6.33	0.651	4.727	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N504/N527	6.47	0.651	5.021	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N527/N550	8.77	0.651	-4.958	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N550/N573	9.88	0.651	-5.627	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N573/N596	8.95	0.651	-5.068	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N596/N619	6.45	0.651	-3.561	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N619/N642	7.02	0.651	-3.904	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N642/N665	12.49	0.651	-7.196	0.000	0.000	0.00	0.01	0.00	G	Cumple
N665/N688	16.55	0.651	-9.641	0.000	0.000	0.00	0.01	0.00	G	Cumple
N688/N711	18.40	0.651	-10.756	0.000	0.000	0.00	0.01	0.00	G	Cumple
N711/N734	18.01	0.651	-10.517	0.000	0.000	0.00	0.01	0.00	G	Cumple
N734/N757	15.42	0.651	-8.960	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N757/N780	15.45	0.651	-8.980	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N780/N803	16.57	0.651	-9.654	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N803/N826	16.63	0.651	-9.690	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N826/N849	19.72	0.651	-11.547	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N849/N871	27.24	0.651	-16.078	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N44/N66	2.30	0.651	-1.150	0.000	0.000	0.00	0.01	0.00	GS	Cumple
N66/N89	4.22	0.651	3.008	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N89/N112	11.46	0.651	-6.717	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N112/N135	9.21	0.651	-5.220	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N135/N158	11.93	0.651	-6.860	0.000	0.000	0.00	0.01	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N158/N181	13.72	0.651	-7.939	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N181/N204	13.99	0.651	-8.101	0.000	0.000	0.00	0.01	0.00	G	Cumple
N204/N227	15.08	0.651	-8.755	0.000	0.000	0.00	0.01	0.00	G	Cumple
N227/N250	18.57	0.651	-10.854	0.000	0.000	0.00	0.01	0.00	G	Cumple
N250/N273	19.36	0.651	-11.333	0.000	0.000	0.00	0.01	0.00	G	Cumple
N273/N296	18.08	0.651	-10.563	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N296/N319	14.52	0.651	-8.417	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N319/N342	8.66	0.651	-4.890	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N342/N365	7.31	0.651	-4.077	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N365/N388	10.03	0.651	-5.718	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N388/N411	10.92	0.651	-6.254	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N411/N434	9.70	0.651	-5.517	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N434/N457	6.64	0.651	5.160	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N457/N480	6.83	0.651	5.139	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N480/N503	6.98	0.651	5.263	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N503/N526	7.22	0.651	5.628	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N526/N549	10.17	0.651	-5.798	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N549/N572	11.40	0.651	-6.542	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N572/N595	10.56	0.651	-6.036	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N595/N618	7.96	0.651	-4.469	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N618/N641	8.49	0.651	-4.792	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N641/N664	14.10	0.651	-8.165	0.000	0.000	0.00	0.01	0.00	G	Cumple
N664/N687	18.50	0.651	-10.814	0.000	0.000	0.00	0.01	0.00	G	Cumple
N687/N710	20.54	0.651	-12.041	0.000	0.000	0.00	0.01	0.00	G	Cumple
N710/N733	20.27	0.651	-11.878	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N733/N756	17.51	0.651	-10.220	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N756/N779	17.41	0.651	-10.160	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N779/N802	18.31	0.651	-10.701	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N802/N825	18.05	0.651	-10.542	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N825/N848	20.58	0.651	-12.067	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N848/N870	24.60	0.651	-14.486	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N43/N65	2.27	0.651	-1.130	0.000	0.000	0.00	0.01	0.00	GS	Cumple
N65/N88	2.91	0.651	1.938	0.000	0.000	0.00	0.01	0.00	G	Cumple
N88/N111	9.88	0.651	-5.762	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N111/N134	9.68	0.651	-5.507	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N134/N157	12.83	0.651	-7.403	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N157/N180	14.77	0.651	-8.572	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N180/N203	14.97	0.651	-8.691	0.000	0.000	0.00	0.01	0.00	G	Cumple
N203/N226	16.30	0.651	-9.493	0.000	0.000	0.00	0.01	0.00	G	Cumple
N226/N249	20.11	0.651	-11.782	0.000	0.000	0.00	0.01	0.00	G	Cumple
N249/N272	21.02	0.651	-12.329	0.000	0.000	0.00	0.01	0.00	G	Cumple
N272/N295	19.48	0.651	-11.407	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N295/N318	15.66	0.651	-9.106	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N318/N341	9.31	0.651	-5.281	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N341/N364	7.92	0.651	-4.445	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N364/N387	10.95	0.651	-6.272	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N387/N410	11.95	0.651	-6.869	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N410/N433	10.59	0.651	-6.052	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N433/N456	7.16	0.651	5.583	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N456/N479	7.53	0.651	5.707	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N479/N502	7.66	0.651	5.813	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N502/N525	8.05	0.651	-4.522	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N525/N548	11.32	0.651	-6.494	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N548/N571	12.66	0.651	-7.301	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N571/N594	11.82	0.651	-6.796	0.000	0.000	0.00	0.01	0.00	GV	Cumple

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 20/12/24

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N594/N617	8.94	0.651	-5.061	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N617/N640	9.41	0.651	-5.346	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N640/N663	15.39	0.651	-8.944	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N663/N686	20.15	0.651	-11.807	0.000	0.000	0.00	0.01	0.00	G	Cumple
N686/N709	22.37	0.651	-13.145	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N709/N732	22.13	0.651	-12.999	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N732/N755	19.12	0.651	-11.186	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N755/N778	18.83	0.651	-11.013	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N778/N801	19.66	0.651	-11.511	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N801/N824	18.94	0.651	-11.077	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N824/N847	20.89	0.651	-12.255	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N847/N869	20.21	0.651	-11.841	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N42/N64	2.19	0.651	-1.080	0.000	0.000	0.00	0.01	0.00	GS	Cumple
N64/N87	2.97	0.651	1.986	0.000	0.000	0.00	0.01	0.00	G	Cumple
N87/N110	9.63	0.651	-5.615	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N110/N133	9.98	0.651	-5.686	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N133/N156	13.40	0.651	-7.747	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N156/N179	15.71	0.651	-9.132	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N179/N202	15.92	0.651	-9.262	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N202/N225	17.33	0.651	-10.110	0.000	0.000	0.00	0.01	0.00	G	Cumple
N225/N248	21.36	0.651	-12.538	0.000	0.000	0.00	0.01	0.00	G	Cumple
N248/N271	22.36	0.651	-13.138	0.000	0.000	0.00	0.01	0.00	G	Cumple
N271/N294	20.62	0.651	-12.090	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N294/N317	16.52	0.651	-9.626	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N317/N340	9.70	0.651	-5.520	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N340/N363	8.28	0.651	-4.664	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N363/N386	11.65	0.651	-6.692	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N386/N409	12.79	0.651	-7.376	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N409/N432	11.33	0.651	-6.499	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N432/N455	7.54	0.651	5.891	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N455/N478	8.03	0.651	6.115	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N478/N501	8.15	0.651	6.214	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N501/N524	8.78	0.651	-4.967	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N524/N547	12.28	0.651	-7.069	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N547/N570	13.66	0.651	-7.899	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N570/N593	12.75	0.651	-7.353	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N593/N616	9.60	0.651	-5.456	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N616/N639	10.02	0.651	-5.712	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N639/N662	16.38	0.651	-9.539	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N662/N685	21.47	0.651	-12.601	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N685/N708	23.86	0.651	-14.042	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N708/N731	23.54	0.651	-13.845	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N731/N754	20.29	0.651	-11.892	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N754/N777	19.93	0.651	-11.672	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N777/N800	20.63	0.651	-12.094	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N800/N823	20.15	0.651	-11.807	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N823/N846	21.72	0.651	-12.753	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N846/N868	20.37	0.651	-11.940	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N41/N63	2.08	0.651	-1.014	0.000	0.000	0.00	0.01	0.00	GS	Cumple
N63/N86	4.24	0.651	3.028	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N86/N109	10.81	0.651	-6.325	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N109/N132	10.18	0.651	-5.809	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N132/N155	13.97	0.651	-8.088	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N155/N178	16.60	0.651	-9.670	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N178/N201	16.76	0.651	-9.768	0.000	0.000	0.00	0.01	0.00	G	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N201/N224	18.09	0.651	-10.566	0.000	0.000	0.00	0.01	0.00	G	Cumple
N224/N247	22.30	0.651	-13.101	0.000	0.000	0.00	0.01	0.00	G	Cumple
N247/N270	23.33	0.651	-13.722	0.000	0.000	0.00	0.01	0.00	G	Cumple
N270/N293	21.46	0.651	-12.597	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N293/N316	17.14	0.651	-9.994	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N316/N339	9.83	0.651	-5.595	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N339/N362	8.38	0.651	-4.725	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N362/N385	12.15	0.651	-6.990	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N385/N408	13.42	0.651	-7.756	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N408/N431	11.90	0.651	-6.841	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N431/N454	7.95	0.651	-4.467	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N454/N477	8.41	0.651	6.423	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N477/N500	8.52	0.651	6.518	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N500/N523	9.32	0.651	-5.292	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N523/N546	13.00	0.651	-7.506	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N546/N569	14.39	0.651	-8.339	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N569/N592	13.41	0.651	-7.749	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N592/N615	9.98	0.651	-5.684	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N615/N638	10.38	0.651	-5.930	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N638/N661	17.03	0.651	-9.929	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N661/N684	22.39	0.651	-13.155	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N684/N707	24.87	0.651	-14.646	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N707/N730	24.44	0.651	-14.390	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N730/N753	20.95	0.651	-12.292	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N753/N776	20.65	0.651	-12.106	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N776/N799	21.30	0.651	-12.497	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N799/N822	20.37	0.651	-11.940	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N822/N845	23.30	0.651	-13.704	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N845/N867	25.33	0.651	-14.928	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N40/N62	2.12	0.651	-1.039	0.000	0.000	0.00	0.01	0.00	GS	Cumple
N62/N85	5.14	0.651	3.760	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N85/N108	12.12	0.651	-7.114	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N108/N131	10.25	0.651	-5.851	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N131/N154	14.33	0.651	-8.304	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N154/N177	17.13	0.651	-9.992	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N177/N200	17.13	0.651	-9.987	0.000	0.000	0.00	0.01	0.00	G	Cumple
N200/N223	18.37	0.651	-10.738	0.000	0.000	0.00	0.01	0.00	G	Cumple
N223/N246	22.67	0.651	-13.324	0.000	0.000	0.00	0.01	0.00	G	Cumple
N246/N269	23.71	0.651	-13.949	0.000	0.000	0.00	0.01	0.00	G	Cumple
N269/N292	21.79	0.651	-12.797	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N292/N315	17.38	0.651	-10.138	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N315/N338	9.81	0.651	-5.584	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N338/N361	8.36	0.651	-4.711	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N361/N384	12.34	0.651	-7.109	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N384/N407	13.67	0.651	-7.909	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N407/N430	12.13	0.651	-6.980	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N430/N453	8.27	0.651	-4.657	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N453/N476	8.61	0.651	6.585	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N476/N499	8.72	0.651	6.677	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N499/N522	9.65	0.651	-5.488	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N522/N545	13.40	0.651	-7.745	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N545/N568	14.77	0.651	-8.569	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N568/N591	13.77	0.651	-7.966	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N591/N614	10.16	0.651	-5.793	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N614/N637	10.57	0.651	-6.042	0.000	0.000	0.00	0.01	0.00	GV	Cumple

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 20/12/24

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N637/N660	17.27	0.651	-10.074	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N660/N683	22.73	0.651	-13.362	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N683/N706	25.24	0.651	-14.871	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N706/N729	24.78	0.651	-14.596	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N729/N752	21.13	0.651	-12.399	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N752/N775	20.89	0.651	-12.254	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N775/N798	21.58	0.651	-12.667	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N798/N821	20.69	0.651	-12.134	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N821/N844	24.01	0.651	-14.134	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N844/N866	28.77	0.651	-16.994	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N39/N61	1.15	0.651	0.502	0.000	0.000	0.00	0.01	0.00	G	Cumple
N61/N84	4.25	0.651	3.031	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N84/N107	11.60	0.651	-6.797	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N107/N130	10.18	0.651	-5.810	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N130/N153	13.97	0.651	-8.090	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N153/N176	16.86	0.651	-9.829	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N176/N199	16.92	0.651	-9.865	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N199/N222	18.09	0.651	-10.566	0.000	0.000	0.00	0.01	0.00	G	Cumple
N222/N245	22.30	0.651	-13.101	0.000	0.000	0.00	0.01	0.00	G	Cumple
N245/N268	23.33	0.651	-13.722	0.000	0.000	0.00	0.01	0.00	G	Cumple
N268/N291	21.45	0.651	-12.592	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N291/N314	17.13	0.651	-9.989	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N314/N337	9.81	0.651	-5.585	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N337/N360	8.37	0.651	-4.716	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N360/N383	12.14	0.651	-6.986	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N383/N406	13.41	0.651	-7.752	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N406/N429	11.89	0.651	-6.837	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N429/N452	8.34	0.651	-4.698	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N452/N475	8.61	0.651	6.587	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N475/N498	8.73	0.651	6.684	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N498/N521	9.70	0.651	-5.521	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N521/N544	13.37	0.651	-7.729	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N544/N567	14.72	0.651	-8.539	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N567/N590	13.75	0.651	-7.954	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N590/N613	10.26	0.651	-5.854	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N613/N636	10.65	0.651	-6.092	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N636/N659	17.02	0.651	-9.922	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N659/N682	22.38	0.651	-13.148	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N682/N705	24.86	0.651	-14.641	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N705/N728	24.45	0.651	-14.397	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N728/N751	20.94	0.651	-12.282	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N751/N774	20.63	0.651	-12.099	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N774/N797	21.28	0.651	-12.487	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N797/N820	20.21	0.651	-11.841	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N820/N843	22.91	0.651	-13.469	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N843/N865	25.27	0.651	-14.890	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N38/N60	2.02	0.651	-0.981	0.000	0.000	0.00	0.01	0.00	GS	Cumple
N60/N83	2.97	0.651	1.986	0.000	0.000	0.00	0.01	0.00	G	Cumple
N83/N106	10.03	0.651	-5.854	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N106/N129	9.98	0.651	-5.687	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N129/N152	13.41	0.651	-7.749	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N152/N175	15.99	0.651	-9.304	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N175/N198	16.25	0.651	-9.459	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N198/N221	17.33	0.651	-10.110	0.000	0.000	0.00	0.01	0.00	G	Cumple
N221/N244	21.36	0.651	-12.538	0.000	0.000	0.00	0.01	0.00	G	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N244/N267	22.36	0.651	-13.138	0.000	0.000	0.00	0.01	0.00	G	Cumple
N267/N290	20.60	0.651	-12.080	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N290/N313	16.51	0.651	-9.615	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N313/N336	9.67	0.651	-5.502	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N336/N359	8.25	0.651	-4.646	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N359/N382	11.63	0.651	-6.682	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N382/N405	12.77	0.651	-7.367	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N405/N428	11.37	0.651	-6.525	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N428/N451	8.24	0.651	-4.640	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N451/N474	8.52	0.651	6.519	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N474/N497	8.65	0.651	6.622	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N497/N520	9.59	0.651	-5.452	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N520/N543	13.05	0.651	-7.531	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N543/N566	14.33	0.651	-8.305	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N566/N589	13.45	0.651	-7.776	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N589/N612	10.26	0.651	-5.857	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N612/N635	10.66	0.651	-6.096	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N635/N658	16.36	0.651	-9.526	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N658/N681	21.45	0.651	-12.591	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N681/N704	23.85	0.651	-14.035	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N704/N727	23.52	0.651	-13.838	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N727/N750	20.28	0.651	-11.884	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N750/N773	19.91	0.651	-11.662	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N773/N796	20.62	0.651	-12.089	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N796/N819	20.27	0.651	-11.878	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N819/N842	21.67	0.651	-12.723	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N842/N864	20.39	0.651	-11.950	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N37/N59	1.15	0.651	0.502	0.000	0.000	0.00	0.01	0.00	G	Cumple
N59/N82	2.91	0.651	1.938	0.000	0.000	0.00	0.01	0.00	G	Cumple
N82/N105	9.52	0.651	-5.548	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N105/N128	9.68	0.651	-5.508	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N128/N151	12.83	0.651	-7.405	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N151/N174	15.03	0.651	-8.728	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N174/N197	15.25	0.651	-8.859	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N197/N220	16.30	0.651	-9.493	0.000	0.000	0.00	0.01	0.00	G	Cumple
N220/N243	20.11	0.651	-11.783	0.000	0.000	0.00	0.01	0.00	G	Cumple
N243/N266	21.02	0.651	-12.329	0.000	0.000	0.00	0.01	0.00	G	Cumple
N266/N289	19.46	0.651	-11.390	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N289/N312	15.63	0.651	-9.088	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N312/N335	9.25	0.651	-5.250	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N335/N358	7.87	0.651	-4.415	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N358/N381	10.93	0.651	-6.255	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N381/N404	11.92	0.651	-6.854	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N404/N427	10.82	0.651	-6.193	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N427/N450	8.09	0.651	-4.550	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N450/N473	8.42	0.651	6.430	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N473/N496	8.55	0.651	6.542	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N496/N519	9.43	0.651	-5.356	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N519/N542	12.60	0.651	-7.264	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N542/N565	13.79	0.651	-7.982	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N565/N588	13.03	0.651	-7.519	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N588/N611	10.11	0.651	-5.766	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N611/N634	10.56	0.651	-6.033	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N634/N657	15.51	0.651	-9.013	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N657/N680	20.15	0.651	-11.805	0.000	0.000	0.00	0.01	0.00	G	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N680/N703	22.35	0.651	-13.131	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N703/N726	22.11	0.651	-12.985	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N726/N749	19.10	0.651	-11.175	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N749/N772	18.81	0.651	-11.001	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N772/N795	19.65	0.651	-11.508	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N795/N818	19.60	0.651	-11.477	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N818/N841	21.34	0.651	-12.524	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N841/N863	20.25	0.651	-11.870	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N36/N58	1.15	0.651	0.502	0.000	0.000	0.00	0.01	0.00	G	Cumple
N58/N81	4.22	0.651	3.005	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N81/N104	10.22	0.651	-5.966	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N104/N127	9.21	0.651	-5.222	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N127/N150	11.93	0.651	-6.862	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N150/N173	14.13	0.651	-8.183	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N173/N196	14.08	0.651	-8.155	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N196/N219	15.08	0.651	-8.755	0.000	0.000	0.00	0.01	0.00	G	Cumple
N219/N242	18.57	0.651	-10.855	0.000	0.000	0.00	0.01	0.00	G	Cumple
N242/N265	19.36	0.651	-11.334	0.000	0.000	0.00	0.01	0.00	G	Cumple
N265/N288	18.04	0.651	-10.537	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N288/N311	14.47	0.651	-8.389	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N311/N334	8.57	0.651	-4.840	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N334/N357	7.23	0.651	-4.029	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N357/N380	9.99	0.651	-5.692	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N380/N403	10.97	0.651	-6.284	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N403/N426	10.21	0.651	-5.825	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N426/N449	7.94	0.651	-4.461	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N449/N472	8.30	0.651	6.332	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N472/N495	8.46	0.651	6.463	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N495/N518	9.26	0.651	-5.255	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N518/N541	12.12	0.651	-6.973	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N541/N564	13.19	0.651	-7.617	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N564/N587	12.50	0.651	-7.203	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N587/N610	9.86	0.651	-5.611	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N610/N633	10.38	0.651	-5.925	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N633/N656	14.74	0.651	-8.552	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N656/N679	18.49	0.651	-10.811	0.000	0.000	0.00	0.01	0.00	G	Cumple
N679/N702	20.54	0.651	-12.040	0.000	0.000	0.00	0.01	0.00	G	Cumple
N702/N725	20.23	0.651	-11.857	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N725/N748	17.48	0.651	-10.203	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N748/N771	17.39	0.651	-10.144	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N771/N794	18.31	0.651	-10.700	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N794/N817	18.04	0.651	-10.537	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N817/N840	21.72	0.651	-12.751	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N840/N862	24.82	0.651	-14.620	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N35/N57	1.15	0.651	0.502	0.000	0.000	0.00	0.01	0.00	G	Cumple
N57/N80	5.33	0.651	3.917	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N80/N103	11.00	0.651	-6.438	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N103/N126	8.31	0.651	-4.679	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N126/N149	10.80	0.651	-6.179	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N149/N172	12.98	0.651	-7.491	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N172/N195	12.61	0.651	-7.270	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N195/N218	13.36	0.651	-7.723	0.000	0.000	0.00	0.01	0.00	G	Cumple
N218/N241	16.60	0.651	-9.671	0.000	0.000	0.00	0.01	0.00	G	Cumple
N241/N264	17.52	0.651	-10.222	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N264/N287	16.28	0.651	-9.481	0.000	0.000	0.00	0.01	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N287/N310	12.91	0.651	-7.451	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N310/N333	7.52	0.651	-4.209	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N333/N356	6.34	0.651	4.916	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N356/N379	8.97	0.651	-5.077	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N379/N402	10.34	0.651	-5.903	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N402/N425	9.83	0.651	-5.596	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N425/N448	7.92	0.651	-4.445	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N448/N471	8.19	0.651	6.243	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N471/N494	8.38	0.651	6.399	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N494/N517	9.12	0.651	-5.172	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N517/N540	11.70	0.651	-6.721	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N540/N563	12.62	0.651	-7.273	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N563/N586	11.89	0.651	-6.838	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N586/N609	9.43	0.651	-5.357	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N609/N632	10.03	0.651	-5.715	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N632/N655	13.73	0.651	-7.941	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N655/N678	16.54	0.651	-9.638	0.000	0.000	0.00	0.01	0.00	G	Cumple
N678/N701	18.40	0.651	-10.755	0.000	0.000	0.00	0.01	0.00	G	Cumple
N701/N724	18.01	0.651	-10.518	0.000	0.000	0.00	0.01	0.00	G	Cumple
N724/N747	15.37	0.651	-8.932	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N747/N770	15.41	0.651	-8.953	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N770/N793	16.54	0.651	-9.634	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N793/N816	16.63	0.651	-9.691	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N816/N839	20.83	0.651	-12.215	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N839/N861	27.52	0.651	-16.243	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N34/N56	1.15	0.651	0.502	0.000	0.000	0.00	0.01	0.00	G	Cumple
N56/N79	4.61	0.651	3.324	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N79/N102	9.94	0.651	-5.796	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N102/N125	7.36	0.651	-4.110	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N125/N148	9.44	0.651	-5.364	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N148/N171	11.18	0.651	-6.406	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N171/N194	10.57	0.651	-6.043	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N194/N217	11.07	0.651	-6.343	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N217/N240	14.41	0.651	-8.351	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N240/N263	15.63	0.651	-9.086	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N263/N286	14.56	0.651	-8.445	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N286/N309	11.25	0.651	-6.453	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N309/N332	6.68	0.651	-3.699	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N332/N355	6.43	0.651	4.984	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N355/N378	8.79	0.651	-4.971	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N378/N401	10.40	0.651	-5.941	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N401/N424	10.23	0.651	-5.836	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N424/N447	8.24	0.651	-4.638	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N447/N470	8.22	0.651	6.274	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N470/N493	8.40	0.651	6.420	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N493/N516	9.10	0.651	-5.157	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N516/N539	11.63	0.651	-6.677	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N539/N562	12.39	0.651	-7.134	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N562/N585	11.33	0.651	-6.502	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N585/N608	8.70	0.651	-4.916	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N608/N631	9.27	0.651	-5.257	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N631/N654	12.43	0.651	-7.159	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N654/N677	15.19	0.651	-8.820	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N677/N700	16.17	0.651	-9.410	0.000	0.000	0.00	0.01	0.00	G	Cumple
N700/N723	15.39	0.651	-8.942	0.000	0.000	0.00	0.01	0.00	G	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N723/N746	12.57	0.651	-7.243	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N746/N769	12.60	0.651	-7.265	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N769/N792	14.00	0.651	-8.105	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N792/N815	14.16	0.651	-8.204	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N815/N838	17.60	0.651	-10.270	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N838/N860	22.91	0.651	-13.469	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N33/N55	1.34	0.651	-0.568	0.000	0.000	0.00	0.01	0.00	GS	Cumple
N55/N78	3.01	0.651	2.019	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N78/N101	7.62	0.651	-4.401	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N101/N124	6.53	0.651	-3.612	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N124/N147	8.25	0.651	-4.648	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N147/N170	9.41	0.651	-5.341	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N170/N193	8.56	0.651	-4.830	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N193/N216	8.10	0.651	-4.558	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N216/N239	12.47	0.651	-7.186	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N239/N262	14.75	0.651	-8.558	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N262/N285	14.07	0.651	-8.148	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N285/N308	10.93	0.651	-6.261	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N308/N331	7.27	0.651	-4.053	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N331/N354	6.75	0.651	5.249	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N354/N377	9.29	0.651	-5.270	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N377/N400	11.85	0.651	-6.814	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N400/N423	11.90	0.651	-6.844	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N423/N446	9.33	0.651	-5.295	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N446/N469	8.78	0.651	6.730	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N469/N492	8.75	0.651	6.702	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N492/N515	9.42	0.651	-5.349	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N515/N538	12.51	0.651	-7.206	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N538/N561	13.14	0.651	-7.589	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N561/N584	11.21	0.651	-6.425	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N584/N607	7.96	0.651	-4.469	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N607/N630	7.70	0.651	-4.315	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N630/N653	11.54	0.651	-6.627	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N653/N676	14.51	0.651	-8.411	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N676/N699	15.10	0.651	-8.768	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N699/N722	12.66	0.651	-7.300	0.000	0.000	0.00	0.01	0.00	G	Cumple
N722/N745	8.78	0.651	-4.966	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N745/N768	9.10	0.651	-5.156	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N768/N791	11.13	0.651	-6.381	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N791/N814	11.60	0.651	-6.660	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N814/N837	13.32	0.651	-7.699	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N837/N859	15.15	0.651	-8.797	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N32/N54	1.15	0.651	0.502	0.000	0.000	0.00	0.01	0.00	G	Cumple
N54/N77	3.66	0.651	-1.885	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N77/N100	7.17	0.651	-3.996	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N100/N123	6.11	0.651	-3.354	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N123/N146	7.93	0.651	-4.452	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N146/N169	9.14	0.651	-5.184	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N169/N192	7.42	0.651	-4.145	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N192/N215	5.26	0.651	-2.843	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N215/N238	11.39	0.651	-6.537	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N238/N261	15.46	0.651	-8.985	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N261/N284	15.89	0.651	-9.242	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N284/N307	12.50	0.651	-7.201	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N307/N330	9.30	0.651	-5.275	0.000	0.000	0.00	0.01	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N330/N353	8.31	0.651	6.341	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N353/N376	10.92	0.651	-6.252	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N376/N399	15.30	0.651	-8.891	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N399/N422	15.68	0.651	-9.118	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N422/N445	11.96	0.651	-6.880	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N445/N468	10.54	0.651	8.162	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N468/N491	10.02	0.651	7.738	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N491/N514	10.69	0.651	-6.116	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N514/N537	15.16	0.651	-8.804	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N537/N560	15.72	0.651	-9.141	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N560/N583	12.30	0.651	-7.082	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N583/N606	9.09	0.651	6.977	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N606/N629	7.82	0.651	5.940	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N629/N652	10.94	0.651	-6.267	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N652/N675	14.99	0.651	-8.703	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N675/N698	15.81	0.651	-9.198	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N698/N721	12.31	0.651	-7.091	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N721/N744	5.87	0.651	-3.214	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N744/N767	5.69	0.651	-3.106	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N767/N790	8.90	0.651	-5.039	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N790/N813	9.88	0.651	-5.625	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N813/N836	9.15	0.651	-5.188	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N836/N858	8.79	0.651	-4.970	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N31/N53	1.60	0.651	-0.725	0.000	0.000	0.00	0.01	0.00	GS	Cumple
N53/N76	5.19	0.651	-2.803	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N76/N99	8.70	0.651	-4.919	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N99/N122	6.23	0.651	-3.427	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N122/N145	8.87	0.651	-5.021	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N145/N168	10.57	0.651	-6.042	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N168/N191	10.84	0.651	-6.342	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N191/N214	7.06	0.651	5.327	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N214/N237	12.71	0.651	-7.328	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N237/N260	18.83	0.651	-11.015	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N260/N283	20.17	0.651	-11.822	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N283/N306	16.56	0.651	-9.646	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N306/N329	13.66	0.651	-8.041	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N329/N352	12.43	0.651	9.706	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N352/N375	14.45	0.651	-8.377	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N375/N398	20.62	0.651	-12.092	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N398/N421	21.54	0.651	-12.644	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N421/N444	17.17	0.651	-10.013	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N444/N467	14.50	0.651	11.395	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N467/N490	13.76	0.651	10.789	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N490/N513	13.73	0.651	-7.943	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N513/N536	19.56	0.651	-11.453	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N536/N559	20.22	0.651	-11.847	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N559/N582	15.71	0.651	-9.137	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N582/N605	13.04	0.651	10.199	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N605/N628	11.71	0.651	9.118	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N628/N651	11.17	0.651	-6.402	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N651/N674	16.72	0.651	-9.745	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N674/N697	17.86	0.651	-10.428	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N697/N720	14.85	0.651	-8.617	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N720/N743	9.41	0.651	-5.480	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N743/N766	5.45	0.651	4.011	0.000	0.000	0.00	0.01	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N766/N789	7.58	0.651	-4.245	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N789/N812	9.30	0.651	-5.280	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N812/N835	8.37	0.651	-4.716	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N835/N857	5.46	0.651	-2.967	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N30/N52	1.15	0.651	0.502	0.000	0.000	0.00	0.01	0.00	G	Cumple
N52/N75	4.59	0.651	-2.578	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N75/N98	11.09	0.651	-6.354	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N98/N121	5.89	0.651	-3.226	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N121/N144	8.90	0.651	-5.039	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N144/N167	11.59	0.651	-6.654	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N167/N190	15.42	0.651	-9.102	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N190/N213	8.61	0.651	6.589	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N213/N236	12.98	0.651	-7.495	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N236/N259	19.87	0.651	-11.636	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N259/N282	22.15	0.651	-13.009	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N282/N305	19.78	0.651	-11.584	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N305/N328	19.48	0.651	-11.544	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N328/N351	13.90	0.651	10.906	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N351/N374	17.50	0.651	-10.211	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N374/N397	23.88	0.651	-14.050	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N397/N420	25.32	0.651	-14.917	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N420/N443	21.91	0.651	-12.869	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N443/N466	20.63	0.651	-12.237	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N466/N489	14.99	0.651	11.796	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N489/N512	16.79	0.651	-9.786	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N512/N535	22.49	0.651	-13.219	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N535/N558	23.27	0.651	-13.683	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N558/N581	19.30	0.651	-11.297	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N581/N604	17.16	0.651	-10.151	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N604/N627	13.64	0.651	10.690	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N627/N650	12.49	0.651	-7.199	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N650/N673	18.53	0.651	-10.832	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N673/N696	20.34	0.651	-11.920	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N696/N719	18.52	0.651	-10.827	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N719/N742	15.34	0.651	-9.052	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N742/N765	8.88	0.651	6.809	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N765/N788	5.83	0.651	-3.188	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N788/N811	7.71	0.651	-4.322	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N811/N834	7.22	0.651	-4.025	0.000	0.000	0.00	0.01	0.00	G	Cumple
N834/N856	9.18	0.651	-5.203	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N877/N878	4.10	0.650	2.910	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N878/N879	6.02	0.650	4.477	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N879/N880	5.35	0.650	3.928	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N880/N881	3.78	0.650	-1.956	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N881/N882	6.41	0.650	-3.540	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N882/N883	8.34	0.650	-4.705	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N883/N884	7.63	0.650	-4.274	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N884/N885	7.07	0.650	-3.936	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N885/N886	8.00	0.650	-4.497	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N886/N887	8.21	0.650	-4.625	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N887/N888	8.50	0.650	-4.798	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N888/N889	8.20	0.650	-4.620	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N889/N890	7.95	0.650	-4.466	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N890/N891	6.95	0.650	-3.868	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N891/N892	7.67	0.650	-4.298	0.000	0.000	0.00	0.01	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N892/N893	8.39	0.650	-4.733	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N893/N894	6.66	0.650	-3.689	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N894/N895	5.46	0.650	-2.971	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N895/N896	6.05	0.650	-3.456	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N896/N897	5.69	0.650	-3.239	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N897/N898	3.74	0.650	-1.934	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N899/N900	3.32	0.650	-1.680	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N900/N901	3.09	0.650	2.088	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N901/N902	3.66	0.650	2.549	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N902/N903	3.00	0.650	2.012	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N903/N904	1.87	0.650	-0.807	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N904/N905	3.29	0.650	-1.663	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N905/N906	2.94	0.650	-1.452	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N906/N907	3.28	0.650	2.244	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N907/N908	2.71	0.650	1.778	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N908/N909	2.57	0.650	-1.231	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N909/N910	3.32	0.650	-1.680	0.000	0.000	0.00	0.01	0.00	G	Cumple
N910/N911	2.60	0.650	-1.244	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N911/N912	2.57	0.650	1.664	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N912/N913	2.08	0.650	-0.933	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N913/N914	2.48	0.650	-1.172	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N914/N915	3.31	0.650	-1.675	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N915/N916	1.63	0.650	-0.659	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N916/N917	2.05	0.650	1.236	0.000	0.000	0.00	0.01	0.00	G	Cumple
N917/N918	2.73	0.650	1.794	0.000	0.000	0.00	0.01	0.00	G	Cumple
N918/N919	3.87	0.650	-2.143	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N919/N920	5.14	0.650	-2.778	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N921/N922	6.89	0.650	-3.965	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N922/N923	4.21	0.650	-2.218	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N923/N924	4.16	0.650	-2.188	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N924/N925	4.03	0.650	-2.107	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N925/N926	3.28	0.650	-1.653	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N926/N927	3.66	0.650	-1.887	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N927/N928	1.64	0.650	-0.667	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N928/N929	1.71	0.650	0.962	0.000	0.000	0.00	0.01	0.00	G	Cumple
N929/N930	1.54	0.650	0.824	0.000	0.000	0.00	0.01	0.00	G	Cumple
N930/N931	2.79	0.650	-1.361	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N931/N932	3.56	0.650	-1.822	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N932/N933	1.81	0.650	-0.769	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N933/N934	1.54	0.650	0.824	0.000	0.000	0.00	0.01	0.00	G	Cumple
N934/N935	1.71	0.650	0.962	0.000	0.000	0.00	0.01	0.00	G	Cumple
N935/N936	1.79	0.650	-0.760	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N936/N937	2.56	0.650	-1.222	0.000	0.000	0.00	0.01	0.00	G	Cumple
N937/N938	3.25	0.650	-1.635	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N938/N939	4.02	0.650	-2.104	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N939/N940	4.89	0.650	-2.628	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N940/N941	5.75	0.650	-3.140	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N941/N942	10.91	0.650	8.463	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N943/N944	1.47	0.650	-0.563	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N944/N945	2.35	0.650	-1.097	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N945/N946	3.17	0.650	-1.589	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N946/N947	2.88	0.650	-1.547	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N947/N948	2.79	0.650	1.842	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N948/N949	2.73	0.650	1.791	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N949/N950	3.33	0.650	2.284	0.000	0.000	0.00	0.01	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N950/N951	3.99	0.650	2.821	0.000	0.000	0.00	0.01	0.00	G	Cumple
N951/N952	3.83	0.650	2.688	0.000	0.000	0.00	0.01	0.00	G	Cumple
N952/N953	2.85	0.650	1.890	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N953/N954	2.24	0.650	1.392	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N954/N955	2.85	0.650	1.891	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N955/N956	3.83	0.650	2.688	0.000	0.000	0.00	0.01	0.00	G	Cumple
N956/N957	3.99	0.650	2.821	0.000	0.000	0.00	0.01	0.00	G	Cumple
N957/N958	3.33	0.650	2.283	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N958/N959	2.73	0.650	1.790	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N959/N960	3.26	0.650	2.227	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N960/N961	3.40	0.650	2.342	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N961/N962	3.20	0.650	-1.609	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N962/N963	2.36	0.650	-1.101	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N963/N964	1.47	0.650	-0.565	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N965/N966	1.95	0.650	-0.852	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N966/N967	2.93	0.650	-1.444	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N967/N968	3.09	0.650	-1.543	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N968/N969	2.56	0.650	1.653	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N969/N970	3.55	0.650	2.458	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N970/N971	4.15	0.650	2.948	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N971/N972	4.57	0.650	3.292	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N972/N973	4.81	0.650	3.494	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N973/N974	4.72	0.650	3.413	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N974/N975	4.40	0.650	3.155	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N975/N976	4.19	0.650	2.983	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N976/N977	4.40	0.650	3.152	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N977/N978	4.71	0.650	3.410	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N978/N979	4.82	0.650	3.494	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N979/N980	4.56	0.650	3.288	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N980/N981	4.14	0.650	2.944	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N981/N982	3.54	0.650	2.454	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N982/N983	2.55	0.650	1.649	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N983/N984	3.10	0.650	-1.547	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N984/N985	2.94	0.650	-1.448	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N985/N986	1.95	0.650	-0.855	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N987/N988	3.07	0.650	-1.528	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N988/N989	4.44	0.650	-2.352	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N989/N990	3.57	0.650	-1.830	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N990/N991	2.50	0.650	-1.315	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N991/N992	3.26	0.650	2.225	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N992/N993	3.78	0.650	2.648	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N993/N994	3.94	0.650	2.782	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N994/N995	3.89	0.650	2.743	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N995/N996	3.68	0.650	2.569	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N996/N997	3.43	0.650	2.368	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N997/N998	3.33	0.650	2.283	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N998/N999	3.42	0.650	2.360	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N999/N1000	3.63	0.650	2.527	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1000/N1001	3.82	0.650	2.681	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1001/N1002	3.90	0.650	2.748	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1002/N1003	3.77	0.650	2.639	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1003/N1004	3.25	0.650	2.216	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1004/N1005	2.51	0.650	-1.321	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1005/N1006	3.58	0.650	-1.838	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1006/N1007	4.45	0.650	-2.360	0.000	0.000	0.00	0.01	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1007/N1008	3.13	0.650	-1.563	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1009/N1010	7.47	0.650	5.660	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1010/N1011	3.96	0.650	-2.066	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1011/N1012	3.02	0.650	-1.502	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1012/N1013	2.99	0.650	-1.478	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1013/N1014	2.45	0.650	-1.154	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1014/N1015	2.15	0.650	-0.977	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1015/N1016	2.86	0.650	-1.400	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1016/N1017	3.52	0.650	-1.803	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1017/N1018	4.09	0.650	-2.143	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1018/N1019	4.54	0.650	-2.416	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1019/N1020	4.73	0.650	-2.529	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1020/N1021	4.54	0.650	-2.416	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1021/N1022	4.09	0.650	-2.143	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1022/N1023	3.52	0.650	-1.803	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1023/N1024	2.86	0.650	-1.400	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1024/N1025	2.16	0.650	-0.980	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1025/N1026	2.43	0.650	-1.145	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1026/N1027	3.25	0.650	-1.635	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1027/N1028	5.62	0.650	-3.068	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1028/N1029	8.35	0.650	-4.706	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1029/N1030	11.02	0.650	-6.454	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1031/N1032	7.02	0.650	5.288	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1032/N1033	7.19	0.650	-4.013	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1033/N1034	6.98	0.650	-3.884	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1034/N1035	6.03	0.650	-3.311	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1035/N1036	4.74	0.650	-2.536	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1036/N1037	4.11	0.650	-2.153	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1037/N1038	4.51	0.650	-2.399	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1038/N1039	4.80	0.650	-2.573	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1039/N1040	5.03	0.650	-2.712	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1040/N1041	5.23	0.650	-2.827	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1041/N1042	5.20	0.650	-2.812	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1042/N1043	4.86	0.650	-2.610	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1043/N1044	4.31	0.650	-2.275	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1044/N1045	3.64	0.650	-1.872	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1045/N1046	3.25	0.650	-1.638	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1046/N1047	3.60	0.650	-1.846	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1047/N1048	4.69	0.650	-2.502	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1048/N1049	5.97	0.650	-3.277	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1049/N1050	6.93	0.650	-3.852	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1050/N1051	7.16	0.650	-3.992	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1051/N1052	9.75	0.650	7.521	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1053/N1054	4.04	0.650	-2.113	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1054/N1055	6.17	0.650	-3.399	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1055/N1056	5.27	0.650	-2.854	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1056/N1057	4.02	0.650	-2.235	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1057/N1058	5.64	0.650	4.165	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1058/N1059	7.08	0.650	5.341	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1059/N1060	7.95	0.650	6.052	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1060/N1061	8.41	0.650	6.423	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1061/N1062	8.58	0.650	6.562	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1062/N1063	8.59	0.650	6.575	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1063/N1064	8.59	0.650	6.571	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1064/N1065	8.59	0.650	6.575	0.000	0.000	0.00	0.01	0.00	G	Cumple

Listados
Coberta de 46'8x28'6 malla tetràedres
Fecha: 20/12/24

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1065/N1066	8.57	0.650	6.555	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1066/N1067	8.40	0.650	6.416	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1067/N1068	7.94	0.650	6.045	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1068/N1069	7.20	0.650	5.439	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1069/N1070	5.99	0.650	4.449	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1070/N1071	4.14	0.650	-2.304	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1071/N1072	5.26	0.650	-2.848	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1072/N1073	6.17	0.650	-3.394	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1073/N1074	4.03	0.650	-2.108	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1075/N1076	2.92	0.650	-1.437	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1076/N1077	4.24	0.650	-2.235	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1077/N1078	4.08	0.650	-2.137	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1078/N1079	4.94	0.650	3.594	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1079/N1080	7.68	0.650	5.833	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1080/N1081	9.99	0.650	7.716	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1081/N1082	11.59	0.650	9.021	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1082/N1083	12.59	0.650	9.835	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1083/N1084	13.15	0.650	10.294	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1084/N1085	13.42	0.650	10.516	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1085/N1086	13.50	0.650	10.581	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1086/N1087	13.42	0.650	10.516	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1087/N1088	13.15	0.650	10.294	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1088/N1089	12.59	0.650	9.835	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1089/N1090	11.59	0.650	9.021	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1090/N1091	10.06	0.650	7.768	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1091/N1092	7.89	0.650	6.000	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1092/N1093	5.11	0.650	3.732	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1093/N1094	4.08	0.650	-2.136	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1094/N1095	4.24	0.650	-2.232	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1095/N1096	2.91	0.650	-1.433	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1097/N1098	3.11	0.650	-1.554	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1098/N1099	4.42	0.650	-2.343	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1099/N1100	4.03	0.650	-2.110	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1100/N1101	5.11	0.650	3.736	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1101/N1102	7.97	0.650	6.071	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1102/N1103	10.25	0.650	7.924	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1103/N1104	11.91	0.650	9.284	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1104/N1105	12.95	0.650	10.130	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1105/N1106	13.53	0.650	10.598	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1106/N1107	13.79	0.650	10.814	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1107/N1108	13.86	0.650	10.874	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1108/N1109	13.79	0.650	10.814	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1109/N1110	13.52	0.650	10.598	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1110/N1111	12.95	0.650	10.130	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1111/N1112	11.91	0.650	9.283	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1112/N1113	10.25	0.650	7.924	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1113/N1114	8.00	0.650	6.091	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1114/N1115	5.13	0.650	3.755	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1115/N1116	4.03	0.650	-2.108	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1116/N1117	4.41	0.650	-2.339	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1117/N1118	3.10	0.650	-1.550	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1119/N1120	4.87	0.650	-2.612	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1120/N1121	6.72	0.650	-3.726	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1121/N1122	5.16	0.650	-2.790	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1122/N1123	3.96	0.650	2.793	0.000	0.000	0.00	0.01	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1123/N1124	6.16	0.650	4.588	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1124/N1125	7.57	0.650	5.739	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1125/N1126	8.41	0.650	6.429	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1126/N1127	8.93	0.650	6.854	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1127/N1128	9.13	0.650	7.013	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1128/N1129	9.12	0.650	7.006	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1129/N1130	9.09	0.650	6.984	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1130/N1131	9.14	0.650	7.023	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1131/N1132	9.14	0.650	7.023	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1132/N1133	8.93	0.650	6.854	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1133/N1134	8.41	0.650	6.429	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1134/N1135	7.59	0.650	5.757	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1135/N1136	6.18	0.650	4.611	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1136/N1137	4.01	0.650	2.837	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1137/N1138	5.16	0.650	-2.787	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1138/N1139	6.71	0.650	-3.722	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1139/N1140	4.86	0.650	-2.609	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1141/N1142	7.88	0.650	5.997	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1142/N1143	5.05	0.650	-2.722	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1143/N1144	5.40	0.650	-2.934	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1144/N1145	4.96	0.650	-2.665	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1145/N1146	4.20	0.650	-2.212	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1146/N1147	3.68	0.650	-1.898	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1147/N1148	4.15	0.650	-2.182	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1148/N1149	4.91	0.650	-2.640	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1149/N1150	5.59	0.650	-3.049	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1150/N1151	6.21	0.650	-3.418	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1151/N1152	6.48	0.650	-3.584	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1152/N1153	6.21	0.650	-3.418	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1153/N1154	5.59	0.650	-3.049	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1154/N1155	4.91	0.650	-2.640	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1155/N1156	4.15	0.650	-2.182	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1156/N1157	3.63	0.650	-1.868	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1157/N1158	4.13	0.650	-2.169	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1158/N1159	4.90	0.650	-2.633	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1159/N1160	5.81	0.650	-3.180	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1160/N1161	8.25	0.650	-4.648	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1161/N1162	8.20	0.650	6.256	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1163/N1164	7.33	0.650	5.541	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1164/N1165	7.65	0.650	-4.286	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1165/N1166	7.72	0.650	-4.332	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1166/N1167	6.75	0.650	-3.748	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1167/N1168	5.52	0.650	-3.002	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1168/N1169	4.85	0.650	-2.602	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1169/N1170	5.47	0.650	-2.974	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1170/N1171	5.95	0.650	-3.263	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1171/N1172	6.46	0.650	-3.572	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1172/N1173	6.93	0.650	-3.852	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1173/N1174	7.06	0.650	-3.934	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1174/N1175	6.69	0.650	-3.712	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1175/N1176	6.01	0.650	-3.302	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1176/N1177	5.25	0.650	-2.842	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1177/N1178	4.53	0.650	-2.407	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1178/N1179	4.41	0.650	-2.338	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1179/N1180	5.42	0.650	-2.942	0.000	0.000	0.00	0.01	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1180/N1181	6.66	0.650	-3.693	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1181/N1182	7.65	0.650	-4.286	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1182/N1183	7.61	0.650	-4.266	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1183/N1184	7.62	0.650	5.778	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1185/N1186	5.18	0.650	-2.801	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1186/N1187	7.34	0.650	-4.099	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1187/N1188	5.84	0.650	-3.199	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1188/N1189	4.05	0.650	-2.250	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1189/N1190	6.65	0.650	4.990	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1190/N1191	8.56	0.650	6.550	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1191/N1192	9.76	0.650	7.524	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1192/N1193	10.42	0.650	8.061	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1193/N1194	10.69	0.650	8.282	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1194/N1195	10.70	0.650	8.297	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1195/N1196	10.67	0.650	8.270	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1196/N1197	10.71	0.650	8.299	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1197/N1198	10.69	0.650	8.285	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1198/N1199	10.42	0.650	8.066	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1199/N1200	9.76	0.650	7.530	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1200/N1201	8.57	0.650	6.557	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1201/N1202	6.66	0.650	4.996	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1202/N1203	4.02	0.650	-2.237	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1203/N1204	5.82	0.650	-3.186	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1204/N1205	7.32	0.650	-4.086	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1205/N1206	5.17	0.650	-2.796	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1207/N1208	3.38	0.650	-1.713	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1208/N1209	4.79	0.650	-2.563	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1209/N1210	4.25	0.650	-2.240	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1210/N1211	5.67	0.650	4.191	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1211/N1212	9.18	0.650	7.057	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1212/N1213	12.00	0.650	9.352	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1213/N1214	13.98	0.650	10.972	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1214/N1215	15.24	0.650	11.997	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1215/N1216	15.94	0.650	12.567	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1216/N1217	16.27	0.650	12.839	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1217/N1218	16.38	0.650	12.924	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1218/N1219	16.27	0.650	12.839	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1219/N1220	15.95	0.650	12.576	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1220/N1221	15.26	0.650	12.009	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1221/N1222	14.00	0.650	10.987	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1222/N1223	12.02	0.650	9.370	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1223/N1224	9.20	0.650	7.073	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1224/N1225	5.69	0.650	4.204	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1225/N1226	4.24	0.650	-2.234	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1226/N1227	4.77	0.650	-2.554	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1227/N1228	3.36	0.650	-1.706	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1229/N1230	3.40	0.650	-1.726	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1230/N1231	4.79	0.650	-2.567	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1231/N1232	4.20	0.650	-2.212	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1232/N1233	5.76	0.650	4.263	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1233/N1234	9.27	0.650	7.131	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1234/N1235	12.07	0.650	9.409	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1235/N1236	14.03	0.650	11.012	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1236/N1237	15.28	0.650	12.029	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1237/N1238	15.98	0.650	12.601	0.000	0.000	0.00	0.01	0.00	G	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1238/N1239	16.35	0.650	12.900	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1239/N1240	16.45	0.650	12.985	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1240/N1241	16.35	0.650	12.900	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1241/N1242	15.98	0.650	12.604	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1242/N1243	15.30	0.650	12.042	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1243/N1244	14.05	0.650	11.029	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1244/N1245	12.09	0.650	9.428	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1245/N1246	9.30	0.650	7.150	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1246/N1247	5.78	0.650	4.279	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1247/N1248	4.20	0.650	-2.207	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1248/N1249	4.78	0.650	-2.559	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1249/N1250	3.38	0.650	-1.719	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1251/N1252	5.33	0.650	-2.889	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1252/N1253	7.34	0.650	-4.100	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1253/N1254	5.65	0.650	-3.081	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1254/N1255	4.20	0.650	2.989	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1255/N1256	6.84	0.650	5.146	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1256/N1257	8.65	0.650	6.619	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1257/N1258	9.76	0.650	7.529	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1258/N1259	10.38	0.650	8.030	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1259/N1260	10.62	0.650	8.228	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1260/N1261	10.64	0.650	8.247	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1261/N1262	10.62	0.650	8.228	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1262/N1263	10.64	0.650	8.247	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1263/N1264	10.63	0.650	8.233	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1264/N1265	10.39	0.650	8.038	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1265/N1266	9.78	0.650	7.540	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1266/N1267	8.66	0.650	6.633	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1267/N1268	6.86	0.650	5.163	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1268/N1269	4.23	0.650	3.019	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1269/N1270	5.63	0.650	-3.074	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1270/N1271	7.33	0.650	-4.092	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1271/N1272	5.32	0.650	-2.885	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1273/N1274	7.85	0.650	5.971	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1274/N1275	6.41	0.650	-3.541	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1275/N1276	6.58	0.650	-3.646	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1276/N1277	5.88	0.650	-3.222	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1277/N1278	4.95	0.650	-2.658	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1278/N1279	4.24	0.650	-2.232	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1279/N1280	4.62	0.650	-2.463	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1280/N1281	5.30	0.650	-2.873	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1281/N1282	5.99	0.650	-3.289	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1282/N1283	6.63	0.650	-3.672	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1283/N1284	6.92	0.650	-3.846	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1284/N1285	6.63	0.650	-3.672	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1285/N1286	5.99	0.650	-3.289	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1286/N1287	5.30	0.650	-2.873	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1287/N1288	4.56	0.650	-2.429	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1288/N1289	4.18	0.650	-2.198	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1289/N1290	4.86	0.650	-2.607	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1290/N1291	5.81	0.650	-3.180	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1291/N1292	6.54	0.650	-3.619	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1292/N1293	6.79	0.650	-3.768	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1293/N1294	8.09	0.650	6.163	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1295/N1296	8.15	0.650	6.213	0.000	0.000	0.00	0.01	0.00	GV	Cumple

Listados
Coberta de 46'8x28'6 malla tetràedres
Fecha: 20/12/24

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1296/N1297	6.94	0.650	-3.859	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1297/N1298	7.12	0.650	-3.969	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1298/N1299	6.27	0.650	-3.458	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1299/N1300	5.16	0.650	-2.786	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1300/N1301	4.39	0.650	-2.326	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1301/N1302	5.26	0.650	-2.850	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1302/N1303	5.99	0.650	-3.290	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1303/N1304	6.62	0.650	-3.665	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1304/N1305	7.16	0.650	-3.991	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1305/N1306	7.34	0.650	-4.100	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1306/N1307	6.99	0.650	-3.888	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1307/N1308	6.32	0.650	-3.485	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1308/N1309	5.57	0.650	-3.035	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1309/N1310	4.72	0.650	-2.523	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1310/N1311	4.31	0.650	-2.273	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1311/N1312	5.07	0.650	-2.732	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1312/N1313	6.19	0.650	-3.411	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1313/N1314	7.06	0.650	-3.935	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1314/N1315	6.93	0.650	-3.854	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1315/N1316	6.77	0.650	5.090	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1317/N1318	5.31	0.650	-2.880	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1318/N1319	7.40	0.650	-4.139	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1319/N1320	5.81	0.650	-3.177	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1320/N1321	3.93	0.650	-2.177	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1321/N1322	6.71	0.650	5.038	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1322/N1323	8.70	0.650	6.664	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1323/N1324	9.96	0.650	7.690	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1324/N1325	10.67	0.650	8.267	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1325/N1326	10.96	0.650	8.509	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1326/N1327	10.99	0.650	8.530	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1327/N1328	10.96	0.650	8.502	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1328/N1329	10.99	0.650	8.534	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1329/N1330	10.97	0.650	8.515	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1330/N1331	10.68	0.650	8.276	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1331/N1332	9.97	0.650	7.702	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1332/N1333	8.72	0.650	6.678	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1333/N1334	6.73	0.650	5.054	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1334/N1335	3.91	0.650	-2.166	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1335/N1336	5.79	0.650	-3.166	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1336/N1337	7.39	0.650	-4.129	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1337/N1338	5.30	0.650	-2.875	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1339/N1340	3.45	0.650	-1.758	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1340/N1341	4.89	0.650	-2.627	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1341/N1342	4.33	0.650	-2.290	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1342/N1343	5.71	0.650	4.225	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1343/N1344	9.32	0.650	7.168	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1344/N1345	12.22	0.650	9.533	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1345/N1346	14.28	0.650	11.212	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1346/N1347	15.59	0.650	12.283	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1347/N1348	16.33	0.650	12.885	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1348/N1349	16.67	0.650	13.163	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1349/N1350	16.77	0.650	13.241	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1350/N1351	16.68	0.650	13.169	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1351/N1352	16.34	0.650	12.896	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1352/N1353	15.61	0.650	12.299	0.000	0.000	0.00	0.01	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1353/N1354	14.30	0.650	11.231	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1354/N1355	12.25	0.650	9.555	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1355/N1356	9.35	0.650	7.189	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1356/N1357	5.73	0.650	4.243	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1357/N1358	4.32	0.650	-2.283	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1358/N1359	4.88	0.650	-2.617	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1359/N1360	3.44	0.650	-1.750	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1361/N1362	3.48	0.650	-1.778	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1362/N1363	4.97	0.650	-2.671	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1363/N1364	4.42	0.650	-2.343	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1364/N1365	5.81	0.650	4.306	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1365/N1366	9.38	0.650	7.213	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1366/N1367	12.22	0.650	9.537	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1367/N1368	14.24	0.650	11.184	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1368/N1369	15.53	0.650	12.235	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1369/N1370	16.26	0.650	12.827	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1370/N1371	16.59	0.650	13.101	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1371/N1372	16.69	0.650	13.179	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1372/N1373	16.60	0.650	13.107	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1373/N1374	16.27	0.650	12.838	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1374/N1375	15.55	0.650	12.251	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1375/N1376	14.27	0.650	11.203	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1376/N1377	12.25	0.650	9.559	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1377/N1378	9.40	0.650	7.235	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1378/N1379	5.83	0.650	4.325	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1379/N1380	4.41	0.650	-2.336	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1380/N1381	4.95	0.650	-2.659	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1381/N1382	3.47	0.650	-1.769	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1383/N1384	5.37	0.650	-2.917	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1384/N1385	7.69	0.650	-4.309	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1385/N1386	6.04	0.650	-3.318	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1386/N1387	4.19	0.650	2.984	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1387/N1388	6.89	0.650	5.184	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1388/N1389	8.72	0.650	6.679	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1389/N1390	9.86	0.650	7.613	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1390/N1391	10.50	0.650	8.134	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1391/N1392	10.77	0.650	8.348	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1392/N1393	10.78	0.650	8.356	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1393/N1394	10.74	0.650	8.326	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1394/N1395	10.78	0.650	8.361	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1395/N1396	10.77	0.650	8.355	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1396/N1397	10.52	0.650	8.144	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1397/N1398	9.88	0.650	7.625	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1398/N1399	8.74	0.650	6.693	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1399/N1400	6.91	0.650	5.200	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1400/N1401	4.22	0.650	3.005	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1401/N1402	6.01	0.650	-3.301	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1402/N1403	7.66	0.650	-4.293	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1403/N1404	5.36	0.650	-2.909	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1405/N1406	7.80	0.650	5.927	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1406/N1407	7.55	0.650	-4.227	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1407/N1408	7.51	0.650	-4.201	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1408/N1409	6.58	0.650	-3.642	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1409/N1410	5.47	0.650	-2.973	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1410/N1411	4.59	0.650	-2.447	0.000	0.000	0.00	0.01	0.00	GV	Cumple

Listados
Coberta de 46'8x28'6 malla tetràedres
Fecha: 20/12/24

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1411/N1412	4.65	0.650	-2.479	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1412/N1413	5.06	0.650	-2.729	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1413/N1414	5.69	0.650	-3.110	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1414/N1415	6.31	0.650	-3.478	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1415/N1416	6.58	0.650	-3.645	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1416/N1417	6.30	0.650	-3.476	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1417/N1418	5.69	0.650	-3.106	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1418/N1419	5.01	0.650	-2.700	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1419/N1420	4.58	0.650	-2.441	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1420/N1421	4.50	0.650	-2.388	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1421/N1422	5.37	0.650	-2.916	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1422/N1423	6.49	0.650	-3.587	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1423/N1424	7.42	0.650	-4.151	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1424/N1425	7.51	0.650	-4.201	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1425/N1426	7.95	0.650	6.047	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1427/N1428	8.85	0.650	6.782	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1428/N1429	5.90	0.650	-3.234	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1429/N1430	6.13	0.650	-3.371	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1430/N1431	5.44	0.650	-2.954	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1431/N1432	4.47	0.650	-2.373	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1432/N1433	3.86	0.650	-2.008	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1433/N1434	4.52	0.650	-2.399	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1434/N1435	5.32	0.650	-2.883	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1435/N1436	5.98	0.650	-3.284	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1436/N1437	6.54	0.650	-3.621	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1437/N1438	6.74	0.650	-3.737	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1438/N1439	6.43	0.650	-3.555	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1439/N1440	5.84	0.650	-3.200	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1440/N1441	5.17	0.650	-2.795	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1441/N1442	4.40	0.650	-2.331	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1442/N1443	3.81	0.650	-1.974	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1443/N1444	4.40	0.650	-2.327	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1444/N1445	5.37	0.650	-2.914	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1445/N1446	6.08	0.650	-3.342	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1446/N1447	5.90	0.650	-3.231	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1447/N1448	6.33	0.650	4.727	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1449/N1450	5.02	0.650	-2.705	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1450/N1451	7.19	0.650	-4.008	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1451/N1452	5.67	0.650	-3.097	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1452/N1453	3.93	0.650	-2.178	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1453/N1454	6.41	0.650	4.796	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1454/N1455	8.11	0.650	6.185	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1455/N1456	9.13	0.650	7.010	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1456/N1457	9.64	0.650	7.432	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1457/N1458	9.81	0.650	7.569	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1458/N1459	9.77	0.650	7.532	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1459/N1460	9.71	0.650	7.487	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1460/N1461	9.77	0.650	7.537	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1461/N1462	9.82	0.650	7.578	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1462/N1463	9.66	0.650	7.445	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1463/N1464	9.15	0.650	7.029	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1464/N1465	8.14	0.650	6.208	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1465/N1466	6.44	0.650	4.823	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1466/N1467	3.92	0.650	-2.171	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1467/N1468	5.66	0.650	-3.087	0.000	0.000	0.00	0.01	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1468/N1469	7.17	0.650	-3.997	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1469/N1470	5.01	0.650	-2.699	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1471/N1472	3.32	0.650	-1.678	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1472/N1473	4.80	0.650	-2.574	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1473/N1474	4.48	0.650	-2.379	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1474/N1475	5.54	0.650	4.083	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1475/N1476	8.69	0.650	6.655	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1476/N1477	11.14	0.650	8.652	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1477/N1478	12.80	0.650	10.010	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1478/N1479	13.81	0.650	10.832	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1479/N1480	14.34	0.650	11.265	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1480/N1481	14.57	0.650	11.448	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1481/N1482	14.63	0.650	11.496	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1482/N1483	14.57	0.650	11.453	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1483/N1484	14.35	0.650	11.275	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1484/N1485	13.83	0.650	10.848	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1485/N1486	12.83	0.650	10.030	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1486/N1487	11.17	0.650	8.675	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1487/N1488	8.72	0.650	6.680	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1488/N1489	5.56	0.650	4.105	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1489/N1490	4.47	0.650	-2.373	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1490/N1491	4.79	0.650	-2.564	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1491/N1492	3.30	0.650	-1.670	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1493/N1494	3.17	0.650	-1.592	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1494/N1495	4.71	0.650	-2.515	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1495/N1496	4.58	0.650	-2.440	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1496/N1497	5.68	0.650	4.199	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1497/N1498	8.66	0.650	6.632	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1498/N1499	10.96	0.650	8.508	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1499/N1500	12.52	0.650	9.777	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1500/N1501	13.46	0.650	10.543	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1501/N1502	13.96	0.650	10.949	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1502/N1503	14.17	0.650	11.125	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1503/N1504	14.22	0.650	11.167	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1504/N1505	14.17	0.650	11.123	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1505/N1506	13.96	0.650	10.956	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1506/N1507	13.47	0.650	10.556	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1507/N1508	12.54	0.650	9.794	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1508/N1509	10.99	0.650	8.528	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1509/N1510	8.69	0.650	6.652	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1510/N1511	5.70	0.650	4.217	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1511/N1512	4.57	0.650	-2.433	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1512/N1513	4.69	0.650	-2.505	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1513/N1514	3.16	0.650	-1.584	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1515/N1516	4.49	0.650	-2.383	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1516/N1517	6.94	0.650	-3.863	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1517/N1518	5.88	0.650	-3.223	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1518/N1519	4.57	0.650	3.297	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1519/N1520	6.52	0.650	4.888	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1520/N1521	7.88	0.650	5.991	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1521/N1522	8.65	0.650	6.618	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1522/N1523	9.02	0.650	6.923	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1523/N1524	9.14	0.650	7.022	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1524/N1525	9.12	0.650	7.008	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1525/N1526	9.08	0.635	6.995	0.000	0.000	0.00	0.01	0.00	GV	Cumple

Listados
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Fecha: 20/12/24

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1526/N1527	9.13	0.665	7.033	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1527/N1528	9.16	0.650	7.042	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1528/N1529	9.04	0.650	6.937	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1529/N1530	8.66	0.650	6.628	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1530/N1531	7.89	0.650	6.000	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1531/N1532	6.53	0.650	4.896	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1532/N1533	4.58	0.650	3.303	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1533/N1534	5.86	0.650	-3.209	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1534/N1535	6.92	0.650	-3.849	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1535/N1536	4.47	0.650	-2.373	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1537/N1538	8.42	0.650	6.431	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1538/N1539	7.67	0.650	-4.298	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1539/N1540	7.29	0.650	-4.072	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1540/N1541	6.25	0.650	-3.445	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1542/N1543	3.66	0.650	-1.882	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1543/N1544	4.02	0.650	-2.099	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1545/N1546	3.97	0.650	-2.072	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1546/N1547	3.60	0.650	-1.849	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1548/N1549	6.15	0.650	-3.386	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1549/N1550	7.21	0.650	-4.021	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1550/N1551	7.62	0.650	-4.270	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1551/N1552	8.48	0.650	6.482	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1553/N1554	8.51	0.650	6.512	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1554/N1555	5.34	0.650	-2.899	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1555/N1556	3.88	0.650	-2.017	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1556/N1557	3.41	0.650	-1.735	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1558/N1559	3.78	0.650	-1.960	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1559/N1560	4.37	0.650	-2.313	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1561/N1562	4.37	0.650	-2.313	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1562/N1563	3.78	0.650	-1.959	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1564/N1565	3.37	0.650	-1.709	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1565/N1566	3.87	0.650	-2.010	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1566/N1567	4.07	0.650	-2.129	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1567/N1568	5.26	0.650	3.855	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1569/N1570	3.39	0.650	-1.724	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1570/N1571	5.23	0.650	-2.831	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1571/N1572	4.28	0.650	-2.260	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1572/N1573	2.89	0.650	-1.553	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1573/N1574	3.88	0.650	2.731	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1574/N1575	4.46	0.650	3.205	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1575/N1576	4.49	0.650	3.232	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1576/N1577	4.32	0.650	3.089	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1577/N1578	4.07	0.650	2.888	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1578/N1579	3.87	0.650	2.721	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1579/N1580	3.82	0.650	2.686	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1580/N1581	3.87	0.650	2.720	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1581/N1582	4.08	0.650	2.895	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1582/N1583	4.33	0.650	3.099	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1583/N1584	4.51	0.650	3.245	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1584/N1585	4.44	0.650	3.190	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1585/N1586	3.89	0.650	2.735	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1586/N1587	2.88	0.650	-1.548	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1587/N1588	4.28	0.650	-2.257	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1588/N1589	5.23	0.650	-2.828	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1589/N1590	3.39	0.650	-1.721	0.000	0.000	0.00	0.01	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1591/N1592	2.29	0.650	-1.057	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1592/N1593	3.53	0.650	-1.806	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1593/N1594	3.60	0.650	-1.851	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1594/N1595	3.16	0.650	2.148	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1595/N1596	4.41	0.650	3.166	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1596/N1597	5.14	0.650	3.758	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1597/N1598	5.30	0.650	3.889	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1598/N1599	5.29	0.650	3.884	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1599/N1600	5.17	0.650	3.786	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1600/N1601	5.03	0.650	3.668	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1601/N1602	5.00	0.650	3.647	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1602/N1603	5.02	0.650	3.657	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1603/N1604	5.18	0.650	3.790	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1604/N1605	5.30	0.650	3.892	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1605/N1606	5.29	0.650	3.878	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1606/N1607	5.12	0.650	3.740	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1607/N1608	4.39	0.650	3.150	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1608/N1609	3.20	0.650	2.175	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1609/N1610	3.60	0.650	-1.849	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1610/N1611	3.53	0.650	-1.804	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1611/N1612	2.28	0.650	-1.053	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1613/N1614	1.87	0.650	-0.809	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1614/N1615	3.03	0.650	-1.508	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1615/N1616	3.46	0.650	-1.764	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1616/N1617	3.18	0.650	2.157	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1617/N1618	4.19	0.650	2.982	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1618/N1619	4.69	0.650	3.392	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1619/N1620	3.85	0.650	2.706	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1620/N1621	4.22	0.650	3.007	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1621/N1622	4.07	0.650	2.890	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1622/N1623	3.51	0.650	2.433	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1623/N1624	3.54	0.650	2.454	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1624/N1625	3.50	0.650	2.424	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1625/N1626	4.07	0.650	2.886	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1626/N1627	4.22	0.650	3.011	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1627/N1628	3.86	0.650	2.714	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1628/N1629	4.34	0.650	3.104	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1629/N1630	3.58	0.650	2.489	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1630/N1631	3.18	0.650	2.160	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1631/N1632	3.46	0.650	-1.893	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1632/N1633	3.04	0.650	-1.510	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1633/N1634	1.87	0.650	-0.808	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1635/N1636	12.25	0.650	-7.055	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1636/N1637	8.09	0.650	-4.555	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1637/N1638	5.67	0.650	-3.230	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1638/N1639	3.99	0.650	-2.080	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1639/N1640	2.75	0.650	-1.339	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1640/N1641	1.86	0.650	-0.798	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1641/N1642	1.06	0.650	0.432	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1642/N1643	2.00	0.650	1.200	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1643/N1644	1.91	0.650	1.125	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1644/N1645	1.49	0.650	-0.576	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1645/N1646	2.36	0.650	-1.101	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1646/N1647	1.16	0.650	-0.382	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1647/N1648	1.89	0.650	1.104	0.000	0.000	0.00	0.01	0.00	GV	Cumple

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 20/12/24

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1648/N1649	2.00	0.650	1.199	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1649/N1650	1.26	0.650	-0.441	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1650/N1651	1.86	0.650	-0.797	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1651/N1652	2.34	0.650	-1.088	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1652/N1653	2.99	0.650	-1.483	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1653/N1654	3.47	0.650	-1.903	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1654/N1655	4.14	0.650	-2.176	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1655/N1656	5.67	0.650	-3.093	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N898/N920	3.04	0.651	-1.511	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N920/N942	13.04	0.651	-7.527	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N942/N964	24.09	0.651	-14.327	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N964/N986	11.34	0.651	-6.640	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N986/N1008	3.52	0.651	-1.801	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1008/N1030	11.72	0.651	-6.732	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1052/N1074	12.31	0.651	-7.090	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1074/N1096	10.69	0.651	8.286	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1096/N1118	12.51	0.651	9.772	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1118/N1140	11.30	0.651	8.786	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1140/N1162	13.74	0.651	10.947	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1184/N1206	9.65	0.651	7.617	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1206/N1228	13.13	0.651	10.273	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1228/N1250	15.32	0.651	12.064	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1250/N1272	16.42	0.651	12.962	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1272/N1294	16.06	0.651	12.845	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1316/N1338	11.73	0.651	9.314	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1338/N1360	13.99	0.651	10.979	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1360/N1382	16.89	0.651	13.338	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1382/N1404	17.03	0.651	13.453	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1404/N1426	15.51	0.651	12.397	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1448/N1470	11.12	0.651	-6.371	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1470/N1492	13.14	0.651	10.285	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1492/N1514	17.49	0.651	13.834	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1514/N1536	18.47	0.651	14.629	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1536/N1552	16.83	0.651	13.294	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1568/N1590	11.42	0.651	-6.551	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1590/N1612	8.80	0.651	-4.977	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1612/N1634	5.93	0.651	-3.247	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1634/N1656	3.95	0.651	2.786	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N897/N919	1.70	0.651	0.950	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N919/N1815	14.17	0.525	1.538	-3.138	-0.249	0.00	0.15	1.65	GV	Cumple
N1815/N941	54.97	0.126	-1.588	-10.951	-2.705	0.00	-1.40	-5.75	GV	Cumple
N941/N963	17.04	0.651	-9.934	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N963/N985	7.63	0.651	-4.408	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N985/N1007	5.70	0.651	4.211	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1007/N1029	6.19	0.651	4.614	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1051/N1073	8.27	0.651	-4.656	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1073/N1095	11.07	0.651	8.597	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1095/N1117	12.69	0.651	9.919	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1117/N1139	11.10	0.651	8.622	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1139/N1161	7.86	0.651	6.151	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1183/N1205	8.66	0.651	6.802	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1205/N1227	11.37	0.651	8.836	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1227/N1249	13.35	0.651	10.456	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1249/N1271	12.24	0.651	9.549	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1271/N1293	10.16	0.651	8.033	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1315/N1337	9.94	0.651	-5.660	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1337/N1359	11.50	0.651	8.946	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1359/N1381	14.03	0.651	11.007	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1381/N1403	13.17	0.651	10.311	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1403/N1425	10.64	0.651	8.417	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1447/N1469	9.23	0.651	7.270	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1469/N1491	12.08	0.651	9.423	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1491/N1513	14.84	0.651	11.669	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1513/N1535	14.94	0.651	11.750	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1535/N1551	12.64	0.651	9.879	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1567/N1589	5.95	0.651	-3.345	0.000	0.000	0.00	0.01	0.00	GS	Cumple
N1589/N1611	5.86	0.651	4.348	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1611/N1633	7.00	0.651	5.275	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1633/N1655	6.24	0.651	4.654	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N896/N918	1.71	0.651	0.961	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N918/N1814	14.77	0.525	1.824	-3.053	0.546	0.00	-0.26	1.60	GV	Cumple
N1814/N940	39.16	0.126	1.304	-9.443	-0.285	0.00	-0.13	-4.96	GV	Cumple
N940/N962	10.66	0.651	8.258	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N962/N984	8.52	0.651	6.511	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N984/N1006	8.37	0.651	6.391	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1006/N1028	6.28	0.651	4.689	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1050/N1072	7.05	0.651	5.312	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1072/N1094	11.31	0.651	8.789	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1094/N1116	12.42	0.651	9.699	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1116/N1138	10.57	0.651	8.184	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1138/N1160	6.23	0.651	4.651	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1182/N1204	6.64	0.651	4.982	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1204/N1226	10.12	0.651	7.820	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1226/N1248	11.53	0.651	8.969	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1248/N1270	10.05	0.651	7.764	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1270/N1292	7.36	0.651	5.746	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1314/N1336	7.15	0.651	5.572	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1336/N1358	9.78	0.651	7.543	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1358/N1380	11.45	0.651	8.908	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1380/N1402	10.70	0.651	8.293	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1402/N1424	7.56	0.651	5.729	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1446/N1468	6.39	0.651	4.778	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1468/N1490	10.45	0.651	8.086	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1490/N1512	12.42	0.651	9.699	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1512/N1534	11.41	0.651	8.873	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1534/N1550	7.22	0.651	5.455	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1566/N1588	6.11	0.651	4.551	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1588/N1610	9.39	0.651	7.221	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1610/N1632	9.91	0.651	7.653	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1632/N1654	8.65	0.651	6.621	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N895/N917	1.61	0.651	-0.650	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N917/N1813	15.44	0.525	1.856	-2.973	0.791	0.00	-0.39	1.56	GV	Cumple
N1813/N939	38.06	0.126	1.817	-8.953	0.378	0.00	0.22	-4.70	GV	Cumple
N939/N961	10.49	0.651	8.119	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N961/N983	9.95	0.651	7.678	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N983/N1005	10.22	0.651	7.903	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1005/N1027	8.88	0.651	6.806	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1049/N1071	9.38	0.651	7.216	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1071/N1093	11.77	0.651	9.167	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1093/N1115	12.23	0.651	9.544	0.000	0.000	0.00	0.01	0.00	GV	Cumple

Listados
Coberta de 46'8x28'6 malla tetràedres
Fecha: 20/12/24

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1115/N1137	10.51	0.651	8.141	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1137/N1159	6.94	0.651	5.225	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1181/N1203	6.06	0.651	4.511	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1203/N1225	8.81	0.651	6.750	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1225/N1247	9.65	0.651	7.434	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1247/N1269	8.27	0.651	6.313	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1269/N1291	5.72	0.651	4.229	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1313/N1335	5.69	0.651	4.206	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1335/N1357	8.15	0.651	6.215	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1357/N1379	9.56	0.651	7.365	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1379/N1401	8.76	0.651	6.714	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1401/N1423	6.10	0.651	4.541	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1445/N1467	6.80	0.651	5.108	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1467/N1489	10.61	0.651	8.216	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1489/N1511	12.55	0.651	9.806	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1511/N1533	12.35	0.651	9.636	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1533/N1549	10.27	0.651	7.942	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1565/N1587	11.25	0.651	8.740	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1587/N1609	13.20	0.651	10.336	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1609/N1631	15.03	0.651	11.828	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1631/N1653	16.46	0.651	12.990	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N894/N916	2.34	0.651	-1.087	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N916/N1812	16.18	0.525	2.062	-2.750	1.182	0.00	-0.60	1.44	GV	Cumple
N1812/N938	35.54	0.126	2.901	-8.280	0.344	0.00	0.20	-4.35	GV	Cumple
N938/N960	12.31	0.651	9.605	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N960/N982	11.87	0.651	9.249	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N982/N1004	12.43	0.651	9.706	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1004/N1026	11.78	0.651	9.172	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1048/N1070	11.65	0.651	9.069	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1070/N1092	12.83	0.651	10.027	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1092/N1114	12.69	0.651	9.919	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1114/N1136	11.10	0.651	8.620	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1136/N1158	8.34	0.651	6.365	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1180/N1202	6.78	0.651	5.094	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1202/N1224	8.29	0.651	6.326	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1224/N1246	8.61	0.651	6.591	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1246/N1268	7.52	0.651	5.700	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1268/N1290	5.28	0.651	3.872	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1312/N1334	5.03	0.651	3.668	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1334/N1356	7.37	0.651	5.580	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1356/N1378	8.55	0.651	6.544	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1378/N1400	8.33	0.651	6.361	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1400/N1422	6.96	0.651	5.241	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1444/N1466	8.35	0.651	6.380	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1466/N1488	11.45	0.651	8.906	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1488/N1510	13.40	0.651	10.499	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1510/N1532	13.94	0.651	10.938	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1532/N1548	13.25	0.651	10.375	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1564/N1586	16.36	0.651	12.909	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1586/N1608	19.21	0.651	15.237	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1608/N1630	22.53	0.651	17.942	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1630/N1652	26.16	0.651	20.900	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N893/N915	3.29	0.651	-1.661	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N915/N1811	15.05	0.525	1.476	-1.956	1.738	0.00	-0.89	1.03	GV	Cumple
N1811/N937	32.51	0.126	4.051	-7.358	0.425	0.00	0.24	-3.86	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N937/N959	14.94	0.651	11.930	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N959/N981	13.79	0.651	10.814	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N981/N1003	14.58	0.651	11.460	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1003/N1025	14.16	0.651	11.118	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1047/N1069	13.53	0.651	10.599	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1069/N1091	14.14	0.651	11.097	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1091/N1113	13.63	0.651	10.684	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1113/N1135	11.99	0.651	9.347	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1135/N1157	9.35	0.651	7.192	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1179/N1201	7.29	0.651	5.509	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1201/N1223	8.30	0.651	6.333	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1223/N1245	8.33	0.651	6.360	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1245/N1267	7.31	0.651	5.530	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1267/N1289	5.34	0.651	3.922	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1311/N1333	5.09	0.651	3.720	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1333/N1355	7.17	0.651	5.414	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1355/N1377	8.30	0.651	6.337	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1377/N1399	8.40	0.651	6.415	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1399/N1421	7.54	0.651	5.713	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1443/N1465	9.53	0.651	7.340	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1465/N1487	12.58	0.651	9.823	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1487/N1509	14.67	0.651	11.533	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1509/N1531	15.69	0.651	12.365	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1585/N1607	24.48	0.651	19.532	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1607/N1629	29.09	0.651	23.293	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1629/N1651	35.05	0.651	28.156	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N892/N914	3.27	0.651	-1.646	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N914/N1810	11.41	0.525	1.362	-1.411	1.380	0.00	-0.70	0.74	GV	Cumple
N1810/N936	33.48	0.126	5.419	-7.349	0.577	0.00	0.32	-3.86	GV	Cumple
N936/N958	15.75	0.651	12.589	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N958/N980	14.63	0.651	11.501	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N980/N1002	15.82	0.651	12.472	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1002/N1024	15.63	0.651	12.317	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1046/N1068	14.95	0.651	11.762	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1068/N1090	15.37	0.651	12.102	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1090/N1112	14.83	0.651	11.664	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1112/N1134	12.95	0.651	10.126	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1134/N1156	10.04	0.651	7.758	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1178/N1200	7.63	0.651	5.790	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1200/N1222	8.52	0.651	6.513	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1222/N1244	8.42	0.651	6.438	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1244/N1266	7.34	0.651	5.556	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1266/N1288	5.30	0.651	3.885	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1310/N1332	5.05	0.651	3.688	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1332/N1354	7.20	0.651	5.442	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1354/N1376	8.41	0.651	6.423	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1376/N1398	8.64	0.651	6.609	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1398/N1420	7.90	0.651	6.010	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1442/N1464	10.29	0.651	7.962	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1464/N1486	13.64	0.651	10.693	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1486/N1508	16.05	0.651	12.659	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1508/N1530	17.18	0.651	13.576	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1584/N1606	26.83	0.651	21.449	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1606/N1628	31.11	0.651	24.940	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1628/N1650	36.33	0.651	29.197	0.000	0.000	0.00	0.01	0.00	GV	Cumple

Listados
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Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N891/N913	2.19	0.651	-1.001	0.000	0.000	0.00	0.01	0.00	G	Cumple
N913/N1809	11.20	0.525	2.792	-1.440	1.195	0.00	-0.61	0.76	GV	Cumple
N1809/N935	33.75	0.126	4.183	-7.043	1.038	0.00	0.57	-3.70	GV	Cumple
N935/N957	14.31	0.651	11.240	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N957/N979	14.52	0.651	11.408	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N979/N1001	16.20	0.651	12.778	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1001/N1023	16.33	0.651	12.887	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1045/N1067	15.99	0.651	12.605	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1067/N1089	16.63	0.651	13.128	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1089/N1111	16.02	0.651	12.631	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1111/N1133	13.96	0.651	10.951	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1133/N1155	10.52	0.651	8.144	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1177/N1199	7.87	0.651	5.986	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1199/N1221	8.78	0.651	6.727	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1221/N1243	8.65	0.651	6.623	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1243/N1265	7.45	0.651	5.642	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1265/N1287	5.22	0.651	3.824	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1309/N1331	5.20	0.651	3.810	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1331/N1353	7.31	0.651	5.525	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1353/N1375	8.65	0.651	6.622	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1375/N1397	8.94	0.651	6.860	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1397/N1419	8.13	0.651	6.197	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1441/N1463	10.75	0.651	8.335	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1463/N1485	14.70	0.651	11.558	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1485/N1507	17.33	0.651	13.700	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1507/N1529	18.55	0.651	14.697	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1529/N1547	18.55	0.651	14.695	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1563/N1583	23.45	0.651	18.696	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1583/N1605	26.75	0.651	21.383	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1605/N1627	29.43	0.651	23.566	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1627/N1649	31.19	0.651	25.004	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N890/N912	1.87	0.651	-0.802	0.000	0.000	0.00	0.01	0.00	G	Cumple
N912/N1808	14.01	0.525	2.509	-1.732	1.626	0.00	-0.83	0.91	GV	Cumple
N1808/N934	32.60	0.126	4.481	-6.514	1.260	0.00	0.68	-3.42	GV	Cumple
N934/N956	13.47	0.651	10.554	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N956/N978	14.43	0.651	11.333	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N978/N1000	16.44	0.651	12.977	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1000/N1022	16.82	0.651	13.286	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1044/N1066	16.76	0.651	13.237	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1066/N1088	17.63	0.651	13.943	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1088/N1110	16.98	0.651	13.414	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1110/N1132	14.75	0.651	11.598	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1132/N1154	11.04	0.651	8.568	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1176/N1198	8.03	0.651	6.119	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1198/N1220	9.20	0.651	7.073	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1220/N1242	9.08	0.651	6.970	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1242/N1264	7.57	0.651	5.738	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1264/N1286	5.23	0.651	3.834	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1308/N1330	5.36	0.651	3.935	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1330/N1352	7.42	0.651	5.617	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1352/N1374	9.07	0.651	6.967	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1374/N1396	9.37	0.651	7.209	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1396/N1418	8.30	0.651	6.334	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1440/N1462	11.26	0.651	8.750	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1462/N1484	15.53	0.651	12.234	0.000	0.000	0.00	0.01	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1484/N1506	18.35	0.651	14.536	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1506/N1528	19.64	0.651	15.585	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1528/N1546	19.40	0.651	15.388	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1562/N1582	24.07	0.651	19.199	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1582/N1604	27.00	0.651	21.589	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1604/N1626	28.69	0.651	22.967	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1626/N1648	28.38	0.651	22.710	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N889/N911	2.18	0.651	-0.995	0.000	0.000	0.00	0.01	0.00	G	Cumple
N911/N1807	17.30	0.525	2.153	-1.905	2.302	0.00	-1.19	1.00	GV	Cumple
N1807/N933	31.34	0.126	4.633	-6.255	1.209	0.00	0.65	-3.28	GV	Cumple
N933/N955	14.41	0.651	11.319	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N955/N977	15.07	0.651	11.854	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N977/N999	17.09	0.651	13.504	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N999/N1021	17.48	0.651	13.820	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1043/N1065	17.33	0.651	13.700	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1065/N1087	18.34	0.651	14.526	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1087/N1109	17.67	0.651	13.977	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1109/N1131	15.31	0.651	12.051	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1131/N1153	11.35	0.651	8.824	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1175/N1197	8.12	0.651	6.192	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1197/N1219	9.52	0.651	7.330	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1219/N1241	9.41	0.651	7.241	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1241/N1263	7.76	0.651	5.894	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1263/N1285	5.35	0.651	3.932	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1307/N1329	5.47	0.651	4.031	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1329/N1351	7.60	0.651	5.761	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1351/N1373	9.41	0.651	7.242	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1373/N1395	9.69	0.651	7.473	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1395/N1417	8.49	0.651	6.491	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1439/N1461	11.60	0.651	9.026	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1461/N1483	16.14	0.651	12.731	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1483/N1505	19.12	0.651	15.161	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1505/N1527	20.44	0.651	16.241	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1527/N1545	20.41	0.651	16.214	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1561/N1581	25.74	0.651	20.564	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1581/N1603	28.87	0.651	23.111	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1603/N1625	31.07	0.651	24.906	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1625/N1647	31.95	0.651	25.629	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N888/N910	3.17	0.651	-1.588	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N910/N1806	17.33	0.525	3.224	-1.451	2.684	0.00	-1.39	0.76	GV	Cumple
N1806/N932	28.02	0.126	4.826	-5.874	0.746	0.00	0.40	-3.08	GV	Cumple
N932/N954	16.20	0.651	12.952	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N954/N976	16.04	0.651	12.646	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N976/N998	17.80	0.651	14.084	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N998/N1020	18.03	0.651	14.274	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1042/N1064	17.59	0.651	13.916	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1064/N1086	18.69	0.651	14.812	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1086/N1108	18.01	0.651	14.259	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1108/N1130	15.58	0.651	12.277	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1130/N1152	11.47	0.651	8.918	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1174/N1196	8.14	0.651	6.204	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1196/N1218	9.67	0.651	7.452	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1218/N1240	9.59	0.651	7.386	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1240/N1262	7.88	0.651	5.995	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1262/N1284	5.46	0.651	4.019	0.000	0.000	0.00	0.01	0.00	GV	Cumple

Listados
Coberta de 46'8x28'6 malla tetràedres
Fecha: 20/12/24

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1306/N1328	5.58	0.651	4.114	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1328/N1350	7.70	0.651	5.850	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1350/N1372	9.60	0.651	7.392	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1372/N1394	9.87	0.651	7.617	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1394/N1416	8.55	0.651	6.542	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1438/N1460	11.70	0.651	9.109	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1460/N1482	16.44	0.651	12.976	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1482/N1504	19.52	0.651	15.485	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1504/N1526	20.87	0.651	16.585	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1580/N1602	31.05	0.651	24.889	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1602/N1624	34.36	0.651	27.589	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1624/N1646	37.84	0.651	30.427	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N887/N909	3.17	0.651	-1.589	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N909/N1805	22.76	0.525	0.315	1.826	3.880	0.00	-2.01	-0.96	GV	Cumple
N1805/N931	25.99	0.126	5.431	-5.474	-0.661	0.00	-0.33	-2.87	GV	Cumple
N931/N953	16.47	0.651	13.179	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N953/N975	16.10	0.651	12.697	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N975/N997	17.80	0.651	14.083	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N997/N1019	18.03	0.651	14.272	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1041/N1063	17.59	0.651	13.914	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1063/N1085	18.69	0.651	14.810	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1085/N1107	18.01	0.651	14.256	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1107/N1129	15.58	0.651	12.274	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1129/N1151	11.46	0.651	8.913	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1173/N1195	8.13	0.651	6.199	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1195/N1217	9.66	0.651	7.449	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1217/N1239	9.58	0.651	7.384	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1239/N1261	7.88	0.651	5.993	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1261/N1283	5.57	0.651	4.112	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1305/N1327	5.68	0.651	4.199	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1327/N1349	7.70	0.651	5.847	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1349/N1371	9.59	0.651	7.390	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1371/N1393	9.87	0.651	7.614	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1393/N1415	8.55	0.651	6.538	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1437/N1459	11.69	0.651	9.104	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1459/N1481	16.43	0.651	12.970	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1481/N1503	19.51	0.651	15.478	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1503/N1525	20.86	0.651	16.579	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1579/N1601	31.06	0.651	24.898	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1601/N1623	34.26	0.651	27.507	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1623/N1645	37.73	0.651	30.340	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N886/N908	2.18	0.651	-0.995	0.000	0.000	0.00	0.01	0.00	G	Cumple
N908/N1804	22.40	0.525	-0.345	2.364	3.250	0.00	-1.68	-1.24	GV	Cumple
N1804/N930	25.11	0.126	3.495	-5.396	-0.662	0.00	-0.33	-2.83	GV	Cumple
N930/N952	14.76	0.651	11.608	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N952/N974	15.20	0.651	11.967	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N974/N996	17.09	0.651	13.503	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N996/N1018	17.47	0.651	13.818	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1040/N1062	17.32	0.651	13.696	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1062/N1084	18.34	0.651	14.522	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1084/N1106	17.66	0.651	13.973	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1106/N1128	15.30	0.651	12.046	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1128/N1150	11.34	0.651	8.818	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1172/N1194	8.12	0.651	6.186	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1194/N1216	9.51	0.651	7.325	0.000	0.000	0.00	0.01	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1216/N1238	9.41	0.651	7.237	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1238/N1260	7.75	0.651	5.890	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1260/N1282	5.67	0.651	4.189	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1304/N1326	5.78	0.651	4.278	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1326/N1348	7.59	0.651	5.757	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1348/N1370	9.40	0.651	7.237	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1370/N1392	9.69	0.651	7.466	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1392/N1414	8.48	0.651	6.482	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1436/N1458	11.58	0.651	9.013	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1458/N1480	16.13	0.651	12.719	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1480/N1502	19.11	0.651	15.151	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1502/N1524	20.44	0.651	16.234	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1524/N1544	20.97	0.651	16.668	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1560/N1578	26.21	0.651	20.940	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1578/N1600	29.11	0.651	23.306	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1600/N1622	31.09	0.651	24.926	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1622/N1644	31.92	0.651	25.602	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N885/N907	1.87	0.651	-0.803	0.000	0.000	0.00	0.01	0.00	G	Cumple
N907/N1803	18.97	0.525	0.193	2.379	2.388	0.00	-1.23	-1.25	GV	Cumple
N1803/N929	22.62	0.126	0.751	-5.416	-0.205	0.00	-0.09	-2.84	GV	Cumple
N929/N951	13.63	0.651	10.686	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N951/N973	14.56	0.651	11.439	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N973/N995	16.44	0.651	12.975	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N995/N1017	16.82	0.651	13.282	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1039/N1061	16.75	0.651	13.232	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1061/N1083	17.62	0.651	13.939	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1083/N1105	16.97	0.651	13.409	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1105/N1127	14.74	0.651	11.592	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1127/N1149	11.03	0.651	8.562	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1171/N1193	8.02	0.651	6.109	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1193/N1215	9.20	0.651	7.067	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1215/N1237	9.07	0.651	6.965	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1237/N1259	7.56	0.651	5.729	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1259/N1281	5.80	0.651	4.294	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1303/N1325	5.89	0.651	4.374	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1325/N1347	7.41	0.651	5.607	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1347/N1369	9.06	0.651	6.960	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1369/N1391	9.36	0.651	7.199	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1391/N1413	8.29	0.651	6.330	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1435/N1457	11.24	0.651	8.736	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1457/N1479	15.52	0.651	12.223	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1479/N1501	18.34	0.651	14.526	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1501/N1523	19.63	0.651	15.576	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1523/N1543	20.22	0.651	16.057	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1559/N1577	24.93	0.651	19.899	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1577/N1599	27.66	0.651	22.127	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1599/N1621	29.11	0.651	23.305	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1621/N1643	28.54	0.651	22.842	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N884/N906	2.19	0.651	-1.001	0.000	0.000	0.00	0.01	0.00	G	Cumple
N906/N1802	17.26	0.525	0.202	2.325	2.015	0.00	-1.04	-1.22	GV	Cumple
N1802/N928	22.33	0.126	1.031	-5.361	0.116	0.00	0.07	-2.81	GV	Cumple
N928/N950	14.24	0.651	11.177	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N950/N972	14.72	0.651	11.574	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N972/N994	16.19	0.651	12.774	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N994/N1016	16.33	0.651	12.882	0.000	0.000	0.00	0.01	0.00	GV	Cumple

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 20/12/24

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1038/N1060	15.98	0.651	12.598	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1060/N1082	16.62	0.651	13.123	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1082/N1104	16.01	0.651	12.625	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1104/N1126	13.95	0.651	10.944	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1126/N1148	10.50	0.651	8.134	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1170/N1192	7.85	0.651	5.972	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1192/N1214	8.77	0.651	6.716	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1214/N1236	8.64	0.651	6.617	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1236/N1258	7.43	0.651	5.630	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1258/N1280	5.98	0.651	4.446	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1302/N1324	6.08	0.651	4.522	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1324/N1346	7.29	0.651	5.511	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1346/N1368	8.64	0.651	6.612	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1368/N1390	8.93	0.651	6.847	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1390/N1412	8.35	0.651	6.376	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1434/N1456	10.95	0.651	8.497	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1456/N1478	14.69	0.651	11.545	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1478/N1500	17.31	0.651	13.688	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1500/N1522	18.54	0.651	14.687	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1522/N1542	19.53	0.651	15.498	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1558/N1576	24.71	0.651	19.720	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1576/N1598	27.91	0.651	22.327	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1598/N1620	30.36	0.651	24.325	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1620/N1642	31.62	0.651	25.352	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N883/N905	3.27	0.651	-1.646	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N905/N1801	19.33	0.525	0.463	2.670	2.168	0.00	-1.12	-1.40	GV	Cumple
N1801/N927	21.29	0.126	0.610	-5.015	0.235	0.00	0.14	-2.63	GV	Cumple
N927/N949	15.63	0.651	12.493	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N949/N971	15.03	0.651	11.826	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N971/N993	15.82	0.651	12.468	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N993/N1015	15.63	0.651	12.311	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1037/N1059	14.94	0.651	11.752	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1059/N1081	15.36	0.651	12.091	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1081/N1103	14.82	0.651	11.655	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1103/N1125	12.94	0.651	10.116	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1125/N1147	10.02	0.651	7.742	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1169/N1191	7.61	0.651	5.772	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1191/N1213	8.49	0.651	6.495	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1213/N1235	8.40	0.651	6.420	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1235/N1257	7.32	0.651	5.538	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1257/N1279	6.22	0.651	4.640	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1301/N1323	6.29	0.651	4.699	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1323/N1345	7.25	0.651	5.482	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1345/N1367	8.38	0.651	6.402	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1367/N1389	8.61	0.651	6.586	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1389/N1411	8.41	0.651	6.429	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1433/N1455	10.86	0.651	8.425	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1455/N1477	13.62	0.651	10.677	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1477/N1499	16.04	0.651	12.646	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1499/N1521	17.15	0.651	13.557	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1575/N1597	28.44	0.651	22.766	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1597/N1619	32.53	0.651	26.098	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1619/N1641	37.10	0.651	29.829	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N882/N904	3.86	0.651	-2.006	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N904/N1799	25.10	0.525	0.887	3.551	2.697	0.00	-1.39	-1.86	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1799/N926	23.18	0.126	4.686	5.005	-0.483	0.00	-0.23	2.63	GV	Cumple
N926/N948	15.46	0.651	12.351	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N948/N970	14.34	0.651	11.261	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N970/N992	14.58	0.651	11.454	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N992/N1014	14.15	0.651	11.111	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1036/N1058	13.51	0.651	10.585	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1058/N1080	14.12	0.651	11.080	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1080/N1102	13.61	0.651	10.665	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1102/N1124	11.97	0.651	9.326	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1124/N1146	9.32	0.651	7.169	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1168/N1190	7.43	0.651	5.625	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1190/N1212	8.26	0.651	6.307	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1212/N1234	8.30	0.651	6.334	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1234/N1256	7.28	0.651	5.505	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1256/N1278	6.48	0.651	4.849	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1300/N1322	6.51	0.651	4.873	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1322/N1344	7.44	0.651	5.633	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1344/N1366	8.26	0.651	6.307	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1366/N1388	8.36	0.651	6.387	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1388/N1410	8.36	0.651	6.381	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1432/N1454	10.42	0.651	8.063	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1454/N1476	12.54	0.651	9.795	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1476/N1498	14.64	0.651	11.507	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1498/N1520	15.73	0.651	12.393	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1574/N1596	26.39	0.651	21.091	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1596/N1618	30.74	0.651	24.640	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1618/N1640	36.01	0.651	28.933	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N881/N903	3.06	0.651	-1.523	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N903/N1798	28.73	0.525	-1.078	4.391	2.750	0.00	-1.42	-2.30	GV	Cumple
N1798/N925	22.43	0.126	4.140	5.290	-0.033	0.00	0.00	2.78	GV	Cumple
N925/N947	13.15	0.651	10.291	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N947/N969	12.58	0.651	9.826	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N969/N991	12.42	0.651	9.697	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N991/N1013	11.76	0.651	9.160	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1035/N1057	11.63	0.651	9.049	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1057/N1079	12.80	0.651	10.003	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1079/N1101	12.66	0.651	9.892	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1101/N1123	11.06	0.651	8.590	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1123/N1145	8.30	0.651	6.334	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1167/N1189	7.49	0.651	5.677	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1189/N1211	8.24	0.651	6.288	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1211/N1233	8.57	0.651	6.552	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1233/N1255	7.58	0.651	5.750	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1255/N1277	6.70	0.651	5.028	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1299/N1321	6.77	0.651	5.092	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1321/N1343	7.82	0.651	5.946	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1343/N1365	8.50	0.651	6.500	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1365/N1387	8.44	0.651	6.446	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1387/N1409	8.08	0.651	6.158	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1431/N1453	9.55	0.651	7.359	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1453/N1475	11.40	0.651	8.868	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1475/N1497	13.36	0.651	10.463	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1497/N1519	13.90	0.651	10.907	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1519/N1541	14.39	0.651	11.306	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1557/N1573	18.41	0.651	14.579	0.000	0.000	0.00	0.01	0.00	GV	Cumple

Listados
Coberta de 46'8x28'6 malla tetràedres
Fecha: 20/12/24

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1573/N1595	21.58	0.651	17.169	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1595/N1617	24.65	0.651	19.671	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1617/N1639	27.53	0.651	22.022	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N880/N902	2.03	0.651	-0.901	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N902/N1797	26.58	0.525	-1.446	4.731	1.846	0.00	-0.95	-2.48	GV	Cumple
N1797/N924	24.63	0.126	3.979	5.447	0.370	0.00	0.22	2.86	GV	Cumple
N924/N946	11.18	0.651	8.681	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N946/N968	11.02	0.651	8.552	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N968/N990	10.20	0.651	7.889	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N990/N1012	8.85	0.651	6.787	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1034/N1056	9.89	0.651	7.633	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1056/N1078	11.73	0.651	9.134	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1078/N1100	12.19	0.651	9.505	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1100/N1122	10.46	0.651	8.098	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1122/N1144	7.46	0.651	5.652	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1166/N1188	7.91	0.651	6.017	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1188/N1210	8.96	0.651	6.874	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1210/N1232	9.58	0.651	7.377	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1232/N1254	8.33	0.651	6.360	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1254/N1276	7.22	0.651	-4.024	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1298/N1320	8.43	0.651	-4.756	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1320/N1342	8.74	0.651	6.698	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1342/N1364	9.48	0.651	7.300	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1364/N1386	8.77	0.651	6.721	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1386/N1408	7.55	0.651	5.724	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1430/N1452	8.60	0.651	6.582	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1452/N1474	10.54	0.651	8.162	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1474/N1496	12.49	0.651	9.757	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1496/N1518	12.29	0.651	9.592	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1518/N1540	11.04	0.651	8.570	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1556/N1572	13.78	0.651	10.803	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1572/N1594	16.27	0.651	12.833	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1594/N1616	17.84	0.651	14.114	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1616/N1638	18.25	0.651	14.449	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N879/N901	1.58	0.651	0.853	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N901/N1796	24.47	0.525	-2.866	4.795	1.150	0.00	-0.58	-2.52	GV	Cumple
N1796/N923	24.26	0.126	4.005	5.419	0.308	0.00	0.18	2.84	GV	Cumple
N923/N945	10.70	0.651	8.292	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N945/N967	10.24	0.651	7.915	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N967/N989	8.54	0.651	6.534	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N989/N1011	5.59	0.651	4.125	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1033/N1055	10.22	0.651	7.904	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1055/N1077	11.70	0.651	9.109	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1077/N1099	12.36	0.651	9.645	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1099/N1121	10.49	0.651	8.122	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1121/N1143	8.35	0.651	-4.703	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1165/N1187	14.89	0.651	-8.644	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1187/N1209	11.68	0.651	-6.845	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1209/N1231	11.42	0.651	8.883	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1231/N1253	10.13	0.651	-5.911	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1253/N1275	11.72	0.651	-6.734	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1297/N1319	16.04	0.651	-9.334	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1319/N1341	11.55	0.651	-6.768	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1341/N1363	11.34	0.651	8.813	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1363/N1385	9.93	0.651	7.662	0.000	0.000	0.00	0.01	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1385/N1407	9.79	0.651	-5.570	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1429/N1451	11.30	0.651	-6.483	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1451/N1473	10.35	0.651	8.009	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1473/N1495	12.34	0.651	9.628	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1495/N1517	11.33	0.651	8.810	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1517/N1539	7.38	0.651	5.584	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1555/N1571	12.79	0.651	-7.518	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1571/N1593	12.48	0.651	-7.331	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1593/N1615	11.84	0.651	9.226	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1615/N1637	10.53	0.651	8.156	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N878/N900	1.67	0.651	0.928	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N900/N1800	24.25	0.525	-4.412	5.368	0.408	0.00	-0.19	-2.82	GV	Cumple
N1800/N922	26.43	0.126	2.955	5.835	-0.593	0.00	-0.29	3.06	GV	Cumple
N922/N944	12.31	0.651	-7.087	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N944/N966	9.14	0.651	7.020	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N966/N988	6.17	0.651	4.596	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N988/N1010	4.74	0.651	-2.533	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1032/N1054	19.96	0.651	-11.693	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1054/N1076	15.41	0.651	-9.096	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1076/N1098	14.31	0.651	-8.432	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1098/N1120	13.55	0.651	-7.973	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1120/N1142	16.52	0.651	-9.620	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1164/N1186	23.13	0.651	-13.598	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1186/N1208	16.49	0.651	-9.746	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1208/N1230	15.84	0.651	-9.352	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1230/N1252	15.38	0.651	-9.077	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1252/N1274	19.53	0.651	-11.435	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1296/N1318	23.87	0.651	-14.048	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1318/N1340	16.39	0.651	-9.684	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1340/N1362	15.33	0.651	-9.046	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1362/N1384	14.35	0.651	-8.453	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1384/N1406	17.27	0.651	-10.074	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1428/N1450	17.81	0.651	-10.399	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1450/N1472	10.48	0.651	-6.124	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1472/N1494	12.42	0.651	9.694	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1494/N1516	11.07	0.651	8.596	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1516/N1538	9.34	0.651	-5.304	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1554/N1570	17.57	0.651	-10.254	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1570/N1592	11.74	0.651	-6.880	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1592/N1614	6.95	0.651	5.239	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1614/N1636	5.28	0.651	3.875	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N877/N899	3.03	0.651	-1.506	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N899/N921	6.43	0.651	4.807	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N921/N943	14.59	0.651	-8.598	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N943/N965	9.02	0.651	-5.243	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N965/N987	4.93	0.651	-2.648	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N987/N1009	10.60	0.651	-6.060	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1031/N1053	24.66	0.651	-14.525	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1053/N1075	19.20	0.651	-11.377	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1075/N1097	17.37	0.651	-10.276	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1097/N1119	15.39	0.651	-8.940	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1119/N1141	17.11	0.651	-9.975	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1163/N1185	29.46	0.651	-17.411	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1185/N1207	22.27	0.651	-13.226	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1207/N1229	20.35	0.651	-12.073	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 20/12/24

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1229/N1251	18.18	0.651	-10.763	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1251/N1273	18.78	0.651	-10.980	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1295/N1317	31.64	0.651	-18.723	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1317/N1339	23.31	0.651	-13.852	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1339/N1361	20.54	0.651	-12.186	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1361/N1383	17.40	0.651	-10.293	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1383/N1405	16.59	0.651	-9.666	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1427/N1449	28.71	0.651	-16.960	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1449/N1471	17.20	0.651	-10.034	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1471/N1493	12.85	0.651	10.050	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1493/N1515	10.60	0.651	8.212	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1515/N1537	12.01	0.651	-6.909	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1553/N1569	24.68	0.651	-14.532	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1569/N1591	15.65	0.651	-9.097	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1591/N1613	7.27	0.651	-4.055	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1613/N1635	2.99	0.651	-1.477	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N898/N27	3.40	0.796	-0.574	0.000	0.000	0.00	0.00	0.00	G	Cumple
N898/N50	6.89	0.796	-1.327	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N897/N50	2.59	0.796	-0.400	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N897/N49	3.77	0.796	-0.697	0.000	0.000	0.00	0.00	0.00	GS	Cumple
N896/N49	11.53	0.796	-2.328	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N896/N48	4.04	0.796	1.766	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N895/N48	12.88	0.796	-2.619	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N895/N47	4.45	0.796	1.981	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N894/N47	13.94	0.796	-2.847	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N894/N46	3.91	0.796	1.695	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N893/N46	12.61	0.796	-2.560	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N893/N45	3.28	0.796	-0.615	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N892/N45	8.04	0.796	-1.575	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N892/N44	5.49	0.796	-1.025	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N891/N44	4.81	0.796	-0.878	0.000	0.000	0.00	0.00	0.00	G	Cumple
N891/N43	3.50	0.796	-0.596	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N890/N43	4.70	0.796	-0.855	0.000	0.000	0.00	0.00	0.00	G	Cumple
N890/N42	1.41	0.796	0.358	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N889/N42	6.18	0.796	-1.174	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N889/N41	2.08	0.796	0.719	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N888/N41	7.65	0.796	-1.491	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N888/N40	3.78	0.796	-0.655	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N887/N40	5.12	0.796	-0.946	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N887/N39	7.26	0.796	-1.406	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N886/N39	2.26	0.796	0.813	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N886/N38	6.09	0.796	-1.155	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N885/N38	1.67	0.796	-0.201	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N885/N37	4.70	0.796	-0.855	0.000	0.000	0.00	0.00	0.00	G	Cumple
N884/N37	4.25	0.796	-0.758	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N884/N36	4.81	0.796	-0.878	0.000	0.000	0.00	0.00	0.00	G	Cumple
N883/N36	5.51	0.796	-1.028	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N883/N35	7.20	0.796	-1.394	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N882/N35	3.30	0.796	-0.618	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N882/N34	11.85	0.796	-2.396	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N881/N34	3.60	0.796	1.530	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N881/N33	16.08	0.796	-3.309	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N880/N33	5.31	0.796	2.443	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N880/N32	16.79	0.796	-3.461	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N879/N32	5.60	0.796	2.596	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N879/N31	14.89	0.796	-3.052	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N878/N31	5.47	0.796	-1.020	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N878/N30	8.95	0.796	-1.772	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N877/N30	7.42	0.796	-1.440	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N877/N28	3.40	0.796	-0.574	0.000	0.000	0.00	0.00	0.00	G	Cumple
N898/N73	12.01	0.796	-2.511	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N898/N72	14.04	0.796	-2.885	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N897/N72	6.76	0.796	-1.376	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N897/N71	10.66	0.796	-2.156	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N896/N71	7.28	0.796	-1.490	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N896/N70	5.49	0.796	-1.041	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N895/N70	7.00	0.796	-1.367	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N895/N69	6.78	0.796	-1.381	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N894/N69	6.50	0.796	-1.257	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N894/N68	7.31	0.796	-1.496	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N893/N68	6.64	0.796	-1.288	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N893/N67	5.86	0.796	-1.182	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N892/N67	6.79	0.796	-1.382	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N892/N66	5.64	0.796	-1.072	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N891/N66	5.67	0.796	2.673	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N891/N65	8.19	0.796	-1.624	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N890/N65	6.55	0.796	-1.269	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N890/N64	7.22	0.796	-1.413	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N889/N64	5.42	0.796	-1.026	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N889/N63	5.93	0.796	-1.197	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N888/N63	2.70	0.796	1.088	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N888/N62	4.13	0.796	1.850	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N887/N62	4.15	0.796	1.860	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N887/N61	2.42	0.796	-0.377	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N886/N61	4.05	0.796	1.810	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N886/N60	4.73	0.796	-0.877	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N885/N60	4.18	0.796	-0.757	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N885/N59	5.01	0.796	-0.937	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N884/N59	4.16	0.796	-0.754	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N884/N58	4.39	0.796	-0.864	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N883/N58	1.88	0.796	0.645	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N883/N57	6.62	0.796	-1.346	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N882/N57	3.26	0.796	1.388	0.000	0.000	0.00	0.00	0.00	G	Cumple
N882/N56	6.54	0.796	-1.267	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N881/N56	3.33	0.796	1.423	0.000	0.000	0.00	0.00	0.00	G	Cumple
N881/N55	6.37	0.796	-1.231	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N880/N55	3.01	0.796	-0.565	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N880/N54	6.94	0.796	-1.353	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N879/N54	9.14	0.796	-1.829	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N879/N53	7.39	0.796	-1.512	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N878/N53	19.26	0.796	-4.012	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N878/N52	8.38	0.796	-1.726	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N877/N52	21.03	0.796	-4.393	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N877/N51	8.32	0.796	4.091	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N920/N73	14.75	0.796	-3.022	0.000	0.000	0.00	0.00	0.00	G	Cumple
N920/N72	12.59	0.796	-2.556	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N919/N72	6.97	0.796	-1.344	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N919/N71	10.71	0.796	-2.150	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N918/N71	17.13	0.796	-3.536	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N918/N70	6.42	0.796	3.039	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N917/N70	17.73	0.796	-3.665	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N917/N69	4.83	0.796	2.188	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N916/N69	21.17	0.796	-4.406	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N916/N68	5.21	0.796	2.389	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N915/N68	26.69	0.796	-5.596	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N915/N67	13.15	0.796	-2.677	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N914/N67	22.92	0.796	-4.784	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N914/N66	16.50	0.796	-3.399	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N913/N66	7.31	0.796	-1.418	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N913/N65	8.26	0.796	-1.622	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N912/N65	7.19	0.796	-1.391	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N912/N64	3.31	0.796	-0.555	0.000	0.000	0.00	0.00	0.00	G	Cumple
N911/N64	12.32	0.796	-2.498	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N911/N63	3.91	0.796	1.693	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N910/N63	19.77	0.796	-4.104	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N910/N62	15.86	0.796	-3.260	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N909/N62	17.34	0.796	-3.580	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N909/N61	19.74	0.796	-4.098	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N908/N61	3.94	0.796	-0.758	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N908/N60	11.41	0.796	-2.300	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N907/N60	3.31	0.796	-0.555	0.000	0.000	0.00	0.00	0.00	G	Cumple
N907/N59	6.68	0.796	-1.282	0.000	0.000	0.00	0.00	0.00	G	Cumple
N906/N59	8.28	0.796	-1.626	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N906/N58	5.00	0.796	-0.920	0.000	0.000	0.00	0.00	0.00	G	Cumple
N905/N58	16.52	0.796	-3.403	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N905/N57	16.70	0.796	-3.443	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N904/N57	13.24	0.796	-2.696	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N904/N56	26.05	0.796	-5.458	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N903/N56	3.44	0.796	1.443	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N903/N55	24.61	0.796	-5.149	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N902/N55	5.92	0.796	2.768	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N902/N54	23.35	0.796	-4.876	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N901/N54	7.81	0.796	3.781	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N901/N53	22.28	0.796	-4.647	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N900/N53	14.45	0.796	-2.958	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N900/N52	10.06	0.796	-2.011	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N899/N52	12.48	0.796	-2.532	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N899/N51	23.73	0.796	-4.957	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N920/N96	26.37	0.796	-5.547	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N920/N95	17.50	0.796	-3.632	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N919/N95	23.07	0.796	-4.833	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N919/N94	6.41	0.796	-1.239	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N918/N94	25.08	0.796	-5.267	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N918/N93	8.17	0.796	-1.681	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N917/N93	23.95	0.796	-5.024	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N917/N92	13.45	0.796	-2.822	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N916/N92	26.50	0.796	-5.573	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N916/N91	18.30	0.796	-3.873	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N915/N91	32.21	0.796	-6.807	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N915/N90	21.03	0.796	-4.462	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N914/N90	30.37	0.796	-6.409	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N914/N89	27.40	0.796	-5.769	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N913/N89	28.35	0.796	-6.044	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N913/N88	22.28	0.796	-4.733	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N912/N88	26.64	0.796	-5.605	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N912/N87	20.40	0.796	-4.327	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N911/N87	29.07	0.796	-6.128	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N911/N86	22.20	0.796	-4.714	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N910/N86	33.48	0.796	-7.079	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N910/N85	24.17	0.796	-5.141	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N909/N85	28.41	0.796	-6.057	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N909/N84	32.38	0.796	-6.842	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N908/N84	25.37	0.796	-5.401	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N908/N83	28.38	0.796	-5.980	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N907/N83	22.42	0.796	-4.763	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N907/N82	24.91	0.796	-5.231	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N906/N82	23.16	0.796	-4.923	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N906/N81	24.44	0.796	-5.198	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N905/N81	27.56	0.796	-5.803	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N905/N80	27.10	0.796	-5.704	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N904/N80	22.92	0.796	-4.871	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N904/N79	30.30	0.796	-6.393	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N903/N79	19.11	0.796	-4.047	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N903/N78	23.82	0.796	-4.995	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N902/N78	13.78	0.796	-2.894	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N902/N77	19.99	0.796	-4.169	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N901/N77	11.04	0.796	-2.302	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N901/N76	16.48	0.796	-3.412	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N900/N76	12.85	0.796	-2.628	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N900/N75	27.28	0.796	-5.742	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N899/N75	9.32	0.796	-1.868	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N899/N74	27.04	0.796	-5.691	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N942/N96	24.96	0.796	-5.302	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N942/N95	16.57	0.796	-3.413	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N941/N95	34.29	0.796	-7.318	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N941/N94	24.89	0.796	-5.209	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N940/N94	20.87	0.796	-4.416	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N940/N93	12.69	0.796	-2.577	0.000	0.000	0.00	0.00	0.00	G	Cumple
N939/N93	14.23	0.796	-2.982	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N939/N92	12.68	0.796	-2.575	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N938/N92	13.45	0.796	-2.742	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N938/N91	16.09	0.796	-3.310	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N937/N91	16.13	0.796	-3.319	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N937/N90	20.62	0.796	-4.288	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N936/N90	16.25	0.796	-3.345	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N936/N89	20.56	0.796	-4.274	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N935/N89	12.11	0.796	6.076	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N935/N88	14.59	0.796	-2.987	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N934/N88	11.56	0.796	-2.334	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N934/N87	11.16	0.796	-2.249	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N933/N87	15.02	0.796	-3.079	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N933/N86	11.31	0.796	-2.280	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N932/N86	19.03	0.796	-3.944	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N932/N85	16.09	0.796	-3.311	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N931/N85	19.12	0.796	-3.964	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N931/N84	16.81	0.796	-3.466	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N930/N84	11.60	0.796	-2.342	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N930/N83	9.85	0.796	-1.966	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N929/N83	11.87	0.796	-2.400	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N929/N82	8.76	0.796	4.289	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N928/N82	13.91	0.796	-2.840	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N928/N81	11.43	0.796	5.714	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N927/N81	20.13	0.796	-4.181	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N927/N80	13.12	0.796	6.615	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N926/N80	19.73	0.796	-4.095	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N926/N79	11.80	0.796	5.909	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N925/N79	15.45	0.796	-3.173	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N925/N78	9.58	0.796	4.723	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N924/N78	12.23	0.796	-2.479	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N924/N77	7.90	0.796	3.825	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N923/N77	14.59	0.796	-2.988	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N923/N76	7.11	0.796	3.404	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N922/N76	23.20	0.796	-4.843	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N922/N75	11.46	0.796	-2.382	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N921/N75	17.53	0.796	-3.621	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N921/N74	20.82	0.796	-4.406	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N942/N119	7.76	0.796	3.789	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N942/N118	37.72	0.796	-7.995	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N941/N118	15.91	0.796	-3.289	0.000	0.000	0.00	0.00	0.00	G	Cumple
N941/N117	80.22	0.796	-17.165	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N940/N117	24.29	0.796	-5.098	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N940/N116	69.14	0.796	-14.775	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N939/N116	27.88	0.796	-5.871	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N939/N115	61.08	0.796	-13.035	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N938/N115	26.54	0.796	-5.582	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N938/N114	57.07	0.796	-12.171	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N937/N114	30.00	0.796	-6.329	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N937/N113	59.85	0.796	-12.770	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N936/N113	32.70	0.796	-6.911	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N936/N112	68.11	0.796	-14.551	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N935/N112	38.62	0.796	-8.190	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N935/N111	63.42	0.796	-13.540	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N934/N111	43.34	0.796	-9.209	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N934/N110	59.62	0.796	-12.721	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N933/N110	46.09	0.796	-9.801	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N933/N109	56.99	0.796	-12.154	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N932/N109	48.74	0.796	-10.373	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N932/N108	59.40	0.796	-12.673	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N931/N108	43.31	0.796	-9.201	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N931/N107	66.04	0.796	-14.105	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N930/N107	40.84	0.796	-8.669	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N930/N106	60.21	0.796	-12.847	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N929/N106	41.56	0.796	-8.823	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N929/N105	53.87	0.796	-11.479	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N928/N105	42.09	0.796	-8.938	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N928/N104	47.49	0.796	-10.102	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N927/N104	43.86	0.796	-9.320	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N927/N103	45.17	0.796	-9.602	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N926/N103	37.64	0.796	-7.978	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N926/N102	47.99	0.796	-10.210	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N925/N102	35.35	0.796	-7.483	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N925/N101	38.37	0.796	-8.135	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N924/N101	36.35	0.796	-7.700	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N924/N100	29.66	0.796	-6.256	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N923/N100	37.52	0.796	-7.952	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N923/N99	23.41	0.796	-4.908	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N922/N99	38.40	0.796	-8.141	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N922/N98	32.44	0.796	-6.855	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N921/N98	14.80	0.796	-3.050	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N921/N97	30.78	0.796	-6.497	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N964/N119	14.85	0.796	-3.043	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N964/N118	32.01	0.796	-6.743	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N963/N118	21.65	0.796	-4.586	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N963/N117	37.27	0.796	-7.961	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N962/N117	34.28	0.796	-7.316	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N962/N116	34.53	0.796	-7.287	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N961/N116	43.33	0.796	-9.272	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N961/N115	35.93	0.796	-7.673	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N960/N115	48.83	0.796	-10.460	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N960/N114	40.19	0.796	-8.593	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N959/N114	50.96	0.796	-10.921	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N959/N113	42.84	0.796	-9.166	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N958/N113	49.28	0.796	-10.559	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N958/N112	39.84	0.796	-8.518	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N957/N112	46.91	0.796	-10.047	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N957/N111	34.99	0.796	-7.468	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N956/N111	46.29	0.796	-9.913	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N956/N110	33.47	0.796	-7.142	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N955/N110	46.42	0.796	-9.940	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N955/N109	34.98	0.796	-7.468	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N954/N109	46.63	0.796	-9.985	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N954/N108	36.85	0.796	-7.871	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N953/N108	44.37	0.796	-9.498	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N953/N107	34.98	0.796	-7.467	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N952/N107	41.49	0.796	-8.874	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N952/N106	30.78	0.796	-6.559	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N951/N106	40.23	0.796	-8.602	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N951/N105	28.99	0.796	-6.172	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N950/N105	39.65	0.796	-8.476	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N950/N104	29.96	0.796	-6.382	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N949/N104	39.05	0.796	-8.346	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N949/N103	31.49	0.796	-6.713	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N948/N103	36.56	0.796	-7.809	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N948/N102	29.19	0.796	-6.216	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N947/N102	32.83	0.796	-7.003	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N947/N101	25.43	0.796	-5.403	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N946/N101	28.62	0.796	-6.093	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N946/N100	21.40	0.796	-4.531	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N945/N100	26.28	0.796	-5.509	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N945/N99	19.76	0.796	-4.176	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N944/N99	25.86	0.796	-5.495	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N944/N98	21.24	0.796	-4.498	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N943/N98	22.22	0.796	-4.633	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N943/N97	23.45	0.796	-4.899	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N964/N142	6.69	0.796	-1.339	0.000	0.000	0.00	0.00	0.00	GS	Cumple
N964/N141	44.58	0.796	-9.475	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N963/N141	15.57	0.796	-3.215	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N963/N140	60.02	0.796	-12.806	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N962/N140	23.64	0.796	-4.957	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N962/N139	60.49	0.796	-12.909	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N961/N139	26.79	0.796	-5.637	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N961/N138	57.46	0.796	-12.255	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N960/N138	26.62	0.796	-5.600	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N960/N137	55.21	0.796	-11.769	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N959/N137	27.35	0.796	-5.757	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N959/N136	55.13	0.796	-11.751	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N958/N136	32.27	0.796	-6.819	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N958/N135	56.59	0.796	-12.067	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N957/N135	36.74	0.796	-7.784	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N957/N134	56.72	0.796	-12.095	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N956/N134	39.51	0.796	-8.382	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N956/N133	55.78	0.796	-11.891	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N955/N133	40.46	0.796	-8.586	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N955/N132	55.04	0.796	-11.732	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N954/N132	39.99	0.796	-8.485	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N954/N131	54.97	0.796	-11.716	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N953/N131	38.75	0.796	-8.217	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N953/N130	55.36	0.796	-11.802	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N952/N130	37.99	0.796	-8.052	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N952/N129	53.99	0.796	-11.506	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N951/N129	37.25	0.796	-7.893	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N951/N128	50.74	0.796	-10.804	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N950/N128	36.19	0.796	-7.666	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N950/N127	46.79	0.796	-9.952	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N949/N127	34.72	0.796	-7.348	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N949/N126	43.14	0.796	-9.164	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N948/N126	33.02	0.796	-6.981	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N948/N125	39.88	0.796	-8.461	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N947/N125	32.23	0.796	-6.809	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N947/N124	35.62	0.796	-7.542	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N946/N124	31.42	0.796	-6.635	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N946/N123	31.18	0.796	-6.584	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N945/N123	29.40	0.796	-6.200	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N945/N122	27.80	0.796	-5.855	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N944/N122	24.93	0.796	-5.236	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N944/N121	29.15	0.796	-6.147	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N943/N121	15.12	0.796	-3.119	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N943/N120	26.55	0.796	-5.584	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N986/N142	15.08	0.796	-3.093	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N986/N141	31.82	0.796	-6.703	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N985/N141	23.01	0.796	-4.880	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N985/N140	37.40	0.796	-7.907	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N984/N140	36.30	0.796	-7.753	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N984/N139	37.71	0.796	-7.973	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N983/N139	42.71	0.796	-9.138	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N983/N138	37.73	0.796	-7.977	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N982/N138	46.85	0.796	-10.032	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N982/N137	38.64	0.796	-8.175	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N981/N137	48.37	0.796	-10.362	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N981/N136	39.09	0.796	-8.271	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N980/N136	48.09	0.796	-10.302	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N980/N135	37.85	0.796	-8.087	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N979/N135	47.12	0.796	-10.091	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N979/N134	35.92	0.796	-7.671	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N978/N134	46.16	0.796	-9.884	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N978/N133	34.62	0.796	-7.389	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N977/N133	45.53	0.796	-9.747	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N977/N132	34.45	0.796	-7.353	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N976/N132	44.73	0.796	-9.574	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N976/N131	34.44	0.796	-7.350	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N975/N131	43.32	0.796	-9.269	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N975/N130	33.41	0.796	-7.129	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N974/N130	41.70	0.796	-8.920	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N974/N129	31.44	0.796	-6.702	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N973/N129	40.30	0.796	-8.618	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N973/N128	29.85	0.796	-6.357	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N972/N128	39.17	0.796	-8.374	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N972/N127	29.24	0.796	-6.227	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N971/N127	37.73	0.796	-8.061	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N971/N126	28.73	0.796	-6.115	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N970/N126	36.16	0.796	-7.639	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N970/N125	26.96	0.796	-5.734	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N969/N125	35.15	0.796	-7.421	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N969/N124	24.23	0.796	-5.144	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N968/N124	32.57	0.796	-6.864	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N968/N123	21.60	0.796	-4.574	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N967/N123	30.47	0.796	-6.413	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N967/N122	19.89	0.796	-4.204	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N966/N122	27.85	0.796	-5.846	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N966/N121	20.32	0.796	-4.298	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N965/N121	23.11	0.796	-4.824	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N965/N120	22.21	0.796	-4.631	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N986/N165	6.84	0.796	-1.333	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N986/N164	39.85	0.796	-8.531	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N985/N164	20.59	0.796	-4.298	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N985/N163	49.33	0.796	-10.582	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N984/N163	25.32	0.796	-5.320	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N984/N162	51.53	0.796	-10.974	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N983/N162	28.08	0.796	-5.914	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N983/N161	51.83	0.796	-11.039	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N982/N161	28.80	0.796	-6.071	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N982/N160	50.96	0.796	-10.851	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N981/N160	29.89	0.796	-6.305	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N981/N159	49.92	0.796	-10.627	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N980/N159	32.58	0.796	-6.886	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N980/N158	49.85	0.796	-10.612	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N979/N158	35.58	0.796	-7.533	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N979/N157	50.35	0.796	-10.719	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N978/N157	36.68	0.796	-7.770	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N978/N156	50.72	0.796	-10.801	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N977/N156	36.19	0.796	-7.664	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N977/N155	50.72	0.796	-10.800	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N976/N155	35.00	0.796	-7.408	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N976/N154	50.25	0.796	-10.699	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N975/N154	34.07	0.796	-7.207	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N975/N153	49.98	0.796	-10.640	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N974/N153	33.32	0.796	-7.045	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N974/N152	49.63	0.796	-10.565	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N973/N152	31.90	0.796	-6.739	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N973/N151	48.30	0.796	-10.279	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Listados
Coberta de 46'8x28'6 malla tetràedres
Fecha: 20/12/24

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N972/N151	29.95	0.796	-6.319	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N972/N150	45.68	0.796	-9.713	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N971/N150	28.21	0.796	-5.943	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N971/N149	41.90	0.796	-8.897	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N970/N149	27.33	0.796	-5.752	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N970/N148	37.88	0.796	-8.029	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N969/N148	26.89	0.796	-5.659	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N969/N147	34.64	0.796	-7.331	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N968/N147	25.13	0.796	-5.279	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N968/N146	31.34	0.796	-6.619	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N967/N146	21.19	0.796	-4.427	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N967/N145	28.85	0.796	-6.082	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N966/N145	15.98	0.796	-3.371	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N966/N144	28.40	0.796	-5.983	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N965/N144	11.82	0.796	5.962	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N965/N143	24.79	0.796	-5.204	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1008/N165	15.93	0.796	-3.277	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1008/N164	33.38	0.796	-7.039	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1007/N164	23.14	0.796	-4.907	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1007/N163	41.67	0.796	-8.828	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1006/N163	36.65	0.796	-7.828	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1006/N162	42.56	0.796	-9.020	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1005/N162	42.82	0.796	-9.162	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1005/N161	41.41	0.796	-8.771	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1004/N161	45.79	0.796	-9.804	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1004/N160	41.34	0.796	-8.757	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1003/N160	46.80	0.796	-10.021	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1003/N159	41.62	0.796	-8.817	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1002/N159	46.93	0.796	-10.051	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1002/N158	39.73	0.796	-8.409	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1001/N158	46.61	0.796	-9.982	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1001/N157	37.88	0.796	-8.011	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1000/N157	45.91	0.796	-9.829	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1000/N156	35.73	0.796	-7.629	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N999/N156	45.06	0.796	-9.646	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N999/N155	34.43	0.796	-7.349	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N998/N155	44.13	0.796	-9.444	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N998/N154	33.64	0.796	-7.177	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N997/N154	43.40	0.796	-9.287	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N997/N153	32.75	0.796	-6.986	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N996/N153	42.63	0.796	-9.121	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N996/N152	31.44	0.796	-6.701	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N995/N152	42.46	0.796	-9.085	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N995/N151	29.85	0.796	-6.357	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N994/N151	43.34	0.796	-9.186	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N994/N150	28.39	0.796	-6.042	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N993/N150	44.12	0.796	-9.355	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N993/N149	27.04	0.796	-5.750	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N992/N149	44.33	0.796	-9.400	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N992/N148	25.30	0.796	-5.375	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N991/N148	43.64	0.796	-9.253	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N991/N147	22.74	0.796	-4.821	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N990/N147	41.92	0.796	-8.881	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N990/N146	20.05	0.796	-4.240	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N989/N146	38.53	0.796	-8.151	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N989/N145	18.93	0.796	-3.997	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N988/N145	34.77	0.796	-7.340	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N988/N144	19.42	0.796	-4.104	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N987/N144	26.52	0.796	-5.561	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N987/N143	21.55	0.796	-4.487	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1008/N188	16.37	0.796	-3.389	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1008/N187	38.65	0.796	-8.273	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1007/N187	27.09	0.796	-5.700	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1007/N186	47.86	0.796	-10.264	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1006/N186	28.34	0.796	-5.970	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1006/N185	47.95	0.796	-10.283	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1005/N185	32.27	0.796	-6.819	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1005/N184	48.79	0.796	-10.466	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1004/N184	34.14	0.796	-7.223	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1004/N183	48.94	0.796	-10.497	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1003/N183	34.69	0.796	-7.341	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1003/N182	48.36	0.796	-10.372	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1002/N182	35.79	0.796	-7.580	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1002/N181	47.67	0.796	-10.222	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1001/N181	36.59	0.796	-7.751	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1001/N180	47.35	0.796	-10.073	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1000/N180	35.89	0.796	-7.600	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1000/N179	47.09	0.796	-10.018	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N999/N179	34.05	0.796	-7.204	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N999/N178	46.61	0.796	-9.914	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N998/N178	31.73	0.796	-6.703	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N998/N177	46.44	0.796	-9.876	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N997/N177	29.71	0.796	-6.266	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N997/N176	46.50	0.796	-9.889	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N996/N176	27.82	0.796	-5.859	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N996/N175	47.39	0.796	-10.082	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N995/N175	25.85	0.796	-5.433	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N995/N174	47.59	0.796	-10.124	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N994/N174	23.50	0.796	-4.927	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N994/N173	46.52	0.796	-9.894	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N993/N173	21.81	0.796	-4.630	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N993/N172	43.98	0.796	-9.346	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N992/N172	21.22	0.796	-4.504	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N992/N171	40.41	0.796	-8.576	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N991/N171	20.86	0.796	-4.425	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N991/N170	35.99	0.796	-7.622	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N990/N170	19.39	0.796	-4.108	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N990/N169	32.26	0.796	-6.816	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N989/N169	15.35	0.796	-3.235	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N989/N168	29.01	0.796	-6.115	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N988/N168	16.66	0.796	8.548	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N988/N167	29.58	0.796	-6.239	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N987/N167	14.58	0.796	7.437	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N987/N166	27.22	0.796	-5.730	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1030/N188	12.37	0.796	-2.508	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1030/N187	32.88	0.796	-6.933	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1029/N187	25.10	0.796	-5.253	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1029/N186	59.43	0.796	-12.658	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1028/N186	39.04	0.796	-8.345	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1028/N185	53.32	0.796	-11.340	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Listados
Coberta de 46'8x28'6 malla tetràedres
Fecha: 20/12/24

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1027/N185	44.63	0.796	-9.554	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1027/N184	50.51	0.796	-10.733	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1026/N184	46.06	0.796	-9.862	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1026/N183	52.10	0.796	-11.076	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1025/N183	46.23	0.796	-9.899	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1025/N182	52.93	0.796	-11.255	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1024/N182	46.30	0.796	-9.914	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1024/N181	50.90	0.796	-10.818	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1023/N181	46.18	0.796	-9.888	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1023/N180	47.79	0.796	-10.148	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1022/N180	45.67	0.796	-9.778	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1022/N179	43.92	0.796	-9.312	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1021/N179	44.87	0.796	-9.605	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1021/N178	40.01	0.796	-8.469	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1020/N178	45.67	0.796	-9.777	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1020/N177	36.75	0.796	-7.850	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1019/N177	47.09	0.796	-10.084	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1019/N176	33.42	0.796	-7.130	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1018/N176	48.73	0.796	-10.350	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1018/N175	31.18	0.796	-6.645	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1017/N175	50.98	0.796	-10.835	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1017/N174	29.39	0.796	-6.259	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1016/N174	53.41	0.796	-11.360	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1016/N173	27.44	0.796	-5.837	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1015/N173	55.63	0.796	-11.837	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1015/N172	25.56	0.796	-5.430	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1014/N172	57.32	0.796	-12.203	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1014/N171	23.42	0.796	-4.968	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1013/N171	58.23	0.796	-12.398	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1013/N170	22.10	0.796	11.413	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1012/N170	58.63	0.796	-12.485	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1012/N169	21.69	0.796	11.198	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1011/N169	59.18	0.796	-12.604	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1011/N168	18.73	0.796	9.617	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1010/N168	59.72	0.796	-12.720	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1010/N167	24.81	0.796	-5.191	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1009/N167	31.95	0.796	-6.731	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1009/N166	18.46	0.796	-3.821	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1030/N211	33.37	0.796	-7.056	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1030/N210	11.90	0.796	-2.487	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1029/N210	38.77	0.796	-8.222	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1029/N209	25.59	0.796	-5.378	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1028/N209	21.72	0.796	-4.612	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1028/N208	27.10	0.796	-5.704	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1027/N208	15.54	0.796	7.949	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1027/N207	32.88	0.796	-6.950	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1026/N207	12.92	0.796	6.545	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1026/N206	32.28	0.796	-6.822	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1025/N206	11.41	0.796	5.738	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1025/N205	29.73	0.796	-6.271	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1024/N205	10.70	0.796	-2.165	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1024/N204	27.40	0.796	-5.769	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1023/N204	11.86	0.796	-2.416	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1023/N203	25.82	0.796	-5.428	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1022/N203	12.81	0.796	-2.620	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1022/N202	24.59	0.796	-5.163	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1021/N202	13.67	0.796	-2.805	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1021/N201	23.31	0.796	-4.886	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1020/N201	14.30	0.796	-2.942	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1020/N200	22.28	0.796	-4.664	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1019/N200	14.44	0.796	-2.973	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1019/N199	21.45	0.796	-4.485	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1018/N199	14.96	0.796	-3.084	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1018/N198	20.18	0.796	-4.209	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1017/N198	15.46	0.796	-3.191	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1017/N197	18.76	0.796	-3.904	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1016/N197	15.79	0.796	-3.264	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1016/N196	17.28	0.796	-3.585	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1015/N196	16.46	0.796	-3.407	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1015/N195	15.34	0.796	-3.165	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1014/N195	17.87	0.796	-3.713	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1014/N194	13.09	0.796	-2.746	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1013/N194	20.05	0.796	-4.183	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1013/N193	10.61	0.796	-2.209	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1012/N193	22.90	0.796	-4.797	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1012/N192	9.39	0.796	4.662	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1011/N192	26.39	0.796	-5.550	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1011/N191	11.34	0.796	-2.367	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1010/N191	27.08	0.796	-5.699	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1010/N190	34.67	0.796	-7.337	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1009/N190	14.92	0.796	-3.141	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1009/N189	32.79	0.796	-6.931	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1052/N211	34.92	0.796	-7.454	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1052/N210	12.04	0.796	-2.509	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1051/N210	51.68	0.796	-10.985	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1051/N209	29.95	0.796	-6.300	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1050/N209	30.96	0.796	-6.598	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1050/N208	27.31	0.796	-5.730	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1049/N208	24.27	0.796	-5.151	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1049/N207	26.64	0.796	-5.587	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1048/N207	22.09	0.796	-4.681	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1048/N206	28.30	0.796	-5.943	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1047/N206	21.36	0.796	-4.523	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1047/N205	28.41	0.796	-5.967	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1046/N205	21.17	0.796	-4.483	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1046/N204	26.32	0.796	-5.517	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1045/N204	21.05	0.796	-4.456	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1045/N203	23.99	0.796	-5.014	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1044/N203	20.78	0.796	-4.397	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1044/N202	21.40	0.796	-4.457	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1043/N202	20.47	0.796	-4.330	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1043/N201	19.03	0.796	-3.945	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1042/N201	20.94	0.796	-4.431	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1042/N200	17.56	0.796	-3.628	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1041/N200	21.31	0.796	-4.437	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1041/N199	16.13	0.796	-3.393	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1040/N199	21.93	0.796	-4.571	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1040/N198	15.35	0.796	-3.225	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1039/N198	23.30	0.796	-4.866	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1039/N197	14.24	0.796	-2.984	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Listados
Coberta de 46'8x28'6 malla tetràedres
Fecha: 20/12/24

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1038/N197	24.77	0.796	-5.183	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1038/N196	13.12	0.796	-2.741	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1037/N196	26.63	0.796	-5.584	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1037/N195	12.24	0.796	-2.552	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1036/N195	28.72	0.796	-6.033	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1036/N194	11.20	0.796	-2.327	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1035/N194	28.60	0.796	-6.009	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1035/N193	11.70	0.796	5.860	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1034/N193	31.22	0.796	-6.573	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1034/N192	12.08	0.796	6.063	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1033/N192	38.62	0.796	-8.170	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1033/N191	13.24	0.796	6.679	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1032/N191	44.15	0.796	-9.362	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1032/N190	22.96	0.796	-4.792	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1031/N190	17.35	0.796	-3.657	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1031/N189	24.65	0.796	-5.233	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1052/N234	9.17	0.796	4.544	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1052/N233	43.19	0.796	-9.175	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1051/N233	14.16	0.796	-2.911	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1051/N232	96.11	0.796	-20.594	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1050/N232	22.01	0.796	11.403	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1050/N231	87.87	0.796	-18.817	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1049/N231	26.53	0.796	13.820	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1049/N230	77.62	0.796	-16.604	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1048/N230	25.92	0.796	13.495	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1048/N229	70.93	0.796	-15.161	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1047/N229	24.01	0.796	12.475	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1047/N228	65.78	0.796	-14.050	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1046/N228	21.87	0.796	11.332	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1046/N227	60.88	0.796	-12.993	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1045/N227	19.67	0.796	10.154	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1045/N226	55.84	0.796	-11.906	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1044/N226	18.27	0.796	-3.865	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1044/N225	50.54	0.796	-10.761	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1043/N225	19.13	0.796	-4.051	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1043/N224	45.02	0.796	-9.570	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1042/N224	23.45	0.796	-4.916	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1042/N223	39.66	0.796	-8.414	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1041/N223	27.32	0.796	-5.751	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1041/N222	33.93	0.796	-7.177	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1040/N222	31.14	0.796	-6.574	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1040/N221	28.53	0.796	-6.085	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1039/N221	35.01	0.796	-7.409	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1039/N220	25.99	0.796	-5.536	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1038/N220	38.78	0.796	-8.225	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1038/N219	24.01	0.796	-5.107	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1037/N219	42.63	0.796	-9.054	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1037/N218	21.54	0.796	-4.572	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1036/N218	46.67	0.796	-9.927	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1036/N217	18.36	0.796	-3.885	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1035/N217	51.05	0.796	-10.872	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1035/N216	17.60	0.796	9.050	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1034/N216	56.44	0.796	-12.034	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1034/N215	17.39	0.796	8.938	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1033/N215	66.41	0.796	-14.185	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1033/N214	13.32	0.796	6.759	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1032/N214	72.51	0.796	-15.502	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1032/N213	22.50	0.796	-4.712	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1031/N213	30.85	0.796	-6.513	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1031/N212	9.14	0.796	4.526	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1074/N234	19.89	0.796	-4.131	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1074/N233	21.25	0.796	10.963	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1073/N233	20.70	0.796	-4.304	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1073/N232	24.76	0.796	12.836	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1072/N232	27.22	0.796	-5.710	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1072/N231	23.80	0.796	-5.050	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1071/N231	36.85	0.796	-7.788	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1071/N230	25.63	0.796	-5.445	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1070/N230	42.87	0.796	-9.086	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1070/N229	27.48	0.796	-5.846	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1069/N229	44.28	0.796	-9.390	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1069/N228	27.99	0.796	-5.957	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1068/N228	43.11	0.796	-9.138	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1068/N227	27.34	0.796	-5.815	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1067/N227	40.89	0.796	-8.659	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1067/N226	26.62	0.796	-5.661	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1066/N226	38.20	0.796	-8.079	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1066/N225	25.60	0.796	-5.440	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1065/N225	35.57	0.796	-7.513	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1065/N224	24.60	0.796	-5.223	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1064/N224	33.00	0.796	-6.958	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1064/N223	24.07	0.796	-5.032	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1063/N223	31.34	0.796	-6.599	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1063/N222	23.84	0.796	-4.982	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1062/N222	29.75	0.796	-6.336	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1062/N221	23.79	0.796	-4.972	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1061/N221	28.19	0.796	-5.999	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1061/N220	24.55	0.796	-5.136	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1060/N220	26.40	0.796	-5.612	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1060/N219	25.39	0.796	-5.316	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1059/N219	24.30	0.796	-5.160	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1059/N218	25.77	0.796	-5.399	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1058/N218	22.57	0.796	-4.784	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1058/N217	25.17	0.796	-5.269	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1057/N217	21.17	0.796	-4.483	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1057/N216	22.58	0.796	-4.711	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1056/N216	18.66	0.796	-3.939	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1056/N215	17.64	0.796	-3.645	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1055/N215	16.31	0.796	-3.430	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1055/N214	12.48	0.796	-2.532	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1054/N214	15.89	0.796	8.096	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1054/N213	12.95	0.796	-2.634	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1053/N213	14.94	0.796	7.587	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1053/N212	19.81	0.796	-4.113	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1074/N257	4.30	0.796	1.939	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1074/N256	44.08	0.796	-9.366	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1073/N256	9.18	0.796	4.550	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1073/N255	59.82	0.796	-12.763	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1072/N255	15.80	0.796	8.089	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1072/N254	63.51	0.796	-13.560	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1071/N254	19.73	0.796	10.188	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1071/N253	60.06	0.796	-12.815	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1070/N253	20.74	0.796	10.725	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1070/N252	55.48	0.796	-11.826	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1069/N252	20.09	0.796	10.379	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1069/N251	51.44	0.796	-10.956	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1068/N251	18.85	0.796	9.717	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1068/N250	47.89	0.796	-10.189	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1067/N250	19.38	0.796	-4.105	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1067/N249	44.55	0.796	-9.468	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1066/N249	19.22	0.796	-4.071	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1066/N248	41.23	0.796	-8.751	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1065/N248	19.12	0.796	-4.049	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1065/N247	37.82	0.796	-8.016	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1064/N247	21.10	0.796	-4.408	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1064/N246	34.27	0.796	-7.250	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1063/N246	23.14	0.796	-4.850	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1063/N245	30.54	0.796	-6.445	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1062/N245	25.08	0.796	-5.268	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1062/N244	27.87	0.796	-5.941	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1061/N244	26.97	0.796	-5.675	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1061/N243	25.92	0.796	-5.520	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1060/N243	28.92	0.796	-6.095	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1060/N242	24.17	0.796	-5.141	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1059/N242	31.13	0.796	-6.573	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1059/N241	22.06	0.796	-4.684	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1058/N241	33.69	0.796	-7.126	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1058/N240	19.52	0.796	-4.135	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1057/N240	36.51	0.796	-7.735	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1057/N239	16.64	0.796	-3.512	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1056/N239	39.27	0.796	-8.330	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1056/N238	13.91	0.796	-2.923	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1055/N238	40.58	0.796	-8.613	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1055/N237	12.23	0.796	-2.560	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1054/N237	36.17	0.796	-7.661	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1054/N236	11.87	0.796	-2.480	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1053/N236	25.92	0.796	-5.450	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1053/N235	11.32	0.796	-2.299	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1096/N257	7.83	0.796	-1.530	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1096/N256	16.31	0.796	-3.432	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1095/N256	19.10	0.796	-3.961	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1095/N255	21.01	0.796	-4.447	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1094/N255	26.74	0.796	-5.686	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1094/N254	22.91	0.796	-4.782	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1093/N254	31.96	0.796	-6.814	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1093/N253	25.53	0.796	-5.347	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1092/N253	35.30	0.796	-7.536	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1092/N252	27.96	0.796	-5.870	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1091/N252	36.67	0.796	-7.749	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1091/N251	28.57	0.796	-6.003	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1090/N251	36.85	0.796	-7.789	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1090/N250	27.66	0.796	-5.806	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1089/N250	36.42	0.796	-7.695	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1089/N249	26.70	0.796	-5.599	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1088/N249	35.65	0.796	-7.529	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1088/N248	25.63	0.796	-5.367	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1087/N248	34.58	0.796	-7.298	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1087/N247	24.62	0.796	-5.150	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1086/N247	33.15	0.796	-6.989	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1086/N246	23.80	0.796	-4.974	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1085/N246	31.50	0.796	-6.634	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1085/N245	23.72	0.796	-4.957	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1084/N245	29.88	0.796	-6.284	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1084/N244	23.42	0.796	-4.892	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1083/N244	28.38	0.796	-5.961	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1083/N243	22.72	0.796	-4.740	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1082/N243	26.96	0.796	-5.655	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1082/N242	21.73	0.796	-4.528	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1081/N242	26.15	0.796	-5.480	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1081/N241	20.55	0.796	-4.272	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1080/N241	27.32	0.796	-5.732	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1080/N240	19.04	0.796	-3.947	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1079/N240	25.88	0.796	-5.422	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1079/N239	17.16	0.796	-3.614	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1078/N239	21.24	0.796	-4.422	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1078/N238	14.95	0.796	-3.138	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1077/N238	16.12	0.796	-3.318	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1077/N237	13.00	0.796	-2.716	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1076/N237	12.51	0.796	-2.611	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1076/N236	11.11	0.796	-2.237	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1075/N236	8.57	0.796	-1.759	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1075/N235	10.11	0.796	-2.022	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1096/N280	3.10	0.796	-0.562	0.000	0.000	0.00	0.00	0.00	GS	Cumple
N1096/N279	29.57	0.796	-6.236	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1095/N279	11.59	0.796	-2.357	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1095/N278	41.20	0.796	-8.745	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1094/N278	17.70	0.796	-3.742	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1094/N277	46.32	0.796	-9.850	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1093/N277	19.69	0.796	-4.173	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1093/N276	47.08	0.796	-10.015	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1092/N276	19.45	0.796	-4.119	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1092/N275	45.09	0.796	-9.586	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1091/N275	19.39	0.796	-4.108	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1091/N274	42.18	0.796	-8.957	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1090/N274	20.20	0.796	-4.282	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1090/N273	39.26	0.796	-8.327	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1089/N273	20.35	0.796	-4.314	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1089/N272	36.60	0.796	-7.754	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1088/N272	19.91	0.796	-4.220	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1088/N271	34.19	0.796	-7.234	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1087/N271	19.21	0.796	-4.068	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1087/N270	31.91	0.796	-6.741	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1086/N270	18.56	0.796	-3.927	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1086/N269	30.20	0.796	-6.373	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1085/N269	18.97	0.796	-4.016	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1085/N268	28.83	0.796	-6.150	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1084/N268	19.69	0.796	-4.105	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1084/N267	27.49	0.796	-5.860	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1083/N267	20.53	0.796	-4.286	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1083/N266	26.06	0.796	-5.549	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Listados
Coberta de 46'8x28'6 malla tetràedres
Fecha: 20/12/24

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1082/N266	21.60	0.796	-4.518	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1082/N265	24.42	0.796	-5.196	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1081/N265	23.04	0.796	-4.828	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1081/N264	22.50	0.796	-4.780	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1080/N264	24.75	0.796	-5.196	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1080/N263	20.30	0.796	-4.304	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1079/N263	26.19	0.796	-5.507	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1079/N262	17.96	0.796	-3.798	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1078/N262	26.43	0.796	-5.558	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1078/N261	15.84	0.796	-3.341	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1077/N261	24.39	0.796	-5.118	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1077/N260	14.30	0.796	-3.007	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1076/N260	19.63	0.796	-4.091	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1076/N259	12.47	0.796	-2.546	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1075/N259	12.21	0.796	-2.490	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1075/N258	12.95	0.796	-2.651	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1118/N280	8.62	0.796	-1.699	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1118/N279	18.86	0.796	-3.909	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1117/N279	18.74	0.796	-3.957	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1117/N278	23.52	0.796	-4.914	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1116/N278	26.03	0.796	-5.532	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1116/N277	27.61	0.796	-5.795	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1115/N277	30.92	0.796	-6.590	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1115/N276	30.08	0.796	-6.329	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1114/N276	33.29	0.796	-7.101	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1114/N275	33.63	0.796	-7.094	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1113/N275	33.97	0.796	-7.249	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1113/N274	34.57	0.796	-7.296	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1112/N274	33.84	0.796	-7.220	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1112/N273	32.94	0.796	-6.946	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1111/N273	34.03	0.796	-7.261	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1111/N272	31.52	0.796	-6.637	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1110/N272	34.42	0.796	-7.263	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1110/N271	30.14	0.796	-6.342	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1109/N271	35.06	0.796	-7.401	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1109/N270	28.82	0.796	-6.057	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1108/N270	35.27	0.796	-7.446	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1108/N269	27.51	0.796	-5.773	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1107/N269	35.17	0.796	-7.426	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1107/N268	26.04	0.796	-5.456	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1106/N268	34.96	0.796	-7.380	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1106/N267	24.23	0.796	-5.066	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1105/N267	34.73	0.796	-7.331	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1105/N266	21.98	0.796	-4.581	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1104/N266	34.52	0.796	-7.285	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1104/N265	20.08	0.796	-4.246	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1103/N265	34.23	0.796	-7.224	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1103/N264	18.38	0.796	-3.878	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1102/N264	35.12	0.796	-7.414	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1102/N263	16.67	0.796	-3.508	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1101/N263	34.17	0.796	-7.210	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1101/N262	15.03	0.796	-3.154	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1100/N262	30.37	0.796	-6.389	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1100/N261	13.69	0.796	-2.865	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1099/N261	25.76	0.796	-5.395	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1099/N260	12.58	0.796	-2.625	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1098/N260	20.99	0.796	-4.368	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1098/N259	10.32	0.796	-2.137	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1097/N259	17.61	0.796	-3.639	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1097/N258	10.12	0.796	-2.024	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1118/N303	12.63	0.796	-2.581	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1118/N302	23.94	0.796	-5.091	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1117/N302	17.78	0.796	-3.692	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1117/N301	30.54	0.796	-6.518	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1116/N301	20.45	0.796	-4.337	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1116/N300	33.82	0.796	-7.227	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1115/N300	22.16	0.796	-4.707	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1115/N299	35.52	0.796	-7.596	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1114/N299	21.65	0.796	-4.596	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1114/N298	35.47	0.796	-7.584	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1113/N298	21.21	0.796	-4.502	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1113/N297	34.54	0.796	-7.384	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1112/N297	21.53	0.796	-4.570	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1112/N296	33.87	0.796	-7.238	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1111/N296	21.26	0.796	-4.443	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1111/N295	33.09	0.796	-7.071	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1110/N295	20.55	0.796	-4.359	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1110/N294	32.22	0.796	-6.882	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1109/N294	19.68	0.796	-4.171	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1109/N293	31.22	0.796	-6.666	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1108/N293	18.89	0.796	-4.000	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1108/N292	30.09	0.796	-6.421	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1107/N292	18.23	0.796	-3.856	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1107/N291	28.88	0.796	-6.160	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1106/N291	17.52	0.796	-3.702	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1106/N290	27.62	0.796	-5.888	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1105/N290	16.65	0.796	-3.516	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1105/N289	26.26	0.796	-5.594	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1104/N289	16.29	0.796	-3.437	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1104/N288	24.73	0.796	-5.191	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1103/N288	16.50	0.796	-3.483	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1103/N287	22.92	0.796	-4.870	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1102/N287	16.84	0.796	-3.555	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1102/N286	20.91	0.796	-4.436	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1101/N286	16.78	0.796	-3.544	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1101/N285	18.86	0.796	-3.992	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1100/N285	15.54	0.796	-3.275	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1100/N284	17.60	0.796	-3.719	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1099/N284	12.41	0.796	-2.598	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1099/N283	18.47	0.796	-3.909	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1098/N283	10.40	0.796	5.203	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1098/N282	18.11	0.796	-3.764	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1097/N282	9.36	0.796	4.643	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1097/N281	15.37	0.796	-3.172	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1140/N303	8.57	0.796	-1.688	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1140/N302	36.11	0.796	-7.628	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1139/N302	18.77	0.796	-3.963	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1139/N301	43.62	0.796	-9.247	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1138/N301	25.14	0.796	-5.340	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1138/N300	46.05	0.796	-9.772	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 20/12/24

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1137/N300	30.15	0.796	-6.422	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1137/N299	42.43	0.796	-8.991	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1136/N299	32.16	0.796	-6.857	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1136/N298	43.12	0.796	-9.140	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1135/N298	32.68	0.796	-6.970	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1135/N297	43.39	0.796	-9.197	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1134/N297	32.62	0.796	-6.957	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1134/N296	41.35	0.796	-8.759	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1133/N296	32.26	0.796	-6.879	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1133/N295	39.25	0.796	-8.306	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1132/N295	32.79	0.796	-6.993	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1132/N294	36.85	0.796	-7.788	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1131/N294	35.10	0.796	-7.411	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1131/N293	34.27	0.796	-7.230	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1130/N293	37.30	0.796	-7.885	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1130/N292	31.53	0.796	-6.639	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1129/N292	38.98	0.796	-8.247	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1129/N291	28.36	0.796	-5.958	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1128/N291	40.32	0.796	-8.536	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1128/N290	24.70	0.796	-5.168	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1127/N290	41.59	0.796	-8.810	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1127/N289	21.01	0.796	-4.446	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1126/N289	42.78	0.796	-9.067	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1126/N288	18.55	0.796	-3.916	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1125/N288	43.78	0.796	-9.282	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1125/N287	16.08	0.796	-3.382	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1124/N287	44.61	0.796	-9.462	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1124/N286	15.16	0.796	7.709	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1123/N286	45.43	0.796	-9.638	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1123/N285	15.82	0.796	8.058	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1122/N285	46.27	0.796	-9.819	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1122/N284	14.63	0.796	7.422	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1121/N284	47.27	0.796	-10.036	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1121/N283	12.09	0.796	6.068	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1120/N283	42.89	0.796	-9.091	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1120/N282	10.14	0.796	-2.097	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1119/N282	34.99	0.796	-7.387	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1119/N281	9.74	0.796	-1.942	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1140/N326	27.50	0.796	-5.789	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1140/N325	23.75	0.796	-5.050	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1139/N325	28.28	0.796	-5.957	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1139/N324	29.39	0.796	-6.269	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1138/N324	23.73	0.796	-4.976	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1138/N323	32.62	0.796	-6.969	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1137/N323	25.76	0.796	-5.415	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1137/N322	34.57	0.796	-7.391	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1136/N322	26.79	0.796	-5.637	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1136/N321	35.13	0.796	-7.511	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1135/N321	26.35	0.796	-5.541	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1135/N320	34.82	0.796	-7.443	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1134/N320	25.65	0.796	-5.390	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1134/N319	34.09	0.796	-7.287	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1133/N319	24.02	0.796	-5.039	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1133/N318	33.22	0.796	-7.098	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1132/N318	22.08	0.796	-4.620	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1132/N317	32.29	0.796	-6.897	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1131/N317	20.63	0.796	-4.307	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1131/N316	31.29	0.796	-6.681	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1130/N316	19.47	0.796	-4.125	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1130/N315	30.20	0.796	-6.444	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1129/N315	18.66	0.796	-3.949	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1129/N314	29.05	0.796	-6.197	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1128/N314	17.77	0.796	-3.758	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1128/N313	28.12	0.796	-5.923	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1127/N313	16.89	0.796	8.668	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1127/N312	27.30	0.796	-5.747	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1126/N312	16.78	0.796	8.609	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1126/N311	26.90	0.796	-5.660	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1125/N311	16.36	0.796	8.383	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1125/N310	26.33	0.796	-5.537	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1124/N310	15.58	0.796	7.967	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1124/N309	25.04	0.796	-5.259	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1123/N309	14.56	0.796	7.422	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1123/N308	24.93	0.796	-5.236	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1122/N308	13.78	0.796	7.007	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1122/N307	24.71	0.796	-5.188	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1121/N307	14.58	0.796	7.432	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1121/N306	24.22	0.796	-5.082	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1120/N306	19.42	0.796	10.022	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1120/N305	28.66	0.796	-6.041	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1119/N305	19.70	0.796	10.172	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1119/N304	27.67	0.796	-5.827	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1162/N326	12.28	0.796	6.167	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1162/N325	44.24	0.796	-9.382	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1161/N325	24.66	0.796	-5.159	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1161/N324	91.56	0.796	-19.586	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1160/N324	25.28	0.796	-5.370	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1160/N323	81.43	0.796	-17.402	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1159/N323	30.27	0.796	-6.449	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1159/N322	67.90	0.796	-14.484	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1158/N322	31.72	0.796	-6.763	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1158/N321	62.08	0.796	-13.229	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1157/N321	31.93	0.796	-6.808	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1157/N320	58.98	0.796	-12.560	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1156/N320	31.81	0.796	-6.782	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1156/N319	55.89	0.796	-11.894	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1155/N319	31.47	0.796	-6.708	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1155/N318	51.98	0.796	-11.052	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1154/N318	30.92	0.796	-6.590	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1154/N317	47.09	0.796	-9.996	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1153/N317	33.25	0.796	-7.093	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1153/N316	41.75	0.796	-8.844	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1152/N316	38.78	0.796	-8.204	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1152/N315	36.83	0.796	-7.784	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1151/N315	43.34	0.796	-9.188	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1151/N314	30.60	0.796	-6.439	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1150/N314	47.00	0.796	-9.977	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1150/N313	23.77	0.796	-5.045	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1149/N313	51.23	0.796	-10.889	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1149/N312	19.04	0.796	-4.022	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1148/N312	55.27	0.796	-11.761	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1148/N311	16.21	0.796	-3.410	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1147/N311	58.77	0.796	-12.515	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1147/N310	17.73	0.796	9.082	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1146/N310	61.80	0.796	-13.168	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1146/N309	20.76	0.796	10.697	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1145/N309	65.76	0.796	-14.022	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1145/N308	22.84	0.796	11.810	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1144/N308	72.56	0.796	-15.489	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1144/N307	22.91	0.796	11.846	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1143/N307	83.40	0.796	-17.827	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1143/N306	19.42	0.796	9.981	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1142/N306	91.06	0.796	-19.479	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1142/N305	19.76	0.796	-4.103	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1141/N305	43.36	0.796	-9.192	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1141/N304	12.35	0.796	6.205	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1162/N349	20.68	0.796	-4.318	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1162/N348	6.67	0.796	3.207	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1161/N348	32.44	0.796	-6.857	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1161/N347	35.25	0.796	-7.461	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1160/N347	17.47	0.796	8.980	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1160/N346	35.38	0.796	-7.490	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1159/N346	16.74	0.796	8.586	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1159/N345	34.40	0.796	-7.278	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1158/N345	14.23	0.796	7.248	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1158/N344	30.82	0.796	-6.507	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1157/N344	12.38	0.796	6.259	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1157/N343	26.86	0.796	-5.651	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1156/N343	11.00	0.796	5.522	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1156/N342	23.12	0.796	-4.844	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1155/N342	9.81	0.796	4.884	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1155/N341	19.64	0.796	-4.094	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1154/N341	8.65	0.796	4.266	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1154/N340	16.31	0.796	-3.376	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1153/N340	7.46	0.796	3.632	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1153/N339	13.17	0.796	-2.698	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1152/N339	6.45	0.796	-1.310	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1152/N338	11.28	0.796	-2.353	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1151/N338	6.15	0.796	-1.243	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1151/N337	10.53	0.796	-2.192	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1150/N337	7.60	0.796	-1.496	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1150/N336	9.69	0.796	-2.009	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1149/N336	9.80	0.796	-1.970	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1149/N335	8.78	0.796	-1.813	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1148/N335	12.12	0.796	-2.470	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1148/N334	7.80	0.796	-1.601	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1147/N334	14.55	0.796	-2.996	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1147/N333	7.76	0.796	3.788	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1146/N333	17.27	0.796	-3.581	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1146/N332	8.74	0.796	4.311	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1145/N332	20.54	0.796	-4.288	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1145/N331	10.15	0.796	5.069	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1144/N331	25.80	0.796	-5.423	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1144/N330	12.39	0.796	6.263	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1143/N330	32.85	0.796	-6.945	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1143/N329	11.71	0.796	5.903	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1142/N329	35.40	0.796	-7.495	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1142/N328	31.95	0.796	-6.749	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1141/N328	7.46	0.796	3.631	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1141/N327	20.39	0.796	-4.256	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1184/N349	22.33	0.796	-4.656	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1184/N348	5.61	0.796	2.606	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1183/N348	43.25	0.796	-9.167	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1183/N347	34.02	0.796	-7.177	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1182/N347	16.73	0.796	-3.521	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1182/N346	33.98	0.796	-7.169	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1181/N346	14.83	0.796	-3.111	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1181/N345	29.87	0.796	-6.283	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1180/N345	14.23	0.796	-2.981	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1180/N344	26.75	0.796	-5.609	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1179/N344	13.74	0.796	-2.876	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1179/N343	25.77	0.796	-5.397	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1178/N343	13.31	0.796	-2.784	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1178/N342	23.48	0.796	-4.904	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1177/N342	12.87	0.796	-2.689	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1177/N341	21.15	0.796	-4.403	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1176/N341	12.40	0.796	-2.586	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1176/N340	18.63	0.796	-3.858	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1175/N340	13.54	0.796	-2.760	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1175/N339	16.13	0.796	-3.319	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1174/N339	15.33	0.796	-3.148	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1174/N338	14.63	0.796	-2.996	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1173/N338	16.19	0.796	-3.332	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1173/N337	12.61	0.796	-2.561	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1172/N337	16.84	0.796	-3.473	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1172/N336	9.94	0.796	-1.984	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1171/N336	18.83	0.796	-3.901	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1171/N335	7.77	0.796	-1.586	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1170/N335	21.36	0.796	-4.446	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1170/N334	6.41	0.796	3.032	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1169/N334	23.68	0.796	-4.948	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1169/N333	7.60	0.796	3.666	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1168/N333	25.98	0.796	-5.443	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1168/N332	9.17	0.796	4.506	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1167/N332	26.88	0.796	-5.637	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1167/N331	10.41	0.796	5.169	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1166/N331	30.12	0.796	-6.336	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1166/N330	12.51	0.796	6.293	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1165/N330	37.05	0.796	-7.831	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1165/N329	13.27	0.796	6.695	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1164/N329	40.03	0.796	-8.474	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1164/N328	27.92	0.796	-5.861	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1163/N328	7.20	0.796	-1.463	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1163/N327	18.02	0.796	-3.727	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1184/N372	11.26	0.796	5.659	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1184/N371	43.43	0.796	-9.228	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1183/N371	10.49	0.796	-2.119	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1183/N370	99.20	0.796	-21.261	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1182/N370	19.65	0.796	10.142	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1182/N369	90.41	0.796	-19.364	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1181/N369	24.94	0.796	12.969	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1181/N368	76.57	0.796	-16.377	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1180/N368	24.15	0.796	12.547	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1180/N367	67.30	0.796	-14.378	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1179/N367	21.74	0.796	11.260	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1179/N366	60.59	0.796	-12.929	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1178/N366	18.86	0.796	9.724	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1178/N365	53.84	0.796	-11.473	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1177/N365	15.76	0.796	8.066	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1177/N364	46.61	0.796	-9.914	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1176/N364	12.48	0.796	6.310	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1176/N363	38.94	0.796	-8.258	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1175/N363	9.00	0.796	4.451	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1175/N362	31.15	0.796	-6.578	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1174/N362	11.93	0.796	-2.494	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1174/N361	23.98	0.796	-5.031	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1173/N361	17.26	0.796	-3.580	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1173/N360	16.29	0.796	-3.437	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1172/N360	22.58	0.796	-4.727	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1172/N359	10.40	0.796	-2.164	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1171/N359	29.26	0.796	-6.169	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1171/N358	8.53	0.796	-1.759	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1170/N358	36.28	0.796	-7.684	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1170/N357	10.96	0.796	5.498	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1169/N357	43.05	0.796	-9.145	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1169/N356	13.90	0.796	7.070	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1168/N356	49.68	0.796	-10.575	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1168/N355	16.66	0.796	8.546	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1167/N355	56.84	0.796	-12.121	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1167/N354	18.98	0.796	9.787	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1166/N354	66.23	0.796	-14.148	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1166/N353	19.88	0.796	10.265	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1165/N353	81.56	0.796	-17.455	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1165/N352	15.44	0.796	7.892	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1164/N352	93.63	0.796	-20.059	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1164/N351	10.66	0.796	-2.155	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1163/N351	40.33	0.796	-8.558	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1163/N350	11.28	0.796	5.670	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1206/N372	25.23	0.796	-5.281	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1206/N371	21.08	0.796	10.872	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1205/N371	17.69	0.796	-3.656	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1205/N370	21.49	0.796	11.092	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1204/N370	14.81	0.796	-3.035	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1204/N369	17.35	0.796	8.878	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1203/N369	23.84	0.796	-4.981	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1203/N368	16.28	0.796	-3.426	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1202/N368	29.73	0.796	-6.252	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1202/N367	17.54	0.796	-3.697	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1201/N367	30.69	0.796	-6.459	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1201/N366	17.20	0.796	-3.624	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1200/N366	28.88	0.796	-6.068	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1200/N365	15.59	0.796	-3.276	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1199/N365	25.77	0.796	-5.398	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1199/N364	14.25	0.796	-2.985	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1198/N364	22.01	0.796	-4.588	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1198/N363	13.02	0.796	-2.721	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1197/N363	17.77	0.796	-3.673	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1197/N362	11.91	0.796	-2.480	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1196/N362	14.99	0.796	-3.073	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1196/N361	10.93	0.796	-2.268	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1195/N361	13.14	0.796	-2.747	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1195/N360	10.34	0.796	-2.071	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1194/N360	11.70	0.796	-2.435	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1194/N359	11.43	0.796	-2.305	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1193/N359	10.65	0.796	-2.207	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1193/N358	13.63	0.796	-2.779	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1192/N358	10.82	0.796	-2.245	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1192/N357	15.41	0.796	-3.165	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1191/N357	11.13	0.796	-2.312	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1191/N356	16.61	0.796	-3.422	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1190/N356	11.78	0.796	-2.451	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1190/N355	16.68	0.796	-3.438	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1189/N355	11.34	0.796	-2.357	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1189/N354	14.69	0.796	-3.010	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1188/N354	10.09	0.796	4.998	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1188/N353	9.83	0.796	-1.962	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1187/N353	12.44	0.796	6.251	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1187/N352	5.24	0.796	-0.970	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1186/N352	19.00	0.796	9.760	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1186/N351	13.77	0.796	-2.810	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1185/N351	19.82	0.796	10.199	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1185/N350	25.28	0.796	-5.292	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1206/N395	5.04	0.796	2.336	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1206/N394	38.91	0.796	-8.252	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1205/N394	7.17	0.796	3.474	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1205/N393	49.69	0.796	-10.579	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1204/N393	11.72	0.796	5.903	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1204/N392	54.68	0.796	-11.654	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1203/N392	15.65	0.796	8.004	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1203/N391	51.44	0.796	-10.956	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1202/N391	16.44	0.796	8.426	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1202/N390	46.38	0.796	-9.863	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1201/N390	15.45	0.796	7.897	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1201/N389	41.56	0.796	-8.823	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1200/N389	13.74	0.796	6.988	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1200/N388	36.98	0.796	-7.835	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1199/N388	11.79	0.796	5.945	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1199/N387	32.42	0.796	-6.850	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1198/N387	9.89	0.796	-2.053	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1198/N386	27.80	0.796	-5.855	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1197/N386	9.22	0.796	-1.908	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1197/N385	23.21	0.796	-4.864	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1196/N385	10.58	0.796	-2.202	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1196/N384	18.68	0.796	-3.886	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1195/N384	13.38	0.796	-2.743	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1195/N383	13.91	0.796	-2.858	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1194/N383	16.07	0.796	-3.323	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1194/N382	10.33	0.796	-2.149	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1193/N382	18.90	0.796	-3.934	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1193/N381	8.76	0.796	-1.809	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1192/N381	21.86	0.796	-4.572	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1192/N380	7.75	0.796	3.784	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1191/N380	25.34	0.796	-5.323	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1191/N379	9.03	0.796	4.471	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1190/N379	29.47	0.796	-6.214	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1190/N378	10.18	0.796	5.082	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1189/N378	34.12	0.796	-7.219	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1189/N377	10.97	0.796	5.505	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1188/N377	39.36	0.796	-8.348	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1188/N376	10.32	0.796	5.158	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1187/N376	43.49	0.796	-9.240	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1187/N375	7.40	0.796	3.597	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1186/N375	41.47	0.796	-8.805	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1186/N374	3.44	0.796	1.481	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1185/N374	32.06	0.796	-6.774	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1185/N373	5.04	0.796	2.336	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1228/N395	9.10	0.796	-1.802	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1228/N394	11.25	0.796	5.617	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1227/N394	12.38	0.796	-2.510	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1227/N393	11.24	0.796	5.611	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1226/N393	13.77	0.796	-2.811	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1226/N392	12.79	0.796	-2.670	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1225/N392	17.23	0.796	-3.629	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1225/N391	14.59	0.796	-2.986	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1224/N391	18.94	0.796	-4.000	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1224/N390	16.46	0.796	-3.391	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1223/N390	19.65	0.796	-4.080	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1223/N389	16.42	0.796	-3.383	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1222/N389	19.33	0.796	-4.010	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1222/N388	14.84	0.796	-3.041	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1221/N388	18.50	0.796	-3.831	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1221/N387	13.62	0.796	-2.777	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1220/N387	17.31	0.796	-3.574	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1220/N386	12.51	0.796	-2.539	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1219/N386	15.71	0.796	-3.228	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1219/N385	11.50	0.796	-2.321	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1218/N385	13.81	0.796	-2.820	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1218/N384	10.55	0.796	-2.115	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1217/N384	12.47	0.796	-2.530	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1217/N383	10.34	0.796	-2.071	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1216/N383	11.20	0.796	-2.255	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1216/N382	10.38	0.796	-2.080	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1215/N382	10.97	0.796	-2.208	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1215/N381	10.14	0.796	-2.028	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1214/N381	11.62	0.796	-2.346	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1214/N380	9.52	0.796	-1.894	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1213/N380	12.70	0.796	-2.580	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1213/N379	8.62	0.796	-1.699	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1212/N379	14.51	0.796	-2.971	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1212/N378	7.46	0.796	-1.450	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1211/N378	13.77	0.796	-2.810	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1211/N377	6.02	0.796	-1.208	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1210/N377	9.82	0.796	-1.958	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1210/N376	4.82	0.796	-0.948	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1209/N376	6.55	0.796	-1.322	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1209/N375	4.52	0.796	-0.815	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1208/N375	6.35	0.796	2.998	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1208/N374	4.55	0.796	-0.823	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1207/N374	8.15	0.796	3.962	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1207/N373	9.09	0.796	-1.802	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1228/N418	3.59	0.796	-0.631	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1228/N417	21.56	0.796	-4.507	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1227/N417	7.68	0.796	-1.576	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1227/N416	28.46	0.796	-5.997	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1226/N416	9.86	0.796	-2.047	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1226/N415	33.66	0.796	-7.119	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1225/N415	12.27	0.796	6.202	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1225/N414	34.87	0.796	-7.379	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1224/N414	13.07	0.796	6.630	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1224/N413	32.95	0.796	-6.965	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1223/N413	12.50	0.796	6.322	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1223/N412	29.78	0.796	-6.281	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1222/N412	11.31	0.796	5.686	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1222/N411	26.34	0.796	-5.539	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1221/N411	10.79	0.796	-2.247	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1221/N410	23.00	0.796	-4.818	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1220/N410	10.19	0.796	-2.118	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1220/N409	19.85	0.796	-4.138	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1219/N409	9.40	0.796	-1.948	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1219/N408	16.89	0.796	-3.500	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1218/N408	8.55	0.796	-1.762	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1218/N407	14.08	0.796	-2.894	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1217/N407	9.27	0.796	-1.857	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1217/N406	11.66	0.796	-2.437	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1216/N406	10.38	0.796	-2.095	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1216/N405	10.30	0.796	-2.142	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1215/N405	11.71	0.796	-2.382	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1215/N404	8.88	0.796	-1.835	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1214/N404	13.31	0.796	-2.727	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1214/N403	7.56	0.796	-1.550	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1213/N403	15.20	0.796	-3.135	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1213/N402	6.93	0.796	3.346	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1212/N402	17.28	0.796	-3.584	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1212/N401	7.53	0.796	3.669	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1211/N401	19.18	0.796	-3.995	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1211/N400	7.76	0.796	3.791	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1210/N400	20.36	0.796	-4.250	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1210/N399	7.19	0.796	3.484	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1209/N399	19.55	0.796	-4.073	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1209/N398	5.90	0.796	-1.191	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1208/N398	15.84	0.796	-3.273	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1208/N397	4.18	0.796	-0.819	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1207/N397	10.52	0.796	-2.127	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1207/N396	7.51	0.796	-1.475	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1250/N418	4.67	0.796	-0.847	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1250/N417	15.13	0.796	-3.103	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1249/N417	10.74	0.796	-2.228	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1249/N416	18.71	0.796	-3.876	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1248/N416	13.45	0.796	-2.814	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1248/N415	22.47	0.796	-4.686	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Listados
Coberta de 46'8x28'6 malla tetràedres
Fecha: 20/12/24

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1247/N415	16.57	0.796	-3.487	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1247/N414	23.26	0.796	-4.858	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1246/N414	17.63	0.796	-3.716	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1246/N413	22.89	0.796	-4.778	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1245/N413	17.41	0.796	-3.669	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1245/N412	22.98	0.796	-4.797	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1244/N412	16.63	0.796	-3.500	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1244/N411	20.52	0.796	-4.266	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1243/N411	15.63	0.796	-3.284	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1243/N410	18.46	0.796	-3.822	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1242/N410	15.04	0.796	-3.084	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1242/N409	16.72	0.796	-3.447	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1241/N409	15.28	0.796	-3.135	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1241/N408	15.20	0.796	-3.119	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1240/N408	15.33	0.796	-3.147	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1240/N407	13.75	0.796	-2.805	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1239/N407	15.21	0.796	-3.121	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1239/N406	12.20	0.796	-2.473	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1238/N406	15.43	0.796	-3.169	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1238/N405	10.47	0.796	-2.100	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1237/N405	16.95	0.796	-3.497	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1237/N404	8.57	0.796	-1.758	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1236/N404	18.69	0.796	-3.872	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1236/N403	7.26	0.796	-1.474	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1235/N403	20.75	0.796	-4.316	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1235/N402	7.28	0.796	3.498	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1234/N402	23.21	0.796	-4.847	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1234/N401	8.63	0.796	4.216	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1233/N401	23.13	0.796	-4.828	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1233/N400	8.76	0.796	4.289	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1232/N400	22.33	0.796	-4.656	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1232/N399	7.37	0.796	3.544	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1231/N399	21.58	0.796	-4.495	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1231/N398	5.55	0.796	2.573	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1230/N398	17.95	0.796	-3.711	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1230/N397	3.88	0.796	1.681	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1229/N397	14.61	0.796	-2.992	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1229/N396	4.62	0.796	-0.836	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1250/N441	12.64	0.796	-2.583	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1250/N440	14.18	0.796	-2.980	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1249/N440	12.62	0.796	-2.579	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1249/N439	16.23	0.796	-3.424	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1248/N439	13.07	0.796	-2.742	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1248/N438	18.06	0.796	-3.820	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1247/N438	14.06	0.796	-2.954	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1247/N437	20.47	0.796	-4.273	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1246/N437	12.99	0.796	-2.724	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1246/N436	20.57	0.796	-4.295	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1245/N436	12.06	0.796	-2.522	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1245/N435	19.16	0.796	-3.989	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1244/N435	11.87	0.796	-2.482	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1244/N434	17.27	0.796	-3.648	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1243/N434	11.25	0.796	-2.347	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1243/N433	16.14	0.796	-3.405	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1242/N433	10.43	0.796	-2.170	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1242/N432	15.09	0.796	-3.177	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1241/N432	9.53	0.796	-1.975	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1241/N431	13.96	0.796	-2.934	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1240/N431	8.62	0.796	-1.778	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1240/N430	12.77	0.796	-2.676	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1239/N430	7.72	0.796	-1.583	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1239/N429	11.53	0.796	-2.409	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1238/N429	6.81	0.796	-1.386	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1238/N428	10.27	0.796	-2.135	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1237/N428	6.28	0.796	-1.273	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1237/N427	8.96	0.796	-1.852	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1236/N427	6.37	0.796	-1.293	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1236/N426	7.89	0.796	-1.621	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1235/N426	6.64	0.796	-1.349	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1235/N425	7.49	0.796	-1.534	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1234/N425	7.13	0.796	-1.395	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1234/N424	6.78	0.796	-1.381	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1233/N424	7.40	0.796	-1.452	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1233/N423	7.24	0.796	-1.479	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1232/N423	6.63	0.796	-1.286	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1232/N422	8.70	0.796	-1.796	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1231/N422	5.67	0.796	2.673	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1231/N421	10.48	0.796	-2.180	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1230/N421	6.93	0.796	3.347	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1230/N420	12.73	0.796	-2.602	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1229/N420	8.72	0.796	4.304	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1229/N419	12.73	0.796	-2.602	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1272/N441	6.46	0.796	3.057	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1272/N440	35.64	0.796	-7.527	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1271/N440	10.74	0.796	-2.228	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1271/N439	44.14	0.796	-9.360	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1270/N439	13.09	0.796	-2.734	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1270/N438	47.03	0.796	-9.982	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1269/N438	16.20	0.796	-3.406	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1269/N437	42.58	0.796	-9.024	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1268/N437	16.86	0.796	-3.551	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1268/N436	37.07	0.796	-7.835	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1267/N436	16.39	0.796	-3.449	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1267/N435	33.36	0.796	-7.036	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1266/N435	15.56	0.796	-3.268	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1266/N434	29.69	0.796	-6.244	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1265/N434	14.59	0.796	-3.060	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1265/N433	26.45	0.796	-5.546	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1264/N433	13.58	0.796	-2.840	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1264/N432	23.52	0.796	-4.914	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1263/N432	14.68	0.796	-3.008	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1263/N431	20.57	0.796	-4.277	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1262/N431	16.88	0.796	-3.481	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1262/N430	17.54	0.796	-3.624	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1261/N430	18.67	0.796	-3.868	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1261/N429	14.14	0.796	-2.891	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1260/N429	20.80	0.796	-4.326	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1260/N428	10.38	0.796	-2.078	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1259/N428	23.76	0.796	-4.964	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1259/N427	7.53	0.796	-1.534	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1258/N427	26.70	0.796	-5.598	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1258/N426	7.65	0.796	3.693	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1257/N426	29.84	0.796	-6.276	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1257/N425	9.61	0.796	4.740	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1256/N425	33.51	0.796	-7.068	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1256/N424	11.73	0.796	5.876	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1255/N424	36.51	0.796	-7.715	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1255/N423	12.61	0.796	6.345	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1254/N423	42.03	0.796	-8.906	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1254/N422	11.62	0.796	5.817	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1253/N422	46.48	0.796	-9.865	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1253/N421	9.35	0.796	4.601	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1252/N421	43.61	0.796	-9.246	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1252/N420	7.19	0.796	3.447	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1251/N420	35.23	0.796	-7.438	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1251/N419	6.49	0.796	3.075	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1272/N464	28.87	0.796	-6.086	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1272/N463	20.72	0.796	10.715	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1271/N463	24.25	0.796	-5.089	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1271/N462	19.27	0.796	9.940	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1270/N462	16.60	0.796	-3.437	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1270/N461	17.81	0.796	-3.766	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1269/N461	17.70	0.796	-3.675	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1269/N460	18.67	0.796	-3.951	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1268/N460	18.03	0.796	-3.746	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1268/N459	18.66	0.796	-3.949	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1267/N459	17.07	0.796	-3.540	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1267/N458	18.02	0.796	-3.812	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1266/N458	15.93	0.796	-3.293	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1266/N457	17.06	0.796	-3.603	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1265/N457	14.02	0.796	-2.880	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1265/N456	15.98	0.796	-3.370	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1264/N456	11.82	0.796	-2.407	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1264/N455	14.88	0.796	-3.132	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1263/N455	10.20	0.796	-2.058	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1263/N454	13.77	0.796	-2.892	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1262/N454	8.84	0.796	-1.826	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1262/N453	12.59	0.796	-2.636	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1261/N453	8.00	0.796	3.916	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1261/N452	11.39	0.796	-2.377	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1260/N452	8.48	0.796	4.172	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1260/N451	10.60	0.796	-2.144	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1259/N451	9.10	0.796	4.506	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1259/N450	10.21	0.796	-2.059	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1258/N450	9.46	0.796	4.699	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1258/N449	12.61	0.796	-2.577	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1257/N449	9.66	0.796	4.804	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1257/N448	14.46	0.796	-2.975	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1256/N448	9.97	0.796	4.972	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1256/N447	15.04	0.796	-3.102	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1255/N447	10.20	0.796	5.094	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1255/N446	15.92	0.796	-3.290	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1254/N446	10.64	0.796	5.329	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1254/N445	16.25	0.796	-3.362	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1253/N445	12.85	0.796	6.508	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1253/N444	16.85	0.796	-3.493	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1252/N444	19.08	0.796	9.837	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1252/N443	24.47	0.796	-5.135	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1251/N443	20.56	0.796	10.627	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1251/N442	29.00	0.796	-6.113	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1294/N464	12.83	0.796	6.464	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1294/N463	44.98	0.796	-9.540	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1293/N463	17.56	0.796	-3.628	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1293/N462	97.09	0.796	-20.779	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1292/N462	17.36	0.796	8.882	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1292/N461	86.24	0.796	-18.438	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1291/N461	21.63	0.796	11.165	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1291/N460	71.70	0.796	-15.303	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1290/N460	20.49	0.796	10.555	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1290/N459	61.94	0.796	-13.198	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1289/N459	17.72	0.796	9.072	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1289/N458	54.47	0.796	-11.588	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1288/N458	14.79	0.796	-3.103	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1288/N457	48.06	0.796	-10.205	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1287/N457	13.77	0.796	-2.883	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1287/N456	41.81	0.796	-8.858	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1286/N456	12.73	0.796	-2.657	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1286/N455	34.87	0.796	-7.362	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1285/N455	12.54	0.796	-2.616	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1285/N454	27.92	0.796	-5.863	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1284/N454	17.85	0.796	-3.690	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1284/N453	22.59	0.796	-4.712	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1283/N453	22.78	0.796	-4.753	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1283/N452	15.92	0.796	-3.275	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1282/N452	28.14	0.796	-5.910	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1282/N451	9.11	0.796	-1.875	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1281/N451	35.02	0.796	-7.392	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1281/N450	8.39	0.796	4.089	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1280/N450	41.96	0.796	-8.891	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1280/N449	11.37	0.796	5.682	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1279/N449	48.22	0.796	-10.240	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1279/N448	14.39	0.796	7.294	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1278/N448	53.94	0.796	-11.474	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1278/N447	17.80	0.796	9.115	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1277/N447	61.39	0.796	-13.081	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1277/N446	20.58	0.796	10.603	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1276/N446	71.14	0.796	-15.182	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1276/N445	21.47	0.796	11.080	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1275/N445	85.66	0.796	-18.315	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1275/N444	17.45	0.796	8.932	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1274/N444	96.48	0.796	-20.648	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1274/N443	12.90	0.796	-2.622	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1273/N443	44.42	0.796	-9.421	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1273/N442	12.88	0.796	6.491	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1294/N487	16.04	0.796	-3.316	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1294/N486	6.66	0.796	3.201	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1293/N486	29.48	0.796	-6.217	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1293/N485	39.29	0.796	-8.333	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1292/N485	14.55	0.796	7.417	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1292/N484	35.87	0.796	-7.595	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Listados
Coberta de 46'8x28'6 malla tetràedres
Fecha: 20/12/24

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1291/N484	14.00	0.796	7.123	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1291/N483	31.00	0.796	-6.545	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1290/N483	10.89	0.796	5.463	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1290/N482	25.90	0.796	-5.445	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1289/N482	8.56	0.796	4.219	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1289/N481	21.53	0.796	-4.502	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1288/N481	6.85	0.796	3.303	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1288/N480	17.70	0.796	-3.674	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1287/N480	5.35	0.796	2.502	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1287/N479	14.05	0.796	-2.887	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1286/N479	3.92	0.796	1.738	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1286/N478	10.47	0.796	-2.114	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1285/N478	2.49	0.796	0.976	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1285/N477	7.01	0.796	-1.369	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1284/N477	2.05	0.796	-0.298	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1284/N476	4.53	0.796	-0.832	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1283/N476	3.41	0.796	-0.592	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1283/N475	2.23	0.796	-0.337	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1282/N475	5.20	0.796	-0.979	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1282/N474	1.64	0.796	0.520	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1281/N474	8.64	0.796	-1.720	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1281/N473	3.03	0.796	1.260	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1280/N473	12.37	0.796	-2.526	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1280/N472	4.51	0.796	2.055	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1279/N472	16.12	0.796	-3.333	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1279/N471	6.08	0.796	2.891	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1278/N471	20.05	0.796	-4.181	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1278/N470	7.90	0.796	3.865	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1277/N470	24.43	0.796	-5.127	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1277/N469	10.33	0.796	5.162	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1276/N469	29.59	0.796	-6.241	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1276/N468	13.42	0.796	6.815	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1275/N468	35.54	0.796	-7.525	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1275/N467	13.61	0.796	6.916	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1274/N467	39.27	0.796	-8.329	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1274/N466	29.54	0.796	-6.229	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1273/N466	7.04	0.796	3.403	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1273/N465	15.92	0.796	-3.290	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1316/N487	20.65	0.796	-4.294	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1316/N486	5.45	0.796	2.516	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1315/N486	35.78	0.796	-7.556	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1315/N485	34.89	0.796	-7.366	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1314/N485	13.58	0.796	6.864	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1314/N484	33.20	0.796	-7.000	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1313/N484	13.15	0.796	6.631	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1313/N483	28.43	0.796	-5.973	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1312/N483	10.17	0.796	5.041	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1312/N482	23.48	0.796	-4.904	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1311/N482	7.91	0.796	3.832	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1311/N481	19.33	0.796	-4.010	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1310/N481	6.23	0.796	2.937	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1310/N480	15.64	0.796	-3.213	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1309/N480	4.90	0.796	2.222	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1309/N479	12.44	0.796	-2.523	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1308/N479	3.77	0.796	1.621	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1308/N478	9.24	0.796	-1.834	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1307/N478	2.63	0.796	1.010	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1307/N477	6.49	0.796	-1.241	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1306/N477	2.89	0.796	-0.464	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1306/N476	4.92	0.796	-0.902	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1305/N476	4.94	0.796	-0.907	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1305/N475	2.87	0.796	-0.460	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1304/N475	6.52	0.796	-1.248	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1304/N474	2.64	0.796	1.017	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1303/N474	9.26	0.796	-1.838	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1303/N473	3.78	0.796	1.627	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1302/N473	12.46	0.796	-2.528	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1302/N472	4.91	0.796	2.227	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1301/N472	15.61	0.796	-3.208	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1301/N471	6.23	0.796	2.933	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1300/N471	19.26	0.796	-3.994	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1300/N470	7.90	0.796	3.829	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1299/N470	23.39	0.796	-4.886	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1299/N469	10.13	0.796	5.020	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1298/N469	28.33	0.796	-5.951	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1298/N468	13.10	0.796	6.607	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1297/N468	33.19	0.796	-6.999	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1297/N467	13.53	0.796	6.835	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1296/N467	35.44	0.796	-7.484	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1296/N466	32.98	0.796	-6.954	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1295/N466	5.48	0.796	2.534	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1295/N465	20.71	0.796	-4.307	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1316/N510	12.25	0.796	6.190	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1316/N509	40.99	0.796	-8.700	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1315/N509	11.65	0.796	-2.369	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1315/N508	96.58	0.796	-20.695	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1314/N508	16.48	0.796	8.452	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1314/N507	86.49	0.796	-18.519	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1313/N507	20.64	0.796	10.673	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1313/N506	71.66	0.796	-15.317	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1312/N506	19.20	0.796	9.905	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1312/N505	61.45	0.796	-13.116	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1311/N505	16.29	0.796	8.348	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1311/N504	53.73	0.796	-11.449	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1310/N504	12.67	0.796	6.416	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1310/N503	46.56	0.796	-9.903	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1309/N503	9.20	0.796	4.559	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1309/N502	39.15	0.796	-8.303	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1308/N502	5.72	0.796	2.700	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1308/N501	31.65	0.796	-6.685	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1307/N501	5.02	0.796	-1.001	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1307/N500	24.63	0.796	-5.171	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1306/N500	11.96	0.796	-2.436	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1306/N499	18.45	0.796	-3.836	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1305/N499	19.98	0.796	-4.167	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1305/N498	11.39	0.796	-2.313	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1304/N498	27.43	0.796	-5.774	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1304/N497	5.68	0.796	-1.144	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1303/N497	35.84	0.796	-7.589	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1303/N496	8.57	0.796	4.222	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 20/12/24

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1302/N496	44.20	0.796	-9.392	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1302/N495	12.15	0.796	6.137	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1301/N495	52.09	0.796	-11.095	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1301/N494	15.63	0.796	7.998	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1300/N494	59.60	0.796	-12.717	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1300/N493	18.98	0.796	9.785	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1299/N493	67.49	0.796	-14.420	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1299/N492	21.98	0.796	11.388	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1298/N492	77.69	0.796	-16.619	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1298/N491	23.52	0.796	12.209	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1297/N491	92.36	0.796	-19.785	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1297/N490	18.55	0.796	9.555	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1296/N490	102.11	0.796	-21.889	0.000	0.000	0.00	0.00	0.00	GV	No cumple
N1296/N489	11.63	0.796	-2.365	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1295/N489	44.87	0.796	-9.539	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1295/N488	12.30	0.796	6.215	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1338/N510	27.69	0.796	-5.812	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1338/N509	19.68	0.796	10.120	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1337/N509	19.53	0.796	-4.052	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1337/N508	19.55	0.796	10.052	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1336/N508	11.88	0.796	-2.402	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1336/N507	13.29	0.796	6.706	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1335/N507	10.45	0.796	-2.094	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1335/N506	10.98	0.796	5.471	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1334/N506	11.77	0.796	-2.378	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1334/N505	10.27	0.796	5.091	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1333/N505	11.48	0.796	-2.318	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1333/N504	9.74	0.796	4.808	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1332/N504	9.12	0.796	-1.807	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1332/N503	9.13	0.796	4.483	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1331/N503	6.26	0.796	-1.191	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1331/N502	8.47	0.796	4.132	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1330/N502	3.86	0.796	-0.672	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1330/N501	7.60	0.796	3.666	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1329/N501	3.13	0.796	1.277	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1329/N500	6.78	0.796	3.230	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1328/N500	4.93	0.796	2.240	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1328/N499	6.69	0.796	-1.352	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1327/N499	7.00	0.796	3.348	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1327/N498	8.12	0.796	-1.660	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1326/N498	8.79	0.796	4.304	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1326/N497	9.95	0.796	-1.987	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1325/N497	10.29	0.796	5.107	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1325/N496	12.99	0.796	-2.642	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1324/N496	11.62	0.796	5.816	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1324/N495	17.30	0.796	-3.572	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1323/N495	12.73	0.796	6.410	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1323/N494	21.05	0.796	-4.381	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1322/N494	13.55	0.796	6.848	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1322/N493	23.55	0.796	-4.919	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1321/N493	14.07	0.796	7.127	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1321/N492	23.31	0.796	-4.868	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1320/N492	14.63	0.796	7.424	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1320/N491	18.44	0.796	-3.817	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1319/N491	16.47	0.796	8.409	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1319/N490	12.04	0.796	-2.438	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1318/N490	22.06	0.796	11.395	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1318/N489	19.67	0.796	-4.082	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1317/N489	21.83	0.796	11.271	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1317/N488	27.80	0.796	-5.837	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1338/N533	5.94	0.796	2.817	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1338/N532	33.42	0.796	-7.068	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1337/N532	5.04	0.796	2.335	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1337/N531	43.14	0.796	-9.165	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1336/N531	7.43	0.796	3.615	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1336/N530	46.48	0.796	-9.886	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1335/N530	9.85	0.796	4.908	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1335/N529	41.80	0.796	-8.875	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1334/N529	10.42	0.796	5.211	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1334/N528	35.97	0.796	-7.618	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1333/N528	9.23	0.796	4.575	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1333/N527	31.09	0.796	-6.565	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1332/N527	7.05	0.796	3.408	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1332/N526	26.76	0.796	-5.631	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1331/N526	4.94	0.796	2.286	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1331/N525	23.01	0.796	-4.821	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1330/N525	4.09	0.796	-0.800	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1330/N524	19.51	0.796	-4.066	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1329/N524	6.33	0.796	-1.282	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1329/N523	16.09	0.796	-3.327	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1328/N523	11.09	0.796	-2.249	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1328/N522	12.74	0.796	-2.605	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1327/N522	15.91	0.796	-3.289	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1327/N521	9.64	0.796	-1.936	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1326/N521	20.43	0.796	-4.265	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1326/N520	6.61	0.796	-1.343	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1325/N520	24.97	0.796	-5.243	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1325/N519	6.74	0.796	-1.371	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1324/N519	29.50	0.796	-6.222	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1324/N518	8.52	0.796	4.196	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1323/N518	33.99	0.796	-7.190	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1323/N517	10.73	0.796	5.378	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1322/N517	38.51	0.796	-8.165	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1322/N516	12.74	0.796	6.453	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1321/N516	43.33	0.796	-9.205	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1321/N515	14.07	0.796	7.163	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1320/N515	48.77	0.796	-10.379	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1320/N514	13.65	0.796	6.937	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1319/N514	53.09	0.796	-11.311	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1319/N513	10.08	0.796	5.030	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1318/N513	49.14	0.796	-10.459	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1318/N512	5.94	0.796	-1.198	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1317/N512	37.02	0.796	-7.844	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1317/N511	5.97	0.796	2.831	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1360/N533	11.38	0.796	-2.295	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1360/N532	8.28	0.796	4.031	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1359/N532	7.82	0.796	-1.527	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1359/N531	6.88	0.796	3.284	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1358/N531	5.00	0.796	-0.987	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1358/N530	5.90	0.796	-1.181	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1357/N530	5.03	0.796	2.294	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1357/N529	5.99	0.796	-1.201	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1356/N529	4.89	0.796	2.219	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1356/N528	5.83	0.796	-1.098	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1355/N528	4.23	0.796	1.868	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1355/N527	4.73	0.796	-0.860	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1354/N527	3.82	0.796	1.648	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1354/N526	4.71	0.796	-0.924	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1353/N526	3.62	0.796	1.539	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1353/N525	4.69	0.796	-0.920	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1352/N525	3.54	0.796	1.500	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1352/N524	4.66	0.796	-0.912	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1351/N524	3.57	0.796	1.516	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1351/N523	5.63	0.796	-1.122	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1350/N523	4.48	0.796	1.997	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1350/N522	6.98	0.796	-1.414	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1349/N522	5.39	0.796	2.488	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1349/N521	8.32	0.796	-1.705	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1348/N521	6.20	0.796	2.917	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1348/N520	9.62	0.796	-1.984	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1347/N520	6.99	0.796	-1.416	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1347/N519	10.88	0.796	-2.187	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1346/N519	8.06	0.796	-1.648	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1346/N518	12.08	0.796	-2.445	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1345/N518	9.13	0.796	-1.879	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1345/N517	13.21	0.796	-2.690	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1344/N517	10.17	0.796	-2.034	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1344/N516	13.87	0.796	-2.905	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1343/N516	10.98	0.796	-2.208	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1343/N515	13.98	0.796	-2.928	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1342/N515	11.05	0.796	-2.294	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1342/N514	12.84	0.796	-2.682	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1341/N514	10.52	0.796	-2.179	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1341/N513	10.21	0.796	-2.112	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1340/N513	10.56	0.796	5.246	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1340/N512	10.35	0.796	-2.072	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1339/N512	11.02	0.796	5.492	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1339/N511	11.45	0.796	-2.311	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1360/N556	5.09	0.796	-0.955	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1360/N555	14.22	0.796	-2.925	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1359/N555	2.92	0.796	1.205	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1359/N554	17.64	0.796	-3.663	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1358/N554	4.46	0.796	2.024	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1358/N553	21.57	0.796	-4.511	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1357/N553	5.97	0.796	2.832	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1357/N552	22.05	0.796	-4.613	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1356/N552	6.22	0.796	2.969	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1356/N551	19.76	0.796	-4.120	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1355/N551	5.87	0.796	2.778	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1355/N550	17.89	0.796	-3.716	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1354/N550	4.65	0.796	-0.921	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1354/N549	15.23	0.796	-3.142	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1353/N549	4.72	0.796	-0.935	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1353/N548	12.96	0.796	-2.652	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1352/N548	4.90	0.796	-0.974	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1352/N547	11.06	0.796	-2.241	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1351/N547	6.47	0.796	-1.251	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1351/N546	9.84	0.796	-1.980	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1350/N546	9.49	0.796	-1.903	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1350/N545	8.82	0.796	-1.759	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1349/N545	12.39	0.796	-2.529	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1349/N544	7.75	0.796	-1.528	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1348/N544	15.21	0.796	-3.137	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1348/N543	7.34	0.796	-1.439	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1347/N543	18.08	0.796	-3.758	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1347/N542	7.47	0.796	-1.530	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1346/N542	21.10	0.796	-4.409	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1346/N541	8.39	0.796	-1.729	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1345/N541	24.29	0.796	-5.097	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1345/N540	9.33	0.796	-1.932	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1344/N540	27.54	0.796	-5.799	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1344/N539	10.14	0.796	-2.107	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1343/N539	30.46	0.796	-6.428	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1343/N538	10.78	0.796	5.405	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1342/N538	32.02	0.796	-6.764	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1342/N537	10.23	0.796	5.108	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1341/N537	30.38	0.796	-6.411	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1341/N536	7.81	0.796	3.817	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1340/N536	24.73	0.796	-5.191	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1340/N535	5.83	0.796	-1.176	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1339/N535	17.79	0.796	-3.695	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1339/N534	3.82	0.796	-0.680	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1382/N556	3.41	0.796	-0.576	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1382/N555	13.54	0.796	-2.760	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1381/N555	3.74	0.796	1.604	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1381/N554	16.77	0.796	-3.457	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1380/N554	5.41	0.796	2.499	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1380/N553	19.84	0.796	-4.121	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1379/N553	7.22	0.796	3.466	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1379/N552	20.11	0.796	-4.177	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1378/N552	7.67	0.796	3.702	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1378/N551	17.89	0.796	-3.699	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1377/N551	7.02	0.796	3.357	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1377/N550	14.69	0.796	-3.008	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1376/N550	5.90	0.796	2.757	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1376/N549	11.86	0.796	-2.398	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1375/N549	5.03	0.796	2.296	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1375/N548	9.67	0.796	-1.927	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1374/N548	4.27	0.796	1.886	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1374/N547	7.75	0.796	-1.512	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1373/N547	3.57	0.796	1.512	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1373/N546	7.20	0.796	-1.393	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1372/N546	3.76	0.796	1.613	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1372/N545	7.70	0.796	-1.501	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1371/N545	4.77	0.796	-0.869	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1371/N544	8.61	0.796	-1.766	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1370/N544	6.68	0.796	-1.281	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1370/N543	9.87	0.796	-2.039	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1369/N543	8.55	0.796	-1.685	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1369/N542	11.02	0.796	-2.289	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1368/N542	10.48	0.796	-2.102	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1368/N541	12.07	0.796	-2.515	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1367/N541	12.55	0.796	-2.548	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1367/N540	12.98	0.796	-2.711	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1366/N540	15.09	0.796	-3.096	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1366/N539	13.60	0.796	-2.846	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1365/N539	18.25	0.796	-3.776	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1365/N538	13.65	0.796	-2.857	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1364/N538	20.39	0.796	-4.239	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1364/N537	12.60	0.796	-2.629	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1363/N537	20.05	0.796	-4.165	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1363/N536	9.96	0.796	-2.059	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1362/N536	16.90	0.796	-3.486	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1362/N535	8.44	0.796	-1.731	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1361/N535	13.61	0.796	-2.777	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1361/N534	3.37	0.796	-0.568	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1382/N579	10.89	0.796	-2.205	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1382/N578	8.32	0.796	4.087	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1381/N578	8.07	0.796	-1.597	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1381/N577	6.18	0.796	2.944	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1380/N577	6.32	0.796	-1.280	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1380/N576	5.34	0.796	-1.070	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1379/N576	5.75	0.796	-1.157	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1379/N575	6.70	0.796	-1.302	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1378/N575	5.42	0.796	-1.085	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1378/N574	7.21	0.796	-1.411	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1377/N574	5.25	0.796	-0.989	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1377/N573	7.92	0.796	-1.564	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1376/N573	5.73	0.796	-1.093	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1376/N572	6.22	0.796	-1.198	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1375/N572	6.26	0.796	-1.207	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1375/N571	5.19	0.796	-0.977	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1374/N571	6.57	0.796	-1.275	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1374/N570	4.81	0.796	-0.895	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1373/N570	6.66	0.796	-1.293	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1373/N569	4.89	0.796	-0.911	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1372/N569	7.85	0.796	-1.549	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1372/N568	5.57	0.796	-1.058	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1371/N568	8.98	0.796	-1.793	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1371/N567	6.94	0.796	-1.352	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1370/N567	10.33	0.796	-2.086	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1370/N566	8.13	0.796	-1.611	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1369/N566	11.84	0.796	-2.410	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1369/N565	9.07	0.796	-1.813	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1368/N565	13.56	0.796	-2.783	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1368/N564	9.81	0.796	-1.974	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1367/N564	15.62	0.796	-3.227	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1367/N563	10.61	0.796	-2.146	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1366/N563	17.69	0.796	-3.673	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1366/N562	11.24	0.796	-2.280	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1365/N562	18.98	0.796	-3.952	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1365/N561	11.41	0.796	-2.382	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1364/N561	17.97	0.796	-3.734	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1364/N560	10.40	0.796	-2.163	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1363/N560	13.71	0.796	-2.878	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1363/N559	7.92	0.796	-1.627	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1362/N559	10.18	0.796	-2.116	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1362/N558	7.38	0.796	-1.448	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1361/N558	8.51	0.796	-1.755	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1361/N557	10.91	0.796	-2.211	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1404/N579	5.76	0.796	2.683	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1404/N578	34.38	0.796	-7.255	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1403/N578	4.86	0.796	2.204	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1403/N577	42.46	0.796	-8.997	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1402/N577	7.95	0.796	3.855	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1402/N576	44.39	0.796	-9.414	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1401/N576	10.93	0.796	5.446	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1401/N575	39.27	0.796	-8.309	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1400/N575	11.30	0.796	5.646	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1400/N574	33.17	0.796	-6.995	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1399/N574	10.18	0.796	5.043	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1399/N573	27.80	0.796	-5.837	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1398/N573	8.45	0.796	4.119	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1398/N572	23.01	0.796	-4.804	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1397/N572	6.62	0.796	3.141	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1397/N571	19.04	0.796	-3.948	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1396/N571	5.13	0.796	2.348	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1396/N570	15.20	0.796	-3.118	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1395/N570	3.70	0.796	1.583	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1395/N569	13.28	0.796	-2.705	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1394/N569	5.05	0.796	-0.998	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1394/N568	12.33	0.796	-2.499	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1393/N568	8.40	0.796	-1.652	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1393/N567	11.24	0.796	-2.265	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1392/N567	11.64	0.796	-2.352	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1392/N566	10.62	0.796	-2.201	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1391/N566	15.12	0.796	-3.102	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1391/N565	11.48	0.796	-2.387	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1390/N565	18.97	0.796	-3.931	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1390/N564	12.46	0.796	-2.599	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1389/N564	23.28	0.796	-4.862	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1389/N563	13.26	0.796	-2.773	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1388/N563	28.08	0.796	-5.896	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1388/N562	13.81	0.796	-2.890	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1387/N562	33.41	0.796	-7.047	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1387/N561	13.86	0.796	-2.903	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1386/N561	39.46	0.796	-8.350	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1386/N560	12.85	0.796	-2.683	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1385/N560	44.50	0.796	-9.438	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1385/N559	9.87	0.796	-2.039	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1384/N559	42.47	0.796	-8.999	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1384/N558	8.37	0.796	-1.715	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1383/N558	34.31	0.796	-7.241	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1383/N557	5.77	0.796	2.688	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1404/N602	27.76	0.796	-5.845	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1404/N601	20.03	0.796	10.345	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1403/N601	19.20	0.796	-3.999	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1403/N600	18.53	0.796	9.543	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1402/N600	10.18	0.796	-2.053	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1402/N599	12.10	0.796	6.107	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1401/N599	10.77	0.796	-2.181	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1401/N598	9.64	0.796	4.794	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1400/N598	15.64	0.796	-3.230	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1400/N597	8.94	0.796	4.422	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1399/N597	16.52	0.796	-3.421	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1399/N596	8.38	0.796	4.122	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1398/N596	14.95	0.796	-3.082	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1398/N595	7.74	0.796	3.779	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1397/N595	12.43	0.796	-2.539	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1397/N594	7.08	0.796	3.427	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1396/N594	10.26	0.796	-2.070	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1396/N593	6.32	0.796	3.021	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1395/N593	7.87	0.796	-1.554	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1395/N592	6.06	0.796	2.883	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1394/N592	8.60	0.796	-1.711	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1394/N591	5.90	0.796	-1.191	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1393/N591	9.64	0.796	-2.000	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1393/N590	7.72	0.796	-1.521	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1392/N590	10.97	0.796	-2.286	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1392/N589	9.70	0.796	-1.948	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1391/N589	12.21	0.796	-2.555	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1391/N588	12.01	0.796	-2.448	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1390/N588	13.39	0.796	-2.811	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1390/N587	14.12	0.796	-2.902	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1389/N587	14.54	0.796	-3.059	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1389/N586	16.00	0.796	-3.307	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1388/N586	15.52	0.796	-3.271	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1388/N585	17.17	0.796	-3.560	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1387/N585	15.97	0.796	-3.368	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1387/N584	16.61	0.796	-3.439	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1386/N584	15.33	0.796	-3.230	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1386/N583	13.07	0.796	-2.677	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1385/N583	13.04	0.796	-2.734	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1385/N582	9.42	0.796	-1.888	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1384/N582	18.55	0.796	9.557	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1384/N581	19.25	0.796	-4.010	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1383/N581	20.00	0.796	10.332	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1383/N580	27.84	0.796	-5.864	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1426/N602	12.38	0.796	6.223	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1426/N601	43.83	0.796	-9.293	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1425/N601	11.14	0.796	-2.243	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1425/N600	94.23	0.796	-20.161	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1424/N600	16.94	0.796	8.655	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1424/N599	82.70	0.796	-17.676	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1423/N599	21.44	0.796	11.064	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1423/N598	67.67	0.796	-14.435	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1422/N598	20.12	0.796	10.358	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1422/N597	57.31	0.796	-12.200	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1421/N597	17.30	0.796	8.851	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1421/N596	49.33	0.796	-10.479	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1420/N596	14.09	0.796	7.136	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1420/N595	41.83	0.796	-8.862	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1419/N595	10.70	0.796	5.324	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1419/N594	34.13	0.796	-7.202	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1418/N594	7.27	0.796	3.490	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1418/N593	26.84	0.796	-5.629	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1417/N593	4.43	0.796	1.971	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1417/N592	20.82	0.796	-4.330	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1416/N592	6.16	0.796	-1.237	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1416/N591	17.36	0.796	-3.586	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1415/N591	12.70	0.796	-2.579	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1415/N590	14.11	0.796	-2.956	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1414/N590	19.43	0.796	-4.030	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1414/N589	11.26	0.796	-2.339	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1413/N589	26.74	0.796	-5.608	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1413/N588	12.54	0.796	-2.616	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1412/N588	34.46	0.796	-7.272	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1412/N587	13.63	0.796	-2.853	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1411/N587	42.18	0.796	-8.936	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1411/N586	14.50	0.796	-3.041	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1410/N586	49.64	0.796	-10.545	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1410/N585	17.39	0.796	8.899	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1409/N585	57.56	0.796	-12.255	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1409/N584	20.18	0.796	10.388	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1408/N584	67.85	0.796	-14.473	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1408/N583	21.46	0.796	11.075	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1407/N583	82.78	0.796	-17.693	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1407/N582	16.92	0.796	8.646	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1406/N582	94.17	0.796	-20.150	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1406/N581	16.52	0.796	-3.403	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1405/N581	43.56	0.796	-9.235	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1405/N580	12.42	0.796	6.242	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1426/N625	10.98	0.796	-2.225	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1426/N624	6.07	0.796	2.888	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1425/N624	25.13	0.796	-5.278	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1425/N623	38.93	0.796	-8.255	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1424/N623	12.01	0.796	6.058	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1424/N622	36.91	0.796	-7.821	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1423/N622	11.86	0.796	5.980	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1423/N621	30.13	0.796	-6.358	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1422/N621	9.53	0.796	4.737	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1422/N620	25.95	0.796	-5.456	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1421/N620	7.75	0.796	3.785	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1421/N619	24.15	0.796	-5.066	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1420/N619	6.74	0.796	-1.371	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1420/N618	21.47	0.796	-4.488	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1419/N618	6.92	0.796	-1.410	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1419/N617	19.18	0.796	-3.993	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1418/N617	7.13	0.796	-1.456	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1418/N616	16.80	0.796	-3.481	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1417/N616	9.19	0.796	-1.838	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1417/N615	14.48	0.796	-2.981	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1416/N615	11.76	0.796	-2.393	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1416/N614	13.39	0.796	-2.746	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1415/N614	13.54	0.796	-2.777	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1415/N613	11.64	0.796	-2.367	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1414/N613	15.25	0.796	-3.147	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1414/N612	9.88	0.796	-1.987	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1413/N612	18.51	0.796	-3.850	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1413/N611	9.29	0.796	-1.924	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 20/12/24

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1412/N611	21.89	0.796	-4.578	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1412/N610	9.53	0.796	-1.976	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1411/N610	25.33	0.796	-5.322	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1411/N609	9.93	0.796	-2.062	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1410/N609	28.95	0.796	-6.102	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1410/N608	11.14	0.796	5.598	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1409/N608	32.68	0.796	-6.908	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1409/N607	13.08	0.796	6.632	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1408/N607	36.19	0.796	-7.666	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1408/N606	15.39	0.796	7.868	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1407/N606	39.77	0.796	-8.437	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1407/N605	15.47	0.796	7.912	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1406/N605	38.76	0.796	-8.219	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1406/N604	25.62	0.796	-5.384	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1405/N604	6.10	0.796	2.903	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1405/N603	11.62	0.796	-2.363	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1448/N625	19.04	0.796	-3.948	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1448/N624	5.32	0.796	2.450	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1447/N624	26.57	0.796	-5.571	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1447/N623	31.43	0.796	-6.620	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1446/N623	12.83	0.796	6.462	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1446/N622	30.78	0.796	-6.479	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1445/N622	12.61	0.796	6.346	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1445/N621	24.91	0.796	-5.214	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1444/N621	10.35	0.796	5.138	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1444/N620	20.09	0.796	-4.174	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1443/N620	8.93	0.796	4.378	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1443/N619	16.54	0.796	-3.407	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1442/N619	7.87	0.796	3.810	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1442/N618	13.42	0.796	-2.735	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1441/N618	6.95	0.796	3.317	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1441/N617	11.99	0.796	-2.426	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1440/N617	6.07	0.796	2.848	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1440/N616	11.42	0.796	-2.304	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1439/N616	5.16	0.796	2.365	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1439/N615	10.92	0.796	-2.196	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1438/N615	4.22	0.796	1.859	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1438/N614	11.37	0.796	-2.364	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1437/N614	4.20	0.796	1.850	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1437/N613	12.37	0.796	-2.579	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1436/N613	5.49	0.796	-1.024	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1436/N612	13.02	0.796	-2.721	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1435/N612	7.82	0.796	-1.526	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1435/N611	13.77	0.796	-2.882	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1434/N611	10.45	0.796	-2.094	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1434/N610	14.42	0.796	-3.024	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1433/N610	13.26	0.796	-2.701	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1433/N609	15.01	0.796	-3.151	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1432/N609	16.38	0.796	-3.373	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1432/N608	15.44	0.796	-3.243	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1431/N608	19.93	0.796	-4.139	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1431/N607	15.57	0.796	-3.270	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1430/N607	24.82	0.796	-5.193	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1430/N606	15.45	0.796	-3.246	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1429/N606	30.69	0.796	-6.459	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1429/N605	16.07	0.796	-3.379	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1428/N605	28.66	0.796	-6.022	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1428/N604	37.83	0.796	-8.000	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1427/N604	5.32	0.796	2.447	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1427/N603	22.10	0.796	-4.606	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1448/N648	13.60	0.796	-2.854	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1448/N647	39.79	0.796	-8.443	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1447/N647	18.77	0.796	-3.906	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1447/N646	92.37	0.796	-19.787	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1446/N646	17.84	0.796	9.178	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1446/N645	83.08	0.796	-17.783	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1445/N645	21.42	0.796	11.090	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1445/N644	69.42	0.796	-14.834	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1444/N644	20.95	0.796	10.838	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1444/N643	61.99	0.796	-13.233	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1443/N643	18.81	0.796	9.695	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1443/N642	58.62	0.796	-12.504	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1442/N642	19.62	0.796	-4.156	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1442/N641	53.94	0.796	-11.494	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1441/N641	20.74	0.796	-4.400	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1441/N640	49.49	0.796	-10.535	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1440/N640	21.57	0.796	-4.580	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1440/N639	44.86	0.796	-9.535	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1439/N639	23.35	0.796	-4.964	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1439/N638	39.80	0.796	-8.444	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1438/N638	30.72	0.796	-6.485	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1438/N637	35.29	0.796	-7.471	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1437/N637	37.65	0.796	-7.979	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1437/N636	29.38	0.796	-6.195	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1436/N636	43.63	0.796	-9.270	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1436/N635	23.61	0.796	-5.020	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1435/N635	50.26	0.796	-10.701	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1435/N634	22.62	0.796	-4.806	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1434/N634	56.91	0.796	-12.136	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1434/N633	22.49	0.796	-4.779	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1433/N633	63.32	0.796	-13.518	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1433/N632	22.48	0.796	11.655	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1432/N632	69.40	0.796	-14.831	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1432/N631	24.83	0.796	12.910	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1431/N631	75.41	0.796	-16.127	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1431/N630	26.70	0.796	13.911	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1430/N630	82.51	0.796	-17.659	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1430/N629	26.97	0.796	14.055	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1429/N629	94.67	0.796	-20.284	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1429/N628	21.51	0.796	11.139	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1428/N628	102.08	0.796	-21.883	0.000	0.000	0.00	0.00	0.00	GV	No cumple
N1428/N627	18.61	0.796	-3.872	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1427/N627	48.87	0.796	-10.402	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1427/N626	12.53	0.796	6.339	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1470/N648	28.22	0.796	-5.928	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1470/N647	18.82	0.796	9.664	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1469/N647	25.12	0.796	-5.258	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1469/N646	18.90	0.796	9.708	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1468/N646	20.21	0.796	-4.199	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1468/N645	14.53	0.796	-3.046	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 20/12/24

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1467/N645	19.95	0.796	-4.142	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1467/N644	16.58	0.796	-3.489	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1466/N644	19.55	0.796	-4.058	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1466/N643	19.15	0.796	-4.045	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1465/N643	18.91	0.796	-3.920	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1465/N642	21.95	0.796	-4.650	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1464/N642	18.74	0.796	-3.882	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1464/N641	24.64	0.796	-5.231	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1463/N641	17.23	0.796	-3.556	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1463/N640	26.94	0.796	-5.730	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1462/N640	15.35	0.796	-3.151	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1462/N639	28.83	0.796	-6.138	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1461/N639	13.72	0.796	-2.801	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1461/N638	30.46	0.796	-6.490	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1460/N638	14.10	0.796	-2.953	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1460/N637	31.86	0.796	-6.792	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1459/N637	15.54	0.796	-3.266	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1459/N636	33.13	0.796	-7.068	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1458/N636	16.92	0.796	-3.562	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1458/N635	34.42	0.796	-7.263	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1457/N635	17.96	0.796	-3.787	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1457/N634	37.22	0.796	-7.868	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1456/N634	19.04	0.796	-4.022	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1456/N633	40.14	0.796	-8.498	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1455/N633	20.51	0.796	-4.339	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1455/N632	42.77	0.796	-9.064	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1454/N632	22.15	0.796	-4.694	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1454/N631	44.02	0.796	-9.333	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1453/N631	23.23	0.796	-4.928	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1453/N630	42.33	0.796	-8.969	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1452/N630	22.98	0.796	-4.873	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1452/N629	35.68	0.796	-7.536	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1451/N629	22.39	0.796	11.573	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1451/N628	25.87	0.796	-5.420	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1450/N628	25.54	0.796	13.256	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1450/N627	25.42	0.796	-5.322	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1449/N627	23.32	0.796	12.067	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1449/N626	28.38	0.796	-5.961	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1470/N671	15.26	0.796	-3.149	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1470/N670	30.80	0.796	-6.501	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1469/N670	10.16	0.796	-2.112	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1469/N669	42.05	0.796	-8.930	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1468/N669	13.37	0.796	-2.806	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1468/N668	45.13	0.796	-9.593	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1467/N668	15.57	0.796	-3.282	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1467/N667	42.10	0.796	-8.941	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1466/N667	17.09	0.796	-3.611	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1466/N666	40.94	0.796	-8.690	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1465/N666	18.04	0.796	-3.816	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1465/N665	40.23	0.796	-8.536	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1464/N665	19.27	0.796	-4.082	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1464/N664	38.46	0.796	-8.155	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1463/N664	20.49	0.796	-4.344	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1463/N663	36.65	0.796	-7.763	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1462/N663	21.52	0.796	-4.569	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1462/N662	34.51	0.796	-7.302	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1461/N662	24.16	0.796	-5.070	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1461/N661	32.22	0.796	-6.809	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1460/N661	28.58	0.796	-6.023	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1460/N660	29.89	0.796	-6.306	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1459/N660	32.94	0.796	-6.963	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1459/N659	27.18	0.796	-5.721	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1458/N659	36.99	0.796	-7.838	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1458/N658	24.86	0.796	-5.220	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1457/N658	40.97	0.796	-8.695	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1457/N657	23.47	0.796	-4.991	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1456/N657	44.94	0.796	-9.553	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1456/N656	23.40	0.796	-4.974	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1455/N656	49.00	0.796	-10.429	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1455/N655	23.61	0.796	-5.021	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1454/N655	53.20	0.796	-11.336	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1454/N654	23.83	0.796	-5.068	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1453/N654	57.56	0.796	-12.275	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1453/N653	23.46	0.796	-4.987	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1452/N653	61.93	0.796	-13.219	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1452/N652	21.78	0.796	-4.624	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1451/N652	64.51	0.796	-13.776	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1451/N651	18.01	0.796	-3.809	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1450/N651	59.13	0.796	-12.614	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1450/N650	13.49	0.796	-2.832	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1449/N650	45.53	0.796	-9.680	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1449/N649	7.65	0.796	-1.506	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1492/N671	12.51	0.796	-2.538	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1492/N670	8.29	0.796	-1.697	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1491/N670	14.35	0.796	-2.936	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1491/N669	12.08	0.796	-2.516	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1490/N669	14.16	0.796	-2.894	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1490/N668	14.77	0.796	-3.099	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1489/N668	12.24	0.796	-2.551	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1489/N667	16.75	0.796	-3.527	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1488/N667	10.27	0.796	5.093	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1488/N666	18.25	0.796	-3.851	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1487/N666	10.24	0.796	5.077	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1487/N665	21.37	0.796	-4.524	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1486/N665	11.67	0.796	-2.358	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1486/N664	24.25	0.796	-5.147	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1485/N664	12.70	0.796	-2.579	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1485/N663	26.65	0.796	-5.666	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1484/N663	13.00	0.796	-2.716	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1484/N662	28.57	0.796	-6.081	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1483/N662	12.98	0.796	-2.712	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1483/N661	30.24	0.796	-6.442	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1482/N661	13.31	0.796	-2.783	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1482/N660	31.77	0.796	-6.774	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1481/N660	15.00	0.796	-3.147	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1481/N659	33.25	0.796	-7.093	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1480/N659	16.59	0.796	-3.492	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1480/N658	34.81	0.796	-7.431	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1479/N658	17.84	0.796	-3.761	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1479/N657	36.20	0.796	-7.647	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1478/N657	19.06	0.796	-4.027	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1478/N656	37.28	0.796	-7.881	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1477/N656	20.72	0.796	-4.385	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1477/N655	37.96	0.796	-8.027	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1476/N655	22.68	0.796	-4.807	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1476/N654	37.83	0.796	-8.000	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1475/N654	24.15	0.796	-5.125	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1475/N653	36.24	0.796	-7.740	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1474/N653	24.31	0.796	-5.160	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1474/N652	32.63	0.796	-6.960	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1473/N652	22.71	0.796	-4.815	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1473/N651	27.18	0.796	-5.703	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1472/N651	19.42	0.796	-4.104	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1472/N650	19.46	0.796	-4.038	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1471/N650	15.13	0.796	7.689	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1471/N649	12.62	0.796	-2.563	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1492/N694	13.09	0.796	-2.681	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1492/N693	10.53	0.796	-2.128	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1491/N693	10.49	0.796	-2.183	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1491/N692	17.36	0.796	-3.601	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1490/N692	13.92	0.796	-2.926	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1490/N691	22.70	0.796	-4.753	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1489/N691	16.51	0.796	-3.485	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1489/N690	26.08	0.796	-5.484	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1488/N690	18.18	0.796	-3.846	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1488/N689	29.99	0.796	-6.327	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1487/N689	19.10	0.796	-4.045	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1487/N688	31.23	0.796	-6.595	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1486/N688	19.57	0.796	-4.147	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1486/N687	29.99	0.796	-6.326	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1485/N687	20.50	0.796	-4.348	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1485/N686	28.88	0.796	-6.088	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1484/N686	22.04	0.796	-4.612	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1484/N685	27.77	0.796	-5.848	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1483/N685	23.95	0.796	-5.025	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1483/N684	26.77	0.796	-5.633	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1482/N684	26.05	0.796	-5.476	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1482/N683	25.92	0.796	-5.448	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1481/N683	29.03	0.796	-6.120	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1481/N682	25.69	0.796	-5.398	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1480/N682	31.87	0.796	-6.732	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1480/N681	25.70	0.796	-5.402	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1479/N681	34.58	0.796	-7.318	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1479/N680	24.97	0.796	-5.243	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1478/N680	37.35	0.796	-7.916	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1478/N679	24.61	0.796	-5.235	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1477/N679	40.42	0.796	-8.578	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1477/N678	25.09	0.796	-5.340	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1476/N678	43.72	0.796	-9.290	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1476/N677	25.58	0.796	-5.447	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1475/N677	46.69	0.796	-9.930	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1475/N676	25.21	0.796	-5.367	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1474/N676	48.27	0.796	-10.272	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1474/N675	23.22	0.796	-4.936	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1473/N675	46.83	0.796	-9.960	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1473/N674	19.20	0.796	-4.066	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1472/N674	40.88	0.796	-8.678	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1472/N673	13.88	0.796	-2.916	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1471/N673	29.99	0.796	-6.327	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1471/N672	7.46	0.796	-1.465	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1514/N694	4.98	0.796	-0.915	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1514/N693	13.76	0.796	-2.808	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1513/N693	6.33	0.796	-1.274	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1513/N692	19.73	0.796	-4.096	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1512/N692	8.53	0.796	4.164	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1512/N691	24.28	0.796	-5.076	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1511/N691	10.84	0.796	5.398	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1511/N690	26.28	0.796	-5.508	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1510/N690	12.01	0.796	6.022	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1510/N689	25.71	0.796	-5.386	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1509/N689	12.10	0.796	6.071	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1509/N688	24.95	0.796	-5.222	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1508/N688	11.65	0.796	5.832	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1508/N687	27.12	0.796	-5.688	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1507/N687	11.39	0.796	-2.368	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1507/N686	28.82	0.796	-6.056	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1506/N686	12.69	0.796	-2.650	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1506/N685	30.20	0.796	-6.353	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1505/N685	13.54	0.796	-2.833	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1505/N684	31.72	0.796	-6.682	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1504/N684	14.37	0.796	-3.012	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1504/N683	33.39	0.796	-7.124	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1503/N683	15.41	0.796	-3.237	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1503/N682	35.14	0.796	-7.502	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1502/N682	16.60	0.796	-3.421	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1502/N681	36.41	0.796	-7.777	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1501/N681	18.23	0.796	-3.773	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1501/N680	37.19	0.796	-7.946	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1500/N680	20.09	0.796	-4.174	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1500/N679	37.65	0.796	-8.045	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1499/N679	22.64	0.796	-4.724	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1499/N678	37.90	0.796	-8.098	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1498/N678	25.77	0.796	-5.399	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1498/N677	37.70	0.796	-8.055	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1497/N677	28.53	0.796	-5.993	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1497/N676	36.57	0.796	-7.811	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1496/N676	29.70	0.796	-6.246	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1496/N675	33.87	0.796	-7.228	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1495/N675	28.27	0.796	-5.937	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1495/N674	28.95	0.796	-6.163	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1494/N674	24.06	0.796	-5.030	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1494/N673	19.01	0.796	-4.016	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1493/N673	17.56	0.796	-3.629	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1493/N672	4.62	0.796	-0.837	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1514/N717	9.20	0.796	-1.842	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1514/N716	7.49	0.796	3.643	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1513/N716	11.39	0.796	-2.313	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1513/N715	7.57	0.796	3.690	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1512/N715	14.42	0.796	-3.033	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1512/N714	10.70	0.796	-2.165	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Listados
Coberta de 46'8x28'6 malla tetràedres
Fecha: 20/12/24

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1511/N714	17.34	0.796	-3.665	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1511/N713	16.50	0.796	-3.417	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1510/N713	19.28	0.796	-4.085	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1510/N712	21.36	0.796	-4.465	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1509/N712	20.28	0.796	-4.300	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1509/N711	23.20	0.796	-4.862	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1508/N711	21.01	0.796	-4.388	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1508/N710	22.51	0.796	-4.712	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1507/N710	21.92	0.796	-4.585	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1507/N709	22.05	0.796	-4.614	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1506/N709	22.89	0.796	-4.795	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1506/N708	21.72	0.796	-4.543	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1505/N708	23.69	0.796	-4.968	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1505/N707	22.09	0.796	-4.622	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1504/N707	25.06	0.796	-5.264	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1504/N706	23.66	0.796	-4.961	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1503/N706	26.78	0.796	-5.634	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1503/N705	25.53	0.796	-5.365	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1502/N705	28.31	0.796	-5.965	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1502/N704	26.59	0.796	-5.593	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1501/N704	29.58	0.796	-6.240	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1501/N703	26.73	0.796	-5.624	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1500/N703	31.05	0.796	-6.555	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1500/N702	26.64	0.796	-5.605	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1499/N702	33.36	0.796	-7.054	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1499/N701	27.17	0.796	-5.719	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1498/N701	35.86	0.796	-7.593	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1498/N700	27.74	0.796	-5.914	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1497/N700	37.56	0.796	-7.960	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1497/N699	27.35	0.796	-5.829	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1496/N699	37.06	0.796	-7.852	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1496/N698	24.88	0.796	-5.295	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1495/N698	33.19	0.796	-7.017	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1495/N697	20.42	0.796	-4.331	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1494/N697	27.97	0.796	-5.963	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1494/N696	14.94	0.796	-3.080	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1493/N696	20.84	0.796	-4.421	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1493/N695	8.24	0.796	-1.634	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1536/N717	5.35	0.796	-0.995	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1536/N716	28.27	0.796	-5.938	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1535/N716	6.06	0.796	2.844	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1535/N715	37.20	0.796	-7.863	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1534/N715	9.50	0.796	4.684	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1534/N714	41.40	0.796	-8.768	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1533/N714	12.82	0.796	6.458	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1533/N713	39.83	0.796	-8.431	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1532/N713	14.10	0.796	7.139	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1532/N712	36.59	0.796	-7.731	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1531/N712	13.92	0.796	7.043	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1531/N711	33.07	0.796	-6.972	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1530/N711	13.04	0.796	6.576	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1530/N710	34.43	0.796	-7.267	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1529/N710	11.99	0.796	6.015	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1529/N709	35.72	0.796	-7.545	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1528/N709	12.28	0.796	-2.559	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1528/N708	36.49	0.796	-7.709	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1527/N708	14.01	0.796	-2.934	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1527/N707	37.12	0.796	-7.846	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1526/N707	16.39	0.796	-3.450	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1526/N706	37.73	0.796	-7.977	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1525/N706	19.21	0.796	-3.984	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1525/N705	38.23	0.796	-8.085	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1524/N705	21.76	0.796	-4.533	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1524/N704	38.47	0.796	-8.221	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1523/N704	24.08	0.796	-5.034	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1523/N703	38.81	0.796	-8.296	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1522/N703	26.47	0.796	-5.548	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1522/N702	38.87	0.796	-8.307	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1521/N702	29.28	0.796	-6.155	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1521/N701	38.84	0.796	-8.303	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1520/N701	32.60	0.796	-6.872	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1520/N700	38.75	0.796	-8.283	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1519/N700	36.14	0.796	-7.634	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1519/N699	38.38	0.796	-8.203	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1518/N699	39.41	0.796	-8.341	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1518/N698	35.94	0.796	-7.675	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1517/N698	41.01	0.796	-8.685	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1517/N697	31.20	0.796	-6.650	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1516/N697	36.86	0.796	-7.790	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1516/N696	19.81	0.796	-4.188	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1515/N696	28.79	0.796	-6.051	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1515/N695	5.05	0.796	-0.929	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1536/N740	23.06	0.796	-4.831	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1536/N739	15.63	0.796	7.995	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1535/N739	13.73	0.796	-2.819	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1535/N738	15.80	0.796	8.087	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1534/N738	14.91	0.796	-3.138	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1534/N737	12.79	0.796	6.480	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1533/N737	18.95	0.796	-3.946	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1533/N736	11.89	0.796	5.996	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1532/N736	24.40	0.796	-5.120	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1532/N735	14.23	0.796	-2.992	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1531/N735	26.92	0.796	-5.664	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1531/N734	15.90	0.796	-3.352	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1530/N734	27.07	0.796	-5.697	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1530/N733	16.52	0.796	-3.486	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1529/N733	26.22	0.796	-5.514	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1529/N732	18.65	0.796	-3.948	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1528/N732	25.06	0.796	-5.263	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1528/N731	19.81	0.796	-4.198	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1527/N731	23.92	0.796	-5.018	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1527/N730	21.03	0.796	-4.462	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1526/N730	25.51	0.815	-5.368	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1526/N729	23.62	0.815	-4.961	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1525/N729	27.01	0.796	-5.683	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1525/N728	26.15	0.796	-5.499	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1524/N728	28.67	0.796	-6.113	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1524/N727	28.11	0.796	-5.922	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1523/N727	30.08	0.796	-6.420	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1523/N726	29.53	0.796	-6.229	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1522/N726	31.33	0.796	-6.689	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1522/N725	30.71	0.796	-6.481	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1521/N725	32.75	0.796	-6.996	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1521/N724	32.35	0.796	-6.836	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1520/N724	34.21	0.796	-7.313	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1520/N723	33.67	0.796	-7.122	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1519/N723	34.91	0.796	-7.463	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1519/N722	32.70	0.796	-6.913	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1518/N722	34.03	0.796	-7.272	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1518/N721	28.32	0.796	-5.966	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1517/N721	31.68	0.796	-6.766	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1517/N720	21.72	0.796	-4.612	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1516/N720	30.19	0.796	-6.442	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1516/N719	17.70	0.796	-3.674	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1515/N719	22.37	0.796	-4.753	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1515/N718	23.08	0.796	-4.837	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1552/N740	10.49	0.796	5.209	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1552/N739	34.77	0.796	-7.340	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1551/N739	12.77	0.796	-2.594	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1551/N738	76.02	0.796	-16.235	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1550/N738	14.54	0.796	7.377	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1550/N737	67.66	0.796	-14.432	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1549/N737	18.98	0.796	9.749	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1549/N736	58.23	0.796	-12.398	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1548/N736	19.17	0.796	9.851	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1548/N735	52.19	0.796	-11.095	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1547/N733	14.01	0.796	7.094	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1547/N732	44.10	0.796	-9.352	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1546/N732	12.08	0.796	6.062	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1546/N731	43.73	0.796	-9.272	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1545/N731	13.40	0.796	-2.803	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1545/N730	43.01	0.796	-9.117	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1544/N728	27.70	0.796	-5.815	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1544/N727	41.05	0.796	-8.780	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1543/N727	32.21	0.796	-6.786	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1543/N726	40.72	0.796	-8.707	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1542/N726	36.59	0.796	-7.731	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1542/N725	40.47	0.796	-8.655	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1541/N723	51.69	0.796	-10.989	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1541/N722	42.68	0.796	-9.132	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1540/N722	57.76	0.796	-12.297	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1540/N721	41.33	0.796	-8.841	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1539/N721	67.40	0.796	-14.375	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1539/N720	35.66	0.796	-7.615	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1538/N720	76.48	0.796	-16.334	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1538/N719	24.27	0.796	-5.076	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1537/N719	34.92	0.796	-7.371	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1537/N718	10.50	0.796	5.215	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1552/N763	17.50	0.796	-3.698	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1552/N762	11.80	0.796	-2.466	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1551/N762	20.82	0.796	-4.349	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1551/N761	35.60	0.796	-7.538	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1550/N761	11.17	0.796	5.611	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1550/N760	31.31	0.796	-6.611	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1549/N760	11.73	0.796	5.910	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1549/N759	27.55	0.796	-5.801	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1548/N759	13.87	0.796	-2.914	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1548/N758	28.57	0.796	-6.020	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1547/N756	15.95	0.796	-3.364	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1547/N755	25.52	0.796	-5.362	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1546/N755	16.62	0.796	-3.508	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1546/N754	22.86	0.796	-4.789	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1545/N754	17.35	0.796	-3.666	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1545/N753	21.12	0.796	-4.414	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1544/N751	20.86	0.796	-4.356	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1544/N750	21.37	0.796	-4.536	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1543/N750	23.19	0.796	-4.859	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1543/N749	20.49	0.796	-4.344	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1542/N749	25.84	0.796	-5.431	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1542/N748	19.81	0.796	-4.198	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1541/N746	28.89	0.796	-6.089	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1541/N745	19.57	0.796	-4.146	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1540/N745	28.69	0.796	-6.048	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1540/N744	19.18	0.796	9.893	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1539/N744	30.69	0.796	-6.478	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1539/N743	19.92	0.796	10.290	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1538/N743	35.16	0.796	-7.443	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1538/N742	26.48	0.796	-5.571	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1537/N742	11.33	0.796	-2.365	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1537/N741	17.47	0.796	-3.692	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1568/N763	32.21	0.796	-6.788	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1568/N762	20.22	0.796	-4.276	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1567/N762	19.89	0.796	-4.130	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1567/N761	26.36	0.796	-5.525	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1566/N761	10.40	0.796	5.160	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1566/N760	26.09	0.796	-5.467	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1565/N760	11.12	0.796	5.545	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1565/N759	23.62	0.796	-4.934	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1564/N759	10.06	0.796	4.981	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1564/N758	22.60	0.796	-4.714	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1563/N756	7.94	0.796	-1.554	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1563/N755	27.80	0.796	-5.836	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1562/N755	9.40	0.796	-1.869	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1562/N754	28.38	0.796	-5.961	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1561/N754	10.21	0.796	-2.043	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1561/N753	28.97	0.796	-6.088	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1560/N751	12.82	0.796	-2.606	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1560/N750	31.76	0.796	-6.690	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1559/N750	13.47	0.796	-2.746	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1559/N749	31.55	0.796	-6.645	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1558/N749	13.81	0.796	-2.819	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1558/N748	31.40	0.796	-6.612	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1557/N746	20.09	0.796	-4.174	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1557/N745	32.16	0.796	-6.857	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1556/N745	23.30	0.796	-4.866	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1556/N744	32.01	0.796	-6.826	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1555/N744	25.81	0.796	-5.407	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1555/N743	35.23	0.796	-7.521	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1554/N743	22.14	0.796	-4.616	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1554/N742	46.85	0.796	-9.945	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1553/N742	11.28	0.796	-2.344	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1553/N741	39.11	0.796	-8.275	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1568/N786	14.67	0.796	-3.021	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1568/N785	30.29	0.796	-6.393	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1567/N785	25.93	0.796	-5.451	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1567/N784	61.45	0.796	-13.114	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1566/N784	23.69	0.796	-5.037	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1566/N783	57.08	0.796	-12.173	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1565/N783	29.23	0.796	-6.235	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1565/N782	52.62	0.796	-11.209	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1564/N782	32.25	0.796	-6.889	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1564/N781	54.97	0.796	-11.718	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1563/N779	38.38	0.796	-8.213	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1563/N778	51.64	0.796	-10.998	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1562/N778	39.16	0.796	-8.382	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1562/N777	47.73	0.796	-10.155	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1561/N777	39.45	0.796	-8.444	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1561/N776	43.97	0.796	-9.344	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1560/N774	46.27	0.796	-9.840	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1560/N773	41.35	0.796	-8.857	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1559/N773	49.62	0.796	-10.562	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1559/N772	40.70	0.796	-8.716	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1558/N772	52.62	0.796	-11.211	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1558/N771	40.02	0.796	-8.569	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1557/N769	61.88	0.796	-13.207	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1557/N768	37.55	0.796	-8.033	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1556/N768	64.65	0.796	-13.805	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1556/N767	33.50	0.796	-7.159	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1555/N767	68.55	0.796	-14.648	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1555/N766	28.02	0.796	-5.973	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1554/N766	71.85	0.796	-15.360	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1554/N765	25.57	0.796	-5.373	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1553/N765	34.89	0.796	-7.383	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1553/N764	11.97	0.796	-2.440	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1590/N786	22.78	0.796	-4.754	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1590/N785	21.79	0.796	-4.616	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1589/N785	28.04	0.796	-5.888	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1589/N784	29.28	0.796	-6.236	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1588/N784	28.70	0.796	-6.030	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1588/N783	33.07	0.796	-7.054	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1587/N783	30.40	0.796	-6.397	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1587/N782	37.26	0.796	-7.959	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1586/N782	30.28	0.796	-6.370	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1586/N781	41.89	0.796	-8.962	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1585/N781	30.89	0.796	-6.503	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1585/N780	46.34	0.796	-9.923	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1584/N780	33.54	0.796	-7.075	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1584/N779	49.56	0.796	-10.618	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1583/N779	34.91	0.796	-7.370	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1583/N778	51.02	0.796	-10.843	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1582/N778	34.06	0.796	-7.185	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1582/N777	51.63	0.796	-10.975	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1581/N777	31.69	0.796	-6.675	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1581/N776	52.42	0.796	-11.145	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1580/N776	29.25	0.796	-6.149	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1580/N775	54.23	0.796	-11.535	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1579/N775	28.14	0.796	-5.909	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1579/N774	57.70	0.796	-12.284	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1578/N774	27.84	0.796	-5.845	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1578/N773	60.30	0.796	-12.845	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1577/N773	25.95	0.796	-5.438	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1577/N772	61.86	0.796	-13.181	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1576/N772	23.26	0.796	-4.933	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1576/N771	63.55	0.796	-13.546	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1575/N771	23.45	0.796	-4.974	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1575/N770	65.83	0.796	-14.038	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1574/N770	27.06	0.796	-5.756	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1574/N769	67.43	0.796	-14.382	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1573/N769	31.07	0.796	-6.622	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1573/N768	66.19	0.796	-14.115	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1572/N768	32.28	0.796	-6.884	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1572/N767	60.06	0.796	-12.794	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1571/N767	30.09	0.796	-6.410	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1571/N766	49.06	0.796	-10.421	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1570/N766	24.97	0.796	-5.304	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1570/N765	34.22	0.796	-7.220	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1569/N765	18.64	0.796	9.564	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1569/N764	23.04	0.796	-4.810	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1590/N809	17.48	0.796	-3.629	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1590/N808	23.48	0.796	-4.923	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1589/N808	22.27	0.796	-4.729	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1589/N807	32.71	0.796	-6.915	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1588/N807	26.55	0.796	-5.656	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1588/N806	37.75	0.796	-8.001	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1587/N806	30.01	0.796	-6.403	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1587/N805	40.48	0.796	-8.591	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1586/N805	32.34	0.796	-6.907	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1586/N804	43.75	0.796	-9.295	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1585/N804	34.24	0.796	-7.319	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1585/N803	44.90	0.796	-9.545	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1584/N803	36.74	0.796	-7.859	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1584/N802	42.79	0.796	-9.088	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1583/N802	39.33	0.796	-8.420	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1583/N801	40.17	0.796	-8.523	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1582/N801	41.00	0.796	-8.780	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1582/N800	38.81	0.796	-8.231	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1581/N800	41.84	0.796	-8.962	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1581/N799	39.11	0.796	-8.373	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1580/N799	42.45	0.796	-9.095	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1580/N798	40.47	0.796	-8.666	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1579/N798	43.85	0.796	-9.396	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1579/N797	41.49	0.796	-8.887	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1578/N797	46.23	0.796	-9.911	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1578/N796	41.42	0.796	-8.872	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1577/N796	48.55	0.796	-10.332	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1577/N795	41.32	0.796	-8.850	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1576/N795	50.26	0.796	-10.701	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1576/N794	42.21	0.796	-9.042	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1575/N794	51.74	0.796	-11.021	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1575/N793	43.54	0.796	-9.331	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 20/12/24

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1574/N793	53.93	0.796	-11.492	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1574/N792	43.42	0.796	-9.303	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1573/N792	56.44	0.796	-12.035	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1573/N791	40.88	0.796	-8.755	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1572/N791	58.65	0.796	-12.511	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1572/N790	36.55	0.796	-7.818	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1571/N790	59.92	0.796	-12.786	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1571/N789	31.04	0.796	-6.626	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1570/N789	56.80	0.796	-12.113	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1570/N788	22.79	0.796	-4.844	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1569/N788	40.85	0.796	-8.671	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1569/N787	14.80	0.796	-3.049	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1612/N809	12.72	0.796	-2.585	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1612/N808	16.38	0.796	-3.447	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1611/N808	21.00	0.796	-4.370	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1611/N807	21.93	0.796	-4.646	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1610/N807	25.41	0.796	-5.320	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1610/N806	27.36	0.796	-5.819	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1609/N806	25.02	0.796	-5.236	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1609/N805	32.56	0.796	-6.862	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1608/N805	23.49	0.796	-4.906	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1608/N804	37.99	0.796	-8.034	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1607/N804	24.68	0.796	-5.164	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1607/N803	43.32	0.796	-9.183	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1606/N803	29.85	0.796	-6.279	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1606/N802	47.29	0.796	-10.039	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1605/N802	34.20	0.796	-7.216	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1605/N801	48.80	0.796	-10.365	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1604/N801	35.16	0.796	-7.424	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1604/N800	48.80	0.796	-10.365	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1603/N800	33.47	0.796	-7.059	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1603/N799	49.85	0.796	-10.592	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1602/N799	31.69	0.796	-6.676	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1602/N798	52.99	0.796	-11.269	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1601/N798	32.18	0.796	-6.781	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1601/N797	56.05	0.796	-11.927	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1600/N797	33.22	0.796	-7.005	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1600/N796	57.21	0.796	-12.179	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1599/N796	31.92	0.796	-6.725	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1599/N795	57.13	0.796	-12.160	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1598/N795	28.74	0.796	-6.039	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1598/N794	58.06	0.796	-12.362	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1597/N794	26.15	0.796	-5.480	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1597/N793	60.53	0.796	-12.895	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1596/N793	26.64	0.796	-5.587	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1596/N792	62.25	0.796	-13.265	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1595/N792	32.57	0.796	-6.866	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1595/N791	60.94	0.796	-12.983	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1594/N791	35.30	0.796	-7.454	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1594/N790	55.83	0.796	-11.880	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1593/N790	33.84	0.796	-7.220	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1593/N789	47.27	0.796	-10.036	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1592/N789	29.35	0.796	-6.250	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1592/N788	29.08	0.796	-6.112	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1591/N788	19.63	0.796	-4.149	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1591/N787	12.19	0.796	-2.471	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1612/N832	19.28	0.796	-4.016	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1612/N831	17.82	0.796	-3.701	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1611/N831	26.64	0.796	-5.674	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1611/N830	24.36	0.796	-5.113	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1610/N830	29.97	0.796	-6.394	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1610/N829	28.79	0.796	-6.067	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1609/N829	32.01	0.796	-6.837	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1609/N828	32.83	0.796	-6.941	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1608/N828	33.75	0.796	-7.212	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1608/N827	37.37	0.796	-7.920	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1607/N827	36.53	0.796	-7.813	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1607/N826	39.09	0.796	-8.291	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1606/N826	37.87	0.796	-8.103	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1606/N825	37.90	0.796	-8.033	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1605/N825	41.47	0.796	-8.882	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1605/N824	35.39	0.796	-7.568	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1604/N824	44.24	0.796	-9.481	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1604/N823	35.39	0.796	-7.567	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1603/N823	45.52	0.796	-9.758	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1603/N822	38.86	0.796	-8.318	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1602/N822	45.70	0.796	-9.797	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1602/N821	42.41	0.796	-9.086	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1601/N821	46.87	0.796	-10.049	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1601/N820	42.36	0.796	-9.074	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1600/N820	49.10	0.796	-10.533	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1600/N819	40.40	0.796	-8.651	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1599/N819	51.17	0.796	-10.979	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1599/N818	40.64	0.796	-8.703	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1598/N818	51.66	0.796	-11.086	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1598/N817	44.30	0.796	-9.494	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1597/N817	51.21	0.796	-10.906	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1597/N816	48.09	0.796	-10.314	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1596/N816	52.37	0.796	-11.157	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1596/N815	47.65	0.796	-10.218	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1595/N815	54.49	0.796	-11.614	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1595/N814	43.26	0.796	-9.269	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1594/N814	56.02	0.796	-11.944	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1594/N813	37.75	0.796	-8.079	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1593/N813	56.00	0.796	-11.940	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1593/N812	32.07	0.796	-6.850	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1592/N812	53.30	0.796	-11.356	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1592/N811	23.43	0.796	-4.980	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1591/N811	38.10	0.796	-8.077	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1591/N810	13.06	0.796	-2.674	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1634/N832	9.27	0.796	4.557	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1634/N831	17.91	0.796	-3.704	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1633/N831	15.80	0.796	-3.248	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1633/N830	26.11	0.796	-5.471	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1632/N830	22.50	0.796	-4.693	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1632/N829	32.75	0.796	-6.904	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1631/N829	22.98	0.796	-4.797	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1631/N828	35.50	0.796	-7.496	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1630/N828	21.19	0.796	-4.411	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1630/N827	36.52	0.796	-7.716	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1629/N827	22.31	0.796	-4.652	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1629/N826	43.78	0.796	-9.283	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1628/N826	29.13	0.796	-6.124	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1628/N825	48.68	0.796	-10.340	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1627/N825	36.39	0.796	-7.688	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1627/N824	48.59	0.796	-10.320	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1626/N824	39.12	0.796	-8.278	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1626/N823	46.50	0.796	-9.868	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1625/N823	37.53	0.796	-7.934	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1625/N822	47.38	0.796	-10.058	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1624/N822	35.15	0.796	-7.421	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1624/N821	52.30	0.796	-11.120	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1623/N821	36.12	0.796	-7.631	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1623/N820	56.18	0.796	-11.956	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1622/N820	38.93	0.796	-8.236	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1622/N819	55.72	0.796	-11.858	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1621/N819	38.71	0.796	-8.188	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1621/N818	53.37	0.796	-11.351	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1620/N818	35.17	0.796	-7.425	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1620/N817	53.75	0.796	-11.432	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1619/N817	31.37	0.796	-6.606	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1619/N816	57.56	0.796	-12.253	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1618/N816	31.42	0.796	-6.617	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1618/N815	60.46	0.796	-12.880	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1617/N815	35.48	0.796	-7.493	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1617/N814	59.07	0.796	-12.580	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1616/N814	40.08	0.796	-8.484	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1616/N813	54.02	0.796	-11.491	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1615/N813	38.93	0.796	-8.236	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1615/N812	45.00	0.796	-9.546	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1614/N812	33.54	0.796	-7.074	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1614/N811	24.80	0.796	-5.188	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1613/N811	20.91	0.796	-4.350	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1613/N810	8.04	0.796	-1.574	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1634/N855	22.37	0.796	-4.684	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1634/N854	16.36	0.796	-3.453	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1633/N854	32.24	0.796	-6.886	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1633/N853	19.87	0.796	-4.143	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1632/N853	31.76	0.796	-6.783	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1632/N852	23.16	0.796	-4.853	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1631/N852	33.02	0.796	-7.054	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1631/N851	27.37	0.796	-5.761	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1630/N851	35.32	0.796	-7.553	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1630/N850	34.85	0.796	-7.451	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1629/N850	39.50	0.796	-8.456	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1629/N849	43.09	0.796	-9.232	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1628/N849	41.32	0.796	-8.851	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1628/N848	39.31	0.796	-8.416	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1627/N848	43.95	0.796	-9.417	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1627/N847	31.92	0.796	-6.816	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1626/N847	48.54	0.796	-10.411	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1626/N846	31.93	0.796	-6.820	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1625/N846	50.31	0.796	-10.793	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1625/N845	40.05	0.796	-8.576	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1624/N845	49.81	0.796	-10.685	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1624/N844	47.45	0.796	-10.175	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1623/N844	49.93	0.796	-10.710	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1623/N843	44.28	0.796	-9.490	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1622/N843	52.39	0.796	-11.243	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1622/N842	37.37	0.796	-7.995	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1621/N842	55.61	0.796	-11.939	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1621/N841	37.53	0.796	-8.031	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1620/N841	56.32	0.796	-12.094	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1620/N840	45.89	0.796	-9.838	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1619/N840	54.91	0.796	-11.788	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1619/N839	54.41	0.796	-11.680	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1618/N839	54.09	0.796	-11.611	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1618/N838	52.69	0.796	-11.308	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1617/N838	55.14	0.796	-11.839	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1617/N837	44.88	0.796	-9.619	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1616/N837	55.85	0.796	-11.906	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1616/N836	38.45	0.796	-8.229	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1615/N836	54.19	0.796	-11.549	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1615/N835	31.84	0.796	-6.800	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1614/N835	52.95	0.796	-11.282	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1614/N834	23.35	0.796	-4.964	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1613/N834	35.81	0.796	-7.658	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1613/N833	12.33	0.796	-2.517	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1656/N855	10.90	0.796	5.429	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1656/N854	16.52	0.796	-3.405	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1655/N854	13.44	0.796	-2.740	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1655/N853	39.65	0.796	-8.391	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1654/N853	19.65	0.796	-4.079	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1654/N852	41.54	0.796	-8.799	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1653/N852	21.87	0.796	-4.557	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1653/N851	41.98	0.796	-8.893	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1652/N851	21.01	0.796	-4.372	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1652/N850	39.74	0.796	-8.411	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1651/N850	23.38	0.796	-4.883	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1651/N849	43.77	0.796	-9.279	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1650/N849	29.04	0.796	-6.104	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1650/N848	54.04	0.796	-11.496	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1649/N848	40.40	0.796	-8.553	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1649/N847	48.92	0.796	-10.390	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1648/N847	44.89	0.796	-9.521	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1648/N846	46.13	0.796	-9.790	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1647/N846	42.99	0.796	-9.112	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1647/N845	44.70	0.796	-9.481	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1646/N845	40.18	0.796	-8.506	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1646/N844	51.43	0.796	-10.933	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1645/N844	39.11	0.796	-8.275	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1645/N843	60.68	0.796	-12.926	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1644/N843	43.89	0.796	-9.305	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1644/N842	55.66	0.796	-11.845	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1643/N842	45.29	0.796	-9.609	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1643/N841	49.52	0.796	-10.520	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1642/N841	41.47	0.796	-8.783	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1642/N840	48.82	0.796	-10.368	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1641/N840	37.30	0.796	-7.884	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1641/N839	55.27	0.796	-11.760	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1640/N839	34.76	0.796	-7.336	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1640/N838	63.55	0.796	-13.545	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1639/N838	40.64	0.796	-8.605	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1639/N837	59.47	0.796	-12.666	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1638/N837	46.31	0.796	-9.827	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1638/N836	53.36	0.796	-11.348	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1637/N836	44.90	0.796	-9.523	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1637/N835	44.79	0.796	-9.501	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1636/N835	43.89	0.796	-9.306	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1636/N834	14.16	0.796	-2.895	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1635/N834	16.21	0.796	-3.336	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1635/N833	9.77	0.796	-1.949	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1656/N26	3.33	0.796	-0.574	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1656/N876	11.37	0.796	-2.374	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1655/N876	8.27	0.796	4.063	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1655/N875	16.90	0.796	-3.503	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1654/N875	9.92	0.796	-2.059	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1654/N874	10.22	0.796	-2.061	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1653/N874	16.91	0.796	-3.571	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1653/N873	6.92	0.796	-1.349	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1652/N873	24.28	0.796	-5.164	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1652/N872	10.17	0.796	5.080	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1651/N872	32.91	0.796	-6.958	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1651/N871	13.70	0.796	7.107	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1650/N871	37.90	0.796	-8.111	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1650/N870	14.75	0.796	7.672	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1649/N870	31.52	0.796	-6.731	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1649/N869	10.74	0.796	5.527	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1648/N869	28.19	0.796	-6.009	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1648/N868	10.61	0.796	5.314	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1647/N868	29.75	0.796	-6.275	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1647/N867	13.30	0.796	6.750	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1646/N867	37.82	0.796	-8.016	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1646/N866	15.63	0.796	7.993	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1645/N866	40.97	0.796	-8.697	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1645/N865	16.10	0.796	8.391	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1644/N865	33.77	0.796	-7.217	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1644/N864	11.92	0.796	6.012	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1643/N864	30.59	0.796	-6.456	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1643/N863	12.83	0.796	6.498	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1642/N863	33.35	0.796	-7.053	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1642/N862	15.44	0.796	7.895	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1641/N862	40.13	0.796	-8.515	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1641/N861	17.70	0.796	9.102	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1640/N861	43.55	0.796	-9.253	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1640/N860	16.02	0.796	8.206	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1639/N860	35.14	0.796	-7.437	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1639/N859	13.25	0.796	6.721	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1638/N859	28.97	0.796	-6.106	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1638/N858	11.08	0.796	5.563	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1637/N858	20.76	0.796	-4.335	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1637/N857	9.95	0.796	4.962	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1636/N857	16.58	0.796	-3.434	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1636/N856	8.33	0.796	4.094	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1635/N856	10.90	0.796	-2.271	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1635/N29	3.33	0.796	-0.574	0.000	0.000	0.00	0.00	0.00	G	Cumple
N29/N856	9.44	0.650	0.234	0.000	0.000	0.00	0.14	0.00	G	Cumple
N856/N857	10.85	0.650	1.378	0.000	0.000	0.00	0.14	0.00	G	Cumple
N857/N858	10.86	0.650	-1.224	0.000	0.000	0.00	0.13	0.00	GV	Cumple
N858/N859	11.28	0.650	-1.228	0.000	0.000	0.00	0.14	0.00	G	Cumple
N859/N860	10.15	0.650	-0.576	0.000	0.000	0.00	0.14	0.00	G	Cumple
N860/N861	11.02	0.650	1.832	0.000	0.000	0.00	0.13	0.00	GV	Cumple
N861/N862	12.07	0.650	-2.535	0.000	0.000	0.00	-0.11	0.01	GV	Cumple
N862/N863	11.17	0.650	-1.165	0.000	0.000	0.00	0.14	0.00	G	Cumple
N863/N864	12.14	0.650	-1.727	0.000	0.000	0.00	0.14	0.00	G	Cumple
N864/N865	10.47	0.650	-0.758	0.000	0.000	0.00	0.14	0.00	G	Cumple
N865/N866	11.34	0.650	2.090	0.000	0.000	0.00	0.13	0.00	GV	Cumple
N866/N867	11.63	0.650	-2.283	0.000	0.000	0.00	-0.11	0.01	GV	Cumple
N867/N868	10.47	0.650	-0.758	0.000	0.000	0.00	0.14	0.00	G	Cumple
N868/N869	12.14	0.650	-1.727	0.000	0.000	0.00	0.14	0.00	G	Cumple
N869/N870	11.17	0.650	-1.165	0.000	0.000	0.00	0.14	0.00	G	Cumple
N870/N871	10.74	0.650	1.607	0.000	0.000	0.00	0.13	0.00	GV	Cumple
N871/N872	12.02	0.650	-2.510	0.000	0.000	0.00	-0.11	0.01	GV	Cumple
N872/N873	10.74	0.650	-1.891	0.000	0.000	0.00	-0.11	0.01	GV	Cumple
N873/N874	11.27	0.650	-1.226	0.000	0.000	0.00	0.14	0.00	G	Cumple
N874/N875	10.90	0.650	-1.253	0.000	0.000	0.00	0.13	0.00	GV	Cumple
N875/N876	11.34	0.650	2.822	0.000	0.000	0.00	-0.11	0.01	GV	Cumple
N876/N26	9.44	0.650	0.234	0.000	0.000	0.00	0.14	0.00	G	Cumple
N27/N73	0.85	0.651	0.258	0.000	0.000	0.00	0.01	0.00	G	Cumple
N73/N96	3.81	0.651	-2.106	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N96/N119	7.85	0.651	-4.403	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N119/N142	3.78	0.651	2.647	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N142/N165	3.45	0.651	2.381	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N165/N188	6.22	0.651	4.640	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N188/N211	8.33	0.651	6.360	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N211/N234	11.73	0.651	-6.738	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N234/N257	9.33	0.651	7.176	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N257/N280	9.39	0.651	7.228	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N280/N303	10.41	0.651	8.058	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N303/N326	11.70	0.651	9.108	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N326/N349	16.37	0.651	-9.530	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N349/N372	17.71	0.651	-10.338	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N372/N395	14.18	0.651	11.129	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N395/N418	14.34	0.651	11.265	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N418/N441	14.45	0.651	11.355	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N441/N464	14.48	0.651	11.372	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N464/N487	20.18	0.651	-11.826	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N487/N510	20.40	0.651	-11.960	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N510/N533	17.60	0.651	13.925	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N533/N556	17.07	0.651	13.488	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N556/N579	16.58	0.651	13.085	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N579/N602	16.25	0.651	12.824	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N602/N625	20.05	0.651	-11.747	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N625/N648	19.31	0.651	-11.305	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N648/N671	16.61	0.651	13.111	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N671/N694	14.02	0.651	10.999	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N694/N717	12.24	0.651	9.553	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N717/N740	11.01	0.651	8.549	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N740/N763	15.87	0.651	-9.229	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N763/N786	16.09	0.651	12.690	0.000	0.000	0.00	0.01	0.00	GV	Cumple

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 20/12/24

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N786/N809	13.15	0.651	10.291	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N809/N832	9.58	0.651	7.383	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N832/N855	5.40	0.651	3.972	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N855/N26	0.79	0.651	0.211	0.000	0.000	0.00	0.01	0.00	G	Cumple
N28/N51	1.46	0.651	-0.643	0.000	0.000	0.00	0.01	0.00	GS	Cumple
N51/N74	5.34	0.651	3.918	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N74/N97	8.67	0.651	-4.898	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N97/N120	3.21	0.651	-1.613	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N120/N143	5.05	0.651	-2.718	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N143/N166	11.75	0.651	-6.751	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N166/N189	18.81	0.651	-11.003	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N189/N212	12.50	0.651	-7.202	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N212/N235	13.71	0.651	-7.934	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N235/N258	16.05	0.651	-9.338	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N258/N281	19.03	0.651	-11.136	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N281/N304	22.69	0.651	-13.339	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N304/N327	28.56	0.651	-16.872	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N327/N350	24.05	0.651	-14.156	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N350/N373	22.29	0.651	-13.094	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N373/N396	22.70	0.651	-13.341	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N396/N419	23.96	0.651	-14.103	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N419/N442	26.08	0.651	-15.378	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N442/N465	31.14	0.651	-18.420	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N465/N488	25.84	0.651	-15.230	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N488/N511	23.15	0.651	-13.611	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N511/N534	22.42	0.651	-13.172	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N534/N557	22.51	0.651	-13.227	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N557/N580	23.42	0.651	-13.775	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N580/N603	26.72	0.651	-15.761	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N603/N626	21.61	0.651	-12.685	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N626/N649	19.73	0.651	-11.556	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N649/N672	19.05	0.651	-11.146	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N672/N695	19.39	0.651	-11.353	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N695/N718	19.79	0.651	-11.592	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N718/N741	21.32	0.651	-12.511	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N741/N764	12.38	0.651	-7.134	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N764/N787	7.94	0.651	-4.456	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N787/N810	5.16	0.651	3.771	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N810/N833	3.06	0.651	2.061	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N833/N29	2.07	0.651	-1.007	0.000	0.000	0.00	0.01	0.00	GS	Cumple
N30/N31	9.69	0.650	0.748	0.000	0.000	0.00	0.13	0.00	GV	Cumple
N31/N32	11.44	0.650	2.179	0.000	0.000	0.00	0.13	0.00	GV	Cumple
N32/N33	14.27	0.650	5.886	0.000	0.000	0.00	0.10	0.00	GV	Cumple
N33/N34	17.15	0.650	8.234	0.000	0.000	0.00	0.10	0.00	GV	Cumple
N34/N35	19.12	0.650	9.836	0.000	0.000	0.00	0.10	0.00	GV	Cumple
N35/N36	19.58	0.650	10.211	0.000	0.000	0.00	0.10	0.00	GV	Cumple
N36/N37	19.09	0.650	9.816	0.000	0.000	0.00	0.10	0.00	GV	Cumple
N37/N38	18.77	0.650	9.551	0.000	0.000	0.00	0.10	0.00	GV	Cumple
N38/N39	19.00	0.650	9.740	0.000	0.000	0.00	0.10	0.00	GV	Cumple
N39/N40	19.27	0.650	9.959	0.000	0.000	0.00	0.10	0.00	GV	Cumple
N40/N41	18.85	0.650	8.220	0.000	0.000	0.00	0.13	0.00	GV	Cumple
N41/N42	17.98	0.650	7.510	0.000	0.000	0.00	0.13	0.00	GV	Cumple
N42/N43	17.34	0.650	6.987	0.000	0.000	0.00	0.13	0.00	GV	Cumple
N43/N44	17.19	0.650	6.867	0.000	0.000	0.00	0.13	0.00	GV	Cumple
N44/N45	17.01	0.650	6.719	0.000	0.000	0.00	0.13	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N45/N46	15.97	0.650	5.869	0.000	0.000	0.00	0.13	0.00	GV	Cumple
N46/N47	14.04	0.650	4.299	0.000	0.000	0.00	0.13	0.00	GV	Cumple
N47/N48	11.94	0.650	2.581	0.000	0.000	0.00	0.13	0.00	GV	Cumple
N48/N49	10.19	0.650	1.153	0.000	0.000	0.00	0.13	0.00	GV	Cumple
N49/N50	9.34	0.650	-0.346	0.000	0.000	0.00	0.13	0.00	GV	Cumple
N50/N27	9.44	0.650	0.234	0.000	0.000	0.00	0.14	0.00	G	Cumple
N28/N30	9.44	0.650	0.234	0.000	0.000	0.00	0.14	0.00	G	Cumple
N1964/N1553	58.54	1.117	-13.883	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1964/N1537	46.79	1.084	-11.612	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1978/N1568	54.44	1.117	-12.902	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1978/N1552	47.30	1.084	-11.738	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1955/N1316	44.11	1.117	-10.429	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1955/N1294	40.74	1.084	-10.093	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N2024/N1184	48.43	1.117	-11.464	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N2024/N1162	51.27	1.084	-12.736	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N2001/N1052	71.70	1.117	-17.033	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N2001/N1030	69.25	1.084	-17.248	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1846/N942	66.34	1.066	-16.947	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1846/N920	35.99	1.033	-9.580	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1822/N921	57.80	1.066	-14.748	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1822/N899	32.61	1.033	-8.669	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1987/N1031	54.97	1.117	-13.030	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1987/N1009	67.65	1.084	-16.846	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N2010/N1163	41.28	1.117	-9.751	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N2010/N1141	50.14	1.084	-12.452	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1941/N1295	44.14	1.117	-10.437	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1941/N1273	39.88	1.084	-9.877	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1/N1662	38.41	0.145	30.452	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N15/N1658	51.77	0.145	41.046	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N6/N1665	38.87	0.145	30.822	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N17/N1663	59.21	0.145	46.945	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1669/N1670	31.01	0.000	77.447	11.368	11.818	-0.59	26.07	21.80	GV	Cumple
N1670/N2029	13.11	2.661	-63.210	2.057	-1.537	1.07	6.99	10.51	GV	Cumple
N2029/N1893	7.52	0.070	-41.711	-11.067	1.579	2.92	7.23	-2.32	GV	Cumple
N1893/N1671	4.75	0.125	-13.837	1.520	-6.406	-0.20	-5.00	2.15	GV	Cumple
N1672/N1673	30.29	0.000	-57.434	11.921	13.147	2.00	26.50	21.89	GV	Cumple
N1673/N2031	11.96	2.661	-43.679	-1.835	1.685	0.59	-11.69	-5.53	GV	Cumple
N2031/N1908	8.22	0.070	-40.039	8.162	-4.348	0.03	-9.48	1.45	GV	Cumple
N1908/N1674	4.87	0.125	-13.630	1.537	6.282	0.20	5.21	2.17	GV	Cumple
N1669/N1657	51.43	0.145	40.778	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N8/N1670	45.65	0.145	36.198	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1675/N1670	42.75	0.145	33.896	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1669/N1676	65.90	0.145	52.250	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1681/N1673	66.45	0.145	52.687	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1672/N1682	44.26	0.145	35.091	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1672/N1664	50.74	0.145	40.235	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N24/N1673	43.13	0.145	34.194	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1687/N1585	20.75	0.651	16.493	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1531/N1684	15.67	0.651	12.343	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1685/N1684	3.85	0.650	-1.999	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1547/N1685	3.59	0.650	-1.841	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1684/N1548	4.87	0.650	-2.615	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1686/N1584	23.00	0.651	18.325	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1530/N1685	17.40	0.651	13.755	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1563/N1686	3.39	0.650	-1.723	0.000	0.000	0.00	0.01	0.00	GV	Cumple

Listados
Coberta de 46'8x28'6 malla tetràedres
Fecha: 20/12/24

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1686/N1687	3.20	0.650	-1.608	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1687/N1564	2.84	0.650	-1.388	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1690/N1580	27.52	0.651	22.013	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1526/N1688	21.34	0.651	16.936	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1691/N1579	27.65	0.651	22.114	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1525/N1689	21.49	0.651	17.090	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1544/N1689	4.45	0.650	-2.359	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1689/N1688	4.69	0.635	-2.522	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1688/N1545	4.47	0.665	-2.386	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1560/N1691	4.81	0.650	-2.578	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1691/N1690	4.98	0.650	-2.679	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1690/N1561	4.81	0.650	-2.576	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1695/N1693	2.25	0.650	-1.035	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1557/N1695	2.53	0.650	-1.203	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1693/N1558	3.05	0.650	-1.517	0.000	0.000	0.00	0.01	0.00	G	Cumple
N1694/N1692	3.91	0.650	-2.038	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1541/N1694	4.97	0.650	-2.676	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1692/N1542	3.58	0.650	-1.836	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1693/N1575	24.59	0.651	19.622	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1521/N1692	18.64	0.651	14.772	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1695/N1574	22.54	0.651	17.948	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1520/N1694	16.99	0.651	13.426	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1686/N779	54.69	0.796	-11.657	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1686/N780	36.69	0.796	-7.849	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1687/N780	56.41	0.796	-12.029	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1687/N781	34.52	0.796	-7.380	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1686/N756	26.49	0.796	-5.554	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1685/N756	27.69	0.796	-5.832	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1685/N733	43.58	0.796	-9.240	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1685/N734	16.01	0.796	8.162	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1684/N734	46.86	0.796	-9.946	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1687/N758	9.09	0.796	4.463	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1684/N758	15.25	0.796	-3.213	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1684/N735	17.88	0.796	9.159	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1686/N757	8.18	0.796	3.977	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1684/N757	29.28	0.796	-6.174	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1687/N757	24.48	0.796	-5.121	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1685/N757	15.66	0.796	-3.301	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1691/N774	41.60	0.796	-8.909	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1691/N775	42.90	0.796	-9.113	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1691/N751	31.33	0.796	-6.597	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1689/N751	21.57	0.796	-4.511	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1689/N728	42.15	0.796	-8.931	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1689/N729	22.93	0.796	-4.786	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1690/N775	42.25	0.796	-8.972	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1690/N776	40.27	0.796	-8.622	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1690/N753	11.00	0.796	-2.214	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1688/N753	18.26	0.796	-3.797	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1688/N730	18.60	0.815	-3.861	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1688/N729	43.08	0.815	-9.142	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1689/N752	19.94	0.796	-4.157	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1691/N752	11.66	0.796	-2.356	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1688/N752	21.47	0.796	-4.489	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1690/N752	29.83	0.796	-6.275	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1694/N746	20.44	0.796	-4.335	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1694/N723	42.15	0.796	-9.017	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1694/N724	46.35	0.796	-9.836	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1692/N724	40.94	0.796	-8.755	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1692/N748	28.01	0.796	-5.900	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1693/N748	14.78	0.796	-3.027	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1693/N771	55.68	0.796	-11.871	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1693/N770	39.85	0.796	-8.533	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1695/N770	58.94	0.796	-12.574	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1695/N746	32.11	0.796	-6.847	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1694/N747	29.60	0.796	-6.243	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1693/N747	31.58	0.796	-6.650	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1695/N747	17.01	0.796	-3.508	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1692/N747	20.07	0.796	-4.254	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1695/N769	39.47	0.796	-8.449	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1914/N1706	44.98	0.126	-54.558	-0.014	1.394	-0.01	0.94	-0.01	G	Cumple
N1923/N1711	17.68	0.126	-22.070	-0.032	0.527	0.00	0.36	-0.03	GV	Cumple
N1918/N1696	17.72	0.126	-22.119	-0.032	-0.529	0.00	-0.36	-0.03	GV	Cumple
N1915/N1701	45.03	0.126	-54.585	-0.014	-1.397	0.01	-0.95	-0.01	G	Cumple
N1914/N1408	13.77	0.916	-6.713	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1914/N1430	14.43	0.946	-6.810	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1923/N1435	9.54	0.946	-4.452	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1918/N1440	9.52	0.946	-4.442	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1915/N1445	14.36	0.946	-6.780	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1915/N1423	13.71	0.916	-6.683	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1913/N1705	51.36	0.126	-61.080	-0.002	1.643	-0.01	1.11	0.00	G	Cumple
N1912/N1704	42.18	1.474	-47.173	0.000	1.483	-0.01	-1.04	0.00	G	Cumple
N1929/N1707	39.04	0.126	-47.609	-0.022	1.205	-0.01	0.82	-0.02	G	Cumple
N1930/N1708	34.34	0.126	-42.098	-0.020	1.060	0.00	0.72	-0.02	GV	Cumple
N1931/N1709	29.35	0.126	-36.126	-0.025	0.901	0.00	0.61	-0.02	GV	Cumple
N1932/N1710	23.71	0.126	-29.358	-0.030	0.721	0.00	0.49	-0.02	GV	Cumple
N1924/N1712	11.71	0.126	-14.762	-0.021	0.345	0.00	0.24	-0.02	GV	Cumple
N1925/N1713	5.88	0.126	-7.086	-0.019	0.183	0.00	0.13	-0.02	GV	Cumple
N1927/N1714	5.91	0.126	-7.132	-0.019	-0.184	0.00	-0.13	-0.02	GV	Cumple
N1928/N1715	11.76	0.126	-14.824	-0.021	-0.346	0.00	-0.24	-0.02	GV	Cumple
N1919/N1697	23.76	0.126	-29.409	-0.029	-0.723	0.00	-0.49	-0.02	GV	Cumple
N1920/N1698	29.40	0.126	-36.181	-0.025	-0.904	0.00	-0.61	-0.02	GV	Cumple
N1921/N1699	34.41	0.126	-42.160	-0.020	-1.064	0.00	-0.72	-0.02	GV	Cumple
N1922/N1700	39.09	0.126	-47.635	-0.022	-1.208	0.01	-0.82	-0.02	G	Cumple
N1916/N1702	51.41	0.126	-61.099	-0.002	-1.647	0.01	-1.11	0.00	G	Cumple
N1917/N1703	42.20	1.474	-47.098	0.000	-1.488	0.01	1.04	0.00	G	Cumple
N1912/N1428	57.06	0.946	-27.369	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1912/N1406	54.43	0.916	-26.959	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1913/N1429	25.69	0.946	-12.240	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1913/N1407	24.67	0.916	-12.142	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1929/N1431	11.97	0.946	-5.624	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1929/N1409	11.35	0.916	-5.505	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1930/N1432	11.28	0.946	-5.294	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1930/N1410	10.78	0.916	-5.221	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1931/N1433	10.76	0.946	-5.039	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1931/N1411	10.37	0.916	-5.019	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1932/N1434	10.11	0.946	-4.730	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1932/N1412	9.81	0.916	-4.741	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1923/N1413	9.18	0.916	-4.427	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1924/N1436	8.95	0.946	-4.168	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1924/N1414	8.66	0.916	-4.164	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1925/N1437	8.86	0.946	-4.127	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1925/N1415	8.70	0.916	-4.185	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1927/N1438	8.86	0.946	-4.126	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1927/N1416	8.70	0.916	-4.185	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1928/N1439	8.94	0.946	-4.162	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1928/N1417	8.64	0.916	-4.158	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1918/N1418	9.16	0.916	-4.417	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1919/N1441	10.09	0.946	-4.717	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1919/N1419	9.78	0.916	-4.726	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1920/N1442	10.72	0.946	-5.020	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1920/N1420	10.33	0.916	-4.999	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1921/N1443	11.24	0.946	-5.271	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1921/N1421	10.73	0.916	-5.199	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1922/N1444	11.91	0.946	-5.597	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1922/N1422	11.29	0.916	-5.478	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1916/N1446	24.98	0.946	-11.898	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1916/N1424	24.56	0.916	-12.084	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1917/N1447	52.76	0.946	-25.293	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1917/N1425	54.20	0.916	-26.847	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N12/N1722	33.48	0.125	-54.345	3.485	-45.504	-0.94	-24.42	1.08	GV	Cumple
N1722/N1716	12.86	1.237	-88.271	-0.811	-4.941	-0.42	3.92	-0.11	GV	Cumple
N1716/N1717	15.25	1.237	-115.162	-0.902	-0.869	-0.18	3.60	0.28	GV	Cumple
N1717/N1718	17.54	1.237	-136.660	-0.623	-1.249	-0.04	3.79	0.32	GV	Cumple
N1718/N1719	19.80	1.237	-156.746	-0.066	-1.212	-0.03	4.34	-0.09	G	Cumple
N1719/N1720	21.90	1.237	-174.274	-0.041	-1.009	-0.03	4.68	-0.13	G	Cumple
N1720/N1721	23.60	1.237	-188.707	-0.024	-0.764	-0.02	4.95	-0.17	G	Cumple
N1721/N1723	24.89	1.237	-199.764	-0.010	-0.510	-0.02	5.13	-0.20	G	Cumple
N1723/N1724	25.79	1.237	-207.190	-0.002	-0.292	-0.01	5.29	-0.22	G	Cumple
N1724/N1725	25.80	0.063	-211.051	-0.008	0.141	-0.01	4.96	-0.23	G	Cumple
N1725/N1726	24.99	0.650	-209.499	0.000	0.000	0.00	4.38	-0.21	G	Cumple
N1726/N1727	25.80	1.237	-211.052	0.007	-0.141	0.00	4.96	-0.23	G	Cumple
N1727/N1728	25.80	0.063	-207.195	0.002	0.291	0.01	5.29	-0.22	G	Cumple
N1728/N1729	24.89	0.063	-199.773	0.010	0.510	0.02	5.13	-0.20	G	Cumple
N1729/N1730	23.60	0.063	-188.719	0.024	0.764	0.02	4.95	-0.17	G	Cumple
N1730/N1731	21.90	0.063	-174.289	0.041	1.009	0.03	4.68	-0.13	G	Cumple
N1731/N1732	19.80	0.063	-156.762	0.066	1.212	0.03	4.34	-0.09	G	Cumple
N1732/N1733	17.50	0.063	-133.550	-0.389	1.192	-0.02	3.96	-0.38	GV	Cumple
N1733/N1734	15.13	0.063	-112.119	-0.497	0.758	-0.13	3.74	-0.29	GV	Cumple
N1734/N1735	12.73	0.063	-85.711	-0.594	4.469	-0.32	4.12	0.01	GV	Cumple
N1735/N22	32.75	0.525	-51.945	2.969	46.631	-0.59	-24.26	-0.79	GV	Cumple
N1941/N1939	40.51	0.125	15.296	0.945	-59.939	0.01	-36.48	0.38	GV	Cumple
N1939/N1940	9.99	0.044	67.298	0.421	-7.241	0.07	-5.17	-0.23	GV	Cumple
N1940/N1933	14.56	1.248	138.799	-0.276	-1.412	0.11	3.37	-0.79	GV	Cumple
N1933/N1934	18.82	1.248	191.554	-0.148	-1.182	0.05	3.96	-0.31	GV	Cumple
N1934/N1935	23.00	1.248	241.817	-0.039	-1.135	0.04	4.27	-0.24	GV	Cumple
N1935/N1936	26.80	1.248	286.200	0.016	-0.975	0.04	4.60	-0.25	GV	Cumple
N1936/N1937	30.06	1.248	324.473	0.028	-0.745	0.03	4.85	-0.28	GV	Cumple
N1937/N1938	32.74	1.248	356.132	0.023	-0.502	0.02	5.03	-0.30	GV	Cumple
N1938/N1942	34.73	1.248	380.704	0.019	-0.202	0.01	5.07	-0.32	GV	Cumple
N1942/N1943	36.10	1.247	397.811	0.016	0.016	0.01	5.08	-0.34	GV	Cumple
N1943/N1944	36.74	0.052	407.566	0.000	0.481	0.00	4.93	-0.33	GV	Cumple
N1944/N1945	36.75	0.598	407.606	0.000	-0.496	0.00	4.94	-0.33	GV	Cumple
N1945/N1946	36.12	0.052	397.939	-0.016	-0.015	-0.01	5.09	-0.34	GV	Cumple
N1946/N1947	34.75	0.052	380.921	-0.019	0.198	-0.02	5.07	-0.32	GV	Cumple
N1947/N1948	32.76	0.052	356.443	-0.023	0.498	-0.02	5.03	-0.30	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1948/N1949	30.10	0.052	324.884	-0.028	0.741	-0.03	4.86	-0.28	GV	Cumple
N1949/N1950	26.84	0.052	286.722	-0.016	0.972	-0.04	4.60	-0.25	GV	Cumple
N1950/N1951	23.06	0.052	242.463	0.040	1.130	-0.05	4.28	-0.24	GV	Cumple
N1951/N1952	18.89	0.052	192.348	0.149	1.174	-0.05	3.97	-0.31	GV	Cumple
N1952/N1953	14.70	0.052	140.413	0.279	1.448	-0.11	3.39	-0.79	GV	Cumple
N1953/N1954	9.95	1.256	68.366	-0.422	7.107	-0.07	-5.03	-0.24	GV	Cumple
N1954/N1955	40.68	0.525	14.917	-0.940	60.175	-0.01	-36.63	0.38	GV	Cumple
N1933/N1717	47.50	0.125	-57.672	0.000	-1.469	0.00	-1.00	0.00	G	Cumple
N1933/N1276	14.17	0.916	-6.909	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1933/N1298	15.32	0.946	-7.242	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1934/N1718	41.28	0.125	-50.505	0.000	-1.275	0.00	-0.87	0.00	G	Cumple
N1935/N1719	35.46	0.125	-43.729	0.000	-1.092	0.00	-0.74	0.00	G	Cumple
N1936/N1720	29.97	0.125	-37.149	0.000	-0.925	0.00	-0.63	0.00	GV	Cumple
N1937/N1721	24.06	0.125	-30.081	0.000	-0.737	0.00	-0.50	0.00	GV	Cumple
N1934/N1299	12.76	0.946	-6.005	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1934/N1277	11.83	0.916	-5.747	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1935/N1300	12.12	0.946	-5.696	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1935/N1278	11.33	0.916	-5.495	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1936/N1301	11.66	0.946	-5.477	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1936/N1279	10.94	0.916	-5.304	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1937/N1302	11.06	0.946	-5.186	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1937/N1280	10.38	0.916	-5.025	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1940/N1716	54.14	0.125	-64.347	0.000	-1.725	0.00	-1.17	0.00	G	Cumple
N1939/N1274	56.71	0.916	-28.093	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1940/N1297	27.71	0.946	-13.217	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1940/N1275	25.17	0.916	-12.386	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1939/N1722	44.49	1.475	-49.898	0.000	-1.546	0.00	1.08	0.00	G	Cumple
N1939/N1296	60.52	0.946	-29.035	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1938/N1723	17.74	0.125	-22.462	0.000	-0.535	0.00	-0.37	0.00	GV	Cumple
N1938/N1303	10.31	0.946	-4.823	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1942/N1724	11.11	0.125	-14.198	0.000	-0.331	0.00	-0.23	0.00	GV	Cumple
N1943/N1725	5.27	0.125	-6.541	0.000	-0.166	0.00	-0.12	0.00	GV	Cumple
N1945/N1726	5.29	0.125	-6.572	0.000	0.167	0.00	0.12	0.00	GV	Cumple
N1938/N1281	9.67	0.916	-4.668	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1942/N1304	9.60	0.946	-4.483	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1942/N1282	8.99	0.916	-4.331	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1943/N1305	9.59	0.946	-4.479	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1943/N1283	9.03	0.916	-4.349	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1945/N1306	9.59	0.946	-4.478	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1945/N1284	9.03	0.916	-4.348	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1947/N1728	17.76	0.125	-22.487	0.000	0.536	0.00	0.37	0.00	GV	Cumple
N1947/N1308	10.31	0.946	-4.823	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1946/N1727	11.13	0.125	-14.241	0.000	0.331	0.00	0.23	0.00	GV	Cumple
N1946/N1307	9.60	0.946	-4.483	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1946/N1285	8.99	0.916	-4.331	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1947/N1286	9.67	0.916	-4.668	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1948/N1729	24.08	0.125	-30.109	0.000	0.737	0.00	0.50	0.00	GV	Cumple
N1949/N1730	30.00	0.125	-37.183	0.000	0.925	0.00	0.63	0.00	GV	Cumple
N1950/N1731	35.46	0.125	-43.729	0.000	1.092	0.00	0.74	0.00	G	Cumple
N1948/N1309	11.06	0.946	-5.187	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1948/N1287	10.39	0.916	-5.026	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1949/N1310	11.67	0.946	-5.478	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1949/N1288	10.95	0.916	-5.305	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1950/N1311	12.12	0.946	-5.697	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1950/N1289	11.33	0.916	-5.496	0.000	0.000	0.00	0.00	0.00	G	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1952/N1733	47.51	0.125	-57.676	0.000	1.470	0.00	1.00	0.00	G	Cumple
N1952/N1313	15.33	0.946	-7.243	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1952/N1291	14.17	0.916	-6.910	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1951/N1732	41.28	0.125	-50.507	0.000	1.275	0.00	0.87	0.00	G	Cumple
N1953/N1734	54.14	0.125	-64.353	0.000	1.725	0.00	1.17	0.00	G	Cumple
N1951/N1312	12.76	0.946	-6.006	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1951/N1290	11.84	0.916	-5.748	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1953/N1314	26.87	0.946	-12.809	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1954/N1735	44.49	1.475	-49.904	0.000	1.546	0.00	-1.08	0.00	G	Cumple
N1953/N1292	25.12	0.916	-12.366	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1954/N1315	59.87	0.946	-28.722	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1954/N1293	56.66	0.916	-28.069	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N14/N1742	32.75	0.125	-53.319	3.015	-44.114	-1.39	-23.60	1.33	GV	Cumple
N1742/N1736	12.53	1.237	-85.722	-0.601	-4.702	-0.90	3.80	0.16	GV	Cumple
N1736/N1737	14.79	1.237	-111.180	-0.483	-0.773	-0.67	3.46	0.35	GV	Cumple
N1737/N1738	16.77	1.237	-131.402	-0.080	-1.139	-0.52	3.62	0.24	GV	Cumple
N1738/N1739	18.58	1.237	-148.736	0.198	-1.069	-0.42	3.95	0.07	GV	Cumple
N1739/N1740	20.35	1.237	-163.498	0.399	-0.877	-0.35	4.25	-0.09	GV	Cumple
N1740/N1741	21.89	1.237	-175.519	0.567	-0.647	-0.28	4.47	-0.23	GV	Cumple
N1741/N1743	23.06	1.237	-184.551	0.721	-0.410	-0.22	4.63	-0.36	GV	Cumple
N1743/N1744	23.89	1.237	-190.358	0.866	-0.211	-0.15	4.77	-0.46	GV	Cumple
N1744/N1745	24.02	0.063	-193.014	0.993	0.090	-0.08	4.50	0.62	GV	Cumple
N1745/N1746	23.25	0.063	-190.451	1.129	-0.188	-0.01	3.95	0.71	GV	Cumple
N1746/N1747	23.85	1.237	-190.719	1.272	-0.091	0.07	4.45	-0.72	GV	Cumple
N1747/N1748	23.97	0.063	-186.508	1.397	0.275	0.14	4.80	0.83	GV	Cumple
N1748/N1749	23.20	0.063	-179.058	1.533	0.482	0.21	4.67	0.91	GV	Cumple
N1749/N1750	22.09	0.063	-168.293	1.670	0.716	0.27	4.52	0.99	GV	Cumple
N1750/N1751	20.60	0.063	-154.390	1.811	0.948	0.33	4.29	1.07	GV	Cumple
N1751/N1752	18.75	0.063	-137.551	1.974	1.145	0.41	3.99	1.13	GV	Cumple
N1752/N1753	16.53	0.063	-117.894	2.199	1.192	0.53	3.65	1.16	GV	Cumple
N1753/N1754	14.18	0.063	-105.235	0.498	0.889	0.48	3.55	0.22	G	Cumple
N1754/N1755	11.95	0.063	-78.083	-0.461	4.111	0.09	3.85	0.23	GV	Cumple
N1755/N20	29.61	0.525	-46.719	3.393	42.788	-0.34	-22.19	-0.49	GV	Cumple
N2010/N2008	40.09	0.125	11.833	0.429	-59.345	-0.23	-36.10	-0.18	GV	Cumple
N2008/N2009	9.54	0.044	60.837	0.131	-6.848	0.20	-4.85	-0.63	GV	Cumple
N2009/N2002	13.26	1.248	125.954	-0.461	-1.190	0.32	3.10	-0.73	GV	Cumple
N2002/N2003	17.14	1.248	175.158	-0.232	-1.031	-0.16	3.65	-0.17	GV	Cumple
N2003/N2004	20.88	1.248	220.839	-0.101	-0.982	-0.25	3.91	-0.08	GV	Cumple
N2004/N2005	24.26	1.248	260.901	-0.039	-0.833	-0.27	4.18	-0.05	GV	Cumple
N2005/N2006	27.14	1.248	295.256	-0.017	-0.623	-0.26	4.39	-0.04	GV	Cumple
N2006/N2007	29.50	1.248	323.548	-0.006	-0.406	-0.22	4.53	-0.03	GV	Cumple
N2007/N2011	31.25	1.248	345.435	0.003	-0.141	-0.16	4.56	-0.03	GV	Cumple
N2011/N2012	32.46	1.247	360.645	0.017	0.056	-0.10	4.56	-0.05	GV	Cumple
N2012/N2013	33.03	0.052	369.330	0.034	0.372	-0.03	4.42	-0.04	GV	Cumple
N2013/N2014	33.03	0.598	369.367	-0.034	-0.386	0.03	4.43	-0.04	GV	Cumple
N2014/N2015	32.48	0.052	360.766	-0.018	-0.055	0.10	4.56	-0.05	GV	Cumple
N2015/N2016	31.27	0.052	345.642	-0.003	0.138	0.16	4.56	-0.03	GV	Cumple
N2016/N2017	29.52	0.052	323.845	0.006	0.403	0.22	4.53	-0.03	GV	Cumple
N2017/N2018	27.18	0.052	295.652	0.016	0.620	0.26	4.39	-0.04	GV	Cumple
N2018/N2019	24.30	0.052	261.408	0.038	0.829	0.27	4.18	-0.04	GV	Cumple
N2019/N2020	20.93	0.052	221.471	0.100	0.977	0.24	3.91	-0.07	GV	Cumple
N2020/N2021	17.20	0.052	175.940	0.234	1.024	0.15	3.66	-0.16	GV	Cumple
N2021/N2022	13.39	0.052	127.559	0.472	1.225	-0.34	3.12	-0.72	GV	Cumple
N2022/N2023	9.50	1.256	61.894	-0.130	6.715	-0.21	-4.71	-0.64	GV	Cumple
N2023/N2024	40.85	0.525	20.547	4.255	60.457	1.68	-36.79	-2.42	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N2002/N1737	44.94	0.125	-53.192	-0.136	-1.360	0.01	-0.92	-0.12	GV	Cumple
N2002/N1144	13.15	0.916	-6.402	0.000	0.000	0.00	0.00	0.00	G	Cumple
N2002/N1166	15.01	0.946	-7.091	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N2003/N1738	38.94	0.125	-46.479	-0.115	-1.180	0.01	-0.80	-0.10	GV	Cumple
N2004/N1739	33.43	0.125	-40.302	-0.090	-1.011	0.01	-0.69	-0.08	GV	Cumple
N2005/N1740	28.17	0.125	-34.738	-0.024	-0.864	0.00	-0.59	-0.02	GV	Cumple
N2006/N1741	22.69	0.125	-28.118	-0.029	-0.688	0.00	-0.47	-0.03	GV	Cumple
N2003/N1167	12.06	0.946	-5.668	0.000	0.000	0.00	0.00	0.00	G	Cumple
N2003/N1145	10.93	0.916	-5.295	0.000	0.000	0.00	0.00	0.00	G	Cumple
N2004/N1168	11.35	0.946	-5.326	0.000	0.000	0.00	0.00	0.00	G	Cumple
N2004/N1146	10.35	0.916	-5.008	0.000	0.000	0.00	0.00	0.00	G	Cumple
N2005/N1169	10.87	0.946	-5.093	0.000	0.000	0.00	0.00	0.00	G	Cumple
N2005/N1147	9.88	0.916	-4.772	0.000	0.000	0.00	0.00	0.00	G	Cumple
N2006/N1170	10.26	0.946	-4.801	0.000	0.000	0.00	0.00	0.00	G	Cumple
N2006/N1148	9.26	0.916	-4.463	0.000	0.000	0.00	0.00	0.00	G	Cumple
N2009/N1736	50.97	0.125	-59.168	-0.130	-1.596	0.02	-1.08	-0.13	GV	Cumple
N2008/N1142	54.38	0.916	-26.932	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N2009/N1165	27.94	0.946	-13.325	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N2009/N1143	23.93	0.916	-11.771	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N2008/N1742	42.03	1.475	-47.199	0.018	-1.453	0.01	1.02	-0.01	G	Cumple
N2008/N1164	59.30	0.946	-28.448	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N2007/N1743	16.83	0.125	-21.005	-0.033	-0.499	0.00	-0.34	-0.03	GV	Cumple
N2007/N1171	9.53	0.946	-4.446	0.000	0.000	0.00	0.00	0.00	G	Cumple
N2011/N1744	10.68	0.125	-13.450	-0.021	-0.313	0.00	-0.22	-0.02	GV	Cumple
N2012/N1745	5.13	0.125	-6.198	-0.018	-0.157	0.00	-0.11	-0.02	GV	Cumple
N2014/N1746	5.16	0.125	-6.235	-0.018	0.157	0.00	0.11	-0.02	GV	Cumple
N2007/N1149	8.61	0.916	-4.140	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N2011/N1172	8.89	0.946	-4.138	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N2011/N1150	8.05	0.916	-3.861	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N2012/N1173	8.86	0.946	-4.126	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N2012/N1151	8.01	0.916	-3.842	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N2014/N1174	8.87	0.946	-4.131	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N2014/N1152	8.02	0.916	-3.848	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N2016/N1748	16.85	0.125	-21.037	-0.033	0.500	0.00	0.34	-0.03	GV	Cumple
N2016/N1176	9.53	0.946	-4.446	0.000	0.000	0.00	0.00	0.00	G	Cumple
N2015/N1747	10.71	0.125	-13.500	-0.020	0.313	0.00	0.22	-0.02	GV	Cumple
N2015/N1175	8.89	0.946	-4.141	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N2015/N1153	8.05	0.916	-3.865	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N2016/N1154	8.61	0.916	-4.144	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N2017/N1749	22.72	0.125	-28.153	-0.029	0.688	0.00	0.47	-0.03	GV	Cumple
N2018/N1750	28.20	0.125	-34.777	-0.024	0.864	0.00	0.59	-0.02	GV	Cumple
N2019/N1751	33.05	0.125	-40.635	-0.015	1.020	-0.01	0.69	-0.01	GV	Cumple
N2017/N1177	10.26	0.946	-4.801	0.000	0.000	0.00	0.00	0.00	G	Cumple
N2017/N1155	9.26	0.916	-4.463	0.000	0.000	0.00	0.00	0.00	G	Cumple
N2018/N1178	10.87	0.946	-5.093	0.000	0.000	0.00	0.00	0.00	G	Cumple
N2018/N1156	9.88	0.916	-4.772	0.000	0.000	0.00	0.00	0.00	G	Cumple
N2019/N1179	11.35	0.946	-5.326	0.000	0.000	0.00	0.00	0.00	G	Cumple
N2019/N1157	10.35	0.916	-5.008	0.000	0.000	0.00	0.00	0.00	G	Cumple
N2021/N1753	44.25	0.125	-53.717	-0.010	1.369	-0.01	0.93	-0.01	G	Cumple
N2021/N1181	14.69	0.946	-6.935	0.000	0.000	0.00	0.00	0.00	G	Cumple
N2021/N1159	13.15	0.916	-6.402	0.000	0.000	0.00	0.00	0.00	G	Cumple
N2020/N1752	38.41	0.125	-46.842	-0.024	1.183	-0.01	0.80	-0.02	G	Cumple
N2022/N1754	50.71	0.125	-58.403	-0.193	1.558	-0.03	1.06	-0.18	GV	Cumple
N2020/N1180	12.06	0.946	-5.668	0.000	0.000	0.00	0.00	0.00	G	Cumple
N2020/N1158	10.93	0.916	-5.295	0.000	0.000	0.00	0.00	0.00	G	Cumple

Listados
Coberta de 46'8x28'6 malla tetràedres
Fecha: 20/12/24

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N2022/N1182	27.63	0.946	-13.179	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N2023/N1755	42.02	1.475	-47.198	0.018	1.453	-0.01	-1.02	-0.01	G	Cumple
N2022/N1160	23.91	0.916	-11.761	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N2023/N1183	61.43	0.946	-29.474	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N2023/N1161	54.43	0.916	-26.958	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N16/N1762	26.00	0.125	-41.806	1.718	-30.917	-4.12	-16.33	3.50	GV	Cumple
N1762/N1756	9.85	1.237	-60.857	-0.340	-3.162	-2.45	2.75	0.92	GV	Cumple
N1756/N1757	10.97	1.237	-77.561	-0.682	-0.368	-2.07	2.42	0.82	GV	Cumple
N1757/N1758	11.97	1.237	-90.239	-0.167	-0.614	-1.75	2.47	0.60	GV	Cumple
N1758/N1759	13.10	1.237	-91.864	-2.267	-0.629	-1.33	2.66	1.28	GV	Cumple
N1759/N1760	14.14	1.237	-101.751	-2.110	-0.483	-1.17	2.79	1.24	GV	Cumple
N1760/N1761	14.88	1.237	-109.523	-1.949	-0.321	-0.98	2.88	1.15	GV	Cumple
N1761/N1763	15.38	1.237	-115.202	-1.804	-0.171	-0.75	2.93	1.06	GV	Cumple
N1763/N1764	15.99	0.063	-123.866	1.463	-0.542	-0.55	2.68	1.13	GV	Cumple
N1764/N1765	16.48	0.063	-125.090	1.711	0.005	-0.28	2.87	1.27	GV	Cumple
N1765/N1766	16.11	0.063	-123.210	1.981	-0.161	0.00	2.53	1.44	GV	Cumple
N1766/N1767	16.28	0.063	-123.158	2.267	-0.474	0.28	2.55	1.58	GV	Cumple
N1767/N1768	16.71	0.063	-120.490	2.512	0.115	0.55	3.06	1.68	GV	Cumple
N1768/N1769	16.35	0.063	-115.964	2.749	0.239	0.81	3.00	1.80	GV	Cumple
N1769/N1770	15.81	0.063	-109.439	2.989	0.394	1.04	2.95	1.93	GV	Cumple
N1770/N1771	15.04	0.063	-100.894	3.229	0.560	1.27	2.85	2.06	GV	Cumple
N1771/N1772	14.01	0.063	-90.286	3.508	0.714	1.51	2.71	2.19	GV	Cumple
N1772/N1773	12.70	0.063	-77.523	3.874	0.760	1.83	2.54	2.27	GV	Cumple
N1773/N1774	11.01	0.063	-62.167	4.248	0.731	2.30	2.48	2.11	GV	Cumple
N1774/N1775	8.74	0.063	-52.219	0.828	3.091	1.69	2.69	0.71	G	Cumple
N1775/N18	20.50	0.525	-28.726	0.351	27.632	1.67	-14.59	1.42	G	Cumple
N1987/N1985	30.97	0.125	4.277	-1.722	-46.128	-1.41	-27.89	-2.66	GV	Cumple
N1985/N1986	7.34	1.248	54.635	0.059	-2.050	-0.20	1.59	-1.92	GV	Cumple
N1986/N1979	9.19	0.650	84.485	-0.858	-0.842	-0.46	1.48	-1.44	GV	Cumple
N1979/N1980	10.95	1.248	112.577	-0.395	-0.436	-1.12	2.28	0.11	GV	Cumple
N1980/N1981	13.31	1.248	139.359	-0.183	-0.411	-1.12	2.37	0.30	GV	Cumple
N1981/N1982	15.41	1.248	156.191	0.092	-0.447	-1.34	2.76	0.80	GV	Cumple
N1982/N1983	17.31	1.248	179.185	0.016	-0.297	-1.08	2.85	0.80	GV	Cumple
N1983/N1984	18.86	1.248	197.902	-0.004	-0.155	-0.84	2.91	0.83	GV	Cumple
N1984/N1988	20.03	1.247	212.299	0.001	0.007	-0.59	2.91	0.86	GV	Cumple
N1988/N1989	20.83	0.849	222.344	0.032	-0.061	-0.35	2.91	0.88	GV	Cumple
N1989/N1990	21.22	0.052	228.203	0.132	-0.067	-0.12	2.79	0.92	GV	Cumple
N1990/N1991	21.31	0.598	228.683	-0.108	-0.089	0.12	2.86	0.90	GV	Cumple
N1991/N1992	20.96	0.251	223.844	-0.011	-0.011	0.36	2.94	0.86	GV	Cumple
N1992/N1993	20.16	0.052	214.773	0.030	-0.043	0.62	2.88	0.82	GV	Cumple
N1993/N1994	19.04	0.052	201.294	0.047	0.126	0.88	2.89	0.74	GV	Cumple
N1994/N1995	17.50	0.052	183.397	0.037	0.274	1.15	2.84	0.66	GV	Cumple
N1995/N1996	15.60	0.052	161.102	-0.043	0.428	1.44	2.74	0.59	GV	Cumple
N1996/N1997	13.41	0.052	134.462	-0.254	0.554	1.77	2.60	0.63	GV	Cumple
N1997/N1998	11.09	0.052	103.359	-0.517	0.637	2.17	2.45	0.94	GV	Cumple
N1998/N1999	9.32	0.650	86.073	0.875	0.865	0.44	1.48	-1.45	GV	Cumple
N1999/N2000	7.48	0.052	56.368	-0.082	1.875	0.16	1.57	-1.93	GV	Cumple
N2000/N2001	32.83	0.525	14.458	14.760	45.814	3.88	-28.01	-8.67	GV	Cumple
N1979/N1757	30.50	0.125	-35.195	-0.220	-0.900	0.04	-0.61	-0.20	GV	Cumple
N1979/N1012	8.18	0.916	-3.926	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1979/N1034	11.55	0.946	-5.420	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1980/N1758	26.16	0.125	-30.130	-0.219	-0.764	0.03	-0.52	-0.19	GV	Cumple
N1981/N1759	22.28	0.125	-26.910	-0.081	-0.674	0.02	-0.46	-0.07	GV	Cumple
N1982/N1760	19.08	0.125	-22.834	-0.105	-0.565	0.02	-0.38	-0.09	GV	Cumple
N1983/N1761	15.54	0.125	-18.379	-0.123	-0.446	0.02	-0.30	-0.11	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1980/N1035	8.37	0.946	-3.888	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1980/N1013	6.68	0.916	-3.180	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1981/N1036	7.55	0.946	-3.492	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1981/N1014	6.14	0.916	-2.911	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1982/N1037	6.96	0.946	-3.208	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1982/N1015	5.53	0.916	-2.607	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1983/N1038	6.54	0.946	-3.006	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1983/N1016	5.13	0.916	-2.408	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1986/N1756	34.59	0.125	-39.898	-0.146	-1.080	0.06	-0.73	-0.15	GV	Cumple
N1985/N1010	37.58	0.916	-18.568	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1986/N1033	24.11	0.946	-11.478	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1986/N1011	15.10	0.916	-7.375	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1985/N1762	29.52	1.475	-34.697	0.005	-0.962	0.03	0.67	-0.02	GV	Cumple
N1985/N1032	53.04	0.946	-25.430	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1984/N1763	11.82	0.125	-13.757	-0.134	-0.322	0.01	-0.22	-0.12	GV	Cumple
N1984/N1039	6.02	0.946	-2.753	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1988/N1764	8.21	0.125	-9.489	-0.109	-0.217	0.00	-0.15	-0.09	GV	Cumple
N1989/N1765	4.52	0.125	-4.580	-0.102	-0.113	0.00	-0.08	-0.09	GV	Cumple
N1991/N1766	4.54	0.125	-4.613	-0.102	0.114	0.00	0.08	-0.09	GV	Cumple
N1984/N1017	4.55	0.916	-2.122	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1988/N1040	5.60	0.946	-2.554	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1988/N1018	4.01	0.916	-1.853	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1989/N1041	5.63	0.946	-2.567	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1989/N1019	3.79	0.916	-1.742	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1991/N1042	5.64	0.946	-2.570	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1991/N1020	3.80	0.916	-1.745	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1993/N1768	11.84	0.125	-13.784	-0.134	0.323	-0.01	0.22	-0.12	GV	Cumple
N1993/N1044	6.02	0.946	-2.756	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1992/N1767	8.24	0.125	-9.533	-0.109	0.218	0.00	0.15	-0.09	GV	Cumple
N1992/N1043	5.61	0.946	-2.557	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1992/N1021	4.02	0.916	-1.856	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1993/N1022	4.56	0.916	-2.125	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1994/N1769	15.56	0.125	-18.408	-0.123	0.446	-0.02	0.30	-0.11	GV	Cumple
N1995/N1770	19.11	0.125	-22.866	-0.105	0.566	-0.02	0.39	-0.09	GV	Cumple
N1996/N1771	22.31	0.125	-26.946	-0.081	0.675	-0.02	0.46	-0.07	GV	Cumple
N1994/N1045	6.55	0.946	-3.009	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1994/N1023	5.14	0.916	-2.411	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1995/N1046	7.01	0.946	-3.233	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1995/N1024	5.54	0.916	-2.611	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1996/N1047	7.55	0.946	-3.494	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1996/N1025	6.12	0.916	-2.899	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1998/N1773	30.55	0.125	-34.539	-0.301	0.876	-0.05	0.60	-0.27	GV	Cumple
N1998/N1049	11.62	0.946	-5.455	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1998/N1027	8.18	0.916	-3.925	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1997/N1772	26.06	0.125	-29.601	-0.274	0.740	-0.04	0.50	-0.24	GV	Cumple
N1999/N1774	35.10	0.125	-39.750	-0.229	1.061	-0.07	0.72	-0.23	GV	Cumple
N1997/N1048	8.37	0.946	-3.889	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1997/N1026	6.72	0.916	-3.199	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1999/N1050	26.29	0.946	-12.530	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N2000/N1775	29.61	1.475	-34.962	-0.049	0.938	-0.08	-0.66	-0.04	GV	Cumple
N1999/N1028	15.14	0.916	-7.393	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N2000/N1051	62.94	0.946	-30.203	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N2000/N1029	37.77	0.916	-18.663	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N9/N1782	25.43	0.125	-38.490	0.839	-33.906	2.82	-17.23	-2.39	GV	Cumple
N1782/N1776	10.30	1.237	-60.288	1.008	-2.588	2.32	2.96	-1.17	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1776/N1777	11.40	1.237	-75.937	1.829	-0.130	2.05	2.52	-1.25	GV	Cumple
N1777/N1778	12.86	1.237	-88.396	2.478	-0.474	1.45	2.56	-1.46	GV	Cumple
N1778/N1779	14.32	1.237	-100.305	2.380	-0.417	1.33	2.73	-1.59	GV	Cumple
N1779/N1780	15.37	1.237	-110.020	2.160	-0.274	1.18	2.88	-1.55	GV	Cumple
N1780/N1781	16.05	1.237	-117.605	1.937	-0.118	0.99	2.97	-1.43	GV	Cumple
N1781/N1783	16.54	1.237	-123.061	1.810	0.021	0.76	3.03	-1.35	GV	Cumple
N1783/N1784	16.88	1.237	-126.389	1.715	0.146	0.50	3.07	-1.32	GV	Cumple
N1784/N1785	16.58	0.063	-129.121	-1.065	-0.295	0.30	2.87	-1.02	GV	Cumple
N1785/N1786	16.36	0.063	-127.663	-1.332	-0.207	0.04	2.62	-1.20	GV	Cumple
N1786/N1787	16.49	1.237	-128.537	1.024	0.293	-0.30	2.87	-0.99	GV	Cumple
N1787/N1788	16.95	0.063	-126.906	-1.751	-0.148	-0.50	3.07	-1.34	GV	Cumple
N1788/N1789	16.61	0.063	-123.570	-1.844	-0.023	-0.76	3.03	-1.37	GV	Cumple
N1789/N1790	16.12	0.063	-118.110	-1.970	0.116	-0.99	2.97	-1.45	GV	Cumple
N1790/N1791	15.43	0.063	-110.524	-2.193	0.273	-1.18	2.88	-1.57	GV	Cumple
N1791/N1792	14.39	0.063	-100.813	-2.412	0.415	-1.33	2.73	-1.60	GV	Cumple
N1792/N1793	12.93	0.063	-88.912	-2.508	0.472	-1.45	2.56	-1.48	GV	Cumple
N1793/N1794	11.51	0.063	-77.448	-1.707	0.118	-2.05	2.53	-1.21	GV	Cumple
N1794/N1795	10.50	0.063	-62.165	-0.918	2.599	-2.32	2.98	-1.16	GV	Cumple
N1795/N25	25.95	0.525	-40.739	-0.840	34.421	-2.82	-17.49	-2.40	GV	Cumple
N1964/N1962	28.26	0.125	-9.168	1.181	-36.693	1.22	-22.81	1.86	GV	Cumple
N1962/N1963	9.02	1.248	74.018	2.247	-1.876	2.30	1.77	-1.91	GV	Cumple
N1963/N1956	12.35	1.248	111.133	-0.163	-0.961	2.13	2.40	-1.74	GV	Cumple
N1956/N1957	14.22	1.247	141.033	-0.440	-0.395	1.84	2.40	-1.17	GV	Cumple
N1957/N1958	16.34	1.248	167.086	-0.098	-0.522	1.56	2.80	-0.84	GV	Cumple
N1958/N1959	18.55	1.248	193.421	0.011	-0.410	1.33	2.94	-0.86	GV	Cumple
N1959/N1960	20.45	1.248	215.605	0.049	-0.259	1.09	3.03	-0.93	GV	Cumple
N1960/N1961	21.98	1.248	233.588	0.044	-0.122	0.85	3.08	-1.01	GV	Cumple
N1961/N1965	23.13	1.247	247.353	0.023	0.036	0.61	3.08	-1.07	GV	Cumple
N1965/N1966	23.90	0.849	256.885	-0.016	-0.024	0.36	3.07	-1.11	GV	Cumple
N1966/N1967	24.27	0.052	262.421	-0.121	0.066	0.12	2.95	-1.15	GV	Cumple
N1967/N1968	24.28	0.598	262.444	0.126	-0.078	-0.12	2.96	-1.16	GV	Cumple
N1968/N1969	23.91	0.451	256.956	0.015	0.027	-0.36	3.08	-1.11	GV	Cumple
N1969/N1970	23.14	0.052	247.473	-0.022	-0.039	-0.61	3.08	-1.08	GV	Cumple
N1970/N1971	22.00	0.052	233.763	-0.042	0.119	-0.85	3.08	-1.01	GV	Cumple
N1971/N1972	20.47	0.052	215.842	-0.047	0.257	-1.09	3.03	-0.93	GV	Cumple
N1972/N1973	18.59	0.052	193.730	-0.009	0.407	-1.32	2.94	-0.86	GV	Cumple
N1973/N1974	16.39	0.052	167.482	0.102	0.519	-1.56	2.81	-0.85	GV	Cumple
N1974/N1975	14.32	0.251	141.839	0.449	0.486	-1.83	2.32	-1.29	GV	Cumple
N1975/N1976	12.48	0.052	112.171	0.179	0.990	-2.13	2.41	-1.78	GV	Cumple
N1976/N1977	9.15	0.052	75.205	-2.213	1.704	-2.30	1.74	-1.97	GV	Cumple
N1977/N1978	28.49	0.525	-9.174	-1.196	37.002	-1.23	-23.00	1.87	GV	Cumple
N1956/N1777	29.88	0.125	-36.476	0.029	-0.927	-0.03	-0.63	0.03	GV	Cumple
N1956/N1540	10.43	0.916	-5.050	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1956/N1556	9.10	0.946	-4.239	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1957/N1778	27.37	0.125	-33.234	0.061	-0.838	-0.03	-0.57	0.06	GV	Cumple
N1958/N1779	24.48	0.125	-29.523	0.087	-0.741	-0.03	-0.50	0.08	GV	Cumple
N1959/N1780	21.01	0.125	-25.168	0.108	-0.624	-0.02	-0.42	0.10	GV	Cumple
N1960/N1781	17.50	0.125	-20.987	0.096	-0.519	-0.01	-0.35	0.08	GV	Cumple
N1957/N1557	7.43	0.946	-3.434	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1957/N1541	8.06	0.916	-3.867	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1958/N1695	6.67	0.946	-3.070	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1958/N1694	7.36	0.916	-3.520	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1959/N1693	6.50	0.946	-2.985	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1959/N1692	7.10	0.916	-3.388	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1960/N1558	6.04	0.946	-2.763	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1960/N1542	6.70	0.916	-3.192	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1963/N1776	34.47	0.125	-41.202	0.020	-1.109	-0.04	-0.75	0.03	G	Cumple
N1962/N1538	46.32	0.916	-22.922	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1963/N1555	16.01	0.946	-7.572	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1963/N1539	21.12	0.916	-10.374	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1962/N1782	28.80	1.475	-32.011	-0.007	-1.034	-0.03	0.72	0.02	G	Cumple
N1962/N1554	38.12	0.946	-18.235	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1961/N1783	13.86	0.125	-16.442	0.111	-0.397	-0.01	-0.27	0.10	GV	Cumple
N1961/N1559	5.38	0.946	-2.448	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1965/N1784	10.04	0.125	-11.784	0.115	-0.270	0.00	-0.19	0.10	GV	Cumple
N1966/N1785	5.80	0.125	-6.149	0.107	-0.157	0.00	-0.11	0.09	GV	Cumple
N1968/N1786	5.81	0.125	-6.163	0.106	0.157	0.00	0.11	0.09	GV	Cumple
N1961/N1543	6.14	0.916	-2.914	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1965/N1560	4.79	0.946	-2.161	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1965/N1544	5.75	0.916	-2.720	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1966/N1691	4.49	0.946	-2.018	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1966/N1689	5.85	0.916	-2.766	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1968/N1690	4.50	0.946	-2.021	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1968/N1688	5.88	0.916	-2.783	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1970/N1788	13.87	0.125	-16.474	0.111	0.397	0.01	0.27	0.10	GV	Cumple
N1970/N1562	5.39	0.946	-2.452	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1969/N1787	10.05	0.125	-11.811	0.115	0.270	0.00	0.19	0.10	GV	Cumple
N1969/N1561	4.80	0.946	-2.168	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1969/N1545	5.75	0.916	-2.718	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1970/N1546	6.15	0.916	-2.917	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1971/N1789	17.52	0.125	-21.027	0.096	0.519	0.01	0.35	0.08	GV	Cumple
N1972/N1790	21.03	0.125	-25.196	0.108	0.624	0.02	0.42	0.10	GV	Cumple
N1973/N1791	24.51	0.125	-29.562	0.087	0.741	0.03	0.50	0.08	GV	Cumple
N1971/N1563	6.05	0.946	-2.768	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1971/N1547	6.71	0.916	-3.197	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1972/N1686	6.51	0.946	-2.991	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1972/N1685	7.11	0.916	-3.396	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1973/N1687	6.67	0.946	-3.071	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1973/N1684	7.36	0.916	-3.520	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1975/N1793	29.93	0.125	-36.540	0.029	0.928	0.03	0.63	0.03	GV	Cumple
N1975/N1565	9.11	0.946	-4.245	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1975/N1549	10.43	0.916	-5.047	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1974/N1792	27.41	0.125	-33.287	0.062	0.839	0.03	0.57	0.06	GV	Cumple
N1976/N1794	34.47	0.125	-41.205	0.020	1.109	0.04	0.75	0.03	G	Cumple
N1974/N1564	7.43	0.946	-3.435	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1974/N1548	8.05	0.916	-3.863	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1976/N1566	16.02	0.946	-7.579	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1977/N1795	28.80	1.475	-32.007	-0.006	1.034	0.03	-0.72	0.02	G	Cumple
N1976/N1550	21.04	0.916	-10.332	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1977/N1567	35.44	0.946	-16.942	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1977/N1551	46.18	0.916	-22.852	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1913/N1704	51.93	0.161	100.913	0.000	-0.743	0.00	-0.61	-0.01	G	Cumple
N1916/N1703	52.00	0.162	101.035	0.000	-0.744	0.00	-0.61	0.01	G	Cumple
N1914/N1705	46.29	1.899	87.831	0.006	-0.610	0.00	0.59	-0.02	G	Cumple
N1915/N1702	46.34	1.901	87.897	-0.006	-0.611	0.00	0.59	0.02	G	Cumple
N1922/N1701	40.21	1.901	76.153	-0.011	-0.519	0.00	0.51	0.02	G	Cumple
N1929/N1706	40.17	1.899	76.086	0.011	-0.518	0.00	0.51	-0.02	G	Cumple
N1953/N1735	54.36	0.162	105.875	0.000	-0.780	0.00	-0.64	0.00	G	Cumple
N1952/N1734	48.61	1.900	92.710	0.000	-0.648	0.00	0.63	0.00	G	Cumple
N1951/N1733	42.27	1.900	80.638	0.000	-0.553	0.00	0.54	0.00	G	Cumple

Listados
Coberta de 46'8x28'6 malla tetràedres
Fecha: 20/12/24

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1963/N1782	36.40	0.162	69.556	-0.003	-0.527	-0.01	-0.42	-0.05	G	Cumple
N1956/N1776	31.81	1.900	58.652	0.033	-0.393	-0.01	0.39	-0.07	G	Cumple
N1957/N1777	27.56	1.900	51.182	0.028	-0.334	-0.01	0.34	-0.06	GV	Cumple
N1976/N1795	36.40	0.162	69.566	0.003	-0.527	0.01	-0.42	0.05	G	Cumple
N1975/N1794	31.81	1.900	58.656	-0.033	-0.393	0.01	0.40	0.07	G	Cumple
N1974/N1793	27.62	1.900	51.278	-0.029	-0.335	0.01	0.34	0.06	GV	Cumple
N1940/N1722	54.36	0.162	105.863	0.000	-0.780	0.00	-0.64	0.00	G	Cumple
N1933/N1716	48.61	1.900	92.702	0.000	-0.648	0.00	0.63	0.00	G	Cumple
N1934/N1717	42.27	1.900	80.633	0.000	-0.553	0.00	0.54	0.00	G	Cumple
N2009/N1742	51.35	0.162	99.377	0.007	-0.735	0.00	-0.60	0.02	G	Cumple
N2002/N1736	45.69	1.900	85.364	-0.067	-0.595	0.01	0.58	0.06	GV	Cumple
N2003/N1737	39.64	1.900	74.938	-0.014	-0.510	0.00	0.51	0.02	G	Cumple
N2022/N1755	51.35	0.162	99.374	-0.007	-0.735	0.00	-0.60	-0.02	G	Cumple
N2021/N1754	45.69	1.900	86.628	0.005	-0.602	0.00	0.58	-0.02	G	Cumple
N2020/N1753	39.64	1.900	74.938	0.014	-0.510	0.00	0.51	-0.02	G	Cumple
N1986/N1762	35.80	1.900	67.700	-0.049	-0.404	0.03	0.39	0.09	GV	Cumple
N1979/N1756	31.77	1.900	57.061	-0.106	-0.382	0.02	0.38	0.13	GV	Cumple
N1980/N1757	27.14	1.900	48.454	-0.113	-0.312	0.02	0.32	0.12	GV	Cumple
N1999/N1775	35.31	1.900	64.823	0.097	-0.403	-0.04	0.38	-0.14	GV	Cumple
N1998/N1774	32.22	1.900	56.488	0.165	-0.370	-0.03	0.37	-0.18	GV	Cumple
N1997/N1773	27.40	1.900	47.773	0.159	-0.306	-0.02	0.32	-0.16	GV	Cumple
N1973/N1792	25.41	1.900	46.804	-0.043	-0.298	0.01	0.31	0.06	GV	Cumple
N1972/N1791	22.59	1.900	41.211	-0.054	-0.255	0.01	0.28	0.07	GV	Cumple
N1971/N1790	19.20	1.900	34.586	-0.063	-0.205	0.01	0.24	0.07	GV	Cumple
N1921/N1700	35.43	1.901	66.881	-0.015	-0.446	0.00	0.46	0.02	G	Cumple
N1920/N1699	31.35	1.901	59.349	-0.012	-0.388	0.00	0.40	0.01	GV	Cumple
N1919/N1698	26.69	1.901	50.270	-0.013	-0.320	0.00	0.35	0.01	GV	Cumple
N1950/N1732	37.31	1.900	71.048	0.000	-0.478	0.00	0.48	0.00	G	Cumple
N1949/N1731	32.24	1.900	61.182	0.000	-0.402	0.00	0.42	0.00	G	Cumple
N1948/N1730	27.29	1.900	51.714	0.000	-0.331	0.00	0.36	0.00	GV	Cumple
N2019/N1752	34.90	1.900	65.732	0.019	-0.438	0.00	0.45	-0.03	G	Cumple
N2018/N1751	30.25	1.900	57.151	0.011	-0.373	0.00	0.39	-0.02	GV	Cumple
N2017/N1750	25.69	1.900	48.257	0.013	-0.306	0.00	0.34	-0.02	GV	Cumple
N1996/N1772	23.45	1.900	40.959	0.134	-0.253	-0.02	0.27	-0.14	GV	Cumple
N1995/N1771	20.65	1.900	37.493	0.053	-0.228	-0.01	0.25	-0.07	GV	Cumple
N1994/N1770	17.47	1.900	31.304	0.062	-0.181	-0.01	0.21	-0.07	GV	Cumple
N1981/N1758	23.47	1.900	41.824	-0.102	-0.261	0.01	0.28	0.11	GV	Cumple
N1982/N1759	20.62	1.900	37.442	-0.053	-0.227	0.01	0.25	0.07	GV	Cumple
N1983/N1760	17.45	1.900	31.259	-0.062	-0.181	0.01	0.21	0.07	GV	Cumple
N2004/N1738	34.90	1.900	65.732	-0.019	-0.438	0.00	0.45	0.03	G	Cumple
N2005/N1739	30.22	1.900	57.085	-0.010	-0.373	0.00	0.39	0.02	GV	Cumple
N2006/N1740	25.66	1.900	48.201	-0.013	-0.305	0.00	0.34	0.02	GV	Cumple
N1935/N1718	37.31	1.900	71.046	0.000	-0.478	0.00	0.48	0.00	G	Cumple
N1936/N1719	32.24	1.900	61.183	0.000	-0.402	0.00	0.42	0.00	G	Cumple
N1937/N1720	27.26	1.900	51.667	0.000	-0.330	0.00	0.36	0.00	GV	Cumple
N1930/N1707	35.39	1.899	66.817	0.015	-0.445	0.00	0.45	-0.02	G	Cumple
N1931/N1708	31.29	1.899	59.238	0.012	-0.387	0.00	0.40	-0.01	GV	Cumple
N1932/N1709	26.64	1.899	50.170	0.013	-0.319	0.00	0.35	-0.01	GV	Cumple
N1958/N1778	25.37	1.900	46.733	0.043	-0.298	-0.01	0.31	-0.06	GV	Cumple
N1959/N1779	22.56	1.900	41.158	0.054	-0.255	-0.01	0.28	-0.07	GV	Cumple
N1960/N1780	19.18	1.900	34.548	0.063	-0.205	-0.01	0.24	-0.07	GV	Cumple
N1938/N1721	21.80	1.900	41.073	0.000	-0.250	0.00	0.30	0.00	GV	Cumple
N1942/N1723	15.92	1.900	29.694	0.000	-0.165	0.00	0.22	0.00	GV	Cumple
N1947/N1729	21.82	1.900	41.113	0.000	-0.250	0.00	0.30	0.00	GV	Cumple
N1946/N1728	15.94	1.900	29.729	0.000	-0.165	0.00	0.22	0.00	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1945/N1727	9.96	1.900	18.336	0.000	-0.075	0.00	0.15	0.00	GV	Cumple
N1943/N1724	9.94	1.900	18.301	0.000	-0.075	0.00	0.15	0.00	GV	Cumple
N1918/N1697	21.45	1.901	40.116	-0.015	-0.243	0.00	0.29	0.01	GV	Cumple
N1928/N1696	15.80	1.901	29.221	-0.015	-0.161	0.00	0.22	0.01	GV	Cumple
N1927/N1715	10.33	1.901	19.215	-0.007	-0.087	0.00	0.15	0.00	GV	Cumple
N1925/N1712	10.27	1.899	19.117	0.006	-0.086	0.00	0.15	0.00	GV	Cumple
N1924/N1711	15.75	1.899	29.137	0.015	-0.161	0.00	0.22	-0.01	GV	Cumple
N1923/N1710	21.39	1.899	40.026	0.015	-0.242	0.00	0.29	-0.01	GV	Cumple
N1961/N1781	15.67	1.900	28.434	0.051	-0.160	-0.01	0.19	-0.05	GV	Cumple
N1965/N1783	12.07	1.900	21.620	0.055	-0.108	0.00	0.15	-0.04	GV	Cumple
N1966/N1784	8.51	1.900	15.024	0.051	-0.060	0.00	0.11	-0.03	GV	Cumple
N1970/N1789	15.70	1.900	28.489	-0.051	-0.161	0.01	0.20	0.05	GV	Cumple
N1969/N1788	12.10	1.900	21.664	-0.055	-0.108	0.00	0.15	0.04	GV	Cumple
N1968/N1787	8.54	1.900	15.065	-0.051	-0.060	0.00	0.11	0.03	GV	Cumple
N1993/N1769	14.00	1.900	24.654	0.068	-0.131	-0.01	0.17	-0.07	GV	Cumple
N1992/N1768	10.35	1.900	17.783	0.070	-0.080	-0.01	0.13	-0.06	GV	Cumple
N1991/N1767	6.88	1.900	11.943	0.049	-0.036	0.00	0.09	-0.03	GV	Cumple
N1984/N1761	13.97	1.900	24.613	-0.068	-0.131	0.01	0.17	0.06	GV	Cumple
N1988/N1763	10.33	1.900	17.744	-0.070	-0.080	0.01	0.13	0.06	GV	Cumple
N1989/N1764	6.84	1.900	11.880	-0.049	-0.036	0.00	0.09	0.03	GV	Cumple
N2007/N1741	20.53	1.900	38.279	-0.015	-0.230	0.00	0.28	0.01	GV	Cumple
N2011/N1743	15.01	1.900	27.655	-0.015	-0.150	0.00	0.21	0.01	GV	Cumple
N2012/N1744	9.39	1.900	17.040	-0.014	-0.067	0.00	0.14	0.01	GV	Cumple
N2016/N1749	20.56	1.900	38.329	0.015	-0.231	0.00	0.28	-0.01	GV	Cumple
N2015/N1748	15.03	1.900	27.701	0.015	-0.151	0.00	0.21	-0.01	GV	Cumple
N2014/N1747	9.41	1.900	17.087	0.014	-0.067	0.00	0.14	-0.01	GV	Cumple
N1939/N12	36.60	0.135	57.885	0.000	-1.226	-0.02	-0.81	0.00	GV	Cumple
N1954/N22	36.69	0.135	58.285	0.000	-1.215	0.02	-0.81	0.00	GV	Cumple
N1944/N1725	3.87	1.592	5.342	0.000	-0.103	0.00	0.11	0.00	GV	Cumple
N1944/N1726	3.89	1.592	5.378	0.000	-0.104	0.00	0.11	0.00	GV	Cumple
N1926/N1713	4.38	1.591	6.100	0.012	-0.116	0.00	0.12	0.00	GV	Cumple
N1926/N1714	4.42	1.593	6.160	-0.012	-0.117	0.00	0.12	0.00	GV	Cumple
N1962/N9	26.17	0.135	42.152	-0.012	-0.793	-0.04	-0.53	-0.03	GV	Cumple
N2008/N14	34.97	0.135	53.746	-0.053	-1.160	0.03	-0.77	-0.05	GV	Cumple
N1985/N16	24.06	0.135	37.981	-0.018	-0.803	0.05	-0.53	0.00	GV	Cumple
N2000/N18	23.52	0.135	34.916	-0.028	-0.847	-0.02	-0.55	-0.03	G	Cumple
N2023/N20	34.99	0.135	53.689	-0.074	-1.136	0.02	-0.75	-0.07	GV	Cumple
N1977/N25	26.19	0.135	42.404	0.012	-0.783	0.04	-0.52	0.03	GV	Cumple
N1967/N1785	4.67	0.135	5.457	0.079	-0.149	0.00	-0.08	0.08	GV	Cumple
N1967/N1786	4.68	0.135	5.468	-0.079	-0.150	0.00	-0.08	-0.08	GV	Cumple
N2013/N1745	3.66	1.592	4.971	-0.010	-0.096	0.00	0.10	0.00	GV	Cumple
N2013/N1746	3.69	1.592	5.014	0.010	-0.097	0.00	0.10	0.00	GV	Cumple
N1990/N1765	3.39	0.135	3.477	-0.075	-0.113	0.00	-0.06	-0.07	GV	Cumple
N1990/N1766	3.41	0.135	3.519	0.075	-0.114	0.00	-0.06	0.07	GV	Cumple
N1552/N1568	9.66	0.651	-5.496	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1537/N1553	11.46	0.651	-6.575	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1426/N1448	13.54	0.651	-7.831	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1294/N1316	13.53	0.651	-7.826	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1405/N1427	24.41	0.651	-14.370	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1273/N1295	27.14	0.651	-16.014	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1162/N1184	11.85	0.651	-6.813	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1141/N1163	25.14	0.651	-14.811	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1030/N1052	7.12	0.651	-3.967	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1009/N1031	15.18	0.651	-8.817	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N2/N1800	8.17	0.125	-14.182	-0.216	-7.722	-5.05	-2.80	4.30	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1800/N1796	5.11	1.237	-17.439	-1.064	0.190	-3.73	1.15	1.96	GV	Cumple
N1796/N1797	4.43	1.237	-15.471	-1.488	0.515	-3.15	0.96	1.70	GV	Cumple
N1797/N1798	3.84	0.063	-8.682	-2.946	-0.350	-2.41	0.69	-2.03	GV	Cumple
N1798/N1799	3.32	1.237	-2.419	-2.936	1.476	-2.08	-0.87	1.91	GV	Cumple
N1799/N3	3.76	0.063	-0.302	0.985	-2.119	-1.61	-2.03	1.74	GV	Cumple
N3/N1801	2.78	0.587	1.693	-2.086	0.364	-1.50	-1.34	1.72	GV	Cumple
N1801/N1802	3.23	1.237	-8.283	-0.860	-1.904	-1.37	1.47	0.73	G	Cumple
N1802/N1803	3.24	0.063	-4.858	1.876	0.193	-0.85	1.31	1.56	GV	Cumple
N1803/N1804	2.86	0.063	-7.931	-1.785	-0.527	-0.67	0.73	-1.18	GV	Cumple
N1804/N1805	3.83	1.237	10.979	1.914	3.185	-0.65	-2.93	-0.50	GV	Cumple
N1805/N4	5.06	0.063	10.517	2.175	-1.970	-0.01	-2.58	2.31	GV	Cumple
N4/N1806	3.60	0.587	5.689	-1.426	1.432	0.09	-2.15	1.50	GV	Cumple
N1806/N1807	2.88	0.063	-2.665	2.210	0.606	0.12	1.17	1.52	GV	Cumple
N1807/N1808	3.26	0.063	-4.922	2.400	0.139	0.75	1.23	1.65	GV	Cumple
N1808/N1809	3.25	0.063	-5.849	2.443	0.047	0.85	1.10	1.71	GV	Cumple
N1809/N1810	3.72	1.237	-1.673	2.535	3.166	1.07	-2.24	-0.97	GV	Cumple
N1810/N5	4.29	0.063	6.573	3.187	-0.590	1.68	-1.76	2.61	GV	Cumple
N5/N1811	2.71	0.587	6.573	3.187	0.000	1.68	-1.41	-1.13	GV	Cumple
N1811/N1812	3.67	0.063	-0.347	2.958	-2.124	2.36	-1.51	2.15	GV	Cumple
N1812/N1813	4.94	0.063	-7.869	4.627	-0.116	3.06	0.98	2.79	GV	Cumple
N1813/N1814	5.43	1.237	-10.671	4.919	0.728	3.78	0.72	-3.25	GV	Cumple
N1814/N1815	5.30	0.063	-9.299	2.391	1.168	4.81	1.31	2.16	GV	Cumple
N1815/N7	9.69	0.525	-3.356	1.779	7.890	6.82	-3.74	5.74	GV	Cumple
N1825/N1797	18.76	0.125	11.266	-0.582	0.301	0.06	0.18	-0.76	GV	Cumple
N1825/N902	5.81	0.871	-2.952	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1824/N1796	10.49	0.125	6.508	-0.134	0.175	0.08	0.11	-0.41	GV	Cumple
N1823/N900	16.71	0.871	-8.583	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1824/N923	11.49	0.900	-5.674	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1824/N901	7.09	0.871	-3.557	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1823/N1800	9.02	0.125	-10.876	0.378	-0.305	0.04	-0.19	0.06	GV	Cumple
N1824/N1800	11.70	1.819	17.210	-0.473	-0.070	0.02	0.09	0.21	GV	Cumple
N1825/N1796	14.51	1.819	-10.864	-0.898	0.135	0.07	-0.07	0.48	GV	Cumple
N1823/N2	7.24	0.137	8.387	0.204	-0.304	0.03	-0.18	0.07	GV	Cumple
N1823/N922	25.27	0.900	-12.656	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1825/N924	7.49	0.900	-3.648	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1826/N1798	27.95	0.125	17.092	-1.037	0.428	0.05	0.27	-1.13	GV	Cumple
N1826/N903	10.28	0.871	-5.286	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1826/N1797	21.23	1.819	-18.099	-1.094	0.210	0.09	-0.14	0.58	GV	Cumple
N1827/N1798	31.92	0.166	-27.543	-0.537	0.139	0.12	0.15	-0.86	GV	Cumple
N1827/N1799	30.40	0.125	-3.071	-1.734	0.400	0.04	0.28	-1.68	GV	Cumple
N1829/N1801	29.57	0.125	-7.069	-1.765	-0.216	0.03	-0.16	-1.62	GV	Cumple
N1830/N1802	25.18	0.125	6.937	-1.353	0.164	0.01	0.10	-1.40	GV	Cumple
N1826/N925	9.70	0.900	-4.767	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1827/N926	22.92	0.900	-11.463	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1827/N904	20.86	0.871	-10.754	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1829/N927	24.78	0.900	-12.405	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1829/N905	25.69	0.871	-13.277	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1830/N928	13.09	0.900	-6.482	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1830/N906	12.64	0.871	-6.521	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1831/N1803	27.12	0.125	11.491	-1.228	0.314	0.01	0.19	-1.31	GV	Cumple
N1831/N929	11.07	0.900	-5.459	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1832/N1804	33.79	0.125	17.443	-1.445	0.459	0.01	0.29	-1.49	GV	Cumple
N1831/N907	8.19	0.871	-4.194	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1832/N930	14.29	0.900	-7.094	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1829/N1799	19.02	0.166	-6.503	-0.607	-0.073	0.12	-0.06	-0.96	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1830/N1801	15.08	0.166	13.955	-0.544	-0.105	0.09	-0.06	-0.56	G	Cumple
N1831/N1802	17.87	0.166	-11.350	-0.304	0.036	0.11	0.07	-0.68	GV	Cumple
N1832/N1803	25.07	0.166	-19.120	-0.398	0.111	0.12	0.13	-0.78	GV	Cumple
N1833/N1805	35.64	0.125	5.189	-2.164	0.384	0.00	0.26	-1.99	GV	Cumple
N1835/N1806	31.83	0.125	3.386	-2.168	-0.071	-0.01	-0.05	-2.00	GV	Cumple
N1832/N908	11.10	0.871	-5.715	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1833/N931	28.14	0.900	-14.105	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1833/N909	21.02	0.871	-10.837	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1835/N932	28.14	0.900	-14.105	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1835/N910	23.00	0.871	-11.869	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1837/N1808	25.61	0.125	-7.959	-1.255	0.245	-0.02	0.16	-1.33	GV	Cumple
N1837/N934	11.07	0.900	-5.459	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1836/N1807	24.17	0.125	11.221	-1.350	-0.259	0.00	-0.16	-1.15	G	Cumple
N1836/N933	14.29	0.900	-7.094	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1836/N911	11.23	0.871	-5.782	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1837/N912	6.96	0.871	-3.554	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1836/N1808	16.78	0.166	9.298	0.425	-0.120	-0.13	-0.06	0.80	GV	Cumple
N1835/N1807	25.14	0.166	-17.484	0.772	0.093	-0.11	0.12	0.86	G	Cumple
N1833/N1804	34.86	0.166	-26.835	-0.663	0.133	0.15	0.14	-1.08	GV	Cumple
N1834/N1805	39.64	0.137	-16.327	-1.964	-0.040	0.13	-0.06	-1.97	GV	Cumple
N1834/N1806	34.94	0.137	-11.805	1.904	0.031	-0.13	0.03	1.86	GV	Cumple
N1838/N1809	30.16	0.125	-11.457	-1.399	0.423	-0.02	0.27	-1.44	GV	Cumple
N1839/N1810	42.91	0.125	-22.481	-1.916	0.455	-0.03	0.31	-1.84	GV	Cumple
N1838/N935	13.09	0.900	-6.482	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1838/N913	11.06	0.871	-5.697	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1839/N914	25.74	0.871	-13.302	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1838/N1810	23.29	0.166	23.299	0.414	-0.184	-0.11	-0.13	0.77	GV	Cumple
N1837/N1809	19.40	0.166	17.415	0.336	-0.179	-0.11	-0.11	0.70	GV	Cumple
N1841/N1811	29.31	0.125	-4.132	-1.831	-0.105	-0.05	-0.10	-1.76	GV	Cumple
N1839/N936	24.78	0.900	-12.405	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1841/N937	22.92	0.900	-11.463	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1841/N915	21.44	0.871	-11.053	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1843/N1813	17.73	0.125	-6.368	-0.738	0.195	-0.08	0.13	-0.88	GV	Cumple
N1843/N939	7.49	0.900	-3.650	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1843/N917	5.42	0.871	-2.748	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1842/N1812	19.08	0.125	0.517	-1.166	0.058	-0.06	0.04	-1.23	GV	Cumple
N1844/N1814	16.40	0.125	-11.349	-0.280	0.380	-0.11	0.24	-0.54	GV	Cumple
N1842/N938	9.70	0.900	-4.767	0.000	0.000	0.00	0.00	0.00	G	Cumple
N1842/N916	9.48	0.871	-4.867	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1844/N940	19.29	0.900	-9.626	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1843/N1814	16.10	1.819	14.924	0.994	-0.059	-0.09	0.09	-0.57	GV	Cumple
N1842/N1813	13.45	1.819	7.530	1.181	-0.002	-0.11	0.04	-0.66	GV	Cumple
N1841/N1812	20.49	0.166	-16.560	0.589	0.099	-0.09	0.13	0.60	G	Cumple
N1839/N1811	18.20	0.166	0.674	0.664	-0.234	-0.13	-0.20	1.01	GV	Cumple
N1844/N918	5.07	0.871	-2.507	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1845/N941	48.34	0.900	-24.339	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1844/N1815	17.80	1.819	22.982	0.732	-0.109	-0.07	0.12	-0.42	GV	Cumple
N1845/N1815	12.38	0.125	-14.546	0.260	0.413	-0.11	0.25	-0.11	GV	Cumple
N1845/N919	10.47	0.871	-5.324	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1845/N7	10.45	1.320	11.917	0.329	-0.367	-0.09	0.22	-0.15	GV	Cumple
N1822/N1823	18.05	0.125	-26.801	-2.790	-18.144	-1.32	-10.63	-3.33	GV	Cumple
N1823/N1824	6.14	0.044	-24.352	0.351	-1.912	-0.94	-1.52	-1.92	GV	Cumple
N1824/N1825	5.17	0.053	-21.106	-0.212	-0.227	-1.41	-0.14	-2.71	GV	Cumple
N1825/N1826	4.81	0.053	-15.043	-0.929	-0.267	-2.41	-0.30	-2.74	GV	Cumple
N1826/N1827	6.88	1.247	-23.506	-2.771	1.199	-1.84	-1.49	2.70	GV	Cumple

Listados

Coberta de 46'8x28'6 malla tetràedres

Fecha: 20/12/24

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1827/N1828	32.60	0.525	-36.900	-5.033	39.338	4.46	-20.20	6.00	GV	Cumple
N1828/N1829	28.42	0.125	-29.186	7.599	-33.176	-2.13	-16.67	6.43	GV	Cumple
N1829/N1830	6.59	0.053	-25.837	3.337	-1.454	2.03	-1.47	2.26	GV	Cumple
N1830/N1831	4.98	1.247	-20.652	0.410	0.102	0.67	0.00	-2.71	GV	Cumple
N1831/N1832	5.01	0.053	-14.226	-0.949	-0.299	-0.74	-0.23	-3.07	GV	Cumple
N1832/N1833	5.35	1.247	-24.480	-1.017	1.807	2.25	-1.26	1.46	GV	Cumple
N1833/N1834	26.30	0.525	-40.860	-2.396	30.912	6.52	-16.83	3.36	GV	Cumple
N1834/N1835	24.24	0.125	-28.666	6.334	-25.672	-2.08	-13.62	5.76	GV	Cumple
N1835/N1836	5.70	0.053	-18.123	3.920	-1.054	2.18	-1.01	2.57	GV	Cumple
N1836/N1837	4.52	1.247	-11.884	0.945	0.084	0.72	0.01	-3.04	GV	Cumple
N1837/N1838	4.32	0.053	-21.360	-0.413	-0.097	-0.24	0.00	-2.07	GV	Cumple
N1838/N1839	7.25	1.247	-39.220	-1.970	1.628	2.54	-1.04	2.13	GV	Cumple
N1839/N1840	32.01	0.525	-41.310	-5.469	40.028	6.64	-20.65	4.65	GV	Cumple
N1840/N1841	21.38	0.125	-16.001	4.042	-28.645	-1.27	-13.66	4.22	GV	Cumple
N1841/N1842	7.07	0.053	-23.611	3.712	-1.148	3.50	-1.50	2.84	GV	Cumple
N1842/N1843	5.38	1.247	-20.145	1.034	0.296	2.14	-0.50	-2.62	GV	Cumple
N1843/N1844	6.05	1.247	-15.644	-0.867	0.271	1.68	1.03	3.08	GV	Cumple
N1844/N1845	7.89	0.053	-31.157	3.402	2.399	2.33	1.36	3.08	GV	Cumple
N1845/N1846	26.43	0.525	-36.645	15.179	25.506	2.44	-14.74	-8.93	GV	Cumple
N1816/N1819	57.45	0.000	-58.836	33.191	13.367	1.14	35.44	60.83	GV	Cumple
N1819/N1840	22.74	1.799	-66.663	-5.454	4.878	0.65	-17.67	-16.53	GV	Cumple
N1817/N1820	61.21	0.000	-62.932	35.062	13.997	-0.05	36.56	65.98	GV	Cumple
N1820/N1834	25.66	1.799	-70.654	-3.759	4.053	-0.06	-17.45	-21.56	GV	Cumple
N1818/N1821	58.56	0.000	-92.620	33.040	13.236	-1.34	35.20	60.00	GV	Cumple
N1821/N1828	22.69	1.799	-65.139	-5.650	5.115	-0.98	-17.84	-16.42	GV	Cumple
N1818/N1658	59.83	0.145	47.436	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1/N1821	88.33	0.145	70.036	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1658/N1828	48.08	0.195	38.119	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1821/N1822	33.03	0.195	26.188	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1821/N1834	47.21	0.195	37.435	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1819/N1834	31.62	0.195	25.073	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1819/N1846	47.58	0.195	37.722	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1663/N1840	31.81	0.195	25.219	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1820/N1840	47.19	0.195	37.415	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1820/N1828	32.19	0.195	25.521	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1816/N1663	88.37	0.145	70.065	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N6/N1819	59.85	0.145	47.456	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1012/N1757	44.38	0.525	2.643	-9.188	-1.666	0.00	0.90	4.82	GV	Cumple
N1757/N1034	50.14	0.126	6.451	10.420	1.591	0.00	0.86	5.47	GV	Cumple
N1017/N1763	29.68	0.525	11.833	-6.162	-0.343	0.00	0.20	3.23	GV	Cumple
N1763/N1039	20.92	0.126	13.744	4.210	-0.049	0.00	0.00	2.21	GV	Cumple
N1022/N1768	27.66	0.525	12.970	5.439	-0.479	0.00	0.27	-2.85	GV	Cumple
N1768/N1044	26.78	0.126	12.166	-5.645	0.112	0.00	0.08	-2.96	GV	Cumple
N1027/N1773	43.07	0.525	5.012	8.551	-1.802	0.00	0.97	-4.49	GV	Cumple
N1773/N1049	55.18	0.126	5.495	-11.859	1.482	0.00	0.80	-6.22	GV	Cumple
N1159/N1753	63.61	0.525	1.976	12.939	-2.769	0.00	1.47	-6.79	GV	Cumple
N1753/N1181	68.96	0.126	3.588	-14.435	2.488	0.00	1.33	-7.58	GV	Cumple
N1154/N1748	29.98	0.525	7.037	6.330	-0.604	0.00	0.34	-3.32	GV	Cumple
N1748/N1176	25.10	0.126	7.126	-5.409	0.296	0.00	0.18	-2.84	GV	Cumple
N1149/N1743	30.78	0.525	6.235	-6.761	-0.431	0.00	0.25	3.55	GV	Cumple
N1743/N1171	23.33	0.126	6.616	4.963	0.336	0.00	0.20	2.61	G	Cumple
N1144/N1737	66.51	0.525	-0.222	-13.916	-2.646	0.00	1.41	7.30	GV	Cumple
N1737/N1166	68.12	0.126	-0.169	14.364	2.599	0.00	1.39	7.54	GV	Cumple
N1291/N1733	70.01	0.525	-0.254	14.775	-2.659	0.00	1.42	-7.75	GV	Cumple
N1733/N1313	70.34	0.126	-0.059	-14.672	2.855	0.00	1.52	-7.70	G	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1286/N1728	26.54	0.525	3.211	5.790	-0.563	0.00	0.32	-3.04	GV	Cumple
N1728/N1308	25.36	0.126	3.274	-5.498	0.556	0.00	0.31	-2.89	GV	Cumple
N1281/N1723	26.61	0.525	3.212	-5.810	-0.562	0.00	0.32	3.05	GV	Cumple
N1723/N1303	26.55	0.126	2.906	5.901	0.475	0.00	0.27	3.10	GV	Cumple
N1276/N1717	69.56	0.525	-0.102	-14.666	-2.665	0.00	1.42	7.70	GV	Cumple
N1717/N1298	73.46	0.126	-2.226	15.464	2.683	0.00	1.43	8.12	GV	Cumple
N1423/N1701	69.11	0.525	1.700	14.531	-2.570	0.00	1.37	-7.63	GV	Cumple
N1701/N1445	65.89	0.126	1.765	-13.645	2.644	0.00	1.41	-7.16	G	Cumple
N1418/N1696	24.93	0.525	7.538	5.104	-0.530	0.00	0.30	-2.68	GV	Cumple
N1696/N1440	30.11	0.126	7.302	-6.286	0.658	0.00	0.37	-3.30	GV	Cumple
N1413/N1711	24.93	0.525	7.537	-5.096	-0.537	0.00	0.30	2.67	GV	Cumple
N1711/N1435	31.07	0.126	4.980	6.809	0.547	0.00	0.31	3.57	GV	Cumple
N1408/N1706	69.00	0.525	1.830	-14.465	-2.599	0.00	1.39	7.59	GV	Cumple
N1706/N1430	68.24	0.126	-0.328	14.559	2.423	0.00	1.29	7.64	GV	Cumple
N1540/N1777	52.45	0.525	7.384	-10.908	-1.615	0.00	0.87	5.72	GV	Cumple
N1777/N1556	46.85	0.126	6.048	9.238	1.980	0.00	1.06	4.85	GV	Cumple
N1543/N1783	21.24	0.525	16.388	-3.995	0.154	0.00	-0.06	2.10	GV	Cumple
N1783/N1559	31.05	0.126	15.419	5.999	0.584	0.00	0.33	3.15	GV	Cumple
N1546/N1788	21.42	0.525	16.403	4.038	0.154	0.00	-0.06	-2.12	GV	Cumple
N1788/N1562	30.71	0.126	15.405	-5.914	0.585	0.00	0.33	-3.10	GV	Cumple
N1549/N1793	52.57	0.525	7.401	10.938	-1.613	0.00	0.87	-5.74	GV	Cumple
N1793/N1565	46.57	0.126	6.055	-9.166	1.982	0.00	1.06	-4.81	GV	Cumple
N1551/N1795	64.28	0.525	0.946	13.324	2.711	0.00	-1.40	-6.99	GV	Cumple
N1795/N1567	47.49	0.126	1.349	-9.427	-2.378	0.00	-1.23	-4.95	G	Cumple
N1684/N1791	42.10	0.525	12.822	8.517	-1.021	0.00	0.56	-4.47	GV	Cumple
N1791/N1687	43.18	0.126	12.171	-8.292	1.560	0.00	0.84	-4.35	GV	Cumple
N1685/N1790	35.26	0.525	14.369	7.053	-0.661	0.00	0.37	-3.70	GV	Cumple
N1790/N1686	39.66	0.126	13.820	-7.666	1.185	0.00	0.64	-4.02	GV	Cumple
N1550/N1794	53.19	0.525	2.358	12.093	-0.983	0.00	0.54	-6.35	GV	Cumple
N1794/N1566	44.46	0.126	2.732	-9.516	1.349	0.00	0.73	-4.99	GV	Cumple
N1548/N1792	48.20	0.525	10.479	9.861	-1.371	0.00	0.74	-5.17	GV	Cumple
N1792/N1564	45.49	0.126	9.439	-8.697	1.934	0.00	1.04	-4.56	GV	Cumple
N1547/N1789	28.21	0.525	15.308	5.572	-0.310	0.00	0.18	-2.92	GV	Cumple
N1789/N1563	35.45	0.126	14.649	-6.860	0.879	0.00	0.48	-3.60	GV	Cumple
N1545/N1787	17.82	0.525	16.841	2.758	0.500	0.00	-0.24	-1.45	GV	Cumple
N1787/N1561	25.77	0.126	16.370	-4.934	0.261	0.00	0.16	-2.59	GV	Cumple
N1688/N1786	13.65	0.525	17.152	1.429	0.765	0.00	-0.38	-0.75	GV	Cumple
N1786/N1690	24.00	0.126	-10.120	5.112	0.115	0.00	0.07	2.68	GV	Cumple
N1689/N1785	13.50	0.525	17.133	-1.392	0.765	0.00	-0.38	0.73	GV	Cumple
N1785/N1691	25.01	0.126	-9.991	5.081	0.410	0.00	0.23	2.67	GV	Cumple
N1544/N1784	17.65	0.525	16.834	-2.716	0.500	0.00	-0.24	1.43	GV	Cumple
N1784/N1560	26.85	0.126	-2.900	6.077	0.377	0.00	0.22	3.19	GV	Cumple
N1542/N1781	28.11	0.525	15.301	-5.547	-0.311	0.00	0.19	2.91	GV	Cumple
N1781/N1558	35.80	0.126	14.662	6.949	0.878	0.00	0.48	3.65	GV	Cumple
N1692/N1780	35.15	0.525	14.362	-7.026	-0.662	0.00	0.37	3.69	GV	Cumple
N1780/N1693	40.03	0.126	13.830	7.760	1.183	0.00	0.64	4.07	GV	Cumple
N1694/N1779	42.00	0.525	12.813	-8.489	-1.022	0.00	0.56	4.45	GV	Cumple
N1779/N1695	43.58	0.126	12.176	8.392	1.558	0.00	0.84	4.40	GV	Cumple
N1541/N1778	48.09	0.525	10.468	-9.833	-1.372	0.00	0.74	5.16	GV	Cumple
N1778/N1557	45.92	0.126	9.437	8.806	1.932	0.00	1.04	4.62	GV	Cumple
N1539/N1776	53.19	0.525	2.479	-12.078	-0.990	0.00	0.54	6.34	GV	Cumple
N1776/N1555	44.76	0.126	2.717	9.597	1.343	0.00	0.73	5.04	GV	Cumple
N1538/N1782	63.93	0.525	1.184	-13.249	2.680	0.00	-1.38	6.95	GV	Cumple
N1782/N1554	51.53	0.126	-0.710	10.340	-2.523	0.00	-1.30	5.43	GV	Cumple
N1425/N1703	77.61	0.525	1.913	16.288	3.006	0.00	-1.56	-8.55	GV	Cumple

Listados
Coberta de 46'8x28'6 malla tetràedres
Fecha: 20/12/24

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1703/N1447	72.96	0.126	-1.547	-15.384	-2.770	0.00	-1.43	-8.07	GV	Cumple
N1424/N1702	70.15	0.525	-0.659	15.671	-1.768	0.00	0.95	-8.22	GV	Cumple
N1702/N1446	66.52	0.126	-0.452	-14.726	1.816	0.00	0.97	-7.73	G	Cumple
N1422/N1700	62.37	0.525	3.989	12.932	-2.316	0.00	1.24	-6.79	GV	Cumple
N1700/N1444	61.04	0.126	4.556	-12.235	2.639	0.00	1.41	-6.42	GV	Cumple
N1421/N1699	53.73	0.525	5.422	11.112	-1.875	0.00	1.01	-5.83	GV	Cumple
N1699/N1443	54.45	0.126	6.094	-10.968	2.146	0.00	1.15	-5.76	GV	Cumple
N1420/N1698	44.26	0.525	6.272	9.173	-1.384	0.00	0.75	-4.81	GV	Cumple
N1698/N1442	46.52	0.126	6.939	-9.460	1.610	0.00	0.87	-4.97	GV	Cumple
N1419/N1697	34.47	0.525	7.253	6.979	-1.059	0.00	0.58	-3.66	GV	Cumple
N1697/N1441	37.90	0.126	7.371	-7.796	1.089	0.00	0.59	-4.09	GV	Cumple
N1417/N1715	15.00	0.525	7.659	3.185	0.043	0.00	0.00	-1.67	GV	Cumple
N1715/N1439	22.10	0.126	7.416	-4.776	0.159	0.00	0.11	-2.51	GV	Cumple
N1416/N1714	9.99	0.525	7.771	1.255	0.711	0.00	-0.35	-0.66	GV	Cumple
N1714/N1438	16.93	0.126	7.528	-3.249	-0.470	0.00	-0.22	-1.71	GV	Cumple
N1415/N1713	9.94	0.525	7.773	-1.244	0.710	0.00	-0.35	0.65	GV	Cumple
N1713/N1437	18.51	0.126	5.213	3.956	-0.326	0.00	-0.15	2.08	GV	Cumple
N1414/N1712	14.97	0.525	7.660	-3.175	0.039	0.00	0.00	1.67	GV	Cumple
N1712/N1436	23.86	0.126	5.162	5.378	0.162	0.00	0.11	2.82	GV	Cumple
N1412/N1710	34.49	0.525	7.250	-6.973	-1.070	0.00	0.58	3.66	GV	Cumple
N1710/N1434	38.15	0.126	5.792	8.106	0.959	0.00	0.53	4.25	GV	Cumple
N1411/N1709	44.30	0.525	6.303	-9.163	-1.403	0.00	0.76	4.81	GV	Cumple
N1709/N1433	46.76	0.126	5.083	9.858	1.409	0.00	0.76	5.17	GV	Cumple
N1410/N1708	53.75	0.525	5.472	-11.089	-1.898	0.00	1.02	5.82	GV	Cumple
N1708/N1432	55.03	0.126	4.015	11.566	1.845	0.00	0.99	6.07	GV	Cumple
N1409/N1707	62.33	0.525	4.070	-12.893	-2.342	0.00	1.25	6.77	GV	Cumple
N1707/N1431	62.53	0.126	2.327	13.175	2.234	0.00	1.19	6.92	GV	Cumple
N1407/N1705	69.81	0.525	-0.438	-15.566	-1.803	0.00	0.97	8.17	GV	Cumple
N1705/N1429	68.89	0.126	-3.058	15.426	1.518	0.00	0.82	8.10	GV	Cumple
N1406/N1704	76.84	0.525	2.297	-16.134	2.938	0.00	-1.52	8.47	GV	Cumple
N1704/N1428	75.12	0.126	-1.048	15.518	-3.212	0.00	-1.66	8.14	GV	Cumple
N1290/N1732	62.99	0.525	1.317	13.174	-2.427	0.00	1.30	-6.91	GV	Cumple
N1732/N1312	63.35	0.126	1.494	-13.116	2.560	0.00	1.37	-6.88	G	Cumple
N1289/N1731	54.32	0.525	2.733	11.108	-2.224	0.00	1.19	-5.83	GV	Cumple
N1731/N1311	54.37	0.126	2.269	-11.307	2.067	0.00	1.11	-5.93	G	Cumple
N1288/N1730	45.69	0.525	3.138	9.480	-1.665	0.00	0.90	-4.97	GV	Cumple
N1730/N1310	44.56	0.126	3.311	-9.190	1.658	0.00	0.89	-4.82	GV	Cumple
N1287/N1729	36.35	0.525	3.246	7.687	-1.116	0.00	0.61	-4.03	GV	Cumple
N1729/N1309	35.19	0.126	3.362	-7.394	1.109	0.00	0.60	-3.88	GV	Cumple
N1285/N1727	17.58	0.525	3.417	3.980	-0.120	0.00	0.08	-2.09	GV	Cumple
N1727/N1307	15.61	0.126	3.457	-3.490	0.115	0.00	0.08	-1.83	GV	Cumple
N1284/N1726	12.25	0.525	3.426	2.350	0.502	0.00	-0.24	-1.23	GV	Cumple
N1726/N1306	10.47	0.126	3.408	-1.896	-0.510	0.00	-0.25	-1.00	GV	Cumple
N1283/N1725	12.70	0.525	3.280	-2.362	0.612	0.00	-0.30	1.24	GV	Cumple
N1725/N1305	11.46	0.126	3.107	2.096	-0.580	0.00	-0.28	1.10	GV	Cumple
N1282/N1724	17.69	0.525	3.420	-4.009	-0.118	0.00	0.08	2.10	GV	Cumple
N1724/N1304	16.68	0.126	3.046	3.905	-0.003	0.00	0.02	2.05	GV	Cumple
N1280/N1721	36.44	0.525	3.245	-7.711	-1.115	0.00	0.61	4.05	GV	Cumple
N1721/N1302	37.00	0.126	2.783	7.987	1.011	0.00	0.55	4.19	GV	Cumple
N1279/N1720	45.80	0.525	3.134	-9.508	-1.663	0.00	0.89	4.99	GV	Cumple
N1720/N1301	47.16	0.126	2.422	10.029	1.534	0.00	0.83	5.26	GV	Cumple
N1278/N1719	54.45	0.525	2.724	-11.141	-2.223	0.00	1.19	5.85	GV	Cumple
N1719/N1300	56.82	0.126	1.684	11.999	2.030	0.00	1.09	6.30	GV	Cumple
N1277/N1718	62.67	0.525	1.417	-13.082	-2.432	0.00	1.30	6.86	GV	Cumple
N1718/N1299	65.55	0.126	0.253	13.851	2.464	0.00	1.31	7.27	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1275/N1716	71.59	0.525	-5.166	-15.320	-2.147	0.00	1.15	8.04	GV	Cumple
N1716/N1297	74.88	0.126	-4.881	16.562	1.745	0.00	0.94	8.69	GV	Cumple
N1274/N1722	77.77	0.525	2.712	-16.203	3.072	0.00	-1.59	8.50	GV	Cumple
N1722/N1296	81.64	0.126	-2.730	16.932	-3.303	0.00	-1.71	8.89	GV	Cumple
N1292/N1734	71.46	0.525	-1.782	15.888	-1.797	0.00	0.96	-8.34	GV	Cumple
N1734/N1314	71.81	0.126	-1.511	-15.778	2.008	0.00	1.08	-8.28	G	Cumple
N1293/N1735	78.48	0.525	2.327	16.368	3.113	0.00	-1.61	-8.59	GV	Cumple
N1735/N1315	77.04	0.126	0.641	-16.378	-2.863	0.00	-1.48	-8.60	G	Cumple
N1158/N1752	59.80	0.525	4.195	12.038	-2.556	0.00	1.36	-6.32	GV	Cumple
N1752/N1180	62.77	0.126	5.212	-12.995	2.261	0.00	1.21	-6.82	GV	Cumple
N1157/N1751	53.42	0.525	5.655	10.813	-2.079	0.00	1.11	-5.67	GV	Cumple
N1751/N1179	54.36	0.126	6.193	-11.264	1.821	0.00	0.98	-5.91	GV	Cumple
N1156/N1750	45.69	0.525	6.521	9.339	-1.556	0.00	0.84	-4.90	GV	Cumple
N1750/N1178	45.04	0.126	6.724	-9.389	1.327	0.00	0.72	-4.93	GV	Cumple
N1155/N1749	37.40	0.525	6.782	7.750	-1.056	0.00	0.58	-4.07	GV	Cumple
N1749/N1177	35.21	0.126	7.011	-7.426	0.815	0.00	0.45	-3.90	GV	Cumple
N1153/N1747	22.11	0.525	7.188	4.837	-0.119	0.00	0.08	-2.54	GV	Cumple
N1747/N1175	16.50	0.126	7.084	-3.370	-0.274	0.00	-0.12	-1.77	GV	Cumple
N1152/N1746	17.17	0.525	7.334	3.321	0.472	0.00	-0.23	-1.74	GV	Cumple
N1746/N1174	10.79	0.126	7.005	-1.353	-0.869	0.00	-0.43	-0.71	GV	Cumple
N1151/N1745	19.62	0.525	6.665	-3.853	0.602	0.00	-0.29	2.02	GV	Cumple
N1745/N1173	9.62	0.126	7.405	0.958	-0.942	0.00	-0.47	0.50	GV	Cumple
N1150/N1744	23.14	0.525	6.481	-5.300	0.048	0.00	0.00	2.78	GV	Cumple
N1744/N1172	14.92	0.126	7.499	2.829	-0.389	0.00	-0.18	1.48	GV	Cumple
N1148/N1741	38.15	0.525	5.767	-8.204	-0.863	0.00	0.47	4.31	GV	Cumple
N1741/N1170	33.36	0.126	6.393	6.966	0.858	0.00	0.47	3.66	G	Cumple
N1147/N1740	46.24	0.525	5.696	-9.669	-1.424	0.00	0.77	5.07	GV	Cumple
N1740/N1169	43.10	0.126	5.938	8.917	1.373	0.00	0.74	4.68	G	Cumple
N1146/N1739	54.20	0.525	4.537	-11.261	-1.907	0.00	1.02	5.91	GV	Cumple
N1739/N1168	52.37	0.126	5.174	10.784	1.877	0.00	1.01	5.66	G	Cumple
N1145/N1738	61.23	0.525	2.665	-12.704	-2.359	0.00	1.26	6.67	GV	Cumple
N1738/N1167	61.14	0.126	2.783	12.669	2.358	0.00	1.26	6.65	GV	Cumple
N1143/N1736	68.12	0.525	-3.634	-14.817	-1.897	0.00	1.02	7.78	GV	Cumple
N1736/N1165	70.54	0.126	-3.373	15.613	1.721	0.00	0.92	8.20	GV	Cumple
N1142/N1742	73.85	0.525	-5.609	-15.574	2.508	0.00	-1.29	8.17	GV	Cumple
N1742/N1164	78.08	0.126	-2.140	16.219	-3.171	0.00	-1.64	8.51	GV	Cumple
N1160/N1754	63.82	0.525	-0.266	14.300	-1.586	0.00	0.85	-7.50	GV	Cumple
N1754/N1182	68.48	0.126	2.633	-15.229	1.643	0.00	0.88	-7.99	GV	Cumple
N1161/N1755	71.76	0.525	3.509	14.667	3.047	0.00	-1.58	-7.70	GV	Cumple
N1755/N1183	74.81	0.126	7.844	-15.245	-2.908	0.00	-1.50	-8.00	GV	Cumple
N1024/N1770	36.16	0.525	11.488	7.104	-1.046	0.00	0.57	-3.73	GV	Cumple
N1770/N1046	39.35	0.126	11.012	-8.283	0.698	0.00	0.39	-4.35	GV	Cumple
N1023/N1769	32.11	0.525	12.288	6.324	-0.757	0.00	0.42	-3.32	GV	Cumple
N1769/N1045	33.09	0.126	11.700	-6.963	0.403	0.00	0.23	-3.65	GV	Cumple
N1021/N1767	23.01	0.525	13.704	4.522	-0.179	0.00	0.12	-2.37	GV	Cumple
N1767/N1043	21.59	0.126	12.541	-4.315	-0.199	0.00	-0.08	-2.26	GV	Cumple
N1020/N1766	21.09	0.525	12.960	-3.987	0.371	0.00	-0.17	2.09	GV	Cumple
N1766/N1042	17.51	0.126	12.810	-2.965	-0.510	0.00	-0.25	-1.56	GV	Cumple
N1019/N1765	23.39	0.525	12.942	-4.659	0.277	0.00	-0.12	2.44	GV	Cumple
N1765/N1041	13.98	0.126	14.265	1.838	-0.647	0.00	-0.32	0.96	GV	Cumple
N1018/N1764	25.67	0.525	12.463	-5.389	-0.070	0.00	0.06	2.83	GV	Cumple
N1764/N1040	17.59	0.126	14.079	3.031	-0.371	0.00	-0.17	1.59	GV	Cumple
N1025/N1771	39.68	0.525	10.084	7.740	-1.393	0.00	0.75	-4.06	GV	Cumple
N1771/N1047	45.40	0.126	9.890	-9.593	0.981	0.00	0.54	-5.04	GV	Cumple
N1026/N1772	42.08	0.525	7.915	8.173	-1.720	0.00	0.92	-4.29	GV	Cumple

Listados
Coberta de 46'8x28'6 malla tetràedres
Fecha: 20/12/24

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1772/N1048	50.84	0.126	7.916	-10.705	1.373	0.00	0.74	-5.62	GV	Cumple
N1028/N1774	41.15	0.525	2.378	8.882	-1.184	0.00	0.64	-4.66	GV	Cumple
N1774/N1050	54.47	0.126	3.913	-12.488	0.790	0.00	0.44	-6.55	GV	Cumple
N1029/N1775	46.32	0.525	3.137	8.788	2.596	0.00	-1.34	-4.61	GV	Cumple
N1775/N1051	64.35	0.126	5.037	-13.006	-2.741	0.00	-1.42	-6.83	GV	Cumple
N1016/N1761	33.52	0.525	11.119	-6.938	-0.581	0.00	0.33	3.64	GV	Cumple
N1761/N1038	27.46	0.126	12.750	5.528	0.356	0.00	0.21	2.90	GV	Cumple
N1015/N1760	37.13	0.525	10.129	-7.667	-0.825	0.00	0.45	4.02	GV	Cumple
N1760/N1037	34.03	0.126	11.957	6.895	0.687	0.00	0.38	3.62	GV	Cumple
N1014/N1759	40.33	0.525	8.480	-8.314	-1.098	0.00	0.60	4.36	GV	Cumple
N1759/N1036	40.34	0.126	10.716	8.222	1.027	0.00	0.56	4.32	GV	Cumple
N1013/N1758	42.92	0.525	5.994	-8.837	-1.405	0.00	0.76	4.64	GV	Cumple
N1758/N1035	46.01	0.126	8.879	9.440	1.362	0.00	0.74	4.95	GV	Cumple
N1011/N1756	43.32	0.525	-1.481	-9.340	-1.333	0.00	0.72	4.90	GV	Cumple
N1756/N1033	49.80	0.126	4.405	10.951	1.125	0.00	0.61	5.75	GV	Cumple
N1010/N1762	45.50	0.525	3.229	-8.620	2.554	0.00	-1.32	4.52	GV	Cumple
N1762/N1032	60.85	0.126	-0.562	12.393	-2.808	0.00	-1.45	6.50	GV	Cumple
N1671/N1890	3.02	0.587	-5.473	-1.594	-3.157	0.00	1.51	0.74	GV	Cumple
N1890/N1887	5.33	0.063	-9.853	2.879	0.221	2.20	1.29	2.67	GV	Cumple
N1887/N1878	4.25	0.063	-8.857	3.151	-0.367	2.71	0.52	2.55	GV	Cumple
N1878/N1879	4.04	0.063	-5.940	3.682	0.034	2.88	0.69	2.44	GV	Cumple
N1879/N1880	4.62	1.237	4.435	5.202	0.921	2.84	-0.53	-4.16	GV	Cumple
N1880/N1677	2.87	0.650	7.472	2.316	0.401	1.38	-0.66	-1.98	GV	Cumple
N1677/N1869	4.38	0.587	-7.076	-2.585	-0.563	-0.53	1.02	2.32	GV	Cumple
N1869/N1870	2.58	0.063	-0.146	-2.166	0.122	0.21	0.55	-1.76	GV	Cumple
N1870/N1871	2.24	0.063	-6.511	-1.221	0.062	0.72	0.37	-1.10	GV	Cumple
N1871/N1860	3.03	0.063	-4.447	2.177	-0.217	0.86	0.79	1.56	GV	Cumple
N1860/N1861	3.78	1.237	-3.675	-3.069	0.500	-0.33	-0.87	2.22	GV	Cumple
N1861/N1680	3.63	0.063	6.305	-1.371	-1.407	0.10	-1.78	-1.85	GV	Cumple
N1680/N1847	4.59	0.587	-9.650	-2.170	-1.502	-0.02	1.20	2.11	GV	Cumple
N1847/N1848	3.64	0.063	11.728	-1.619	-1.429	-1.21	-1.34	-1.80	GV	Cumple
N1848/N1849	3.10	1.237	-4.958	-2.209	0.225	-0.86	0.79	1.58	GV	Cumple
N1849/N1850	3.21	0.063	-12.748	-2.452	-0.156	-0.63	0.18	-1.63	GV	Cumple
N1850/N1851	4.89	1.237	-11.242	-3.095	1.287	-0.97	-1.05	2.39	GV	Cumple
N1851/N1683	3.26	0.063	2.010	-2.421	-0.475	-1.67	-1.20	-2.40	GV	Cumple
N1683/N1894	4.33	0.587	-9.344	-2.118	-0.869	-0.06	0.57	2.53	GV	Cumple
N1894/N1895	4.41	0.063	-0.848	-4.117	-1.531	-2.62	-1.00	-2.90	GV	Cumple
N1895/N1901	4.12	1.237	-6.462	-3.713	-0.026	-2.88	0.69	2.46	GV	Cumple
N1901/N1902	4.33	1.237	-9.383	-3.182	0.372	-2.72	0.52	2.58	GV	Cumple
N1902/N1903	5.39	1.237	-10.167	-2.901	-0.223	-2.20	1.29	2.69	GV	Cumple
N1903/N1674	3.20	0.063	-6.879	1.612	3.228	0.00	1.55	0.74	GV	Cumple
N1893/N1891	11.55	0.125	-24.471	4.148	-11.124	2.76	-6.31	2.00	GV	Cumple
N1891/N1888	5.36	0.044	-20.992	-0.405	-1.552	4.86	-0.88	-0.66	GV	Cumple
N1888/N1881	6.38	0.053	-12.597	-1.344	-0.335	5.79	0.40	0.47	GV	Cumple
N1881/N1882	7.74	0.053	-6.844	1.062	-0.180	7.03	0.25	2.69	GV	Cumple
N1882/N1883	10.26	1.247	-2.981	8.388	-0.235	8.68	0.62	-8.36	GV	Cumple
N1883/N1910	22.18	0.525	0.078	22.672	-1.587	10.85	1.43	-19.98	GV	Cumple
N1910/N1872	32.87	0.125	-30.514	-22.960	-11.224	-5.22	-6.71	-20.28	GV	Cumple
N1872/N1873	12.07	0.053	-26.344	-8.796	-1.529	-4.27	-1.59	-7.03	GV	Cumple
N1873/N1874	9.24	1.247	-19.272	-1.519	-0.177	-1.43	0.26	6.42	GV	Cumple
N1874/N1862	9.06	0.053	-11.267	2.468	-0.236	1.56	0.01	7.18	GV	Cumple
N1862/N1863	8.75	1.247	-2.662	9.375	0.154	3.63	0.41	-7.25	GV	Cumple
N1863/N1864	22.17	0.525	2.667	25.201	-9.865	7.49	5.33	-19.96	GV	Cumple
N1864/N1865	30.97	0.125	-25.966	-23.869	-9.669	-5.66	-5.89	-19.78	GV	Cumple
N1865/N1855	11.03	0.053	-18.276	-9.716	-1.109	-4.61	-1.11	-7.26	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1855/N1852	9.21	1.247	-11.991	-2.550	-0.091	-1.58	0.20	7.07	GV	Cumple
N1852/N1853	7.63	0.053	-6.378	1.412	-0.078	1.48	0.03	6.30	GV	Cumple
N1853/N1854	9.08	1.247	-41.748	-3.721	1.313	-0.70	-1.37	3.23	GV	Cumple
N1854/N1911	30.62	0.525	-0.157	23.538	-13.722	7.54	7.12	-20.45	GV	Cumple
N1911/N1896	30.21	0.125	-29.804	-22.595	-6.104	-11.04	-4.30	-20.36	GV	Cumple
N1896/N1897	13.90	0.053	-26.936	-8.481	-1.250	-9.13	-1.65	-8.56	GV	Cumple
N1897/N1899	7.50	0.053	-17.869	-1.290	-0.520	-6.81	-0.17	0.95	GV	Cumple
N1899/N1904	5.87	0.053	-12.576	0.853	-0.441	-5.33	-0.04	1.86	GV	Cumple
N1904/N1905	7.00	1.256	-30.786	-0.062	1.039	1.84	-1.17	2.49	GV	Cumple
N1905/N1908	11.68	0.525	-25.460	-4.137	11.281	-2.77	-6.41	1.93	GV	Cumple
N1852/N1849	27.86	0.125	5.652	-2.521	-0.174	0.01	-0.11	-1.61	GV	Cumple
N1852/N1856	20.38	0.900	-10.246	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1855/N1848	26.63	0.125	5.171	-2.366	-0.178	0.06	-0.11	-1.53	GV	Cumple
N1855/N1857	26.95	0.900	-13.574	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1855/N1647	19.06	0.871	15.410	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1852/N1648	13.68	0.871	11.023	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1853/N1850	27.44	0.125	4.406	-2.467	-0.171	-0.05	-0.11	-1.62	GV	Cumple
N1854/N1851	30.22	0.125	6.893	-2.466	-0.154	-0.04	-0.10	-1.74	GV	Cumple
N1853/N1858	26.42	0.900	-13.304	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1853/N1649	19.69	0.871	15.929	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1854/N1859	39.74	0.900	-19.983	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1854/N1650	34.62	0.871	28.103	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1853/N1851	19.31	0.166	-7.864	1.469	0.018	-0.16	0.04	0.94	GV	Cumple
N1852/N1850	22.29	0.166	-8.266	1.635	0.034	-0.11	0.04	1.11	GV	Cumple
N1855/N1849	24.38	0.166	-9.277	1.661	0.040	-0.10	0.05	1.20	GV	Cumple
N1862/N1860	28.06	0.125	-7.725	-2.355	-0.195	-0.06	-0.12	-1.52	GV	Cumple
N1863/N1861	25.82	0.125	3.518	1.724	0.204	0.00	0.14	1.50	GV	Cumple
N1865/N1847	25.96	0.125	3.644	1.724	-0.213	0.00	-0.15	1.50	GV	Cumple
N1862/N1866	28.09	0.900	-14.154	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1863/N1867	41.95	0.900	-21.101	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1863/N1645	33.32	0.871	27.045	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1865/N1868	43.07	0.900	-21.668	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1865/N1646	32.16	0.871	26.096	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1863/N1860	22.97	0.166	-16.346	0.851	0.067	-0.10	0.08	0.79	GV	Cumple
N1865/N1848	23.33	0.166	-8.992	1.558	0.016	-0.14	0.02	1.16	GV	Cumple
N1864/N1861	28.07	0.137	-10.210	1.580	-0.003	-0.10	0.00	1.49	GV	Cumple
N1864/N1847	28.24	0.137	-10.502	-1.580	-0.001	0.10	0.00	-1.49	GV	Cumple
N1872/N1869	29.82	0.125	-8.126	-2.355	-0.153	0.03	-0.09	-1.65	GV	Cumple
N1873/N1870	29.19	0.125	-8.380	-2.395	-0.238	0.05	-0.15	-1.56	GV	Cumple
N1872/N1875	44.10	0.900	-22.192	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1873/N1876	28.33	0.900	-14.272	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1873/N1642	17.94	0.871	14.497	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1874/N1871	29.01	0.125	-7.744	-2.485	-0.218	0.00	-0.14	-1.58	GV	Cumple
N1874/N1877	22.00	0.900	-11.064	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1874/N1643	12.59	0.871	10.140	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1862/N1644	18.63	0.871	15.063	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1873/N1869	18.83	0.166	10.304	-1.424	-0.114	0.15	-0.08	-0.89	GV	Cumple
N1874/N1870	22.19	0.166	11.753	-1.608	-0.118	0.11	-0.08	-1.08	GV	Cumple
N1862/N1871	23.13	0.166	10.346	-1.647	-0.117	0.09	-0.08	-1.18	GV	Cumple
N1881/N1878	13.92	0.125	-5.667	-1.417	-0.153	-0.07	-0.09	-0.68	GV	Cumple
N1881/N1638	8.44	0.871	6.749	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1881/N1884	13.54	0.900	-6.711	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1882/N1879	19.25	0.125	-6.384	-1.720	-0.154	-0.09	-0.10	-1.00	GV	Cumple
N1883/N1880	24.83	0.125	-2.751	-2.173	-0.155	-0.07	-0.10	-1.50	GV	Cumple
N1882/N1885	24.88	0.900	-12.526	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Listados
Coberta de 46'8x28'6 malla tetràedres
Fecha: 20/12/24

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1882/N1639	18.10	0.871	14.630	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1883/N1886	40.78	0.900	-20.511	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1883/N1640	32.68	0.871	26.522	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1872/N1641	30.70	0.871	24.909	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1882/N1878	17.74	0.166	7.333	-1.355	-0.097	0.05	-0.06	-0.92	GV	Cumple
N1883/N1879	21.39	0.166	8.967	-1.493	-0.096	0.14	-0.06	-1.12	GV	Cumple
N1872/N1880	16.56	0.166	5.557	-1.337	-0.088	0.20	-0.06	-0.90	GV	Cumple
N1888/N1887	10.97	0.125	5.894	-0.865	0.179	-0.01	0.11	-0.46	GV	Cumple
N1888/N1889	6.40	0.900	-3.096	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1888/N1637	7.16	0.871	-3.597	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1881/N1887	14.31	0.166	7.925	-1.176	-0.093	0.02	-0.06	-0.68	GV	Cumple
N1891/N1890	10.45	0.125	-8.574	-1.072	-0.266	-0.10	-0.16	-0.30	GV	Cumple
N1891/N1892	13.10	0.900	-6.489	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1888/N1890	14.07	0.166	12.311	-1.030	-0.160	-0.03	-0.10	-0.50	GV	Cumple
N1891/N1636	23.44	0.871	-12.098	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1891/N1671	9.39	0.137	8.345	-0.661	-0.135	0.02	-0.09	-0.31	GV	Cumple
N1896/N1894	24.14	0.125	0.826	-2.302	-0.013	0.07	0.00	-1.60	GV	Cumple
N1896/N1898	40.92	0.900	-20.582	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1896/N1651	32.93	0.871	26.729	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1896/N1895	20.75	0.166	-6.317	1.490	-0.032	-0.14	-0.01	1.12	GV	Cumple
N1854/N1894	15.59	0.166	-1.078	1.404	0.035	-0.21	0.05	0.97	GV	Cumple
N1897/N1895	18.46	0.125	2.000	-1.860	-0.107	0.09	-0.07	-1.12	GV	Cumple
N1897/N1900	23.46	0.900	-11.807	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1897/N1652	18.96	0.871	15.331	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1897/N1901	19.86	0.166	-7.400	1.436	0.021	-0.07	0.03	1.00	GV	Cumple
N1899/N1901	15.41	0.125	4.516	-1.593	-0.148	0.06	-0.09	-0.82	GV	Cumple
N1899/N1906	11.26	0.900	-5.557	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1899/N1653	9.83	0.871	7.888	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1904/N1902	12.18	0.125	5.625	-1.320	-0.171	0.04	-0.11	-0.55	GV	Cumple
N1904/N1907	5.14	0.900	-2.459	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1904/N1654	6.98	0.871	-3.500	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1904/N1903	14.46	0.166	-8.999	1.134	0.047	-0.02	0.05	0.56	GV	Cumple
N1899/N1902	16.97	0.166	-8.342	1.275	0.030	-0.04	0.04	0.76	GV	Cumple
N1905/N1903	9.78	1.375	-9.960	-0.008	0.333	0.08	-0.22	0.14	GV	Cumple
N1905/N1909	12.84	0.900	-6.359	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1905/N1655	22.89	0.871	-11.811	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1905/N1674	9.00	0.137	11.127	0.369	-0.150	-0.01	-0.10	0.18	GV	Cumple
N1670/N1910	64.78	0.155	51.366	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1679/N1910	44.21	0.155	35.056	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1679/N1911	67.04	0.155	53.157	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1673/N1911	42.89	0.155	34.008	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1682/N1908	65.95	0.155	52.286	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1682/N1864	43.64	0.155	34.604	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1676/N1864	67.13	0.155	53.226	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1676/N1893	42.83	0.155	33.958	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1893/N1635	26.63	1.033	-7.054	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1908/N1656	27.17	1.033	-7.199	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1655/N1903	27.70	0.525	4.725	5.391	-1.142	0.00	0.62	-2.83	GV	Cumple
N1903/N1909	14.85	0.126	1.552	2.222	-1.415	0.00	-0.72	1.17	GV	Cumple
N1636/N1890	33.78	0.525	-0.323	7.377	1.065	0.00	-0.55	-3.87	GV	Cumple
N1890/N1892	14.92	0.126	1.548	-2.227	-1.427	0.00	-0.73	-1.17	GV	Cumple
N1651/N1894	27.86	0.525	9.242	5.849	0.474	0.00	-0.23	-3.07	GV	Cumple
N1894/N1898	18.22	0.126	17.744	2.394	0.815	0.00	0.45	1.26	GV	Cumple
N1650/N1851	29.01	0.525	-5.842	6.037	-0.741	0.00	0.41	-3.17	GV	Cumple
N1851/N1859	14.10	0.126	10.138	-1.572	1.181	0.00	0.63	-0.83	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1646/N1847	29.51	0.525	-8.052	5.831	-0.926	0.00	0.50	-3.06	GV	Cumple
N1847/N1868	17.43	0.126	18.637	1.820	1.142	0.00	0.61	0.96	GV	Cumple
N1645/N1861	28.74	0.525	-7.426	6.449	-0.162	0.00	0.10	-3.38	GV	Cumple
N1861/N1867	16.39	0.126	10.460	-2.229	-1.140	0.00	-0.58	-1.17	GV	Cumple
N1641/N1869	30.08	0.525	-8.489	6.810	0.108	0.00	-0.04	-3.57	GV	Cumple
N1869/N1875	19.00	0.126	18.347	1.758	1.617	0.00	0.86	0.92	GV	Cumple
N1640/N1880	32.28	0.525	-7.537	7.485	-0.003	0.00	0.01	-3.93	GV	Cumple
N1880/N1886	16.15	0.126	-7.631	-2.687	-0.829	0.00	-0.41	-1.41	GV	Cumple
N1654/N1902	28.74	0.525	3.230	6.150	-0.753	0.00	0.42	-3.23	GV	Cumple
N1902/N1907	16.00	0.126	2.397	2.706	-1.156	0.00	-0.58	1.42	GV	Cumple
N1653/N1901	28.73	0.525	4.887	6.416	-0.361	0.00	0.21	-3.37	GV	Cumple
N1901/N1906	17.39	0.126	5.290	3.081	-0.915	0.00	-0.46	1.62	GV	Cumple
N1652/N1895	27.66	0.525	7.006	6.365	0.074	0.00	-0.02	-3.34	GV	Cumple
N1895/N1900	17.90	0.126	5.072	3.418	-0.724	0.00	-0.36	1.79	GV	Cumple
N1649/N1850	30.26	0.525	-5.682	6.442	-0.661	0.00	0.37	-3.38	GV	Cumple
N1850/N1858	14.14	0.126	-5.365	-2.150	0.965	0.00	0.52	-1.13	GV	Cumple
N1648/N1849	28.80	0.525	-5.176	6.108	-0.665	0.00	0.37	-3.21	GV	Cumple
N1849/N1856	17.28	0.126	-4.469	-2.636	1.329	0.00	0.71	-1.38	GV	Cumple
N1647/N1848	28.35	0.525	-6.675	5.640	-0.929	0.00	0.50	-2.96	GV	Cumple
N1848/N1857	19.89	0.126	6.145	3.015	-1.545	0.00	-0.79	1.58	GV	Cumple
N1644/N1860	31.80	0.525	-5.993	6.842	0.704	0.00	-0.35	-3.59	GV	Cumple
N1860/N1866	20.12	0.126	6.141	-3.057	-1.559	0.00	-0.80	-1.60	GV	Cumple
N1643/N1871	31.14	0.525	-6.169	6.763	0.590	0.00	-0.30	-3.55	GV	Cumple
N1871/N1877	16.76	0.126	4.990	-2.514	-1.347	0.00	-0.69	-1.32	GV	Cumple
N1642/N1870	30.00	0.525	-6.940	6.561	0.450	0.00	-0.22	-3.44	GV	Cumple
N1870/N1876	17.62	0.126	-6.461	-3.444	-0.524	0.00	-0.25	-1.81	GV	Cumple
N1639/N1879	35.24	0.525	-6.248	8.011	0.359	0.00	-0.18	-4.20	GV	Cumple
N1879/N1885	18.11	0.126	5.065	-3.455	-0.739	0.00	-0.37	-1.81	GV	Cumple
N1638/N1878	35.44	0.525	-4.193	8.141	0.431	0.00	-0.21	-4.27	GV	Cumple
N1878/N1884	17.12	0.126	2.485	-3.264	-0.871	0.00	-0.44	-1.71	GV	Cumple
N1637/N1887	34.40	0.525	-2.117	7.962	0.503	0.00	-0.25	-4.18	GV	Cumple
N1887/N1889	15.24	0.126	1.380	-2.791	-0.958	0.00	-0.48	-1.46	GV	Cumple
N1892/N856	12.23	0.796	-6.164	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1892/N857	3.55	0.796	-1.608	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1889/N857	9.09	0.796	-4.519	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1889/N858	5.02	0.796	-2.489	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1884/N858	11.46	0.796	-5.760	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1886/N860	20.68	0.796	-10.601	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1886/N861	21.00	0.796	-10.887	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1875/N861	18.55	0.796	-9.486	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1875/N862	25.71	0.796	-13.243	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1876/N862	12.34	0.796	-6.226	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1884/N859	8.42	0.796	-4.276	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1885/N859	14.88	0.796	-7.557	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1885/N860	13.48	0.796	-6.934	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1876/N863	20.16	0.796	-10.328	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1877/N863	12.95	0.796	-6.542	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1877/N864	15.93	0.796	-8.220	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1866/N864	15.70	0.796	-7.987	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1866/N865	16.94	0.796	-8.753	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1867/N865	19.80	0.796	-10.138	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1867/N866	23.15	0.796	-11.899	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1868/N866	17.67	0.796	-9.023	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1868/N867	27.46	0.796	-14.161	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1857/N867	10.75	0.796	-5.499	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Listados
Coberta de 46'8x28'6 malla tetràedres
Fecha: 20/12/24

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1857/N868	21.74	0.796	-11.156	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1856/N868	10.38	0.796	-5.303	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1856/N869	17.18	0.796	-8.763	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1858/N869	12.75	0.796	-6.440	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1858/N870	17.66	0.796	-9.015	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1859/N870	17.38	0.796	-8.868	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1859/N871	23.39	0.796	-12.023	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1898/N871	15.79	0.796	-8.148	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1898/N872	26.53	0.796	-13.674	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1900/N872	8.49	0.796	-4.310	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1900/N873	20.40	0.796	-10.456	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1906/N873	6.20	0.796	-3.106	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1906/N874	14.38	0.796	-7.293	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1907/N874	5.05	0.796	-2.503	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1907/N875	10.21	0.796	-5.106	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1909/N875	7.32	0.796	-3.589	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1909/N876	8.23	0.796	-4.067	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N1681/N1682	81.15	0.000	-26.075	-71.454	-4.998	-1.87	-15.38	-125.73	GV	Cumple
N1682/N1911	36.09	1.481	-23.197	1.016	-1.980	0.15	2.73	58.97	GV	Cumple
N1678/N1679	83.83	0.000	-35.866	-72.772	-4.739	-0.04	-14.94	-130.02	GV	Cumple
N1679/N1864	37.61	1.481	-33.703	0.559	-2.248	-0.03	2.65	60.70	GV	Cumple
N1675/N1676	81.71	0.000	-35.634	-71.543	-4.757	1.81	-14.96	-126.27	GV	Cumple
N1676/N1910	36.57	1.481	-32.856	0.863	-2.205	-0.34	2.62	58.99	GV	Cumple
N1670/N1676	50.13	6.375	-52.872	-0.324	1.550	0.20	-3.46	1.00	GV	Cumple
N1676/N1679	41.79	6.375	-46.777	0.025	1.521	0.01	-3.42	-0.04	GV	Cumple
N1679/N1682	38.64	6.375	-41.183	-0.022	1.520	-0.02	-3.41	0.11	GV	Cumple
N1682/N1673	43.50	0.125	-38.276	-0.685	-1.253	0.45	-2.54	-2.20	GV	Cumple
N1657/N1659	15.27	7.675	-5.876	0.035	1.198	-0.07	-2.60	-0.16	GV	Cumple
N1659/N1660	15.11	7.675	-5.801	0.028	1.210	-0.01	-2.60	-0.12	GV	Cumple
N1660/N1661	14.59	7.675	-5.554	0.020	1.193	0.04	-2.54	-0.09	GV	Cumple
N1661/N1662	14.09	7.675	-5.797	0.021	1.151	0.09	-2.35	-0.12	GV	Cumple
N1662/N1658	28.39	0.125	-31.301	0.126	-1.132	-0.02	-2.20	0.40	GV	Cumple
N1670/N1657	44.48	6.375	-43.051	1.172	-0.491	-0.18	1.45	-2.31	GV	Cumple
N1658/N1821	39.16	6.375	-37.785	-0.107	1.633	0.17	-3.77	0.42	GV	Cumple
N1820/N1819	33.08	6.375	-29.748	-0.001	1.636	-0.01	-3.78	0.03	GV	Cumple
N1819/N1663	50.39	6.375	-55.860	0.157	1.629	-0.14	-3.76	-0.46	GV	Cumple
N1821/N1820	23.70	0.125	-21.394	0.009	-1.313	0.00	-2.77	0.04	GV	Cumple
N1673/N1664	32.83	6.375	-33.429	0.240	1.252	-0.22	-2.55	-0.80	GV	Cumple
N1664/N1668	13.36	7.675	9.773	0.047	1.210	-0.12	-2.67	-0.22	GV	Cumple
N1668/N1667	14.01	7.675	12.703	0.005	1.281	-0.03	-2.91	-0.03	GV	Cumple
N1666/N1665	17.13	7.675	11.844	-0.144	1.355	0.13	-3.15	0.56	GV	Cumple
N1665/N1663	37.34	6.375	-30.612	-0.530	1.461	0.20	-3.23	1.72	GV	Cumple
N1667/N1666	15.76	7.675	13.896	-0.050	1.335	0.05	-3.12	0.18	GV	Cumple
N1692/N725	41.26	0.796	-8.739	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1678/N1676	42.94	0.145	34.049	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1678/N1682	65.60	0.145	52.009	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1675/N1679	65.55	0.145	51.975	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1681/N1679	43.22	0.145	34.271	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N2028/N1704	31.96	0.125	-49.832	-2.285	-45.339	0.92	-23.49	-1.03	GV	Cumple
N1704/N1705	12.51	1.237	-82.138	0.796	-4.200	0.70	3.98	-0.26	GV	Cumple
N1705/N1706	14.76	1.237	-107.200	0.831	-0.663	0.55	3.59	-0.54	GV	Cumple
N1706/N1707	17.00	1.237	-127.488	0.721	-1.098	0.44	3.80	-0.62	GV	Cumple
N1707/N1708	19.09	1.237	-145.158	0.629	-1.028	0.36	4.14	-0.63	GV	Cumple
N1708/N1709	20.98	1.237	-165.349	0.208	-0.907	0.34	4.43	-0.32	G	Cumple
N1709/N1710	22.53	1.237	-178.681	0.186	-0.678	0.29	4.67	-0.34	G	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1710/N1711	23.69	1.237	-188.872	0.148	-0.443	0.22	4.83	-0.35	G	Cumple
N1711/N1712	24.48	1.237	-195.704	0.098	-0.244	0.15	4.98	-0.33	G	Cumple
N1712/N1713	24.39	0.063	-199.259	0.037	0.123	0.08	4.68	-0.25	G	Cumple
N1713/N1714	23.67	0.650	-197.793	0.000	-0.002	0.00	4.13	-0.27	G	Cumple
N1714/N1715	24.40	1.236	-199.271	-0.037	-0.121	-0.08	4.68	-0.25	G	Cumple
N1715/N1696	24.49	0.063	-195.718	-0.098	0.245	-0.15	4.98	-0.33	G	Cumple
N1696/N1697	23.69	0.063	-188.893	-0.148	0.445	-0.22	4.84	-0.35	G	Cumple
N1697/N1698	22.54	0.063	-178.716	-0.186	0.680	-0.29	4.67	-0.34	G	Cumple
N1698/N1699	20.99	0.063	-165.402	-0.208	0.910	-0.34	4.43	-0.32	G	Cumple
N1699/N1700	19.17	0.063	-146.284	-0.570	1.030	-0.37	4.15	-0.61	GV	Cumple
N1700/N1701	17.13	0.063	-128.905	-0.666	1.102	-0.44	3.81	-0.60	GV	Cumple
N1701/N1702	14.93	0.063	-108.975	-0.783	0.647	-0.55	3.60	-0.53	GV	Cumple
N1702/N1703	12.76	0.063	-84.360	-0.772	4.200	-0.70	4.02	-0.26	GV	Cumple
N1703/N2026	32.57	0.525	-52.425	2.280	46.043	-0.91	-23.83	-1.02	GV	Cumple
N2027/N1912	37.13	0.125	18.406	1.251	-55.358	0.46	-33.44	0.83	GV	Cumple
N1912/N1913	9.69	1.248	85.415	0.747	-4.090	1.18	2.52	-0.89	GV	Cumple
N1913/N1914	14.49	1.248	139.901	-0.184	-1.415	0.94	3.28	-0.71	GV	Cumple
N1914/N1929	18.46	1.248	187.606	-0.101	-1.094	0.60	3.81	-0.40	GV	Cumple
N1929/N1930	22.45	1.248	235.245	-0.021	-1.054	0.48	4.10	-0.38	GV	Cumple
N1930/N1931	26.07	1.248	277.242	0.024	-0.901	0.39	4.40	-0.42	GV	Cumple
N1931/N1932	29.17	1.248	313.395	0.032	-0.681	0.31	4.64	-0.47	GV	Cumple
N1932/N1923	31.70	1.248	343.256	0.025	-0.451	0.24	4.80	-0.51	GV	Cumple
N1923/N1924	33.59	1.248	366.404	0.014	-0.169	0.17	4.83	-0.55	GV	Cumple
N1924/N1925	34.88	1.247	382.506	0.003	0.041	0.10	4.83	-0.57	GV	Cumple
N1925/N1926	35.50	0.052	391.702	-0.034	0.425	0.03	4.69	-0.59	GV	Cumple
N1926/N1927	35.50	0.598	391.718	0.035	-0.436	-0.03	4.70	-0.59	GV	Cumple
N1927/N1928	34.89	0.052	382.574	-0.003	-0.041	-0.10	4.84	-0.57	GV	Cumple
N1928/N1918	33.60	0.052	366.527	-0.013	0.168	-0.17	4.83	-0.55	GV	Cumple
N1918/N1919	31.72	0.052	343.445	-0.024	0.450	-0.24	4.80	-0.52	GV	Cumple
N1919/N1920	29.20	0.052	313.661	-0.031	0.680	-0.31	4.64	-0.48	GV	Cumple
N1920/N1921	26.10	0.052	277.600	-0.022	0.901	-0.39	4.41	-0.43	GV	Cumple
N1921/N1922	22.50	0.052	235.714	0.023	1.052	-0.48	4.11	-0.39	GV	Cumple
N1922/N1915	18.52	0.052	188.211	0.102	1.090	-0.59	3.82	-0.41	GV	Cumple
N1915/N1916	14.63	0.052	141.222	0.183	1.452	-0.93	3.30	-0.73	GV	Cumple
N1916/N1917	9.81	0.052	86.896	-0.748	3.893	-1.17	2.50	-0.91	GV	Cumple
N1917/N2025	37.24	0.527	18.072	-1.249	55.185	-0.46	-33.53	0.83	GV	Cumple
N10/N1659	56.28	0.000	-88.265	4.439	37.727	0.02	75.20	16.35	GV	Cumple
N1659/N2027	26.99	3.770	-147.147	-0.489	-1.244	0.46	30.80	1.57	GV	Cumple
N2027/N2028	22.13	0.125	-92.461	3.816	-40.161	-1.89	-23.85	6.97	GV	Cumple
N23/N1668	68.92	0.000	-118.472	5.503	46.844	0.40	93.43	17.76	GV	Cumple
N1668/N2025	30.22	1.920	-112.471	2.573	-0.697	0.16	-38.42	-4.39	GV	Cumple
N2025/N2026	22.79	0.125	-94.179	3.810	40.861	1.87	24.87	6.95	GV	Cumple
N1912/N2028	36.03	0.135	56.697	0.043	-1.161	-0.02	-0.77	0.04	GV	Cumple
N1917/N2026	36.18	0.135	57.255	-0.042	-1.148	0.02	-0.77	-0.04	GV	Cumple
N2027/N1427	53.89	1.117	-12.770	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N2027/N1405	34.96	1.084	-8.641	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N2025/N1426	35.57	1.084	-8.795	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N2025/N1448	49.14	1.117	-11.633	0.000	0.000	0.00	0.01	0.00	GV	Cumple
N2029/N1964	24.74	6.375	-20.025	0.529	0.765	0.04	-1.63	-1.56	GV	Cumple
N2030/N1822	17.22	6.375	-13.563	0.221	1.031	0.13	-1.86	-0.75	GV	Cumple
N1657/N2029	44.37	0.150	35.183	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1670/N1964	55.13	0.150	43.710	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1662/N1822	42.57	0.195	33.755	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1658/N2030	34.28	0.195	27.177	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N2031/N1978	18.89	0.125	-13.477	0.444	-0.870	0.21	-1.37	1.43	GV	Cumple

Comprobación de resistencia a temperatura ambiente										
Barra	η (%)	Posición (m)	Esfuerzos pésimos						Origen	Estado
			N (kN)	Vy (kN)	Vz (kN)	Mt (kN·m)	My (kN·m)	Mz (kN·m)		
N1664/N2031	38.68	0.150	30.671	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1673/N1978	42.12	0.150	33.400	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N2032/N1846	30.38	6.375	-18.405	-0.776	1.245	-0.15	-2.53	2.49	GV	Cumple
N1663/N2032	37.62	0.195	29.829	0.000	0.000	0.00	0.00	0.00	GV	Cumple
N1665/N1846	59.06	0.195	46.829	0.000	0.000	0.00	0.00	0.00	GV	Cumple

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1/N1658	SHS 250x8.0	700	128.59
N1658/N1822	SHS 250x8.0	700	128.59
N1822/N2	SHS 250x8.0	700	128.59
N6/N1663	SHS 250x8.0	700	128.59
N1663/N1846	SHS 250x8.0	700	128.59
N1846/N7	SHS 250x8.0	700	128.59
N8/N1657	SHS 250x8.0	700	128.59
N1657/N1964	SHS 250x8.0	700	128.59
N1964/N9	SHS 250x8.0	700	128.59
N11/N1660	SHS 250x8.0	700	128.59
N1660/N1941	SHS 250x8.0	700	128.59
N1941/N12	SHS 250x8.0	700	128.59
N13/N1661	SHS 250x8.0	700	128.59
N1661/N2010	SHS 250x8.0	700	128.59
N2010/N14	SHS 250x8.0	700	128.59
N15/N1662	SHS 250x8.0	700	128.59
N1662/N2030	SHS 250x8.0	700	128.59
N2030/N1987	SHS 250x8.0	700	128.59
N1987/N16	SHS 250x8.0	700	128.59
N17/N1665	SHS 250x8.0	700	128.59
N1665/N2032	SHS 250x8.0	700	128.59
N2032/N2001	SHS 250x8.0	700	128.59
N2001/N18	SHS 250x8.0	700	128.59
N19/N1666	SHS 250x8.0	692	128.59
N1666/N2024	SHS 250x8.0	700	128.59
N2024/N20	SHS 250x8.0	700	128.59
N21/N1667	SHS 250x8.0	690	128.59
N1667/N1955	SHS 250x8.0	700	128.59
N1955/N22	SHS 250x8.0	700	128.59
N24/N1664	SHS 250x8.0	700	128.59
N1664/N1978	SHS 250x8.0	700	128.59
N1978/N25	SHS 250x8.0	700	128.59
N51/N52	O-60x2	700	517.24
N52/N53	O-60x2	700	517.24
N53/N54	O-60x2	700	517.24
N54/N55	O-60x2	700	517.24
N55/N56	O-60x2	700	517.24
N56/N57	O-60x2	700	517.24
N57/N58	O-60x2	700	517.24
N58/N59	O-60x2	700	517.24
N59/N60	O-60x2	700	517.24
N60/N61	O-60x2	700	517.24
N61/N62	O-60x2	700	517.24
N62/N63	O-60x2	700	517.24
N63/N64	O-60x2	700	517.24
N64/N65	O-60x2	700	517.24
N65/N66	O-60x2	700	517.24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N66/N67	O-60x2	700	517.24
N67/N68	O-60x2	700	517.24
N68/N69	O-60x2	700	517.24
N69/N70	O-60x2	700	517.24
N70/N71	O-60x2	700	517.24
N71/N72	O-60x2	700	517.24
N72/N73	O-60x2	700	517.24
N74/N75	O-60x2	700	517.24
N75/N76	O-60x2	700	517.24
N76/N77	O-60x2	700	517.24
N77/N78	O-60x2	700	517.24
N78/N79	O-60x2	700	517.24
N79/N80	O-60x2	700	517.24
N80/N81	O-60x2	700	517.24
N81/N82	O-60x2	700	517.24
N82/N83	O-60x2	700	517.24
N83/N84	O-60x2	700	517.24
N84/N85	O-60x2	700	517.24
N85/N86	O-60x2	700	517.24
N86/N87	O-60x2	700	517.24
N87/N88	O-60x2	700	517.24
N88/N89	O-60x2	700	517.24
N89/N90	O-60x2	700	517.24
N90/N91	O-60x2	700	517.24
N91/N92	O-60x2	700	517.24
N92/N93	O-60x2	700	517.24
N93/N94	O-60x2	700	517.24
N94/N95	O-60x2	700	517.24
N95/N96	O-60x2	700	517.24
N97/N98	O-60x2	700	517.24
N98/N99	O-60x2	700	517.24
N99/N100	O-60x2	700	517.24
N100/N101	O-60x2	700	517.24
N101/N102	O-60x2	700	517.24
N102/N103	O-60x2	700	517.24
N103/N104	O-60x2	700	517.24
N104/N105	O-60x2	700	517.24
N105/N106	O-60x2	700	517.24
N106/N107	O-60x2	700	517.24
N107/N108	O-60x2	700	517.24
N108/N109	O-60x2	700	517.24
N109/N110	O-60x2	700	517.24
N110/N111	O-60x2	700	517.24
N111/N112	O-60x2	700	517.24
N112/N113	O-60x2	700	517.24
N113/N114	O-60x2	700	517.24
N114/N115	O-60x2	700	517.24
N115/N116	O-60x2	700	517.24
N116/N117	O-60x2	700	517.24
N117/N118	O-60x2	700	517.24
N118/N119	O-60x2	700	517.24
N120/N121	O-60x2	700	517.24
N121/N122	O-60x2	700	517.24
N122/N123	O-60x2	700	517.24
N123/N124	O-60x2	700	517.24
N124/N125	O-60x2	700	517.24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N125/N126	O-60x2	700	517.24
N126/N127	O-60x2	700	517.24
N127/N128	O-60x2	700	517.24
N128/N129	O-60x2	700	517.24
N129/N130	O-60x2	700	517.24
N130/N131	O-60x2	700	517.24
N131/N132	O-60x2	700	517.24
N132/N133	O-60x2	700	517.24
N133/N134	O-60x2	700	517.24
N134/N135	O-60x2	700	517.24
N135/N136	O-60x2	700	517.24
N136/N137	O-60x2	700	517.24
N137/N138	O-60x2	700	517.24
N138/N139	O-60x2	700	517.24
N139/N140	O-60x2	700	517.24
N140/N141	O-60x2	700	517.24
N141/N142	O-60x2	700	517.24
N143/N144	O-60x2	700	517.24
N144/N145	O-60x2	700	517.24
N145/N146	O-60x2	700	517.24
N146/N147	O-60x2	700	517.24
N147/N148	O-60x2	700	517.24
N148/N149	O-60x2	700	517.24
N149/N150	O-60x2	700	517.24
N150/N151	O-60x2	700	517.24
N151/N152	O-60x2	700	517.24
N152/N153	O-60x2	700	517.24
N153/N154	O-60x2	700	517.24
N154/N155	O-60x2	700	517.24
N155/N156	O-60x2	700	517.24
N156/N157	O-60x2	700	517.24
N157/N158	O-60x2	700	517.24
N158/N159	O-60x2	700	517.24
N159/N160	O-60x2	700	517.24
N160/N161	O-60x2	700	517.24
N161/N162	O-60x2	700	517.24
N162/N163	O-60x2	700	517.24
N163/N164	O-60x2	700	517.24
N164/N165	O-60x2	700	517.24
N166/N167	O-60x2	700	517.24
N167/N168	O-60x2	700	517.24
N168/N169	O-60x2	700	517.24
N169/N170	O-60x2	700	517.24
N170/N171	O-60x2	700	517.24
N171/N172	O-60x2	700	517.24
N172/N173	O-60x2	700	517.24
N173/N174	O-60x2	700	517.24
N174/N175	O-60x2	700	517.24
N175/N176	O-60x2	700	517.24
N176/N177	O-60x2	700	517.24
N177/N178	O-60x2	700	517.24
N178/N179	O-60x2	700	517.24
N179/N180	O-60x2	700	517.24
N180/N181	O-60x2	700	517.24
N181/N182	O-60x2	700	517.24
N182/N183	O-60x2	700	517.24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N183/N184	O-60x2	700	517.24
N184/N185	O-60x2	700	517.24
N185/N186	O-60x2	700	517.24
N186/N187	O-60x2	700	517.24
N187/N188	O-60x2	700	517.24
N189/N190	O-60x2	700	517.24
N190/N191	O-60x2	700	517.24
N191/N192	O-60x2	700	517.24
N192/N193	O-60x2	700	517.24
N193/N194	O-60x2	700	517.24
N194/N195	O-60x2	700	517.24
N195/N196	O-60x2	700	517.24
N196/N197	O-60x2	697	517.24
N197/N198	O-60x2	693	517.24
N198/N199	O-60x2	690	517.24
N199/N200	O-60x2	690	517.24
N200/N201	O-60x2	690	517.24
N201/N202	O-60x2	691	517.24
N202/N203	O-60x2	694	517.24
N203/N204	O-60x2	698	517.24
N204/N205	O-60x2	700	517.24
N205/N206	O-60x2	700	517.24
N206/N207	O-60x2	700	517.24
N207/N208	O-60x2	700	517.24
N208/N209	O-60x2	700	517.24
N209/N210	O-60x2	700	517.24
N210/N211	O-60x2	700	517.24
N212/N213	O-60x2	700	517.24
N213/N214	O-60x2	700	517.24
N214/N215	O-60x2	700	517.24
N215/N216	O-60x2	700	517.24
N216/N217	O-60x2	700	517.24
N217/N218	O-60x2	700	517.24
N218/N219	O-60x2	700	517.24
N219/N220	O-60x2	697	517.24
N220/N221	O-60x2	693	517.24
N221/N222	O-60x2	691	517.24
N222/N223	O-60x2	690	517.24
N223/N224	O-60x2	690	517.24
N224/N225	O-60x2	691	517.24
N225/N226	O-60x2	694	517.24
N226/N227	O-60x2	699	517.24
N227/N228	O-60x2	700	517.24
N228/N229	O-60x2	700	517.24
N229/N230	O-60x2	700	517.24
N230/N231	O-60x2	700	517.24
N231/N232	O-60x2	700	517.24
N232/N233	O-60x2	700	517.24
N233/N234	O-60x2	700	517.24
N235/N236	O-60x2	700	517.24
N236/N237	O-60x2	700	517.24
N237/N238	O-60x2	700	517.24
N238/N239	O-60x2	700	517.24
N239/N240	O-60x2	700	517.24
N240/N241	O-60x2	700	517.24
N241/N242	O-60x2	700	517.24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N242/N243	O-60x2	700	517.24
N243/N244	O-60x2	700	517.24
N244/N245	O-60x2	700	517.24
N245/N246	O-60x2	699	517.24
N246/N247	O-60x2	699	517.24
N247/N248	O-60x2	700	517.24
N248/N249	O-60x2	700	517.24
N249/N250	O-60x2	700	517.24
N250/N251	O-60x2	700	517.24
N251/N252	O-60x2	700	517.24
N252/N253	O-60x2	700	517.24
N253/N254	O-60x2	700	517.24
N254/N255	O-60x2	700	517.24
N255/N256	O-60x2	700	517.24
N256/N257	O-60x2	700	517.24
N258/N259	O-60x2	700	517.24
N259/N260	O-60x2	700	517.24
N260/N261	O-60x2	700	517.24
N261/N262	O-60x2	700	517.24
N262/N263	O-60x2	700	517.24
N263/N264	O-60x2	700	517.24
N264/N265	O-60x2	700	517.24
N265/N266	O-60x2	700	517.24
N266/N267	O-60x2	700	517.24
N267/N268	O-60x2	699	517.24
N268/N269	O-60x2	697	517.24
N269/N270	O-60x2	697	517.24
N270/N271	O-60x2	699	517.24
N271/N272	O-60x2	700	517.24
N272/N273	O-60x2	700	517.24
N273/N274	O-60x2	700	517.24
N274/N275	O-60x2	700	517.24
N275/N276	O-60x2	700	517.24
N276/N277	O-60x2	700	517.24
N277/N278	O-60x2	700	517.24
N278/N279	O-60x2	700	517.24
N279/N280	O-60x2	700	517.24
N281/N282	O-60x2	700	517.24
N282/N283	O-60x2	700	517.24
N283/N284	O-60x2	700	517.24
N284/N285	O-60x2	700	517.24
N285/N286	O-60x2	700	517.24
N286/N287	O-60x2	700	517.24
N287/N288	O-60x2	700	517.24
N288/N289	O-60x2	697	517.24
N289/N290	O-60x2	692	517.24
N290/N291	O-60x2	689	517.24
N291/N292	O-60x2	688	517.24
N292/N293	O-60x2	688	517.24
N293/N294	O-60x2	689	517.24
N294/N295	O-60x2	692	517.24
N295/N296	O-60x2	697	517.24
N296/N297	O-60x2	700	517.24
N297/N298	O-60x2	700	517.24
N298/N299	O-60x2	700	517.24
N299/N300	O-60x2	700	517.24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N300/N301	O-60x2	700	517.24
N301/N302	O-60x2	700	517.24
N302/N303	O-60x2	700	517.24
N304/N305	O-60x2	700	517.24
N305/N306	O-60x2	700	517.24
N306/N307	O-60x2	700	517.24
N307/N308	O-60x2	700	517.24
N308/N309	O-60x2	700	517.24
N309/N310	O-60x2	697	517.24
N310/N311	O-60x2	686	517.24
N311/N312	O-60x2	677	517.24
N312/N313	O-60x2	671	517.24
N313/N314	O-60x2	667	517.24
N314/N315	O-60x2	666	517.24
N315/N316	O-60x2	666	517.24
N316/N317	O-60x2	667	517.24
N317/N318	O-60x2	671	517.24
N318/N319	O-60x2	677	517.24
N319/N320	O-60x2	686	517.24
N320/N321	O-60x2	697	517.24
N321/N322	O-60x2	700	517.24
N322/N323	O-60x2	700	517.24
N323/N324	O-60x2	700	517.24
N324/N325	O-60x2	700	517.24
N325/N326	O-60x2	700	517.24
N327/N328	O-60x2	700	517.24
N328/N329	O-60x2	700	517.24
N329/N330	O-60x2	700	517.24
N330/N331	O-60x2	700	517.24
N331/N332	O-60x2	700	517.24
N332/N333	O-60x2	685	517.24
N333/N334	O-60x2	671	517.24
N334/N335	O-60x2	661	517.24
N335/N336	O-60x2	654	517.24
N336/N337	O-60x2	650	517.24
N337/N338	O-60x2	649	517.24
N338/N339	O-60x2	649	517.24
N339/N340	O-60x2	651	517.24
N340/N341	O-60x2	655	517.24
N341/N342	O-60x2	662	517.24
N342/N343	O-60x2	672	517.24
N343/N344	O-60x2	685	517.24
N344/N345	O-60x2	700	517.24
N345/N346	O-60x2	700	517.24
N346/N347	O-60x2	700	517.24
N347/N348	O-60x2	700	517.24
N348/N349	O-60x2	700	517.24
N350/N351	O-60x2	700	517.24
N351/N352	O-60x2	700	517.24
N352/N353	O-60x2	700	517.24
N353/N354	O-60x2	700	517.24
N354/N355	O-60x2	700	517.24
N355/N356	O-60x2	692	517.24
N356/N357	O-60x2	680	517.24
N357/N358	O-60x2	671	517.24
N358/N359	O-60x2	665	517.24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N359/N360	O-60x2	661	517.24
N360/N361	O-60x2	659	517.24
N361/N362	O-60x2	660	517.24
N362/N363	O-60x2	662	517.24
N363/N364	O-60x2	666	517.24
N364/N365	O-60x2	672	517.24
N365/N366	O-60x2	682	517.24
N366/N367	O-60x2	694	517.24
N367/N368	O-60x2	700	517.24
N368/N369	O-60x2	700	517.24
N369/N370	O-60x2	700	517.24
N370/N371	O-60x2	700	517.24
N371/N372	O-60x2	700	517.24
N373/N374	O-60x2	700	517.24
N374/N375	O-60x2	700	517.24
N375/N376	O-60x2	700	517.24
N376/N377	O-60x2	700	517.24
N377/N378	O-60x2	700	517.24
N378/N379	O-60x2	700	517.24
N379/N380	O-60x2	697	517.24
N380/N381	O-60x2	689	517.24
N381/N382	O-60x2	683	517.24
N382/N383	O-60x2	680	517.24
N383/N384	O-60x2	679	517.24
N384/N385	O-60x2	679	517.24
N385/N386	O-60x2	680	517.24
N386/N387	O-60x2	683	517.24
N387/N388	O-60x2	689	517.24
N388/N389	O-60x2	697	517.24
N389/N390	O-60x2	700	517.24
N390/N391	O-60x2	700	517.24
N391/N392	O-60x2	700	517.24
N392/N393	O-60x2	700	517.24
N393/N394	O-60x2	700	517.24
N394/N395	O-60x2	700	517.24
N396/N397	O-60x2	700	517.24
N397/N398	O-60x2	700	517.24
N398/N399	O-60x2	700	517.24
N399/N400	O-60x2	700	517.24
N400/N401	O-60x2	700	517.24
N401/N402	O-60x2	700	517.24
N402/N403	O-60x2	700	517.24
N403/N404	O-60x2	692	517.24
N404/N405	O-60x2	687	517.24
N405/N406	O-60x2	684	517.24
N406/N407	O-60x2	682	517.24
N407/N408	O-60x2	682	517.24
N408/N409	O-60x2	684	517.24
N409/N410	O-60x2	687	517.24
N410/N411	O-60x2	692	517.24
N411/N412	O-60x2	700	517.24
N412/N413	O-60x2	700	517.24
N413/N414	O-60x2	700	517.24
N414/N415	O-60x2	700	517.24
N415/N416	O-60x2	700	517.24
N416/N417	O-60x2	700	517.24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N417/N418	O-60x2	700	517.24
N419/N420	O-60x2	700	517.24
N420/N421	O-60x2	700	517.24
N421/N422	O-60x2	700	517.24
N422/N423	O-60x2	700	517.24
N423/N424	O-60x2	700	517.24
N424/N425	O-60x2	700	517.24
N425/N426	O-60x2	693	517.24
N426/N427	O-60x2	685	517.24
N427/N428	O-60x2	680	517.24
N428/N429	O-60x2	676	517.24
N429/N430	O-60x2	675	517.24
N430/N431	O-60x2	675	517.24
N431/N432	O-60x2	676	517.24
N432/N433	O-60x2	679	517.24
N433/N434	O-60x2	685	517.24
N434/N435	O-60x2	693	517.24
N435/N436	O-60x2	700	517.24
N436/N437	O-60x2	700	517.24
N437/N438	O-60x2	700	517.24
N438/N439	O-60x2	700	517.24
N439/N440	O-60x2	700	517.24
N440/N441	O-60x2	700	517.24
N442/N443	O-60x2	700	517.24
N443/N444	O-60x2	700	517.24
N444/N445	O-60x2	700	517.24
N445/N446	O-60x2	700	517.24
N446/N447	O-60x2	700	517.24
N447/N448	O-60x2	687	517.24
N448/N449	O-60x2	675	517.24
N449/N450	O-60x2	665	517.24
N450/N451	O-60x2	658	517.24
N451/N452	O-60x2	654	517.24
N452/N453	O-60x2	653	517.24
N453/N454	O-60x2	653	517.24
N454/N455	O-60x2	654	517.24
N455/N456	O-60x2	658	517.24
N456/N457	O-60x2	665	517.24
N457/N458	O-60x2	674	517.24
N458/N459	O-60x2	687	517.24
N459/N460	O-60x2	700	517.24
N460/N461	O-60x2	700	517.24
N461/N462	O-60x2	700	517.24
N462/N463	O-60x2	700	517.24
N463/N464	O-60x2	700	517.24
N465/N466	O-60x2	700	517.24
N466/N467	O-60x2	700	517.24
N467/N468	O-60x2	700	517.24
N468/N469	O-60x2	700	517.24
N469/N470	O-60x2	695	517.24
N470/N471	O-60x2	676	517.24
N471/N472	O-60x2	662	517.24
N472/N473	O-60x2	651	517.24
N473/N474	O-60x2	644	517.24
N474/N475	O-60x2	640	517.24
N475/N476	O-60x2	638	517.24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N476/N477	O-60x2	638	517.24
N477/N478	O-60x2	639	517.24
N478/N479	O-60x2	644	517.24
N479/N480	O-60x2	651	517.24
N480/N481	O-60x2	662	517.24
N481/N482	O-60x2	676	517.24
N482/N483	O-60x2	694	517.24
N483/N484	O-60x2	700	517.24
N484/N485	O-60x2	700	517.24
N485/N486	O-60x2	700	517.24
N486/N487	O-60x2	700	517.24
N488/N489	O-60x2	700	517.24
N489/N490	O-60x2	700	517.24
N490/N491	O-60x2	700	517.24
N491/N492	O-60x2	700	517.24
N492/N493	O-60x2	700	517.24
N493/N494	O-60x2	688	517.24
N494/N495	O-60x2	675	517.24
N495/N496	O-60x2	665	517.24
N496/N497	O-60x2	658	517.24
N497/N498	O-60x2	654	517.24
N498/N499	O-60x2	653	517.24
N499/N500	O-60x2	653	517.24
N500/N501	O-60x2	654	517.24
N501/N502	O-60x2	658	517.24
N502/N503	O-60x2	665	517.24
N503/N504	O-60x2	675	517.24
N504/N505	O-60x2	688	517.24
N505/N506	O-60x2	700	517.24
N506/N507	O-60x2	700	517.24
N507/N508	O-60x2	700	517.24
N508/N509	O-60x2	700	517.24
N509/N510	O-60x2	700	517.24
N511/N512	O-60x2	700	517.24
N512/N513	O-60x2	700	517.24
N513/N514	O-60x2	700	517.24
N514/N515	O-60x2	700	517.24
N515/N516	O-60x2	700	517.24
N516/N517	O-60x2	700	517.24
N517/N518	O-60x2	693	517.24
N518/N519	O-60x2	684	517.24
N519/N520	O-60x2	678	517.24
N520/N521	O-60x2	675	517.24
N521/N522	O-60x2	673	517.24
N522/N523	O-60x2	673	517.24
N523/N524	O-60x2	675	517.24
N524/N525	O-60x2	678	517.24
N525/N526	O-60x2	684	517.24
N526/N527	O-60x2	692	517.24
N527/N528	O-60x2	700	517.24
N528/N529	O-60x2	700	517.24
N529/N530	O-60x2	700	517.24
N530/N531	O-60x2	700	517.24
N531/N532	O-60x2	700	517.24
N532/N533	O-60x2	700	517.24
N534/N535	O-60x2	700	517.24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N535/N536	O-60x2	700	517.24
N536/N537	O-60x2	700	517.24
N537/N538	O-60x2	700	517.24
N538/N539	O-60x2	700	517.24
N539/N540	O-60x2	700	517.24
N540/N541	O-60x2	698	517.24
N541/N542	O-60x2	690	517.24
N542/N543	O-60x2	684	517.24
N543/N544	O-60x2	681	517.24
N544/N545	O-60x2	679	517.24
N545/N546	O-60x2	679	517.24
N546/N547	O-60x2	681	517.24
N547/N548	O-60x2	684	517.24
N548/N549	O-60x2	690	517.24
N549/N550	O-60x2	698	517.24
N550/N551	O-60x2	700	517.24
N551/N552	O-60x2	700	517.24
N552/N553	O-60x2	700	517.24
N553/N554	O-60x2	700	517.24
N554/N555	O-60x2	700	517.24
N555/N556	O-60x2	700	517.24
N557/N558	O-60x2	700	517.24
N558/N559	O-60x2	700	517.24
N559/N560	O-60x2	700	517.24
N560/N561	O-60x2	700	517.24
N561/N562	O-60x2	700	517.24
N562/N563	O-60x2	700	517.24
N563/N564	O-60x2	693	517.24
N564/N565	O-60x2	685	517.24
N565/N566	O-60x2	679	517.24
N566/N567	O-60x2	676	517.24
N567/N568	O-60x2	674	517.24
N568/N569	O-60x2	674	517.24
N569/N570	O-60x2	676	517.24
N570/N571	O-60x2	679	517.24
N571/N572	O-60x2	685	517.24
N572/N573	O-60x2	693	517.24
N573/N574	O-60x2	700	517.24
N574/N575	O-60x2	700	517.24
N575/N576	O-60x2	700	517.24
N576/N577	O-60x2	700	517.24
N577/N578	O-60x2	700	517.24
N578/N579	O-60x2	700	517.24
N580/N581	O-60x2	700	517.24
N581/N582	O-60x2	700	517.24
N582/N583	O-60x2	700	517.24
N583/N584	O-60x2	700	517.24
N584/N585	O-60x2	700	517.24
N585/N586	O-60x2	689	517.24
N586/N587	O-60x2	676	517.24
N587/N588	O-60x2	667	517.24
N588/N589	O-60x2	660	517.24
N589/N590	O-60x2	656	517.24
N590/N591	O-60x2	655	517.24
N591/N592	O-60x2	655	517.24
N592/N593	O-60x2	656	517.24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N593/N594	O-60x2	660	517.24
N594/N595	O-60x2	666	517.24
N595/N596	O-60x2	676	517.24
N596/N597	O-60x2	688	517.24
N597/N598	O-60x2	700	517.24
N598/N599	O-60x2	700	517.24
N599/N600	O-60x2	700	517.24
N600/N601	O-60x2	700	517.24
N601/N602	O-60x2	700	517.24
N603/N604	O-60x2	700	517.24
N604/N605	O-60x2	700	517.24
N605/N606	O-60x2	700	517.24
N606/N607	O-60x2	700	517.24
N607/N608	O-60x2	697	517.24
N608/N609	O-60x2	679	517.24
N609/N610	O-60x2	666	517.24
N610/N611	O-60x2	656	517.24
N611/N612	O-60x2	649	517.24
N612/N613	O-60x2	644	517.24
N613/N614	O-60x2	643	517.24
N614/N615	O-60x2	643	517.24
N615/N616	O-60x2	644	517.24
N616/N617	O-60x2	648	517.24
N617/N618	O-60x2	656	517.24
N618/N619	O-60x2	666	517.24
N619/N620	O-60x2	679	517.24
N620/N621	O-60x2	697	517.24
N621/N622	O-60x2	700	517.24
N622/N623	O-60x2	700	517.24
N623/N624	O-60x2	700	517.24
N624/N625	O-60x2	700	517.24
N626/N627	O-60x2	700	517.24
N627/N628	O-60x2	700	517.24
N628/N629	O-60x2	700	517.24
N629/N630	O-60x2	700	517.24
N630/N631	O-60x2	700	517.24
N631/N632	O-60x2	692	517.24
N632/N633	O-60x2	680	517.24
N633/N634	O-60x2	671	517.24
N634/N635	O-60x2	665	517.24
N635/N636	O-60x2	661	517.24
N636/N637	O-60x2	660	517.24
N637/N638	O-60x2	660	517.24
N638/N639	O-60x2	661	517.24
N639/N640	O-60x2	665	517.24
N640/N641	O-60x2	671	517.24
N641/N642	O-60x2	680	517.24
N642/N643	O-60x2	692	517.24
N643/N644	O-60x2	700	517.24
N644/N645	O-60x2	700	517.24
N645/N646	O-60x2	700	517.24
N646/N647	O-60x2	700	517.24
N647/N648	O-60x2	700	517.24
N649/N650	O-60x2	700	517.24
N650/N651	O-60x2	700	517.24
N651/N652	O-60x2	700	517.24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N652/N653	O-60x2	700	517.24
N653/N654	O-60x2	700	517.24
N654/N655	O-60x2	700	517.24
N655/N656	O-60x2	699	517.24
N656/N657	O-60x2	692	517.24
N657/N658	O-60x2	687	517.24
N658/N659	O-60x2	684	517.24
N659/N660	O-60x2	683	517.24
N660/N661	O-60x2	683	517.24
N661/N662	O-60x2	684	517.24
N662/N663	O-60x2	687	517.24
N663/N664	O-60x2	692	517.24
N664/N665	O-60x2	699	517.24
N665/N666	O-60x2	700	517.24
N666/N667	O-60x2	700	517.24
N667/N668	O-60x2	700	517.24
N668/N669	O-60x2	700	517.24
N669/N670	O-60x2	700	517.24
N670/N671	O-60x2	700	517.24
N672/N673	O-60x2	700	517.24
N673/N674	O-60x2	700	517.24
N674/N675	O-60x2	700	517.24
N675/N676	O-60x2	700	517.24
N676/N677	O-60x2	700	517.24
N677/N678	O-60x2	700	517.24
N678/N679	O-60x2	700	517.24
N679/N680	O-60x2	700	517.24
N680/N681	O-60x2	697	517.24
N681/N682	O-60x2	694	517.24
N682/N683	O-60x2	693	517.24
N683/N684	O-60x2	693	517.24
N684/N685	O-60x2	694	517.24
N685/N686	O-60x2	697	517.24
N686/N687	O-60x2	700	517.24
N687/N688	O-60x2	700	517.24
N688/N689	O-60x2	700	517.24
N689/N690	O-60x2	700	517.24
N690/N691	O-60x2	700	517.24
N691/N692	O-60x2	700	517.24
N692/N693	O-60x2	700	517.24
N693/N694	O-60x2	700	517.24
N695/N696	O-60x2	700	517.24
N696/N697	O-60x2	700	517.24
N697/N698	O-60x2	700	517.24
N698/N699	O-60x2	700	517.24
N699/N700	O-60x2	700	517.24
N700/N701	O-60x2	700	517.24
N701/N702	O-60x2	700	517.24
N702/N703	O-60x2	700	517.24
N703/N704	O-60x2	698	517.24
N704/N705	O-60x2	696	517.24
N705/N706	O-60x2	694	517.24
N706/N707	O-60x2	694	517.24
N707/N708	O-60x2	696	517.24
N708/N709	O-60x2	698	517.24
N709/N710	O-60x2	700	517.24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N710/N711	O-60x2	700	517.24
N711/N712	O-60x2	700	517.24
N712/N713	O-60x2	700	517.24
N713/N714	O-60x2	700	517.24
N714/N715	O-60x2	700	517.24
N715/N716	O-60x2	700	517.24
N716/N717	O-60x2	700	517.24
N718/N719	O-60x2	700	517.24
N719/N720	O-60x2	700	517.24
N720/N721	O-60x2	700	517.24
N721/N722	O-60x2	700	517.24
N722/N723	O-60x2	700	517.24
N723/N724	O-60x2	700	517.24
N724/N725	O-60x2	700	517.24
N725/N726	O-60x2	694	517.24
N726/N727	O-60x2	689	517.24
N727/N728	O-60x2	687	517.24
N728/N729	O-60x2	686	517.24
N729/N730	O-60x2	686	517.24
N730/N731	O-60x2	687	517.24
N731/N732	O-60x2	689	517.24
N732/N733	O-60x2	693	517.24
N733/N734	O-60x2	700	517.24
N734/N735	O-60x2	700	517.24
N735/N736	O-60x2	700	517.24
N736/N737	O-60x2	700	517.24
N737/N738	O-60x2	700	517.24
N738/N739	O-60x2	700	517.24
N739/N740	O-60x2	700	517.24
N741/N742	O-60x2	700	517.24
N742/N743	O-60x2	700	517.24
N743/N744	O-60x2	700	517.24
N744/N745	O-60x2	700	517.24
N745/N746	O-60x2	700	517.24
N746/N747	O-60x2	700	517.24
N747/N748	O-60x2	699	517.24
N748/N749	O-60x2	693	517.24
N749/N750	O-60x2	688	517.24
N750/N751	O-60x2	686	517.24
N751/N752	O-60x2	685	517.24
N752/N753	O-60x2	685	517.24
N753/N754	O-60x2	686	517.24
N754/N755	O-60x2	688	517.24
N755/N756	O-60x2	692	517.24
N756/N757	O-60x2	698	517.24
N757/N758	O-60x2	700	517.24
N758/N759	O-60x2	700	517.24
N759/N760	O-60x2	700	517.24
N760/N761	O-60x2	700	517.24
N761/N762	O-60x2	700	517.24
N762/N763	O-60x2	700	517.24
N764/N765	O-60x2	700	517.24
N765/N766	O-60x2	700	517.24
N766/N767	O-60x2	700	517.24
N767/N768	O-60x2	700	517.24
N768/N769	O-60x2	700	517.24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N769/N770	O-60x2	700	517.24
N770/N771	O-60x2	700	517.24
N771/N772	O-60x2	700	517.24
N772/N773	O-60x2	700	517.24
N773/N774	O-60x2	700	517.24
N774/N775	O-60x2	700	517.24
N775/N776	O-60x2	700	517.24
N776/N777	O-60x2	700	517.24
N777/N778	O-60x2	700	517.24
N778/N779	O-60x2	700	517.24
N779/N780	O-60x2	700	517.24
N780/N781	O-60x2	700	517.24
N781/N782	O-60x2	700	517.24
N782/N783	O-60x2	700	517.24
N783/N784	O-60x2	700	517.24
N784/N785	O-60x2	700	517.24
N785/N786	O-60x2	700	517.24
N787/N788	O-60x2	700	517.24
N788/N789	O-60x2	700	517.24
N789/N790	O-60x2	700	517.24
N790/N791	O-60x2	700	517.24
N791/N792	O-60x2	700	517.24
N792/N793	O-60x2	700	517.24
N793/N794	O-60x2	700	517.24
N794/N795	O-60x2	700	517.24
N795/N796	O-60x2	700	517.24
N796/N797	O-60x2	700	517.24
N797/N798	O-60x2	700	517.24
N798/N799	O-60x2	700	517.24
N799/N800	O-60x2	700	517.24
N800/N801	O-60x2	700	517.24
N801/N802	O-60x2	700	517.24
N802/N803	O-60x2	700	517.24
N803/N804	O-60x2	700	517.24
N804/N805	O-60x2	700	517.24
N805/N806	O-60x2	700	517.24
N806/N807	O-60x2	700	517.24
N807/N808	O-60x2	700	517.24
N808/N809	O-60x2	700	517.24
N810/N811	O-60x2	700	517.24
N811/N812	O-60x2	700	517.24
N812/N813	O-60x2	700	517.24
N813/N814	O-60x2	700	517.24
N814/N815	O-60x2	700	517.24
N815/N816	O-60x2	700	517.24
N816/N817	O-60x2	700	517.24
N817/N818	O-60x2	700	517.24
N818/N819	O-60x2	700	517.24
N819/N820	O-60x2	700	517.24
N820/N821	O-60x2	700	517.24
N821/N822	O-60x2	700	517.24
N822/N823	O-60x2	700	517.24
N823/N824	O-60x2	700	517.24
N824/N825	O-60x2	700	517.24
N825/N826	O-60x2	700	517.24
N826/N827	O-60x2	700	517.24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N827/N828	O-60x2	700	517.24
N828/N829	O-60x2	700	517.24
N829/N830	O-60x2	700	517.24
N830/N831	O-60x2	700	517.24
N831/N832	O-60x2	700	517.24
N833/N834	O-60x2	700	517.24
N834/N835	O-60x2	700	517.24
N835/N836	O-60x2	700	517.24
N836/N837	O-60x2	700	517.24
N837/N838	O-60x2	700	517.24
N838/N839	O-60x2	700	517.24
N839/N840	O-60x2	700	517.24
N840/N841	O-60x2	700	517.24
N841/N842	O-60x2	700	517.24
N842/N843	O-60x2	700	517.24
N843/N844	O-60x2	700	517.24
N844/N845	O-60x2	700	517.24
N845/N846	O-60x2	700	517.24
N846/N847	O-60x2	700	517.24
N847/N848	O-60x2	700	517.24
N848/N849	O-60x2	700	517.24
N849/N850	O-60x2	700	517.24
N850/N851	O-60x2	700	517.24
N851/N852	O-60x2	700	517.24
N852/N853	O-60x2	700	517.24
N853/N854	O-60x2	700	517.24
N854/N855	O-60x2	700	517.24
N50/N72	O-60x2	700	517.24
N72/N95	O-60x2	700	517.24
N95/N118	O-60x2	700	517.24
N118/N141	O-60x2	700	517.24
N141/N164	O-60x2	700	517.24
N164/N187	O-60x2	700	517.24
N187/N210	O-60x2	700	517.24
N210/N233	O-60x2	700	517.24
N233/N256	O-60x2	700	517.24
N256/N279	O-60x2	700	517.24
N279/N302	O-60x2	700	517.24
N302/N325	O-60x2	700	517.24
N325/N348	O-60x2	700	517.24
N348/N371	O-60x2	700	517.24
N371/N394	O-60x2	700	517.24
N394/N417	O-60x2	700	517.24
N417/N440	O-60x2	700	517.24
N440/N463	O-60x2	700	517.24
N463/N486	O-60x2	700	517.24
N486/N509	O-60x2	700	517.24
N509/N532	O-60x2	700	517.24
N532/N555	O-60x2	700	517.24
N555/N578	O-60x2	700	517.24
N578/N601	O-60x2	700	517.24
N601/N624	O-60x2	700	517.24
N624/N647	O-60x2	700	517.24
N647/N670	O-60x2	700	517.24
N670/N693	O-60x2	700	517.24
N693/N716	O-60x2	700	517.24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N716/N739	O-60x2	700	517.24
N739/N762	O-60x2	700	517.24
N762/N785	O-60x2	700	517.24
N785/N808	O-60x2	700	517.24
N808/N831	O-60x2	700	517.24
N831/N854	O-60x2	700	517.24
N854/N876	O-60x2	700	517.24
N49/N71	O-60x2	700	517.24
N71/N94	O-60x2	700	517.24
N94/N117	O-60x2	700	517.24
N117/N140	O-60x2	700	517.24
N140/N163	O-60x2	700	517.24
N163/N186	O-60x2	700	517.24
N186/N209	O-60x2	700	517.24
N209/N232	O-60x2	700	517.24
N232/N255	O-60x2	700	517.24
N255/N278	O-60x2	700	517.24
N278/N301	O-60x2	700	517.24
N301/N324	O-60x2	700	517.24
N324/N347	O-60x2	700	517.24
N347/N370	O-60x2	700	517.24
N370/N393	O-60x2	700	517.24
N393/N416	O-60x2	700	517.24
N416/N439	O-60x2	700	517.24
N439/N462	O-60x2	700	517.24
N462/N485	O-60x2	700	517.24
N485/N508	O-60x2	700	517.24
N508/N531	O-60x2	700	517.24
N531/N554	O-60x2	700	517.24
N554/N577	O-60x2	700	517.24
N577/N600	O-60x2	700	517.24
N600/N623	O-60x2	700	517.24
N623/N646	O-60x2	700	517.24
N646/N669	O-60x2	700	517.24
N669/N692	O-60x2	700	517.24
N692/N715	O-60x2	700	517.24
N715/N738	O-60x2	700	517.24
N738/N761	O-60x2	700	517.24
N761/N784	O-60x2	700	517.24
N784/N807	O-60x2	700	517.24
N807/N830	O-60x2	700	517.24
N830/N853	O-60x2	700	517.24
N853/N875	O-60x2	700	517.24
N48/N70	O-60x2	700	517.24
N70/N93	O-60x2	700	517.24
N93/N116	O-60x2	700	517.24
N116/N139	O-60x2	700	517.24
N139/N162	O-60x2	700	517.24
N162/N185	O-60x2	700	517.24
N185/N208	O-60x2	700	517.24
N208/N231	O-60x2	700	517.24
N231/N254	O-60x2	700	517.24
N254/N277	O-60x2	700	517.24
N277/N300	O-60x2	700	517.24
N300/N323	O-60x2	700	517.24
N323/N346	O-60x2	700	517.24

Listados
Coberta de 46'8x28'6 malla tetràedres
Fecha: 20/12/24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N346/N369	O-60x2	700	517.24
N369/N392	O-60x2	700	517.24
N392/N415	O-60x2	700	517.24
N415/N438	O-60x2	700	517.24
N438/N461	O-60x2	700	517.24
N461/N484	O-60x2	700	517.24
N484/N507	O-60x2	700	517.24
N507/N530	O-60x2	700	517.24
N530/N553	O-60x2	700	517.24
N553/N576	O-60x2	700	517.24
N576/N599	O-60x2	700	517.24
N599/N622	O-60x2	700	517.24
N622/N645	O-60x2	700	517.24
N645/N668	O-60x2	700	517.24
N668/N691	O-60x2	700	517.24
N691/N714	O-60x2	700	517.24
N714/N737	O-60x2	700	517.24
N737/N760	O-60x2	700	517.24
N760/N783	O-60x2	700	517.24
N783/N806	O-60x2	700	517.24
N806/N829	O-60x2	700	517.24
N829/N852	O-60x2	700	517.24
N852/N874	O-60x2	700	517.24
N47/N69	O-60x2	700	517.24
N69/N92	O-60x2	700	517.24
N92/N115	O-60x2	700	517.24
N115/N138	O-60x2	700	517.24
N138/N161	O-60x2	700	517.24
N161/N184	O-60x2	700	517.24
N184/N207	O-60x2	700	517.24
N207/N230	O-60x2	700	517.24
N230/N253	O-60x2	700	517.24
N253/N276	O-60x2	700	517.24
N276/N299	O-60x2	700	517.24
N299/N322	O-60x2	700	517.24
N322/N345	O-60x2	700	517.24
N345/N368	O-60x2	700	517.24
N368/N391	O-60x2	700	517.24
N391/N414	O-60x2	700	517.24
N414/N437	O-60x2	700	517.24
N437/N460	O-60x2	700	517.24
N460/N483	O-60x2	700	517.24
N483/N506	O-60x2	700	517.24
N506/N529	O-60x2	700	517.24
N529/N552	O-60x2	700	517.24
N552/N575	O-60x2	700	517.24
N575/N598	O-60x2	700	517.24
N598/N621	O-60x2	700	517.24
N621/N644	O-60x2	700	517.24
N644/N667	O-60x2	700	517.24
N667/N690	O-60x2	700	517.24
N690/N713	O-60x2	700	517.24
N713/N736	O-60x2	700	517.24
N736/N759	O-60x2	700	517.24
N759/N782	O-60x2	700	517.24
N782/N805	O-60x2	700	517.24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N805/N828	O-60x2	700	517.24
N828/N851	O-60x2	700	517.24
N851/N873	O-60x2	700	517.24
N46/N68	O-60x2	700	517.24
N68/N91	O-60x2	700	517.24
N91/N114	O-60x2	700	517.24
N114/N137	O-60x2	700	517.24
N137/N160	O-60x2	700	517.24
N160/N183	O-60x2	700	517.24
N183/N206	O-60x2	700	517.24
N206/N229	O-60x2	700	517.24
N229/N252	O-60x2	700	517.24
N252/N275	O-60x2	700	517.24
N275/N298	O-60x2	700	517.24
N298/N321	O-60x2	700	517.24
N321/N344	O-60x2	700	517.24
N344/N367	O-60x2	700	517.24
N367/N390	O-60x2	700	517.24
N390/N413	O-60x2	700	517.24
N413/N436	O-60x2	700	517.24
N436/N459	O-60x2	700	517.24
N459/N482	O-60x2	700	517.24
N482/N505	O-60x2	700	517.24
N505/N528	O-60x2	700	517.24
N528/N551	O-60x2	700	517.24
N551/N574	O-60x2	700	517.24
N574/N597	O-60x2	700	517.24
N597/N620	O-60x2	700	517.24
N620/N643	O-60x2	700	517.24
N643/N666	O-60x2	700	517.24
N666/N689	O-60x2	700	517.24
N689/N712	O-60x2	700	517.24
N712/N735	O-60x2	700	517.24
N735/N758	O-60x2	700	517.24
N758/N781	O-60x2	700	517.24
N781/N804	O-60x2	700	517.24
N804/N827	O-60x2	700	517.24
N827/N850	O-60x2	700	517.24
N850/N872	O-60x2	700	517.24
N45/N67	O-60x2	700	517.24
N67/N90	O-60x2	700	517.24
N90/N113	O-60x2	700	517.24
N113/N136	O-60x2	700	517.24
N136/N159	O-60x2	700	517.24
N159/N182	O-60x2	700	517.24
N182/N205	O-60x2	700	517.24
N205/N228	O-60x2	700	517.24
N228/N251	O-60x2	700	517.24
N251/N274	O-60x2	700	517.24
N274/N297	O-60x2	700	517.24
N297/N320	O-60x2	700	517.24
N320/N343	O-60x2	700	517.24
N343/N366	O-60x2	700	517.24
N366/N389	O-60x2	700	517.24
N389/N412	O-60x2	700	517.24
N412/N435	O-60x2	700	517.24

Listados
Coberta de 46'8x28'6 malla tetràedres
Fecha: 20/12/24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N435/N458	O-60x2	700	517.24
N458/N481	O-60x2	700	517.24
N481/N504	O-60x2	700	517.24
N504/N527	O-60x2	700	517.24
N527/N550	O-60x2	700	517.24
N550/N573	O-60x2	700	517.24
N573/N596	O-60x2	700	517.24
N596/N619	O-60x2	700	517.24
N619/N642	O-60x2	700	517.24
N642/N665	O-60x2	700	517.24
N665/N688	O-60x2	700	517.24
N688/N711	O-60x2	700	517.24
N711/N734	O-60x2	700	517.24
N734/N757	O-60x2	700	517.24
N757/N780	O-60x2	700	517.24
N780/N803	O-60x2	700	517.24
N803/N826	O-60x2	700	517.24
N826/N849	O-60x2	700	517.24
N849/N871	O-60x2	700	517.24
N44/N66	O-60x2	700	517.24
N66/N89	O-60x2	700	517.24
N89/N112	O-60x2	700	517.24
N112/N135	O-60x2	700	517.24
N135/N158	O-60x2	700	517.24
N158/N181	O-60x2	700	517.24
N181/N204	O-60x2	700	517.24
N204/N227	O-60x2	700	517.24
N227/N250	O-60x2	700	517.24
N250/N273	O-60x2	700	517.24
N273/N296	O-60x2	700	517.24
N296/N319	O-60x2	700	517.24
N319/N342	O-60x2	700	517.24
N342/N365	O-60x2	700	517.24
N365/N388	O-60x2	700	517.24
N388/N411	O-60x2	700	517.24
N411/N434	O-60x2	700	517.24
N434/N457	O-60x2	700	517.24
N457/N480	O-60x2	700	517.24
N480/N503	O-60x2	700	517.24
N503/N526	O-60x2	700	517.24
N526/N549	O-60x2	700	517.24
N549/N572	O-60x2	700	517.24
N572/N595	O-60x2	700	517.24
N595/N618	O-60x2	700	517.24
N618/N641	O-60x2	700	517.24
N641/N664	O-60x2	700	517.24
N664/N687	O-60x2	700	517.24
N687/N710	O-60x2	700	517.24
N710/N733	O-60x2	700	517.24
N733/N756	O-60x2	700	517.24
N756/N779	O-60x2	700	517.24
N779/N802	O-60x2	700	517.24
N802/N825	O-60x2	700	517.24
N825/N848	O-60x2	700	517.24
N848/N870	O-60x2	700	517.24
N43/N65	O-60x2	700	517.24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N65/N88	O-60x2	700	517.24
N88/N111	O-60x2	700	517.24
N111/N134	O-60x2	700	517.24
N134/N157	O-60x2	700	517.24
N157/N180	O-60x2	700	517.24
N180/N203	O-60x2	700	517.24
N203/N226	O-60x2	700	517.24
N226/N249	O-60x2	700	517.24
N249/N272	O-60x2	700	517.24
N272/N295	O-60x2	700	517.24
N295/N318	O-60x2	700	517.24
N318/N341	O-60x2	700	517.24
N341/N364	O-60x2	700	517.24
N364/N387	O-60x2	700	517.24
N387/N410	O-60x2	700	517.24
N410/N433	O-60x2	700	517.24
N433/N456	O-60x2	700	517.24
N456/N479	O-60x2	700	517.24
N479/N502	O-60x2	700	517.24
N502/N525	O-60x2	700	517.24
N525/N548	O-60x2	700	517.24
N548/N571	O-60x2	700	517.24
N571/N594	O-60x2	700	517.24
N594/N617	O-60x2	700	517.24
N617/N640	O-60x2	700	517.24
N640/N663	O-60x2	700	517.24
N663/N686	O-60x2	700	517.24
N686/N709	O-60x2	700	517.24
N709/N732	O-60x2	700	517.24
N732/N755	O-60x2	700	517.24
N755/N778	O-60x2	700	517.24
N778/N801	O-60x2	700	517.24
N801/N824	O-60x2	700	517.24
N824/N847	O-60x2	700	517.24
N847/N869	O-60x2	700	517.24
N42/N64	O-60x2	700	517.24
N64/N87	O-60x2	700	517.24
N87/N110	O-60x2	700	517.24
N110/N133	O-60x2	700	517.24
N133/N156	O-60x2	700	517.24
N156/N179	O-60x2	700	517.24
N179/N202	O-60x2	700	517.24
N202/N225	O-60x2	700	517.24
N225/N248	O-60x2	700	517.24
N248/N271	O-60x2	700	517.24
N271/N294	O-60x2	700	517.24
N294/N317	O-60x2	700	517.24
N317/N340	O-60x2	700	517.24
N340/N363	O-60x2	700	517.24
N363/N386	O-60x2	700	517.24
N386/N409	O-60x2	700	517.24
N409/N432	O-60x2	700	517.24
N432/N455	O-60x2	700	517.24
N455/N478	O-60x2	700	517.24
N478/N501	O-60x2	700	517.24
N501/N524	O-60x2	700	517.24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N524/N547	O-60x2	700	517.24
N547/N570	O-60x2	700	517.24
N570/N593	O-60x2	700	517.24
N593/N616	O-60x2	700	517.24
N616/N639	O-60x2	700	517.24
N639/N662	O-60x2	700	517.24
N662/N685	O-60x2	700	517.24
N685/N708	O-60x2	700	517.24
N708/N731	O-60x2	700	517.24
N731/N754	O-60x2	700	517.24
N754/N777	O-60x2	700	517.24
N777/N800	O-60x2	700	517.24
N800/N823	O-60x2	700	517.24
N823/N846	O-60x2	700	517.24
N846/N868	O-60x2	700	517.24
N41/N63	O-60x2	700	517.24
N63/N86	O-60x2	700	517.24
N86/N109	O-60x2	700	517.24
N109/N132	O-60x2	700	517.24
N132/N155	O-60x2	700	517.24
N155/N178	O-60x2	700	517.24
N178/N201	O-60x2	700	517.24
N201/N224	O-60x2	700	517.24
N224/N247	O-60x2	700	517.24
N247/N270	O-60x2	700	517.24
N270/N293	O-60x2	700	517.24
N293/N316	O-60x2	700	517.24
N316/N339	O-60x2	700	517.24
N339/N362	O-60x2	700	517.24
N362/N385	O-60x2	700	517.24
N385/N408	O-60x2	700	517.24
N408/N431	O-60x2	700	517.24
N431/N454	O-60x2	700	517.24
N454/N477	O-60x2	700	517.24
N477/N500	O-60x2	700	517.24
N500/N523	O-60x2	700	517.24
N523/N546	O-60x2	700	517.24
N546/N569	O-60x2	700	517.24
N569/N592	O-60x2	700	517.24
N592/N615	O-60x2	700	517.24
N615/N638	O-60x2	700	517.24
N638/N661	O-60x2	700	517.24
N661/N684	O-60x2	700	517.24
N684/N707	O-60x2	700	517.24
N707/N730	O-60x2	700	517.24
N730/N753	O-60x2	700	517.24
N753/N776	O-60x2	700	517.24
N776/N799	O-60x2	700	517.24
N799/N822	O-60x2	700	517.24
N822/N845	O-60x2	700	517.24
N845/N867	O-60x2	700	517.24
N40/N62	O-60x2	700	517.24
N62/N85	O-60x2	700	517.24
N85/N108	O-60x2	700	517.24
N108/N131	O-60x2	700	517.24
N131/N154	O-60x2	700	517.24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N154/N177	O-60x2	700	517.24
N177/N200	O-60x2	700	517.24
N200/N223	O-60x2	700	517.24
N223/N246	O-60x2	700	517.24
N246/N269	O-60x2	700	517.24
N269/N292	O-60x2	700	517.24
N292/N315	O-60x2	700	517.24
N315/N338	O-60x2	700	517.24
N338/N361	O-60x2	700	517.24
N361/N384	O-60x2	700	517.24
N384/N407	O-60x2	700	517.24
N407/N430	O-60x2	700	517.24
N430/N453	O-60x2	700	517.24
N453/N476	O-60x2	700	517.24
N476/N499	O-60x2	700	517.24
N499/N522	O-60x2	700	517.24
N522/N545	O-60x2	700	517.24
N545/N568	O-60x2	700	517.24
N568/N591	O-60x2	700	517.24
N591/N614	O-60x2	700	517.24
N614/N637	O-60x2	700	517.24
N637/N660	O-60x2	700	517.24
N660/N683	O-60x2	700	517.24
N683/N706	O-60x2	700	517.24
N706/N729	O-60x2	700	517.24
N729/N752	O-60x2	700	517.24
N752/N775	O-60x2	700	517.24
N775/N798	O-60x2	700	517.24
N798/N821	O-60x2	700	517.24
N821/N844	O-60x2	700	517.24
N844/N866	O-60x2	700	517.24
N39/N61	O-60x2	700	517.24
N61/N84	O-60x2	700	517.24
N84/N107	O-60x2	700	517.24
N107/N130	O-60x2	700	517.24
N130/N153	O-60x2	700	517.24
N153/N176	O-60x2	700	517.24
N176/N199	O-60x2	700	517.24
N199/N222	O-60x2	700	517.24
N222/N245	O-60x2	700	517.24
N245/N268	O-60x2	700	517.24
N268/N291	O-60x2	700	517.24
N291/N314	O-60x2	700	517.24
N314/N337	O-60x2	700	517.24
N337/N360	O-60x2	700	517.24
N360/N383	O-60x2	700	517.24
N383/N406	O-60x2	700	517.24
N406/N429	O-60x2	700	517.24
N429/N452	O-60x2	700	517.24
N452/N475	O-60x2	700	517.24
N475/N498	O-60x2	700	517.24
N498/N521	O-60x2	700	517.24
N521/N544	O-60x2	700	517.24
N544/N567	O-60x2	700	517.24
N567/N590	O-60x2	700	517.24
N590/N613	O-60x2	700	517.24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N613/N636	O-60x2	700	517.24
N636/N659	O-60x2	700	517.24
N659/N682	O-60x2	700	517.24
N682/N705	O-60x2	700	517.24
N705/N728	O-60x2	700	517.24
N728/N751	O-60x2	700	517.24
N751/N774	O-60x2	700	517.24
N774/N797	O-60x2	700	517.24
N797/N820	O-60x2	700	517.24
N820/N843	O-60x2	700	517.24
N843/N865	O-60x2	700	517.24
N38/N60	O-60x2	700	517.24
N60/N83	O-60x2	700	517.24
N83/N106	O-60x2	700	517.24
N106/N129	O-60x2	700	517.24
N129/N152	O-60x2	700	517.24
N152/N175	O-60x2	700	517.24
N175/N198	O-60x2	700	517.24
N198/N221	O-60x2	700	517.24
N221/N244	O-60x2	700	517.24
N244/N267	O-60x2	700	517.24
N267/N290	O-60x2	700	517.24
N290/N313	O-60x2	700	517.24
N313/N336	O-60x2	700	517.24
N336/N359	O-60x2	700	517.24
N359/N382	O-60x2	700	517.24
N382/N405	O-60x2	700	517.24
N405/N428	O-60x2	700	517.24
N428/N451	O-60x2	700	517.24
N451/N474	O-60x2	700	517.24
N474/N497	O-60x2	700	517.24
N497/N520	O-60x2	700	517.24
N520/N543	O-60x2	700	517.24
N543/N566	O-60x2	700	517.24
N566/N589	O-60x2	700	517.24
N589/N612	O-60x2	700	517.24
N612/N635	O-60x2	700	517.24
N635/N658	O-60x2	700	517.24
N658/N681	O-60x2	700	517.24
N681/N704	O-60x2	700	517.24
N704/N727	O-60x2	700	517.24
N727/N750	O-60x2	700	517.24
N750/N773	O-60x2	700	517.24
N773/N796	O-60x2	700	517.24
N796/N819	O-60x2	700	517.24
N819/N842	O-60x2	700	517.24
N842/N864	O-60x2	700	517.24
N37/N59	O-60x2	700	517.24
N59/N82	O-60x2	700	517.24
N82/N105	O-60x2	700	517.24
N105/N128	O-60x2	700	517.24
N128/N151	O-60x2	700	517.24
N151/N174	O-60x2	700	517.24
N174/N197	O-60x2	700	517.24
N197/N220	O-60x2	700	517.24
N220/N243	O-60x2	700	517.24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N243/N266	O-60x2	700	517.24
N266/N289	O-60x2	700	517.24
N289/N312	O-60x2	700	517.24
N312/N335	O-60x2	700	517.24
N335/N358	O-60x2	700	517.24
N358/N381	O-60x2	700	517.24
N381/N404	O-60x2	700	517.24
N404/N427	O-60x2	700	517.24
N427/N450	O-60x2	700	517.24
N450/N473	O-60x2	700	517.24
N473/N496	O-60x2	700	517.24
N496/N519	O-60x2	700	517.24
N519/N542	O-60x2	700	517.24
N542/N565	O-60x2	700	517.24
N565/N588	O-60x2	700	517.24
N588/N611	O-60x2	700	517.24
N611/N634	O-60x2	700	517.24
N634/N657	O-60x2	700	517.24
N657/N680	O-60x2	700	517.24
N680/N703	O-60x2	700	517.24
N703/N726	O-60x2	700	517.24
N726/N749	O-60x2	700	517.24
N749/N772	O-60x2	700	517.24
N772/N795	O-60x2	700	517.24
N795/N818	O-60x2	700	517.24
N818/N841	O-60x2	700	517.24
N841/N863	O-60x2	700	517.24
N36/N58	O-60x2	700	517.24
N58/N81	O-60x2	700	517.24
N81/N104	O-60x2	700	517.24
N104/N127	O-60x2	700	517.24
N127/N150	O-60x2	700	517.24
N150/N173	O-60x2	700	517.24
N173/N196	O-60x2	700	517.24
N196/N219	O-60x2	700	517.24
N219/N242	O-60x2	700	517.24
N242/N265	O-60x2	700	517.24
N265/N288	O-60x2	700	517.24
N288/N311	O-60x2	700	517.24
N311/N334	O-60x2	700	517.24
N334/N357	O-60x2	700	517.24
N357/N380	O-60x2	700	517.24
N380/N403	O-60x2	700	517.24
N403/N426	O-60x2	700	517.24
N426/N449	O-60x2	700	517.24
N449/N472	O-60x2	700	517.24
N472/N495	O-60x2	700	517.24
N495/N518	O-60x2	700	517.24
N518/N541	O-60x2	700	517.24
N541/N564	O-60x2	700	517.24
N564/N587	O-60x2	700	517.24
N587/N610	O-60x2	700	517.24
N610/N633	O-60x2	700	517.24
N633/N656	O-60x2	700	517.24
N656/N679	O-60x2	700	517.24
N679/N702	O-60x2	700	517.24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N702/N725	O-60x2	700	517.24
N725/N748	O-60x2	700	517.24
N748/N771	O-60x2	700	517.24
N771/N794	O-60x2	700	517.24
N794/N817	O-60x2	700	517.24
N817/N840	O-60x2	700	517.24
N840/N862	O-60x2	700	517.24
N35/N57	O-60x2	700	517.24
N57/N80	O-60x2	700	517.24
N80/N103	O-60x2	700	517.24
N103/N126	O-60x2	700	517.24
N126/N149	O-60x2	700	517.24
N149/N172	O-60x2	700	517.24
N172/N195	O-60x2	700	517.24
N195/N218	O-60x2	700	517.24
N218/N241	O-60x2	700	517.24
N241/N264	O-60x2	700	517.24
N264/N287	O-60x2	700	517.24
N287/N310	O-60x2	700	517.24
N310/N333	O-60x2	700	517.24
N333/N356	O-60x2	700	517.24
N356/N379	O-60x2	700	517.24
N379/N402	O-60x2	700	517.24
N402/N425	O-60x2	700	517.24
N425/N448	O-60x2	700	517.24
N448/N471	O-60x2	700	517.24
N471/N494	O-60x2	700	517.24
N494/N517	O-60x2	700	517.24
N517/N540	O-60x2	700	517.24
N540/N563	O-60x2	700	517.24
N563/N586	O-60x2	700	517.24
N586/N609	O-60x2	700	517.24
N609/N632	O-60x2	700	517.24
N632/N655	O-60x2	700	517.24
N655/N678	O-60x2	700	517.24
N678/N701	O-60x2	700	517.24
N701/N724	O-60x2	700	517.24
N724/N747	O-60x2	700	517.24
N747/N770	O-60x2	700	517.24
N770/N793	O-60x2	700	517.24
N793/N816	O-60x2	700	517.24
N816/N839	O-60x2	700	517.24
N839/N861	O-60x2	700	517.24
N34/N56	O-60x2	700	517.24
N56/N79	O-60x2	700	517.24
N79/N102	O-60x2	700	517.24
N102/N125	O-60x2	700	517.24
N125/N148	O-60x2	700	517.24
N148/N171	O-60x2	700	517.24
N171/N194	O-60x2	700	517.24
N194/N217	O-60x2	700	517.24
N217/N240	O-60x2	700	517.24
N240/N263	O-60x2	700	517.24
N263/N286	O-60x2	700	517.24
N286/N309	O-60x2	700	517.24
N309/N332	O-60x2	700	517.24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N332/N355	O-60x2	700	517.24
N355/N378	O-60x2	700	517.24
N378/N401	O-60x2	700	517.24
N401/N424	O-60x2	700	517.24
N424/N447	O-60x2	700	517.24
N447/N470	O-60x2	700	517.24
N470/N493	O-60x2	700	517.24
N493/N516	O-60x2	700	517.24
N516/N539	O-60x2	700	517.24
N539/N562	O-60x2	700	517.24
N562/N585	O-60x2	700	517.24
N585/N608	O-60x2	700	517.24
N608/N631	O-60x2	700	517.24
N631/N654	O-60x2	700	517.24
N654/N677	O-60x2	700	517.24
N677/N700	O-60x2	700	517.24
N700/N723	O-60x2	700	517.24
N723/N746	O-60x2	700	517.24
N746/N769	O-60x2	700	517.24
N769/N792	O-60x2	700	517.24
N792/N815	O-60x2	700	517.24
N815/N838	O-60x2	700	517.24
N838/N860	O-60x2	700	517.24
N33/N55	O-60x2	700	517.24
N55/N78	O-60x2	700	517.24
N78/N101	O-60x2	700	517.24
N101/N124	O-60x2	700	517.24
N124/N147	O-60x2	700	517.24
N147/N170	O-60x2	700	517.24
N170/N193	O-60x2	700	517.24
N193/N216	O-60x2	700	517.24
N216/N239	O-60x2	700	517.24
N239/N262	O-60x2	700	517.24
N262/N285	O-60x2	700	517.24
N285/N308	O-60x2	700	517.24
N308/N331	O-60x2	700	517.24
N331/N354	O-60x2	700	517.24
N354/N377	O-60x2	700	517.24
N377/N400	O-60x2	700	517.24
N400/N423	O-60x2	700	517.24
N423/N446	O-60x2	700	517.24
N446/N469	O-60x2	700	517.24
N469/N492	O-60x2	700	517.24
N492/N515	O-60x2	700	517.24
N515/N538	O-60x2	700	517.24
N538/N561	O-60x2	700	517.24
N561/N584	O-60x2	700	517.24
N584/N607	O-60x2	700	517.24
N607/N630	O-60x2	700	517.24
N630/N653	O-60x2	700	517.24
N653/N676	O-60x2	700	517.24
N676/N699	O-60x2	700	517.24
N699/N722	O-60x2	700	517.24
N722/N745	O-60x2	700	517.24
N745/N768	O-60x2	700	517.24
N768/N791	O-60x2	700	517.24

Listados
Coberta de 46'8x28'6 malla tetràedres
Fecha: 20/12/24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N791/N814	O-60x2	700	517.24
N814/N837	O-60x2	700	517.24
N837/N859	O-60x2	700	517.24
N32/N54	O-60x2	700	517.24
N54/N77	O-60x2	700	517.24
N77/N100	O-60x2	700	517.24
N100/N123	O-60x2	700	517.24
N123/N146	O-60x2	700	517.24
N146/N169	O-60x2	700	517.24
N169/N192	O-60x2	700	517.24
N192/N215	O-60x2	700	517.24
N215/N238	O-60x2	700	517.24
N238/N261	O-60x2	700	517.24
N261/N284	O-60x2	700	517.24
N284/N307	O-60x2	700	517.24
N307/N330	O-60x2	700	517.24
N330/N353	O-60x2	700	517.24
N353/N376	O-60x2	700	517.24
N376/N399	O-60x2	700	517.24
N399/N422	O-60x2	700	517.24
N422/N445	O-60x2	700	517.24
N445/N468	O-60x2	700	517.24
N468/N491	O-60x2	700	517.24
N491/N514	O-60x2	700	517.24
N514/N537	O-60x2	700	517.24
N537/N560	O-60x2	700	517.24
N560/N583	O-60x2	700	517.24
N583/N606	O-60x2	700	517.24
N606/N629	O-60x2	700	517.24
N629/N652	O-60x2	700	517.24
N652/N675	O-60x2	700	517.24
N675/N698	O-60x2	700	517.24
N698/N721	O-60x2	700	517.24
N721/N744	O-60x2	700	517.24
N744/N767	O-60x2	700	517.24
N767/N790	O-60x2	700	517.24
N790/N813	O-60x2	700	517.24
N813/N836	O-60x2	700	517.24
N836/N858	O-60x2	700	517.24
N31/N53	O-60x2	700	517.24
N53/N76	O-60x2	700	517.24
N76/N99	O-60x2	700	517.24
N99/N122	O-60x2	700	517.24
N122/N145	O-60x2	700	517.24
N145/N168	O-60x2	700	517.24
N168/N191	O-60x2	700	517.24
N191/N214	O-60x2	700	517.24
N214/N237	O-60x2	700	517.24
N237/N260	O-60x2	700	517.24
N260/N283	O-60x2	700	517.24
N283/N306	O-60x2	700	517.24
N306/N329	O-60x2	700	517.24
N329/N352	O-60x2	700	517.24
N352/N375	O-60x2	700	517.24
N375/N398	O-60x2	700	517.24
N398/N421	O-60x2	700	517.24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N421/N444	O-60x2	700	517.24
N444/N467	O-60x2	700	517.24
N467/N490	O-60x2	700	517.24
N490/N513	O-60x2	700	517.24
N513/N536	O-60x2	700	517.24
N536/N559	O-60x2	700	517.24
N559/N582	O-60x2	700	517.24
N582/N605	O-60x2	700	517.24
N605/N628	O-60x2	700	517.24
N628/N651	O-60x2	700	517.24
N651/N674	O-60x2	700	517.24
N674/N697	O-60x2	700	517.24
N697/N720	O-60x2	700	517.24
N720/N743	O-60x2	700	517.24
N743/N766	O-60x2	700	517.24
N766/N789	O-60x2	700	517.24
N789/N812	O-60x2	700	517.24
N812/N835	O-60x2	700	517.24
N835/N857	O-60x2	700	517.24
N30/N52	O-60x2	700	517.24
N52/N75	O-60x2	700	517.24
N75/N98	O-60x2	700	517.24
N98/N121	O-60x2	700	517.24
N121/N144	O-60x2	700	517.24
N144/N167	O-60x2	700	517.24
N167/N190	O-60x2	700	517.24
N190/N213	O-60x2	700	517.24
N213/N236	O-60x2	700	517.24
N236/N259	O-60x2	700	517.24
N259/N282	O-60x2	700	517.24
N282/N305	O-60x2	700	517.24
N305/N328	O-60x2	700	517.24
N328/N351	O-60x2	700	517.24
N351/N374	O-60x2	700	517.24
N374/N397	O-60x2	700	517.24
N397/N420	O-60x2	700	517.24
N420/N443	O-60x2	700	517.24
N443/N466	O-60x2	700	517.24
N466/N489	O-60x2	700	517.24
N489/N512	O-60x2	700	517.24
N512/N535	O-60x2	700	517.24
N535/N558	O-60x2	700	517.24
N558/N581	O-60x2	700	517.24
N581/N604	O-60x2	700	517.24
N604/N627	O-60x2	700	517.24
N627/N650	O-60x2	700	517.24
N650/N673	O-60x2	700	517.24
N673/N696	O-60x2	700	517.24
N696/N719	O-60x2	700	517.24
N719/N742	O-60x2	700	517.24
N742/N765	O-60x2	700	517.24
N765/N788	O-60x2	700	517.24
N788/N811	O-60x2	700	517.24
N811/N834	O-60x2	700	517.24
N834/N856	O-60x2	700	517.24
N877/N878	O-60x2	700	517.24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N878/N879	O-60x2	700	517.24
N879/N880	O-60x2	700	517.24
N880/N881	O-60x2	700	517.24
N881/N882	O-60x2	700	517.24
N882/N883	O-60x2	700	517.24
N883/N884	O-60x2	700	517.24
N884/N885	O-60x2	700	517.24
N885/N886	O-60x2	700	517.24
N886/N887	O-60x2	700	517.24
N887/N888	O-60x2	700	517.24
N888/N889	O-60x2	700	517.24
N889/N890	O-60x2	700	517.24
N890/N891	O-60x2	700	517.24
N891/N892	O-60x2	700	517.24
N892/N893	O-60x2	700	517.24
N893/N894	O-60x2	700	517.24
N894/N895	O-60x2	700	517.24
N895/N896	O-60x2	700	517.24
N896/N897	O-60x2	700	517.24
N897/N898	O-60x2	700	517.24
N899/N900	O-60x2	700	517.24
N900/N901	O-60x2	700	517.24
N901/N902	O-60x2	700	517.24
N902/N903	O-60x2	700	517.24
N903/N904	O-60x2	700	517.24
N904/N905	O-60x2	700	517.24
N905/N906	O-60x2	700	517.24
N906/N907	O-60x2	700	517.24
N907/N908	O-60x2	700	517.24
N908/N909	O-60x2	700	517.24
N909/N910	O-60x2	700	517.24
N910/N911	O-60x2	700	517.24
N911/N912	O-60x2	700	517.24
N912/N913	O-60x2	700	517.24
N913/N914	O-60x2	700	517.24
N914/N915	O-60x2	700	517.24
N915/N916	O-60x2	700	517.24
N916/N917	O-60x2	700	517.24
N917/N918	O-60x2	700	517.24
N918/N919	O-60x2	700	517.24
N919/N920	O-60x2	700	517.24
N921/N922	O-60x2	700	517.24
N922/N923	O-60x2	700	517.24
N923/N924	O-60x2	700	517.24
N924/N925	O-60x2	700	517.24
N925/N926	O-60x2	700	517.24
N926/N927	O-60x2	700	517.24
N927/N928	O-60x2	700	517.24
N928/N929	O-60x2	700	517.24
N929/N930	O-60x2	700	517.24
N930/N931	O-60x2	700	517.24
N931/N932	O-60x2	700	517.24
N932/N933	O-60x2	700	517.24
N933/N934	O-60x2	700	517.24
N934/N935	O-60x2	700	517.24
N935/N936	O-60x2	700	517.24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N936/N937	O-60x2	700	517.24
N937/N938	O-60x2	700	517.24
N938/N939	O-60x2	700	517.24
N939/N940	O-60x2	700	517.24
N940/N941	O-60x2	700	517.24
N941/N942	O-60x2	700	517.24
N943/N944	O-60x2	700	517.24
N944/N945	O-60x2	700	517.24
N945/N946	O-60x2	700	517.24
N946/N947	O-60x2	700	517.24
N947/N948	O-60x2	700	517.24
N948/N949	O-60x2	700	517.24
N949/N950	O-60x2	700	517.24
N950/N951	O-60x2	700	517.24
N951/N952	O-60x2	700	517.24
N952/N953	O-60x2	700	517.24
N953/N954	O-60x2	700	517.24
N954/N955	O-60x2	700	517.24
N955/N956	O-60x2	700	517.24
N956/N957	O-60x2	700	517.24
N957/N958	O-60x2	700	517.24
N958/N959	O-60x2	700	517.24
N959/N960	O-60x2	700	517.24
N960/N961	O-60x2	700	517.24
N961/N962	O-60x2	700	517.24
N962/N963	O-60x2	700	517.24
N963/N964	O-60x2	700	517.24
N965/N966	O-60x2	700	517.24
N966/N967	O-60x2	700	517.24
N967/N968	O-60x2	700	517.24
N968/N969	O-60x2	700	517.24
N969/N970	O-60x2	700	517.24
N970/N971	O-60x2	700	517.24
N971/N972	O-60x2	700	517.24
N972/N973	O-60x2	700	517.24
N973/N974	O-60x2	700	517.24
N974/N975	O-60x2	700	517.24
N975/N976	O-60x2	700	517.24
N976/N977	O-60x2	700	517.24
N977/N978	O-60x2	700	517.24
N978/N979	O-60x2	700	517.24
N979/N980	O-60x2	700	517.24
N980/N981	O-60x2	700	517.24
N981/N982	O-60x2	700	517.24
N982/N983	O-60x2	700	517.24
N983/N984	O-60x2	700	517.24
N984/N985	O-60x2	700	517.24
N985/N986	O-60x2	700	517.24
N987/N988	O-60x2	700	517.24
N988/N989	O-60x2	700	517.24
N989/N990	O-60x2	700	517.24
N990/N991	O-60x2	700	517.24
N991/N992	O-60x2	700	517.24
N992/N993	O-60x2	700	517.24
N993/N994	O-60x2	700	517.24
N994/N995	O-60x2	700	517.24

Listados
Coberta de 46'8x28'6 malla tetràedres
Fecha: 20/12/24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N995/N996	O-60x2	700	517.24
N996/N997	O-60x2	700	517.24
N997/N998	O-60x2	700	517.24
N998/N999	O-60x2	700	517.24
N999/N1000	O-60x2	700	517.24
N1000/N1001	O-60x2	700	517.24
N1001/N1002	O-60x2	700	517.24
N1002/N1003	O-60x2	700	517.24
N1003/N1004	O-60x2	700	517.24
N1004/N1005	O-60x2	700	517.24
N1005/N1006	O-60x2	700	517.24
N1006/N1007	O-60x2	700	517.24
N1007/N1008	O-60x2	700	517.24
N1009/N1010	O-60x2	700	517.24
N1010/N1011	O-60x2	700	517.24
N1011/N1012	O-60x2	700	517.24
N1012/N1013	O-60x2	700	517.24
N1013/N1014	O-60x2	700	517.24
N1014/N1015	O-60x2	700	517.24
N1015/N1016	O-60x2	700	517.24
N1016/N1017	O-60x2	700	517.24
N1017/N1018	O-60x2	700	517.24
N1018/N1019	O-60x2	700	517.24
N1019/N1020	O-60x2	700	517.24
N1020/N1021	O-60x2	700	517.24
N1021/N1022	O-60x2	700	517.24
N1022/N1023	O-60x2	700	517.24
N1023/N1024	O-60x2	700	517.24
N1024/N1025	O-60x2	700	517.24
N1025/N1026	O-60x2	700	517.24
N1026/N1027	O-60x2	700	517.24
N1027/N1028	O-60x2	700	517.24
N1028/N1029	O-60x2	700	517.24
N1029/N1030	O-60x2	700	517.24
N1031/N1032	O-60x2	700	517.24
N1032/N1033	O-60x2	700	517.24
N1033/N1034	O-60x2	700	517.24
N1034/N1035	O-60x2	700	517.24
N1035/N1036	O-60x2	700	517.24
N1036/N1037	O-60x2	700	517.24
N1037/N1038	O-60x2	700	517.24
N1038/N1039	O-60x2	700	517.24
N1039/N1040	O-60x2	700	517.24
N1040/N1041	O-60x2	700	517.24
N1041/N1042	O-60x2	700	517.24
N1042/N1043	O-60x2	700	517.24
N1043/N1044	O-60x2	700	517.24
N1044/N1045	O-60x2	700	517.24
N1045/N1046	O-60x2	700	517.24
N1046/N1047	O-60x2	700	517.24
N1047/N1048	O-60x2	700	517.24
N1048/N1049	O-60x2	700	517.24
N1049/N1050	O-60x2	700	517.24
N1050/N1051	O-60x2	700	517.24
N1051/N1052	O-60x2	700	517.24
N1053/N1054	O-60x2	700	517.24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1054/N1055	O-60x2	700	517.24
N1055/N1056	O-60x2	700	517.24
N1056/N1057	O-60x2	700	517.24
N1057/N1058	O-60x2	700	517.24
N1058/N1059	O-60x2	700	517.24
N1059/N1060	O-60x2	700	517.24
N1060/N1061	O-60x2	700	517.24
N1061/N1062	O-60x2	700	517.24
N1062/N1063	O-60x2	700	517.24
N1063/N1064	O-60x2	700	517.24
N1064/N1065	O-60x2	700	517.24
N1065/N1066	O-60x2	700	517.24
N1066/N1067	O-60x2	700	517.24
N1067/N1068	O-60x2	700	517.24
N1068/N1069	O-60x2	700	517.24
N1069/N1070	O-60x2	700	517.24
N1070/N1071	O-60x2	700	517.24
N1071/N1072	O-60x2	700	517.24
N1072/N1073	O-60x2	700	517.24
N1073/N1074	O-60x2	700	517.24
N1075/N1076	O-60x2	700	517.24
N1076/N1077	O-60x2	700	517.24
N1077/N1078	O-60x2	700	517.24
N1078/N1079	O-60x2	700	517.24
N1079/N1080	O-60x2	700	517.24
N1080/N1081	O-60x2	700	517.24
N1081/N1082	O-60x2	700	517.24
N1082/N1083	O-60x2	700	517.24
N1083/N1084	O-60x2	700	517.24
N1084/N1085	O-60x2	700	517.24
N1085/N1086	O-60x2	700	517.24
N1086/N1087	O-60x2	700	517.24
N1087/N1088	O-60x2	700	517.24
N1088/N1089	O-60x2	700	517.24
N1089/N1090	O-60x2	700	517.24
N1090/N1091	O-60x2	700	517.24
N1091/N1092	O-60x2	700	517.24
N1092/N1093	O-60x2	700	517.24
N1093/N1094	O-60x2	700	517.24
N1094/N1095	O-60x2	700	517.24
N1095/N1096	O-60x2	700	517.24
N1097/N1098	O-60x2	700	517.24
N1098/N1099	O-60x2	700	517.24
N1099/N1100	O-60x2	700	517.24
N1100/N1101	O-60x2	700	517.24
N1101/N1102	O-60x2	700	517.24
N1102/N1103	O-60x2	700	517.24
N1103/N1104	O-60x2	700	517.24
N1104/N1105	O-60x2	700	517.24
N1105/N1106	O-60x2	700	517.24
N1106/N1107	O-60x2	700	517.24
N1107/N1108	O-60x2	700	517.24
N1108/N1109	O-60x2	700	517.24
N1109/N1110	O-60x2	700	517.24
N1110/N1111	O-60x2	700	517.24
N1111/N1112	O-60x2	700	517.24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1112/N1113	O-60x2	700	517.24
N1113/N1114	O-60x2	700	517.24
N1114/N1115	O-60x2	700	517.24
N1115/N1116	O-60x2	700	517.24
N1116/N1117	O-60x2	700	517.24
N1117/N1118	O-60x2	700	517.24
N1119/N1120	O-60x2	700	517.24
N1120/N1121	O-60x2	700	517.24
N1121/N1122	O-60x2	700	517.24
N1122/N1123	O-60x2	700	517.24
N1123/N1124	O-60x2	700	517.24
N1124/N1125	O-60x2	700	517.24
N1125/N1126	O-60x2	700	517.24
N1126/N1127	O-60x2	700	517.24
N1127/N1128	O-60x2	700	517.24
N1128/N1129	O-60x2	700	517.24
N1129/N1130	O-60x2	700	517.24
N1130/N1131	O-60x2	700	517.24
N1131/N1132	O-60x2	700	517.24
N1132/N1133	O-60x2	700	517.24
N1133/N1134	O-60x2	700	517.24
N1134/N1135	O-60x2	700	517.24
N1135/N1136	O-60x2	700	517.24
N1136/N1137	O-60x2	700	517.24
N1137/N1138	O-60x2	700	517.24
N1138/N1139	O-60x2	700	517.24
N1139/N1140	O-60x2	700	517.24
N1141/N1142	O-60x2	700	517.24
N1142/N1143	O-60x2	700	517.24
N1143/N1144	O-60x2	700	517.24
N1144/N1145	O-60x2	700	517.24
N1145/N1146	O-60x2	700	517.24
N1146/N1147	O-60x2	700	517.24
N1147/N1148	O-60x2	700	517.24
N1148/N1149	O-60x2	700	517.24
N1149/N1150	O-60x2	700	517.24
N1150/N1151	O-60x2	700	517.24
N1151/N1152	O-60x2	700	517.24
N1152/N1153	O-60x2	700	517.24
N1153/N1154	O-60x2	700	517.24
N1154/N1155	O-60x2	700	517.24
N1155/N1156	O-60x2	700	517.24
N1156/N1157	O-60x2	700	517.24
N1157/N1158	O-60x2	700	517.24
N1158/N1159	O-60x2	700	517.24
N1159/N1160	O-60x2	700	517.24
N1160/N1161	O-60x2	700	517.24
N1161/N1162	O-60x2	700	517.24
N1163/N1164	O-60x2	700	517.24
N1164/N1165	O-60x2	700	517.24
N1165/N1166	O-60x2	700	517.24
N1166/N1167	O-60x2	700	517.24
N1167/N1168	O-60x2	700	517.24
N1168/N1169	O-60x2	700	517.24
N1169/N1170	O-60x2	700	517.24
N1170/N1171	O-60x2	700	517.24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1171/N1172	O-60x2	700	517.24
N1172/N1173	O-60x2	700	517.24
N1173/N1174	O-60x2	700	517.24
N1174/N1175	O-60x2	700	517.24
N1175/N1176	O-60x2	700	517.24
N1176/N1177	O-60x2	700	517.24
N1177/N1178	O-60x2	700	517.24
N1178/N1179	O-60x2	700	517.24
N1179/N1180	O-60x2	700	517.24
N1180/N1181	O-60x2	700	517.24
N1181/N1182	O-60x2	700	517.24
N1182/N1183	O-60x2	700	517.24
N1183/N1184	O-60x2	700	517.24
N1185/N1186	O-60x2	700	517.24
N1186/N1187	O-60x2	700	517.24
N1187/N1188	O-60x2	700	517.24
N1188/N1189	O-60x2	700	517.24
N1189/N1190	O-60x2	700	517.24
N1190/N1191	O-60x2	700	517.24
N1191/N1192	O-60x2	700	517.24
N1192/N1193	O-60x2	700	517.24
N1193/N1194	O-60x2	700	517.24
N1194/N1195	O-60x2	700	517.24
N1195/N1196	O-60x2	700	517.24
N1196/N1197	O-60x2	700	517.24
N1197/N1198	O-60x2	700	517.24
N1198/N1199	O-60x2	700	517.24
N1199/N1200	O-60x2	700	517.24
N1200/N1201	O-60x2	700	517.24
N1201/N1202	O-60x2	700	517.24
N1202/N1203	O-60x2	700	517.24
N1203/N1204	O-60x2	700	517.24
N1204/N1205	O-60x2	700	517.24
N1205/N1206	O-60x2	700	517.24
N1207/N1208	O-60x2	700	517.24
N1208/N1209	O-60x2	700	517.24
N1209/N1210	O-60x2	700	517.24
N1210/N1211	O-60x2	700	517.24
N1211/N1212	O-60x2	700	517.24
N1212/N1213	O-60x2	700	517.24
N1213/N1214	O-60x2	700	517.24
N1214/N1215	O-60x2	700	517.24
N1215/N1216	O-60x2	700	517.24
N1216/N1217	O-60x2	700	517.24
N1217/N1218	O-60x2	700	517.24
N1218/N1219	O-60x2	700	517.24
N1219/N1220	O-60x2	700	517.24
N1220/N1221	O-60x2	700	517.24
N1221/N1222	O-60x2	700	517.24
N1222/N1223	O-60x2	700	517.24
N1223/N1224	O-60x2	700	517.24
N1224/N1225	O-60x2	700	517.24
N1225/N1226	O-60x2	700	517.24
N1226/N1227	O-60x2	700	517.24
N1227/N1228	O-60x2	700	517.24
N1229/N1230	O-60x2	700	517.24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1230/N1231	O-60x2	700	517.24
N1231/N1232	O-60x2	700	517.24
N1232/N1233	O-60x2	700	517.24
N1233/N1234	O-60x2	700	517.24
N1234/N1235	O-60x2	700	517.24
N1235/N1236	O-60x2	700	517.24
N1236/N1237	O-60x2	700	517.24
N1237/N1238	O-60x2	700	517.24
N1238/N1239	O-60x2	700	517.24
N1239/N1240	O-60x2	700	517.24
N1240/N1241	O-60x2	700	517.24
N1241/N1242	O-60x2	700	517.24
N1242/N1243	O-60x2	700	517.24
N1243/N1244	O-60x2	700	517.24
N1244/N1245	O-60x2	700	517.24
N1245/N1246	O-60x2	700	517.24
N1246/N1247	O-60x2	700	517.24
N1247/N1248	O-60x2	700	517.24
N1248/N1249	O-60x2	700	517.24
N1249/N1250	O-60x2	700	517.24
N1251/N1252	O-60x2	700	517.24
N1252/N1253	O-60x2	700	517.24
N1253/N1254	O-60x2	700	517.24
N1254/N1255	O-60x2	700	517.24
N1255/N1256	O-60x2	700	517.24
N1256/N1257	O-60x2	700	517.24
N1257/N1258	O-60x2	700	517.24
N1258/N1259	O-60x2	700	517.24
N1259/N1260	O-60x2	700	517.24
N1260/N1261	O-60x2	700	517.24
N1261/N1262	O-60x2	700	517.24
N1262/N1263	O-60x2	700	517.24
N1263/N1264	O-60x2	700	517.24
N1264/N1265	O-60x2	700	517.24
N1265/N1266	O-60x2	700	517.24
N1266/N1267	O-60x2	700	517.24
N1267/N1268	O-60x2	700	517.24
N1268/N1269	O-60x2	700	517.24
N1269/N1270	O-60x2	700	517.24
N1270/N1271	O-60x2	700	517.24
N1271/N1272	O-60x2	700	517.24
N1273/N1274	O-60x2	700	517.24
N1274/N1275	O-60x2	700	517.24
N1275/N1276	O-60x2	700	517.24
N1276/N1277	O-60x2	700	517.24
N1277/N1278	O-60x2	700	517.24
N1278/N1279	O-60x2	700	517.24
N1279/N1280	O-60x2	700	517.24
N1280/N1281	O-60x2	700	517.24
N1281/N1282	O-60x2	700	517.24
N1282/N1283	O-60x2	700	517.24
N1283/N1284	O-60x2	700	517.24
N1284/N1285	O-60x2	700	517.24
N1285/N1286	O-60x2	700	517.24
N1286/N1287	O-60x2	700	517.24
N1287/N1288	O-60x2	700	517.24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1288/N1289	O-60x2	700	517.24
N1289/N1290	O-60x2	700	517.24
N1290/N1291	O-60x2	700	517.24
N1291/N1292	O-60x2	700	517.24
N1292/N1293	O-60x2	700	517.24
N1293/N1294	O-60x2	700	517.24
N1295/N1296	O-60x2	700	517.24
N1296/N1297	O-60x2	700	517.24
N1297/N1298	O-60x2	700	517.24
N1298/N1299	O-60x2	700	517.24
N1299/N1300	O-60x2	700	517.24
N1300/N1301	O-60x2	700	517.24
N1301/N1302	O-60x2	700	517.24
N1302/N1303	O-60x2	700	517.24
N1303/N1304	O-60x2	700	517.24
N1304/N1305	O-60x2	700	517.24
N1305/N1306	O-60x2	700	517.24
N1306/N1307	O-60x2	700	517.24
N1307/N1308	O-60x2	700	517.24
N1308/N1309	O-60x2	700	517.24
N1309/N1310	O-60x2	700	517.24
N1310/N1311	O-60x2	700	517.24
N1311/N1312	O-60x2	700	517.24
N1312/N1313	O-60x2	700	517.24
N1313/N1314	O-60x2	700	517.24
N1314/N1315	O-60x2	700	517.24
N1315/N1316	O-60x2	700	517.24
N1317/N1318	O-60x2	700	517.24
N1318/N1319	O-60x2	700	517.24
N1319/N1320	O-60x2	700	517.24
N1320/N1321	O-60x2	700	517.24
N1321/N1322	O-60x2	700	517.24
N1322/N1323	O-60x2	700	517.24
N1323/N1324	O-60x2	700	517.24
N1324/N1325	O-60x2	700	517.24
N1325/N1326	O-60x2	700	517.24
N1326/N1327	O-60x2	700	517.24
N1327/N1328	O-60x2	700	517.24
N1328/N1329	O-60x2	700	517.24
N1329/N1330	O-60x2	700	517.24
N1330/N1331	O-60x2	700	517.24
N1331/N1332	O-60x2	700	517.24
N1332/N1333	O-60x2	700	517.24
N1333/N1334	O-60x2	700	517.24
N1334/N1335	O-60x2	700	517.24
N1335/N1336	O-60x2	700	517.24
N1336/N1337	O-60x2	700	517.24
N1337/N1338	O-60x2	700	517.24
N1339/N1340	O-60x2	700	517.24
N1340/N1341	O-60x2	700	517.24
N1341/N1342	O-60x2	700	517.24
N1342/N1343	O-60x2	700	517.24
N1343/N1344	O-60x2	700	517.24
N1344/N1345	O-60x2	700	517.24
N1345/N1346	O-60x2	700	517.24
N1346/N1347	O-60x2	700	517.24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1347/N1348	O-60x2	700	517.24
N1348/N1349	O-60x2	700	517.24
N1349/N1350	O-60x2	700	517.24
N1350/N1351	O-60x2	700	517.24
N1351/N1352	O-60x2	700	517.24
N1352/N1353	O-60x2	700	517.24
N1353/N1354	O-60x2	700	517.24
N1354/N1355	O-60x2	700	517.24
N1355/N1356	O-60x2	700	517.24
N1356/N1357	O-60x2	700	517.24
N1357/N1358	O-60x2	700	517.24
N1358/N1359	O-60x2	700	517.24
N1359/N1360	O-60x2	700	517.24
N1361/N1362	O-60x2	700	517.24
N1362/N1363	O-60x2	700	517.24
N1363/N1364	O-60x2	700	517.24
N1364/N1365	O-60x2	700	517.24
N1365/N1366	O-60x2	700	517.24
N1366/N1367	O-60x2	700	517.24
N1367/N1368	O-60x2	700	517.24
N1368/N1369	O-60x2	700	517.24
N1369/N1370	O-60x2	700	517.24
N1370/N1371	O-60x2	700	517.24
N1371/N1372	O-60x2	700	517.24
N1372/N1373	O-60x2	700	517.24
N1373/N1374	O-60x2	700	517.24
N1374/N1375	O-60x2	700	517.24
N1375/N1376	O-60x2	700	517.24
N1376/N1377	O-60x2	700	517.24
N1377/N1378	O-60x2	700	517.24
N1378/N1379	O-60x2	700	517.24
N1379/N1380	O-60x2	700	517.24
N1380/N1381	O-60x2	700	517.24
N1381/N1382	O-60x2	700	517.24
N1383/N1384	O-60x2	700	517.24
N1384/N1385	O-60x2	700	517.24
N1385/N1386	O-60x2	700	517.24
N1386/N1387	O-60x2	700	517.24
N1387/N1388	O-60x2	700	517.24
N1388/N1389	O-60x2	700	517.24
N1389/N1390	O-60x2	700	517.24
N1390/N1391	O-60x2	700	517.24
N1391/N1392	O-60x2	700	517.24
N1392/N1393	O-60x2	700	517.24
N1393/N1394	O-60x2	700	517.24
N1394/N1395	O-60x2	700	517.24
N1395/N1396	O-60x2	700	517.24
N1396/N1397	O-60x2	700	517.24
N1397/N1398	O-60x2	700	517.24
N1398/N1399	O-60x2	700	517.24
N1399/N1400	O-60x2	700	517.24
N1400/N1401	O-60x2	700	517.24
N1401/N1402	O-60x2	700	517.24
N1402/N1403	O-60x2	700	517.24
N1403/N1404	O-60x2	700	517.24
N1405/N1406	O-60x2	700	517.24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1406/N1407	O-60x2	700	517.24
N1407/N1408	O-60x2	700	517.24
N1408/N1409	O-60x2	700	517.24
N1409/N1410	O-60x2	700	517.24
N1410/N1411	O-60x2	700	517.24
N1411/N1412	O-60x2	700	517.24
N1412/N1413	O-60x2	700	517.24
N1413/N1414	O-60x2	700	517.24
N1414/N1415	O-60x2	700	517.24
N1415/N1416	O-60x2	700	517.24
N1416/N1417	O-60x2	700	517.24
N1417/N1418	O-60x2	700	517.24
N1418/N1419	O-60x2	700	517.24
N1419/N1420	O-60x2	700	517.24
N1420/N1421	O-60x2	700	517.24
N1421/N1422	O-60x2	700	517.24
N1422/N1423	O-60x2	700	517.24
N1423/N1424	O-60x2	700	517.24
N1424/N1425	O-60x2	700	517.24
N1425/N1426	O-60x2	700	517.24
N1427/N1428	O-60x2	700	517.24
N1428/N1429	O-60x2	700	517.24
N1429/N1430	O-60x2	700	517.24
N1430/N1431	O-60x2	700	517.24
N1431/N1432	O-60x2	700	517.24
N1432/N1433	O-60x2	700	517.24
N1433/N1434	O-60x2	700	517.24
N1434/N1435	O-60x2	700	517.24
N1435/N1436	O-60x2	700	517.24
N1436/N1437	O-60x2	700	517.24
N1437/N1438	O-60x2	700	517.24
N1438/N1439	O-60x2	700	517.24
N1439/N1440	O-60x2	700	517.24
N1440/N1441	O-60x2	700	517.24
N1441/N1442	O-60x2	700	517.24
N1442/N1443	O-60x2	700	517.24
N1443/N1444	O-60x2	700	517.24
N1444/N1445	O-60x2	700	517.24
N1445/N1446	O-60x2	700	517.24
N1446/N1447	O-60x2	700	517.24
N1447/N1448	O-60x2	700	517.24
N1449/N1450	O-60x2	700	517.24
N1450/N1451	O-60x2	700	517.24
N1451/N1452	O-60x2	700	517.24
N1452/N1453	O-60x2	700	517.24
N1453/N1454	O-60x2	700	517.24
N1454/N1455	O-60x2	700	517.24
N1455/N1456	O-60x2	700	517.24
N1456/N1457	O-60x2	700	517.24
N1457/N1458	O-60x2	700	517.24
N1458/N1459	O-60x2	700	517.24
N1459/N1460	O-60x2	700	517.24
N1460/N1461	O-60x2	700	517.24
N1461/N1462	O-60x2	700	517.24
N1462/N1463	O-60x2	700	517.24
N1463/N1464	O-60x2	700	517.24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1464/N1465	O-60x2	700	517.24
N1465/N1466	O-60x2	700	517.24
N1466/N1467	O-60x2	700	517.24
N1467/N1468	O-60x2	700	517.24
N1468/N1469	O-60x2	700	517.24
N1469/N1470	O-60x2	700	517.24
N1471/N1472	O-60x2	700	517.24
N1472/N1473	O-60x2	700	517.24
N1473/N1474	O-60x2	700	517.24
N1474/N1475	O-60x2	700	517.24
N1475/N1476	O-60x2	700	517.24
N1476/N1477	O-60x2	700	517.24
N1477/N1478	O-60x2	700	517.24
N1478/N1479	O-60x2	700	517.24
N1479/N1480	O-60x2	700	517.24
N1480/N1481	O-60x2	700	517.24
N1481/N1482	O-60x2	700	517.24
N1482/N1483	O-60x2	700	517.24
N1483/N1484	O-60x2	700	517.24
N1484/N1485	O-60x2	700	517.24
N1485/N1486	O-60x2	700	517.24
N1486/N1487	O-60x2	700	517.24
N1487/N1488	O-60x2	700	517.24
N1488/N1489	O-60x2	700	517.24
N1489/N1490	O-60x2	700	517.24
N1490/N1491	O-60x2	700	517.24
N1491/N1492	O-60x2	700	517.24
N1493/N1494	O-60x2	700	517.24
N1494/N1495	O-60x2	700	517.24
N1495/N1496	O-60x2	700	517.24
N1496/N1497	O-60x2	700	517.24
N1497/N1498	O-60x2	700	517.24
N1498/N1499	O-60x2	700	517.24
N1499/N1500	O-60x2	700	517.24
N1500/N1501	O-60x2	700	517.24
N1501/N1502	O-60x2	700	517.24
N1502/N1503	O-60x2	700	517.24
N1503/N1504	O-60x2	700	517.24
N1504/N1505	O-60x2	700	517.24
N1505/N1506	O-60x2	700	517.24
N1506/N1507	O-60x2	700	517.24
N1507/N1508	O-60x2	700	517.24
N1508/N1509	O-60x2	700	517.24
N1509/N1510	O-60x2	700	517.24
N1510/N1511	O-60x2	700	517.24
N1511/N1512	O-60x2	700	517.24
N1512/N1513	O-60x2	700	517.24
N1513/N1514	O-60x2	700	517.24
N1515/N1516	O-60x2	700	517.24
N1516/N1517	O-60x2	700	517.24
N1517/N1518	O-60x2	700	517.24
N1518/N1519	O-60x2	700	517.24
N1519/N1520	O-60x2	700	517.24
N1520/N1521	O-60x2	700	517.24
N1521/N1522	O-60x2	700	517.24
N1522/N1523	O-60x2	700	517.24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1523/N1524	O-60x2	700	517.24
N1524/N1525	O-60x2	700	517.24
N1525/N1526	O-60x2	700	517.24
N1526/N1527	O-60x2	700	517.24
N1527/N1528	O-60x2	700	517.24
N1528/N1529	O-60x2	700	517.24
N1529/N1530	O-60x2	700	517.24
N1530/N1531	O-60x2	700	517.24
N1531/N1532	O-60x2	700	517.24
N1532/N1533	O-60x2	700	517.24
N1533/N1534	O-60x2	700	517.24
N1534/N1535	O-60x2	700	517.24
N1535/N1536	O-60x2	700	517.24
N1537/N1538	O-60x2	700	517.24
N1538/N1539	O-60x2	700	517.24
N1539/N1540	O-60x2	700	517.24
N1540/N1541	O-60x2	700	517.24
N1542/N1543	O-60x2	700	517.24
N1543/N1544	O-60x2	700	517.24
N1545/N1546	O-60x2	700	517.24
N1546/N1547	O-60x2	700	517.24
N1548/N1549	O-60x2	700	517.24
N1549/N1550	O-60x2	700	517.24
N1550/N1551	O-60x2	700	517.24
N1551/N1552	O-60x2	700	517.24
N1553/N1554	O-60x2	700	517.24
N1554/N1555	O-60x2	700	517.24
N1555/N1556	O-60x2	700	517.24
N1556/N1557	O-60x2	700	517.24
N1558/N1559	O-60x2	700	517.24
N1559/N1560	O-60x2	700	517.24
N1561/N1562	O-60x2	700	517.24
N1562/N1563	O-60x2	700	517.24
N1564/N1565	O-60x2	700	517.24
N1565/N1566	O-60x2	700	517.24
N1566/N1567	O-60x2	700	517.24
N1567/N1568	O-60x2	700	517.24
N1569/N1570	O-60x2	700	517.24
N1570/N1571	O-60x2	700	517.24
N1571/N1572	O-60x2	700	517.24
N1572/N1573	O-60x2	700	517.24
N1573/N1574	O-60x2	700	517.24
N1574/N1575	O-60x2	700	517.24
N1575/N1576	O-60x2	700	517.24
N1576/N1577	O-60x2	700	517.24
N1577/N1578	O-60x2	700	517.24
N1578/N1579	O-60x2	700	517.24
N1579/N1580	O-60x2	700	517.24
N1580/N1581	O-60x2	700	517.24
N1581/N1582	O-60x2	700	517.24
N1582/N1583	O-60x2	700	517.24
N1583/N1584	O-60x2	700	517.24
N1584/N1585	O-60x2	700	517.24
N1585/N1586	O-60x2	700	517.24
N1586/N1587	O-60x2	700	517.24
N1587/N1588	O-60x2	700	517.24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1588/N1589	O-60x2	700	517.24
N1589/N1590	O-60x2	700	517.24
N1591/N1592	O-60x2	700	517.24
N1592/N1593	O-60x2	700	517.24
N1593/N1594	O-60x2	700	517.24
N1594/N1595	O-60x2	700	517.24
N1595/N1596	O-60x2	700	517.24
N1596/N1597	O-60x2	700	517.24
N1597/N1598	O-60x2	700	517.24
N1598/N1599	O-60x2	700	517.24
N1599/N1600	O-60x2	700	517.24
N1600/N1601	O-60x2	700	517.24
N1601/N1602	O-60x2	700	517.24
N1602/N1603	O-60x2	700	517.24
N1603/N1604	O-60x2	700	517.24
N1604/N1605	O-60x2	700	517.24
N1605/N1606	O-60x2	700	517.24
N1606/N1607	O-60x2	700	517.24
N1607/N1608	O-60x2	700	517.24
N1608/N1609	O-60x2	700	517.24
N1609/N1610	O-60x2	700	517.24
N1610/N1611	O-60x2	700	517.24
N1611/N1612	O-60x2	700	517.24
N1613/N1614	O-60x2	700	517.24
N1614/N1615	O-60x2	700	517.24
N1615/N1616	O-60x2	700	517.24
N1616/N1617	O-60x2	700	517.24
N1617/N1618	O-60x2	700	517.24
N1618/N1619	O-60x2	700	517.24
N1619/N1620	O-60x2	700	517.24
N1620/N1621	O-60x2	700	517.24
N1621/N1622	O-60x2	700	517.24
N1622/N1623	O-60x2	700	517.24
N1623/N1624	O-60x2	700	517.24
N1624/N1625	O-60x2	700	517.24
N1625/N1626	O-60x2	700	517.24
N1626/N1627	O-60x2	700	517.24
N1627/N1628	O-60x2	700	517.24
N1628/N1629	O-60x2	700	517.24
N1629/N1630	O-60x2	700	517.24
N1630/N1631	O-60x2	700	517.24
N1631/N1632	O-60x2	700	517.24
N1632/N1633	O-60x2	700	517.24
N1633/N1634	O-60x2	700	517.24
N1635/N1636	O-60x2	700	517.24
N1636/N1637	O-60x2	700	517.24
N1637/N1638	O-60x2	700	517.24
N1638/N1639	O-60x2	700	517.24
N1639/N1640	O-60x2	700	517.24
N1640/N1641	O-60x2	700	517.24
N1641/N1642	O-60x2	700	517.24
N1642/N1643	O-60x2	700	517.24
N1643/N1644	O-60x2	700	517.24
N1644/N1645	O-60x2	700	517.24
N1645/N1646	O-60x2	700	517.24
N1646/N1647	O-60x2	700	517.24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1647/N1648	O-60x2	700	517.24
N1648/N1649	O-60x2	700	517.24
N1649/N1650	O-60x2	700	517.24
N1650/N1651	O-60x2	700	517.24
N1651/N1652	O-60x2	700	517.24
N1652/N1653	O-60x2	700	517.24
N1653/N1654	O-60x2	700	517.24
N1654/N1655	O-60x2	700	517.24
N1655/N1656	O-60x2	700	517.24
N898/N920	O-60x2	700	517.24
N920/N942	O-60x2	700	517.24
N942/N964	O-60x2	700	517.24
N964/N986	O-60x2	700	517.24
N986/N1008	O-60x2	700	517.24
N1008/N1030	O-60x2	700	517.24
N1052/N1074	O-60x2	700	517.24
N1074/N1096	O-60x2	700	517.24
N1096/N1118	O-60x2	700	517.24
N1118/N1140	O-60x2	700	517.24
N1140/N1162	O-60x2	700	517.24
N1184/N1206	O-60x2	700	517.24
N1206/N1228	O-60x2	700	517.24
N1228/N1250	O-60x2	700	517.24
N1250/N1272	O-60x2	700	517.24
N1272/N1294	O-60x2	700	517.24
N1316/N1338	O-60x2	700	517.24
N1338/N1360	O-60x2	700	517.24
N1360/N1382	O-60x2	700	517.24
N1382/N1404	O-60x2	700	517.24
N1404/N1426	O-60x2	700	517.24
N1448/N1470	O-60x2	700	517.24
N1470/N1492	O-60x2	700	517.24
N1492/N1514	O-60x2	700	517.24
N1514/N1536	O-60x2	700	517.24
N1536/N1552	O-60x2	700	517.24
N1568/N1590	O-60x2	700	517.24
N1590/N1612	O-60x2	700	517.24
N1612/N1634	O-60x2	700	517.24
N1634/N1656	O-60x2	700	517.24
N897/N919	O-60x2	700	517.24
N919/N1815	O-125x4	700	258.26
N1815/N941	O-125x4	700	258.26
N941/N963	O-60x2	700	517.24
N963/N985	O-60x2	700	517.24
N985/N1007	O-60x2	700	517.24
N1007/N1029	O-60x2	700	517.24
N1051/N1073	O-60x2	700	517.24
N1073/N1095	O-60x2	700	517.24
N1095/N1117	O-60x2	700	517.24
N1117/N1139	O-60x2	700	517.24
N1139/N1161	O-60x2	700	517.24
N1183/N1205	O-60x2	700	517.24
N1205/N1227	O-60x2	700	517.24
N1227/N1249	O-60x2	700	517.24
N1249/N1271	O-60x2	700	517.24
N1271/N1293	O-60x2	700	517.24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1315/N1337	O-60x2	700	517.24
N1337/N1359	O-60x2	700	517.24
N1359/N1381	O-60x2	700	517.24
N1381/N1403	O-60x2	700	517.24
N1403/N1425	O-60x2	700	517.24
N1447/N1469	O-60x2	700	517.24
N1469/N1491	O-60x2	700	517.24
N1491/N1513	O-60x2	700	517.24
N1513/N1535	O-60x2	700	517.24
N1535/N1551	O-60x2	700	517.24
N1567/N1589	O-60x2	700	517.24
N1589/N1611	O-60x2	700	517.24
N1611/N1633	O-60x2	700	517.24
N1633/N1655	O-60x2	700	517.24
N896/N918	O-60x2	700	517.24
N918/N1814	O-125x4	700	258.26
N1814/N940	O-125x4	700	258.26
N940/N962	O-60x2	700	517.24
N962/N984	O-60x2	700	517.24
N984/N1006	O-60x2	700	517.24
N1006/N1028	O-60x2	700	517.24
N1050/N1072	O-60x2	700	517.24
N1072/N1094	O-60x2	700	517.24
N1094/N1116	O-60x2	700	517.24
N1116/N1138	O-60x2	700	517.24
N1138/N1160	O-60x2	700	517.24
N1182/N1204	O-60x2	700	517.24
N1204/N1226	O-60x2	700	517.24
N1226/N1248	O-60x2	700	517.24
N1248/N1270	O-60x2	700	517.24
N1270/N1292	O-60x2	700	517.24
N1314/N1336	O-60x2	700	517.24
N1336/N1358	O-60x2	700	517.24
N1358/N1380	O-60x2	700	517.24
N1380/N1402	O-60x2	700	517.24
N1402/N1424	O-60x2	700	517.24
N1446/N1468	O-60x2	700	517.24
N1468/N1490	O-60x2	700	517.24
N1490/N1512	O-60x2	700	517.24
N1512/N1534	O-60x2	700	517.24
N1534/N1550	O-60x2	700	517.24
N1566/N1588	O-60x2	700	517.24
N1588/N1610	O-60x2	700	517.24
N1610/N1632	O-60x2	700	517.24
N1632/N1654	O-60x2	700	517.24
N895/N917	O-60x2	700	517.24
N917/N1813	O-125x4	700	258.26
N1813/N939	O-125x4	700	258.26
N939/N961	O-60x2	700	517.24
N961/N983	O-60x2	700	517.24
N983/N1005	O-60x2	700	517.24
N1005/N1027	O-60x2	700	517.24
N1049/N1071	O-60x2	700	517.24
N1071/N1093	O-60x2	700	517.24
N1093/N1115	O-60x2	700	517.24
N1115/N1137	O-60x2	700	517.24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1137/N1159	O-60x2	700	517.24
N1181/N1203	O-60x2	700	517.24
N1203/N1225	O-60x2	700	517.24
N1225/N1247	O-60x2	700	517.24
N1247/N1269	O-60x2	700	517.24
N1269/N1291	O-60x2	700	517.24
N1313/N1335	O-60x2	700	517.24
N1335/N1357	O-60x2	700	517.24
N1357/N1379	O-60x2	700	517.24
N1379/N1401	O-60x2	700	517.24
N1401/N1423	O-60x2	700	517.24
N1445/N1467	O-60x2	700	517.24
N1467/N1489	O-60x2	700	517.24
N1489/N1511	O-60x2	700	517.24
N1511/N1533	O-60x2	700	517.24
N1533/N1549	O-60x2	700	517.24
N1565/N1587	O-60x2	700	517.24
N1587/N1609	O-60x2	700	517.24
N1609/N1631	O-60x2	700	517.24
N1631/N1653	O-60x2	700	517.24
N894/N916	O-60x2	700	517.24
N916/N1812	O-125x4	700	258.26
N1812/N938	O-125x4	700	258.26
N938/N960	O-60x2	700	517.24
N960/N982	O-60x2	700	517.24
N982/N1004	O-60x2	700	517.24
N1004/N1026	O-60x2	700	517.24
N1048/N1070	O-60x2	700	517.24
N1070/N1092	O-60x2	700	517.24
N1092/N1114	O-60x2	700	517.24
N1114/N1136	O-60x2	700	517.24
N1136/N1158	O-60x2	700	517.24
N1180/N1202	O-60x2	700	517.24
N1202/N1224	O-60x2	700	517.24
N1224/N1246	O-60x2	700	517.24
N1246/N1268	O-60x2	700	517.24
N1268/N1290	O-60x2	700	517.24
N1312/N1334	O-60x2	700	517.24
N1334/N1356	O-60x2	700	517.24
N1356/N1378	O-60x2	700	517.24
N1378/N1400	O-60x2	700	517.24
N1400/N1422	O-60x2	700	517.24
N1444/N1466	O-60x2	700	517.24
N1466/N1488	O-60x2	700	517.24
N1488/N1510	O-60x2	700	517.24
N1510/N1532	O-60x2	700	517.24
N1532/N1548	O-60x2	700	517.24
N1564/N1586	O-60x2	700	517.24
N1586/N1608	O-60x2	700	517.24
N1608/N1630	O-60x2	700	517.24
N1630/N1652	O-60x2	700	517.24
N893/N915	O-60x2	700	517.24
N915/N1811	O-125x4	700	258.26
N1811/N937	O-125x4	700	258.26
N937/N959	O-60x2	700	517.24
N959/N981	O-60x2	700	517.24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N981/N1003	O-60x2	700	517.24
N1003/N1025	O-60x2	700	517.24
N1047/N1069	O-60x2	700	517.24
N1069/N1091	O-60x2	700	517.24
N1091/N1113	O-60x2	700	517.24
N1113/N1135	O-60x2	700	517.24
N1135/N1157	O-60x2	700	517.24
N1179/N1201	O-60x2	700	517.24
N1201/N1223	O-60x2	700	517.24
N1223/N1245	O-60x2	700	517.24
N1245/N1267	O-60x2	700	517.24
N1267/N1289	O-60x2	700	517.24
N1311/N1333	O-60x2	700	517.24
N1333/N1355	O-60x2	700	517.24
N1355/N1377	O-60x2	700	517.24
N1377/N1399	O-60x2	700	517.24
N1399/N1421	O-60x2	700	517.24
N1443/N1465	O-60x2	700	517.24
N1465/N1487	O-60x2	700	517.24
N1487/N1509	O-60x2	700	517.24
N1509/N1531	O-60x2	700	517.24
N1585/N1607	O-60x2	700	517.24
N1607/N1629	O-60x2	700	517.24
N1629/N1651	O-60x2	700	517.24
N892/N914	O-60x2	700	517.24
N914/N1810	O-125x4	700	258.26
N1810/N936	O-125x4	700	258.26
N936/N958	O-60x2	700	517.24
N958/N980	O-60x2	700	517.24
N980/N1002	O-60x2	700	517.24
N1002/N1024	O-60x2	700	517.24
N1046/N1068	O-60x2	700	517.24
N1068/N1090	O-60x2	700	517.24
N1090/N1112	O-60x2	700	517.24
N1112/N1134	O-60x2	700	517.24
N1134/N1156	O-60x2	700	517.24
N1178/N1200	O-60x2	700	517.24
N1200/N1222	O-60x2	700	517.24
N1222/N1244	O-60x2	700	517.24
N1244/N1266	O-60x2	700	517.24
N1266/N1288	O-60x2	700	517.24
N1310/N1332	O-60x2	700	517.24
N1332/N1354	O-60x2	700	517.24
N1354/N1376	O-60x2	700	517.24
N1376/N1398	O-60x2	700	517.24
N1398/N1420	O-60x2	700	517.24
N1442/N1464	O-60x2	700	517.24
N1464/N1486	O-60x2	700	517.24
N1486/N1508	O-60x2	700	517.24
N1508/N1530	O-60x2	700	517.24
N1584/N1606	O-60x2	700	517.24
N1606/N1628	O-60x2	700	517.24
N1628/N1650	O-60x2	700	517.24
N891/N913	O-60x2	700	517.24
N913/N1809	O-125x4	700	258.26
N1809/N935	O-125x4	700	258.26

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N935/N957	O-60x2	700	517.24
N957/N979	O-60x2	700	517.24
N979/N1001	O-60x2	700	517.24
N1001/N1023	O-60x2	700	517.24
N1045/N1067	O-60x2	700	517.24
N1067/N1089	O-60x2	700	517.24
N1089/N1111	O-60x2	700	517.24
N1111/N1133	O-60x2	700	517.24
N1133/N1155	O-60x2	700	517.24
N1177/N1199	O-60x2	700	517.24
N1199/N1221	O-60x2	700	517.24
N1221/N1243	O-60x2	700	517.24
N1243/N1265	O-60x2	700	517.24
N1265/N1287	O-60x2	700	517.24
N1309/N1331	O-60x2	700	517.24
N1331/N1353	O-60x2	700	517.24
N1353/N1375	O-60x2	700	517.24
N1375/N1397	O-60x2	700	517.24
N1397/N1419	O-60x2	700	517.24
N1441/N1463	O-60x2	700	517.24
N1463/N1485	O-60x2	700	517.24
N1485/N1507	O-60x2	700	517.24
N1507/N1529	O-60x2	700	517.24
N1529/N1547	O-60x2	700	517.24
N1563/N1583	O-60x2	700	517.24
N1583/N1605	O-60x2	700	517.24
N1605/N1627	O-60x2	700	517.24
N1627/N1649	O-60x2	700	517.24
N890/N912	O-60x2	700	517.24
N912/N1808	O-125x4	700	258.26
N1808/N934	O-125x4	700	258.26
N934/N956	O-60x2	700	517.24
N956/N978	O-60x2	700	517.24
N978/N1000	O-60x2	700	517.24
N1000/N1022	O-60x2	700	517.24
N1044/N1066	O-60x2	700	517.24
N1066/N1088	O-60x2	700	517.24
N1088/N1110	O-60x2	700	517.24
N1110/N1132	O-60x2	700	517.24
N1132/N1154	O-60x2	700	517.24
N1176/N1198	O-60x2	700	517.24
N1198/N1220	O-60x2	700	517.24
N1220/N1242	O-60x2	700	517.24
N1242/N1264	O-60x2	700	517.24
N1264/N1286	O-60x2	700	517.24
N1308/N1330	O-60x2	700	517.24
N1330/N1352	O-60x2	700	517.24
N1352/N1374	O-60x2	700	517.24
N1374/N1396	O-60x2	700	517.24
N1396/N1418	O-60x2	700	517.24
N1440/N1462	O-60x2	700	517.24
N1462/N1484	O-60x2	700	517.24
N1484/N1506	O-60x2	700	517.24
N1506/N1528	O-60x2	700	517.24
N1528/N1546	O-60x2	700	517.24
N1562/N1582	O-60x2	700	517.24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1582/N1604	O-60x2	700	517.24
N1604/N1626	O-60x2	700	517.24
N1626/N1648	O-60x2	700	517.24
N889/N911	O-60x2	700	517.24
N911/N1807	O-125x4	700	258.26
N1807/N933	O-125x4	700	258.26
N933/N955	O-60x2	700	517.24
N955/N977	O-60x2	700	517.24
N977/N999	O-60x2	700	517.24
N999/N1021	O-60x2	700	517.24
N1043/N1065	O-60x2	700	517.24
N1065/N1087	O-60x2	700	517.24
N1087/N1109	O-60x2	700	517.24
N1109/N1131	O-60x2	700	517.24
N1131/N1153	O-60x2	700	517.24
N1175/N1197	O-60x2	700	517.24
N1197/N1219	O-60x2	700	517.24
N1219/N1241	O-60x2	700	517.24
N1241/N1263	O-60x2	700	517.24
N1263/N1285	O-60x2	700	517.24
N1307/N1329	O-60x2	700	517.24
N1329/N1351	O-60x2	700	517.24
N1351/N1373	O-60x2	700	517.24
N1373/N1395	O-60x2	700	517.24
N1395/N1417	O-60x2	700	517.24
N1439/N1461	O-60x2	700	517.24
N1461/N1483	O-60x2	700	517.24
N1483/N1505	O-60x2	700	517.24
N1505/N1527	O-60x2	700	517.24
N1527/N1545	O-60x2	700	517.24
N1561/N1581	O-60x2	700	517.24
N1581/N1603	O-60x2	700	517.24
N1603/N1625	O-60x2	700	517.24
N1625/N1647	O-60x2	700	517.24
N888/N910	O-60x2	700	517.24
N910/N1806	O-125x4	700	258.26
N1806/N932	O-125x4	700	258.26
N932/N954	O-60x2	700	517.24
N954/N976	O-60x2	700	517.24
N976/N998	O-60x2	700	517.24
N998/N1020	O-60x2	700	517.24
N1042/N1064	O-60x2	700	517.24
N1064/N1086	O-60x2	700	517.24
N1086/N1108	O-60x2	700	517.24
N1108/N1130	O-60x2	700	517.24
N1130/N1152	O-60x2	700	517.24
N1174/N1196	O-60x2	700	517.24
N1196/N1218	O-60x2	700	517.24
N1218/N1240	O-60x2	700	517.24
N1240/N1262	O-60x2	700	517.24
N1262/N1284	O-60x2	700	517.24
N1306/N1328	O-60x2	700	517.24
N1328/N1350	O-60x2	700	517.24
N1350/N1372	O-60x2	700	517.24
N1372/N1394	O-60x2	700	517.24
N1394/N1416	O-60x2	700	517.24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1438/N1460	O-60x2	700	517.24
N1460/N1482	O-60x2	700	517.24
N1482/N1504	O-60x2	700	517.24
N1504/N1526	O-60x2	700	517.24
N1580/N1602	O-60x2	700	517.24
N1602/N1624	O-60x2	700	517.24
N1624/N1646	O-60x2	700	517.24
N887/N909	O-60x2	700	517.24
N909/N1805	O-125x4	700	258.26
N1805/N931	O-125x4	700	258.26
N931/N953	O-60x2	700	517.24
N953/N975	O-60x2	700	517.24
N975/N997	O-60x2	700	517.24
N997/N1019	O-60x2	700	517.24
N1041/N1063	O-60x2	700	517.24
N1063/N1085	O-60x2	700	517.24
N1085/N1107	O-60x2	700	517.24
N1107/N1129	O-60x2	700	517.24
N1129/N1151	O-60x2	700	517.24
N1173/N1195	O-60x2	700	517.24
N1195/N1217	O-60x2	700	517.24
N1217/N1239	O-60x2	700	517.24
N1239/N1261	O-60x2	700	517.24
N1261/N1283	O-60x2	700	517.24
N1305/N1327	O-60x2	700	517.24
N1327/N1349	O-60x2	700	517.24
N1349/N1371	O-60x2	700	517.24
N1371/N1393	O-60x2	700	517.24
N1393/N1415	O-60x2	700	517.24
N1437/N1459	O-60x2	700	517.24
N1459/N1481	O-60x2	700	517.24
N1481/N1503	O-60x2	700	517.24
N1503/N1525	O-60x2	700	517.24
N1579/N1601	O-60x2	700	517.24
N1601/N1623	O-60x2	700	517.24
N1623/N1645	O-60x2	700	517.24
N886/N908	O-60x2	700	517.24
N908/N1804	O-125x4	700	258.26
N1804/N930	O-125x4	700	258.26
N930/N952	O-60x2	700	517.24
N952/N974	O-60x2	700	517.24
N974/N996	O-60x2	700	517.24
N996/N1018	O-60x2	700	517.24
N1040/N1062	O-60x2	700	517.24
N1062/N1084	O-60x2	700	517.24
N1084/N1106	O-60x2	700	517.24
N1106/N1128	O-60x2	700	517.24
N1128/N1150	O-60x2	700	517.24
N1172/N1194	O-60x2	700	517.24
N1194/N1216	O-60x2	700	517.24
N1216/N1238	O-60x2	700	517.24
N1238/N1260	O-60x2	700	517.24
N1260/N1282	O-60x2	700	517.24
N1304/N1326	O-60x2	700	517.24
N1326/N1348	O-60x2	700	517.24
N1348/N1370	O-60x2	700	517.24

Listados
Coberta de 46'8x28'6 malla tetràedres
Fecha: 20/12/24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1370/N1392	O-60x2	700	517.24
N1392/N1414	O-60x2	700	517.24
N1436/N1458	O-60x2	700	517.24
N1458/N1480	O-60x2	700	517.24
N1480/N1502	O-60x2	700	517.24
N1502/N1524	O-60x2	700	517.24
N1524/N1544	O-60x2	700	517.24
N1560/N1578	O-60x2	700	517.24
N1578/N1600	O-60x2	700	517.24
N1600/N1622	O-60x2	700	517.24
N1622/N1644	O-60x2	700	517.24
N885/N907	O-60x2	700	517.24
N907/N1803	O-125x4	700	258.26
N1803/N929	O-125x4	700	258.26
N929/N951	O-60x2	700	517.24
N951/N973	O-60x2	700	517.24
N973/N995	O-60x2	700	517.24
N995/N1017	O-60x2	700	517.24
N1039/N1061	O-60x2	700	517.24
N1061/N1083	O-60x2	700	517.24
N1083/N1105	O-60x2	700	517.24
N1105/N1127	O-60x2	700	517.24
N1127/N1149	O-60x2	700	517.24
N1171/N1193	O-60x2	700	517.24
N1193/N1215	O-60x2	700	517.24
N1215/N1237	O-60x2	700	517.24
N1237/N1259	O-60x2	700	517.24
N1259/N1281	O-60x2	700	517.24
N1303/N1325	O-60x2	700	517.24
N1325/N1347	O-60x2	700	517.24
N1347/N1369	O-60x2	700	517.24
N1369/N1391	O-60x2	700	517.24
N1391/N1413	O-60x2	700	517.24
N1435/N1457	O-60x2	700	517.24
N1457/N1479	O-60x2	700	517.24
N1479/N1501	O-60x2	700	517.24
N1501/N1523	O-60x2	700	517.24
N1523/N1543	O-60x2	700	517.24
N1559/N1577	O-60x2	700	517.24
N1577/N1599	O-60x2	700	517.24
N1599/N1621	O-60x2	700	517.24
N1621/N1643	O-60x2	700	517.24
N884/N906	O-60x2	700	517.24
N906/N1802	O-125x4	700	258.26
N1802/N928	O-125x4	700	258.26
N928/N950	O-60x2	700	517.24
N950/N972	O-60x2	700	517.24
N972/N994	O-60x2	700	517.24
N994/N1016	O-60x2	700	517.24
N1038/N1060	O-60x2	700	517.24
N1060/N1082	O-60x2	700	517.24
N1082/N1104	O-60x2	700	517.24
N1104/N1126	O-60x2	700	517.24
N1126/N1148	O-60x2	700	517.24
N1170/N1192	O-60x2	700	517.24
N1192/N1214	O-60x2	700	517.24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1214/N1236	O-60x2	700	517.24
N1236/N1258	O-60x2	700	517.24
N1258/N1280	O-60x2	700	517.24
N1302/N1324	O-60x2	700	517.24
N1324/N1346	O-60x2	700	517.24
N1346/N1368	O-60x2	700	517.24
N1368/N1390	O-60x2	700	517.24
N1390/N1412	O-60x2	700	517.24
N1434/N1456	O-60x2	700	517.24
N1456/N1478	O-60x2	700	517.24
N1478/N1500	O-60x2	700	517.24
N1500/N1522	O-60x2	700	517.24
N1522/N1542	O-60x2	700	517.24
N1558/N1576	O-60x2	700	517.24
N1576/N1598	O-60x2	700	517.24
N1598/N1620	O-60x2	700	517.24
N1620/N1642	O-60x2	700	517.24
N883/N905	O-60x2	700	517.24
N905/N1801	O-125x4	700	258.26
N1801/N927	O-125x4	700	258.26
N927/N949	O-60x2	700	517.24
N949/N971	O-60x2	700	517.24
N971/N993	O-60x2	700	517.24
N993/N1015	O-60x2	700	517.24
N1037/N1059	O-60x2	700	517.24
N1059/N1081	O-60x2	700	517.24
N1081/N1103	O-60x2	700	517.24
N1103/N1125	O-60x2	700	517.24
N1125/N1147	O-60x2	700	517.24
N1169/N1191	O-60x2	700	517.24
N1191/N1213	O-60x2	700	517.24
N1213/N1235	O-60x2	700	517.24
N1235/N1257	O-60x2	700	517.24
N1257/N1279	O-60x2	700	517.24
N1301/N1323	O-60x2	700	517.24
N1323/N1345	O-60x2	700	517.24
N1345/N1367	O-60x2	700	517.24
N1367/N1389	O-60x2	700	517.24
N1389/N1411	O-60x2	700	517.24
N1433/N1455	O-60x2	700	517.24
N1455/N1477	O-60x2	700	517.24
N1477/N1499	O-60x2	700	517.24
N1499/N1521	O-60x2	700	517.24
N1575/N1597	O-60x2	700	517.24
N1597/N1619	O-60x2	700	517.24
N1619/N1641	O-60x2	700	517.24
N882/N904	O-60x2	700	517.24
N904/N1799	O-125x4	700	258.26
N1799/N926	O-125x4	700	258.26
N926/N948	O-60x2	700	517.24
N948/N970	O-60x2	700	517.24
N970/N992	O-60x2	700	517.24
N992/N1014	O-60x2	700	517.24
N1036/N1058	O-60x2	700	517.24
N1058/N1080	O-60x2	700	517.24
N1080/N1102	O-60x2	700	517.24

Listados
Coberta de 46'8x28'6 malla tetràedres
Fecha: 20/12/24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1102/N1124	O-60x2	700	517.24
N1124/N1146	O-60x2	700	517.24
N1168/N1190	O-60x2	700	517.24
N1190/N1212	O-60x2	700	517.24
N1212/N1234	O-60x2	700	517.24
N1234/N1256	O-60x2	700	517.24
N1256/N1278	O-60x2	700	517.24
N1300/N1322	O-60x2	700	517.24
N1322/N1344	O-60x2	700	517.24
N1344/N1366	O-60x2	700	517.24
N1366/N1388	O-60x2	700	517.24
N1388/N1410	O-60x2	700	517.24
N1432/N1454	O-60x2	700	517.24
N1454/N1476	O-60x2	700	517.24
N1476/N1498	O-60x2	700	517.24
N1498/N1520	O-60x2	700	517.24
N1574/N1596	O-60x2	700	517.24
N1596/N1618	O-60x2	700	517.24
N1618/N1640	O-60x2	700	517.24
N881/N903	O-60x2	700	517.24
N903/N1798	O-125x4	700	258.26
N1798/N925	O-125x4	700	258.26
N925/N947	O-60x2	700	517.24
N947/N969	O-60x2	700	517.24
N969/N991	O-60x2	700	517.24
N991/N1013	O-60x2	700	517.24
N1035/N1057	O-60x2	700	517.24
N1057/N1079	O-60x2	700	517.24
N1079/N1101	O-60x2	700	517.24
N1101/N1123	O-60x2	700	517.24
N1123/N1145	O-60x2	700	517.24
N1167/N1189	O-60x2	700	517.24
N1189/N1211	O-60x2	700	517.24
N1211/N1233	O-60x2	700	517.24
N1233/N1255	O-60x2	700	517.24
N1255/N1277	O-60x2	700	517.24
N1299/N1321	O-60x2	700	517.24
N1321/N1343	O-60x2	700	517.24
N1343/N1365	O-60x2	700	517.24
N1365/N1387	O-60x2	700	517.24
N1387/N1409	O-60x2	700	517.24
N1431/N1453	O-60x2	700	517.24
N1453/N1475	O-60x2	700	517.24
N1475/N1497	O-60x2	700	517.24
N1497/N1519	O-60x2	700	517.24
N1519/N1541	O-60x2	700	517.24
N1557/N1573	O-60x2	700	517.24
N1573/N1595	O-60x2	700	517.24
N1595/N1617	O-60x2	700	517.24
N1617/N1639	O-60x2	700	517.24
N880/N902	O-60x2	700	517.24
N902/N1797	O-125x4	700	258.26
N1797/N924	O-125x4	700	258.26
N924/N946	O-60x2	700	517.24
N946/N968	O-60x2	700	517.24
N968/N990	O-60x2	700	517.24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N990/N1012	O-60x2	700	517.24
N1034/N1056	O-60x2	700	517.24
N1056/N1078	O-60x2	700	517.24
N1078/N1100	O-60x2	700	517.24
N1100/N1122	O-60x2	700	517.24
N1122/N1144	O-60x2	700	517.24
N1166/N1188	O-60x2	700	517.24
N1188/N1210	O-60x2	700	517.24
N1210/N1232	O-60x2	700	517.24
N1232/N1254	O-60x2	700	517.24
N1254/N1276	O-60x2	700	517.24
N1298/N1320	O-60x2	700	517.24
N1320/N1342	O-60x2	700	517.24
N1342/N1364	O-60x2	700	517.24
N1364/N1386	O-60x2	700	517.24
N1386/N1408	O-60x2	700	517.24
N1430/N1452	O-60x2	700	517.24
N1452/N1474	O-60x2	700	517.24
N1474/N1496	O-60x2	700	517.24
N1496/N1518	O-60x2	700	517.24
N1518/N1540	O-60x2	700	517.24
N1556/N1572	O-60x2	700	517.24
N1572/N1594	O-60x2	700	517.24
N1594/N1616	O-60x2	700	517.24
N1616/N1638	O-60x2	700	517.24
N879/N901	O-60x2	700	517.24
N901/N1796	O-125x4	700	258.26
N1796/N923	O-125x4	700	258.26
N923/N945	O-60x2	700	517.24
N945/N967	O-60x2	700	517.24
N967/N989	O-60x2	700	517.24
N989/N1011	O-60x2	700	517.24
N1033/N1055	O-60x2	700	517.24
N1055/N1077	O-60x2	700	517.24
N1077/N1099	O-60x2	700	517.24
N1099/N1121	O-60x2	700	517.24
N1121/N1143	O-60x2	700	517.24
N1165/N1187	O-60x2	700	517.24
N1187/N1209	O-60x2	700	517.24
N1209/N1231	O-60x2	700	517.24
N1231/N1253	O-60x2	700	517.24
N1253/N1275	O-60x2	700	517.24
N1297/N1319	O-60x2	700	517.24
N1319/N1341	O-60x2	700	517.24
N1341/N1363	O-60x2	700	517.24
N1363/N1385	O-60x2	700	517.24
N1385/N1407	O-60x2	700	517.24
N1429/N1451	O-60x2	700	517.24
N1451/N1473	O-60x2	700	517.24
N1473/N1495	O-60x2	700	517.24
N1495/N1517	O-60x2	700	517.24
N1517/N1539	O-60x2	700	517.24
N1555/N1571	O-60x2	700	517.24
N1571/N1593	O-60x2	700	517.24
N1593/N1615	O-60x2	700	517.24
N1615/N1637	O-60x2	700	517.24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N878/N900	O-60x2	700	517.24
N900/N1800	O-125x4	700	258.26
N1800/N922	O-125x4	700	258.26
N922/N944	O-60x2	700	517.24
N944/N966	O-60x2	700	517.24
N966/N988	O-60x2	700	517.24
N988/N1010	O-60x2	700	517.24
N1032/N1054	O-60x2	700	517.24
N1054/N1076	O-60x2	700	517.24
N1076/N1098	O-60x2	700	517.24
N1098/N1120	O-60x2	700	517.24
N1120/N1142	O-60x2	700	517.24
N1164/N1186	O-60x2	700	517.24
N1186/N1208	O-60x2	700	517.24
N1208/N1230	O-60x2	700	517.24
N1230/N1252	O-60x2	700	517.24
N1252/N1274	O-60x2	700	517.24
N1296/N1318	O-60x2	700	517.24
N1318/N1340	O-60x2	700	517.24
N1340/N1362	O-60x2	700	517.24
N1362/N1384	O-60x2	700	517.24
N1384/N1406	O-60x2	700	517.24
N1428/N1450	O-60x2	700	517.24
N1450/N1472	O-60x2	700	517.24
N1472/N1494	O-60x2	700	517.24
N1494/N1516	O-60x2	700	517.24
N1516/N1538	O-60x2	700	517.24
N1554/N1570	O-60x2	700	517.24
N1570/N1592	O-60x2	700	517.24
N1592/N1614	O-60x2	700	517.24
N1614/N1636	O-60x2	700	517.24
N877/N899	O-60x2	700	517.24
N899/N921	O-60x2	700	517.24
N921/N943	O-60x2	700	517.24
N943/N965	O-60x2	700	517.24
N965/N987	O-60x2	700	517.24
N987/N1009	O-60x2	700	517.24
N1031/N1053	O-60x2	700	517.24
N1053/N1075	O-60x2	700	517.24
N1075/N1097	O-60x2	700	517.24
N1097/N1119	O-60x2	700	517.24
N1119/N1141	O-60x2	700	517.24
N1163/N1185	O-60x2	700	517.24
N1185/N1207	O-60x2	700	517.24
N1207/N1229	O-60x2	700	517.24
N1229/N1251	O-60x2	700	517.24
N1251/N1273	O-60x2	700	517.24
N1295/N1317	O-60x2	700	517.24
N1317/N1339	O-60x2	700	517.24
N1339/N1361	O-60x2	700	517.24
N1361/N1383	O-60x2	700	517.24
N1383/N1405	O-60x2	700	517.24
N1427/N1449	O-60x2	700	517.24
N1449/N1471	O-60x2	700	517.24
N1471/N1493	O-60x2	700	517.24
N1493/N1515	O-60x2	700	517.24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1515/N1537	O-60x2	700	517.24
N1553/N1569	O-60x2	700	517.24
N1569/N1591	O-60x2	700	517.24
N1591/N1613	O-60x2	700	517.24
N1613/N1635	O-60x2	700	517.24
N898/N27	O-40x2	700	526.32
N898/N50	O-40x2	700	526.32
N897/N50	O-40x2	700	526.32
N897/N49	O-40x2	700	526.32
N896/N49	O-40x2	700	526.32
N896/N48	O-40x2	700	526.32
N895/N48	O-40x2	700	526.32
N895/N47	O-40x2	700	526.32
N894/N47	O-40x2	700	526.32
N894/N46	O-40x2	700	526.32
N893/N46	O-40x2	700	526.32
N893/N45	O-40x2	700	526.32
N892/N45	O-40x2	700	526.32
N892/N44	O-40x2	700	526.32
N891/N44	O-40x2	700	526.32
N891/N43	O-40x2	700	526.32
N890/N43	O-40x2	700	526.32
N890/N42	O-40x2	700	526.32
N889/N42	O-40x2	700	526.32
N889/N41	O-40x2	700	526.32
N888/N41	O-40x2	700	526.32
N888/N40	O-40x2	700	526.32
N887/N40	O-40x2	700	526.32
N887/N39	O-40x2	700	526.32
N886/N39	O-40x2	700	526.32
N886/N38	O-40x2	700	526.32
N885/N38	O-40x2	700	526.32
N885/N37	O-40x2	700	526.32
N884/N37	O-40x2	700	526.32
N884/N36	O-40x2	700	526.32
N883/N36	O-40x2	700	526.32
N883/N35	O-40x2	700	526.32
N882/N35	O-40x2	700	526.32
N882/N34	O-40x2	700	526.32
N881/N34	O-40x2	700	526.32
N881/N33	O-40x2	700	526.32
N880/N33	O-40x2	700	526.32
N880/N32	O-40x2	700	526.32
N879/N32	O-40x2	700	526.32
N879/N31	O-40x2	700	526.32
N878/N31	O-40x2	700	526.32
N878/N30	O-40x2	700	526.32
N877/N30	O-40x2	700	526.32
N877/N28	O-40x2	700	526.32
N898/N73	O-40x2	700	526.32
N898/N72	O-40x2	700	526.32
N897/N72	O-40x2	700	526.32
N897/N71	O-40x2	700	526.32
N896/N71	O-40x2	700	526.32
N896/N70	O-40x2	700	526.32
N895/N70	O-40x2	700	526.32

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N895/N69	O-40x2	700	526.32
N894/N69	O-40x2	700	526.32
N894/N68	O-40x2	700	526.32
N893/N68	O-40x2	700	526.32
N893/N67	O-40x2	700	526.32
N892/N67	O-40x2	700	526.32
N892/N66	O-40x2	700	526.32
N891/N66	O-40x2	700	526.32
N891/N65	O-40x2	700	526.32
N890/N65	O-40x2	700	526.32
N890/N64	O-40x2	700	526.32
N889/N64	O-40x2	700	526.32
N889/N63	O-40x2	700	526.32
N888/N63	O-40x2	700	526.32
N888/N62	O-40x2	700	526.32
N887/N62	O-40x2	700	526.32
N887/N61	O-40x2	700	526.32
N886/N61	O-40x2	700	526.32
N886/N60	O-40x2	700	526.32
N885/N60	O-40x2	700	526.32
N885/N59	O-40x2	700	526.32
N884/N59	O-40x2	700	526.32
N884/N58	O-40x2	700	526.32
N883/N58	O-40x2	700	526.32
N883/N57	O-40x2	700	526.32
N882/N57	O-40x2	700	526.32
N882/N56	O-40x2	700	526.32
N881/N56	O-40x2	700	526.32
N881/N55	O-40x2	700	526.32
N880/N55	O-40x2	700	526.32
N880/N54	O-40x2	700	526.32
N879/N54	O-40x2	700	526.32
N879/N53	O-40x2	700	526.32
N878/N53	O-40x2	700	526.32
N878/N52	O-40x2	700	526.32
N877/N52	O-40x2	700	526.32
N877/N51	O-40x2	700	526.32
N920/N73	O-40x2	700	526.32
N920/N72	O-40x2	700	526.32
N919/N72	O-40x2	700	526.32
N919/N71	O-40x2	700	526.32
N918/N71	O-40x2	700	526.32
N918/N70	O-40x2	700	526.32
N917/N70	O-40x2	700	526.32
N917/N69	O-40x2	700	526.32
N916/N69	O-40x2	700	526.32
N916/N68	O-40x2	700	526.32
N915/N68	O-40x2	700	526.32
N915/N67	O-40x2	700	526.32
N914/N67	O-40x2	700	526.32
N914/N66	O-40x2	700	526.32
N913/N66	O-40x2	700	526.32
N913/N65	O-40x2	700	526.32
N912/N65	O-40x2	700	526.32
N912/N64	O-40x2	700	526.32
N911/N64	O-40x2	700	526.32

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N911/N63	O-40x2	700	526.32
N910/N63	O-40x2	700	526.32
N910/N62	O-40x2	700	526.32
N909/N62	O-40x2	700	526.32
N909/N61	O-40x2	700	526.32
N908/N61	O-40x2	700	526.32
N908/N60	O-40x2	700	526.32
N907/N60	O-40x2	700	526.32
N907/N59	O-40x2	700	526.32
N906/N59	O-40x2	700	526.32
N906/N58	O-40x2	700	526.32
N905/N58	O-40x2	700	526.32
N905/N57	O-40x2	700	526.32
N904/N57	O-40x2	700	526.32
N904/N56	O-40x2	700	526.32
N903/N56	O-40x2	700	526.32
N903/N55	O-40x2	700	526.32
N902/N55	O-40x2	700	526.32
N902/N54	O-40x2	700	526.32
N901/N54	O-40x2	700	526.32
N901/N53	O-40x2	700	526.32
N900/N53	O-40x2	700	526.32
N900/N52	O-40x2	700	526.32
N899/N52	O-40x2	700	526.32
N899/N51	O-40x2	700	526.32
N920/N96	O-40x2	700	526.32
N920/N95	O-40x2	700	526.32
N919/N95	O-40x2	700	526.32
N919/N94	O-40x2	700	526.32
N918/N94	O-40x2	700	526.32
N918/N93	O-40x2	700	526.32
N917/N93	O-40x2	700	526.32
N917/N92	O-40x2	700	526.32
N916/N92	O-40x2	700	526.32
N916/N91	O-40x2	700	526.32
N915/N91	O-40x2	700	526.32
N915/N90	O-40x2	700	526.32
N914/N90	O-40x2	700	526.32
N914/N89	O-40x2	700	526.32
N913/N89	O-40x2	700	526.32
N913/N88	O-40x2	700	526.32
N912/N88	O-40x2	700	526.32
N912/N87	O-40x2	700	526.32
N911/N87	O-40x2	700	526.32
N911/N86	O-40x2	700	526.32
N910/N86	O-40x2	700	526.32
N910/N85	O-40x2	700	526.32
N909/N85	O-40x2	700	526.32
N909/N84	O-40x2	700	526.32
N908/N84	O-40x2	700	526.32
N908/N83	O-40x2	700	526.32
N907/N83	O-40x2	700	526.32
N907/N82	O-40x2	700	526.32
N906/N82	O-40x2	700	526.32
N906/N81	O-40x2	700	526.32
N905/N81	O-40x2	700	526.32

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N905/N80	O-40x2	700	526.32
N904/N80	O-40x2	700	526.32
N904/N79	O-40x2	700	526.32
N903/N79	O-40x2	700	526.32
N903/N78	O-40x2	700	526.32
N902/N78	O-40x2	700	526.32
N902/N77	O-40x2	700	526.32
N901/N77	O-40x2	700	526.32
N901/N76	O-40x2	700	526.32
N900/N76	O-40x2	700	526.32
N900/N75	O-40x2	700	526.32
N899/N75	O-40x2	700	526.32
N899/N74	O-40x2	700	526.32
N942/N96	O-40x2	700	526.32
N942/N95	O-40x2	700	526.32
N941/N95	O-40x2	700	526.32
N941/N94	O-40x2	700	526.32
N940/N94	O-40x2	700	526.32
N940/N93	O-40x2	700	526.32
N939/N93	O-40x2	700	526.32
N939/N92	O-40x2	700	526.32
N938/N92	O-40x2	700	526.32
N938/N91	O-40x2	700	526.32
N937/N91	O-40x2	700	526.32
N937/N90	O-40x2	700	526.32
N936/N90	O-40x2	700	526.32
N936/N89	O-40x2	700	526.32
N935/N89	O-40x2	700	526.32
N935/N88	O-40x2	700	526.32
N934/N88	O-40x2	700	526.32
N934/N87	O-40x2	700	526.32
N933/N87	O-40x2	700	526.32
N933/N86	O-40x2	700	526.32
N932/N86	O-40x2	700	526.32
N932/N85	O-40x2	700	526.32
N931/N85	O-40x2	700	526.32
N931/N84	O-40x2	700	526.32
N930/N84	O-40x2	700	526.32
N930/N83	O-40x2	700	526.32
N929/N83	O-40x2	700	526.32
N929/N82	O-40x2	700	526.32
N928/N82	O-40x2	700	526.32
N928/N81	O-40x2	700	526.32
N927/N81	O-40x2	700	526.32
N927/N80	O-40x2	700	526.32
N926/N80	O-40x2	700	526.32
N926/N79	O-40x2	700	526.32
N925/N79	O-40x2	700	526.32
N925/N78	O-40x2	700	526.32
N924/N78	O-40x2	700	526.32
N924/N77	O-40x2	700	526.32
N923/N77	O-40x2	700	526.32
N923/N76	O-40x2	700	526.32
N922/N76	O-40x2	700	526.32
N922/N75	O-40x2	700	526.32
N921/N75	O-40x2	700	526.32

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N921/N74	O-40x2	700	526.32
N942/N119	O-40x2	700	526.32
N942/N118	O-40x2	700	526.32
N941/N118	O-40x2	700	526.32
N941/N117	O-40x2	636	526.32
N940/N117	O-40x2	700	526.32
N940/N116	O-40x2	656	526.32
N939/N116	O-40x2	700	526.32
N939/N115	O-40x2	672	526.32
N938/N115	O-40x2	700	526.32
N938/N114	O-40x2	679	526.32
N937/N114	O-40x2	700	526.32
N937/N113	O-40x2	669	526.32
N936/N113	O-40x2	700	526.32
N936/N112	O-40x2	652	526.32
N935/N112	O-40x2	700	526.32
N935/N111	O-40x2	664	526.32
N934/N111	O-40x2	700	526.32
N934/N110	O-40x2	674	526.32
N933/N110	O-40x2	692	526.32
N933/N109	O-40x2	678	526.32
N932/N109	O-40x2	682	526.32
N932/N108	O-40x2	668	526.32
N931/N108	O-40x2	696	526.32
N931/N107	O-40x2	653	526.32
N930/N107	O-40x2	700	526.32
N930/N106	O-40x2	668	526.32
N929/N106	O-40x2	700	526.32
N929/N105	O-40x2	683	526.32
N928/N105	O-40x2	700	526.32
N928/N104	O-40x2	696	526.32
N927/N104	O-40x2	693	526.32
N927/N103	O-40x2	695	526.32
N926/N103	O-40x2	700	526.32
N926/N102	O-40x2	687	526.32
N925/N102	O-40x2	700	526.32
N925/N101	O-40x2	700	526.32
N924/N101	O-40x2	700	526.32
N924/N100	O-40x2	700	526.32
N923/N100	O-40x2	700	526.32
N923/N99	O-40x2	700	526.32
N922/N99	O-40x2	700	526.32
N922/N98	O-40x2	700	526.32
N921/N98	O-40x2	700	526.32
N921/N97	O-40x2	700	526.32
N964/N119	O-40x2	700	526.32
N964/N118	O-40x2	700	526.32
N963/N118	O-40x2	700	526.32
N963/N117	O-40x2	700	526.32
N962/N117	O-40x2	700	526.32
N962/N116	O-40x2	700	526.32
N961/N116	O-40x2	700	526.32
N961/N115	O-40x2	700	526.32
N960/N115	O-40x2	700	526.32
N960/N114	O-40x2	700	526.32
N959/N114	O-40x2	700	526.32

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N959/N113	O-40x2	700	526.32
N958/N113	O-40x2	700	526.32
N958/N112	O-40x2	700	526.32
N957/N112	O-40x2	700	526.32
N957/N111	O-40x2	700	526.32
N956/N111	O-40x2	700	526.32
N956/N110	O-40x2	700	526.32
N955/N110	O-40x2	700	526.32
N955/N109	O-40x2	700	526.32
N954/N109	O-40x2	700	526.32
N954/N108	O-40x2	700	526.32
N953/N108	O-40x2	700	526.32
N953/N107	O-40x2	700	526.32
N952/N107	O-40x2	700	526.32
N952/N106	O-40x2	700	526.32
N951/N106	O-40x2	700	526.32
N951/N105	O-40x2	700	526.32
N950/N105	O-40x2	700	526.32
N950/N104	O-40x2	700	526.32
N949/N104	O-40x2	700	526.32
N949/N103	O-40x2	700	526.32
N948/N103	O-40x2	700	526.32
N948/N102	O-40x2	700	526.32
N947/N102	O-40x2	700	526.32
N947/N101	O-40x2	700	526.32
N946/N101	O-40x2	700	526.32
N946/N100	O-40x2	700	526.32
N945/N100	O-40x2	700	526.32
N945/N99	O-40x2	700	526.32
N944/N99	O-40x2	700	526.32
N944/N98	O-40x2	700	526.32
N943/N98	O-40x2	700	526.32
N943/N97	O-40x2	700	526.32
N964/N142	O-40x2	700	526.32
N964/N141	O-40x2	700	526.32
N963/N141	O-40x2	700	526.32
N963/N140	O-40x2	674	526.32
N962/N140	O-40x2	700	526.32
N962/N139	O-40x2	673	526.32
N961/N139	O-40x2	700	526.32
N961/N138	O-40x2	678	526.32
N960/N138	O-40x2	700	526.32
N960/N137	O-40x2	682	526.32
N959/N137	O-40x2	700	526.32
N959/N136	O-40x2	680	526.32
N958/N136	O-40x2	700	526.32
N958/N135	O-40x2	676	526.32
N957/N135	O-40x2	700	526.32
N957/N134	O-40x2	676	526.32
N956/N134	O-40x2	700	526.32
N956/N133	O-40x2	679	526.32
N955/N133	O-40x2	700	526.32
N955/N132	O-40x2	680	526.32
N954/N132	O-40x2	700	526.32
N954/N131	O-40x2	678	526.32
N953/N131	O-40x2	700	526.32

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N953/N130	O-40x2	676	526.32
N952/N130	O-40x2	700	526.32
N952/N129	O-40x2	679	526.32
N951/N129	O-40x2	700	526.32
N951/N128	O-40x2	687	526.32
N950/N128	O-40x2	700	526.32
N950/N127	O-40x2	694	526.32
N949/N127	O-40x2	700	526.32
N949/N126	O-40x2	700	526.32
N948/N126	O-40x2	700	526.32
N948/N125	O-40x2	700	526.32
N947/N125	O-40x2	700	526.32
N947/N124	O-40x2	700	526.32
N946/N124	O-40x2	700	526.32
N946/N123	O-40x2	700	526.32
N945/N123	O-40x2	700	526.32
N945/N122	O-40x2	700	526.32
N944/N122	O-40x2	700	526.32
N944/N121	O-40x2	700	526.32
N943/N121	O-40x2	700	526.32
N943/N120	O-40x2	700	526.32
N986/N142	O-40x2	700	526.32
N986/N141	O-40x2	700	526.32
N985/N141	O-40x2	700	526.32
N985/N140	O-40x2	700	526.32
N984/N140	O-40x2	700	526.32
N984/N139	O-40x2	700	526.32
N983/N139	O-40x2	700	526.32
N983/N138	O-40x2	700	526.32
N982/N138	O-40x2	700	526.32
N982/N137	O-40x2	700	526.32
N981/N137	O-40x2	700	526.32
N981/N136	O-40x2	700	526.32
N980/N136	O-40x2	700	526.32
N980/N135	O-40x2	700	526.32
N979/N135	O-40x2	700	526.32
N979/N134	O-40x2	700	526.32
N978/N134	O-40x2	700	526.32
N978/N133	O-40x2	700	526.32
N977/N133	O-40x2	700	526.32
N977/N132	O-40x2	700	526.32
N976/N132	O-40x2	700	526.32
N976/N131	O-40x2	700	526.32
N975/N131	O-40x2	700	526.32
N975/N130	O-40x2	700	526.32
N974/N130	O-40x2	700	526.32
N974/N129	O-40x2	700	526.32
N973/N129	O-40x2	700	526.32
N973/N128	O-40x2	700	526.32
N972/N128	O-40x2	700	526.32
N972/N127	O-40x2	700	526.32
N971/N127	O-40x2	700	526.32
N971/N126	O-40x2	700	526.32
N970/N126	O-40x2	700	526.32
N970/N125	O-40x2	700	526.32
N969/N125	O-40x2	700	526.32

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N969/N124	O-40x2	700	526.32
N968/N124	O-40x2	700	526.32
N968/N123	O-40x2	700	526.32
N967/N123	O-40x2	700	526.32
N967/N122	O-40x2	700	526.32
N966/N122	O-40x2	700	526.32
N966/N121	O-40x2	700	526.32
N965/N121	O-40x2	700	526.32
N965/N120	O-40x2	700	526.32
N986/N165	O-40x2	700	526.32
N986/N164	O-40x2	700	526.32
N985/N164	O-40x2	700	526.32
N985/N163	O-40x2	700	526.32
N984/N163	O-40x2	700	526.32
N984/N162	O-40x2	692	526.32
N983/N162	O-40x2	700	526.32
N983/N161	O-40x2	690	526.32
N982/N161	O-40x2	700	526.32
N982/N160	O-40x2	690	526.32
N981/N160	O-40x2	700	526.32
N981/N159	O-40x2	691	526.32
N980/N159	O-40x2	700	526.32
N980/N158	O-40x2	691	526.32
N979/N158	O-40x2	700	526.32
N979/N157	O-40x2	689	526.32
N978/N157	O-40x2	700	526.32
N978/N156	O-40x2	688	526.32
N977/N156	O-40x2	700	526.32
N977/N155	O-40x2	688	526.32
N976/N155	O-40x2	700	526.32
N976/N154	O-40x2	688	526.32
N975/N154	O-40x2	700	526.32
N975/N153	O-40x2	687	526.32
N974/N153	O-40x2	700	526.32
N974/N152	O-40x2	687	526.32
N973/N152	O-40x2	700	526.32
N973/N151	O-40x2	690	526.32
N972/N151	O-40x2	700	526.32
N972/N150	O-40x2	695	526.32
N971/N150	O-40x2	700	526.32
N971/N149	O-40x2	700	526.32
N970/N149	O-40x2	700	526.32
N970/N148	O-40x2	700	526.32
N969/N148	O-40x2	700	526.32
N969/N147	O-40x2	700	526.32
N968/N147	O-40x2	700	526.32
N968/N146	O-40x2	700	526.32
N967/N146	O-40x2	700	526.32
N967/N145	O-40x2	700	526.32
N966/N145	O-40x2	700	526.32
N966/N144	O-40x2	700	526.32
N965/N144	O-40x2	700	526.32
N965/N143	O-40x2	700	526.32
N1008/N165	O-40x2	700	526.32
N1008/N164	O-40x2	700	526.32
N1007/N164	O-40x2	700	526.32

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1007/N163	O-40x2	699	526.32
N1006/N163	O-40x2	700	526.32
N1006/N162	O-40x2	698	526.32
N1005/N162	O-40x2	700	526.32
N1005/N161	O-40x2	700	526.32
N1004/N161	O-40x2	700	526.32
N1004/N160	O-40x2	700	526.32
N1003/N160	O-40x2	700	526.32
N1003/N159	O-40x2	700	526.32
N1002/N159	O-40x2	700	526.32
N1002/N158	O-40x2	700	526.32
N1001/N158	O-40x2	700	526.32
N1001/N157	O-40x2	700	526.32
N1000/N157	O-40x2	700	526.32
N1000/N156	O-40x2	700	526.32
N999/N156	O-40x2	700	526.32
N999/N155	O-40x2	700	526.32
N998/N155	O-40x2	700	526.32
N998/N154	O-40x2	700	526.32
N997/N154	O-40x2	700	526.32
N997/N153	O-40x2	700	526.32
N996/N153	O-40x2	700	526.32
N996/N152	O-40x2	700	526.32
N995/N152	O-40x2	700	526.32
N995/N151	O-40x2	700	526.32
N994/N151	O-40x2	700	526.32
N994/N150	O-40x2	700	526.32
N993/N150	O-40x2	700	526.32
N993/N149	O-40x2	700	526.32
N992/N149	O-40x2	700	526.32
N992/N148	O-40x2	700	526.32
N991/N148	O-40x2	700	526.32
N991/N147	O-40x2	700	526.32
N990/N147	O-40x2	700	526.32
N990/N146	O-40x2	700	526.32
N989/N146	O-40x2	700	526.32
N989/N145	O-40x2	700	526.32
N988/N145	O-40x2	700	526.32
N988/N144	O-40x2	700	526.32
N987/N144	O-40x2	700	526.32
N987/N143	O-40x2	700	526.32
N1008/N188	O-40x2	700	526.32
N1008/N187	O-40x2	700	526.32
N1007/N187	O-40x2	700	526.32
N1007/N186	O-40x2	700	526.32
N1006/N186	O-40x2	700	526.32
N1006/N185	O-40x2	700	526.32
N1005/N185	O-40x2	700	526.32
N1005/N184	O-40x2	700	526.32
N1004/N184	O-40x2	700	526.32
N1004/N183	O-40x2	700	526.32
N1003/N183	O-40x2	700	526.32
N1003/N182	O-40x2	700	526.32
N1002/N182	O-40x2	700	526.32
N1002/N181	O-40x2	700	526.32
N1001/N181	O-40x2	700	526.32

Listados
Coberta de 46'8x28'6 malla tetràedres
Fecha: 20/12/24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1001/N180	O-40x2	700	526.32
N1000/N180	O-40x2	700	526.32
N1000/N179	O-40x2	698	526.32
N999/N179	O-40x2	700	526.32
N999/N178	O-40x2	697	526.32
N998/N178	O-40x2	700	526.32
N998/N177	O-40x2	696	526.32
N997/N177	O-40x2	700	526.32
N997/N176	O-40x2	694	526.32
N996/N176	O-40x2	700	526.32
N996/N175	O-40x2	691	526.32
N995/N175	O-40x2	700	526.32
N995/N174	O-40x2	690	526.32
N994/N174	O-40x2	700	526.32
N994/N173	O-40x2	691	526.32
N993/N173	O-40x2	700	526.32
N993/N172	O-40x2	696	526.32
N992/N172	O-40x2	700	526.32
N992/N171	O-40x2	700	526.32
N991/N171	O-40x2	700	526.32
N991/N170	O-40x2	700	526.32
N990/N170	O-40x2	700	526.32
N990/N169	O-40x2	700	526.32
N989/N169	O-40x2	700	526.32
N989/N168	O-40x2	700	526.32
N988/N168	O-40x2	700	526.32
N988/N167	O-40x2	700	526.32
N987/N167	O-40x2	700	526.32
N987/N166	O-40x2	700	526.32
N1030/N188	O-40x2	700	526.32
N1030/N187	O-40x2	700	526.32
N1029/N187	O-40x2	700	526.32
N1029/N186	O-40x2	661	526.32
N1028/N186	O-40x2	700	526.32
N1028/N185	O-40x2	671	526.32
N1027/N185	O-40x2	700	526.32
N1027/N184	O-40x2	678	526.32
N1026/N184	O-40x2	700	526.32
N1026/N183	O-40x2	679	526.32
N1025/N183	O-40x2	700	526.32
N1025/N182	O-40x2	680	526.32
N1024/N182	O-40x2	700	526.32
N1024/N181	O-40x2	686	526.32
N1023/N181	O-40x2	700	526.32
N1023/N180	O-40x2	694	526.32
N1022/N180	O-40x2	700	526.32
N1022/N179	O-40x2	700	526.32
N1021/N179	O-40x2	700	526.32
N1021/N178	O-40x2	700	526.32
N1020/N178	O-40x2	700	526.32
N1020/N177	O-40x2	700	526.32
N1019/N177	O-40x2	700	526.32
N1019/N176	O-40x2	700	526.32
N1018/N176	O-40x2	696	526.32
N1018/N175	O-40x2	700	526.32
N1017/N175	O-40x2	690	526.32

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1017/N174	O-40x2	700	526.32
N1016/N174	O-40x2	684	526.32
N1016/N173	O-40x2	700	526.32
N1015/N173	O-40x2	677	526.32
N1015/N172	O-40x2	700	526.32
N1014/N172	O-40x2	672	526.32
N1014/N171	O-40x2	700	526.32
N1013/N171	O-40x2	668	526.32
N1013/N170	O-40x2	700	526.32
N1012/N170	O-40x2	664	526.32
N1012/N169	O-40x2	700	526.32
N1011/N169	O-40x2	659	526.32
N1011/N168	O-40x2	700	526.32
N1010/N168	O-40x2	660	526.32
N1010/N167	O-40x2	700	526.32
N1009/N167	O-40x2	700	526.32
N1009/N166	O-40x2	700	526.32
N1030/N211	O-40x2	700	526.32
N1030/N210	O-40x2	700	526.32
N1029/N210	O-40x2	700	526.32
N1029/N209	O-40x2	700	526.32
N1028/N209	O-40x2	700	526.32
N1028/N208	O-40x2	700	526.32
N1027/N208	O-40x2	700	526.32
N1027/N207	O-40x2	700	526.32
N1026/N207	O-40x2	700	526.32
N1026/N206	O-40x2	700	526.32
N1025/N206	O-40x2	700	526.32
N1025/N205	O-40x2	700	526.32
N1024/N205	O-40x2	700	526.32
N1024/N204	O-40x2	700	526.32
N1023/N204	O-40x2	700	526.32
N1023/N203	O-40x2	700	526.32
N1022/N203	O-40x2	700	526.32
N1022/N202	O-40x2	700	526.32
N1021/N202	O-40x2	700	526.32
N1021/N201	O-40x2	700	526.32
N1020/N201	O-40x2	700	526.32
N1020/N200	O-40x2	700	526.32
N1019/N200	O-40x2	700	526.32
N1019/N199	O-40x2	700	526.32
N1018/N199	O-40x2	700	526.32
N1018/N198	O-40x2	700	526.32
N1017/N198	O-40x2	700	526.32
N1017/N197	O-40x2	700	526.32
N1016/N197	O-40x2	700	526.32
N1016/N196	O-40x2	700	526.32
N1015/N196	O-40x2	700	526.32
N1015/N195	O-40x2	700	526.32
N1014/N195	O-40x2	700	526.32
N1014/N194	O-40x2	700	526.32
N1013/N194	O-40x2	700	526.32
N1013/N193	O-40x2	700	526.32
N1012/N193	O-40x2	700	526.32
N1012/N192	O-40x2	700	526.32
N1011/N192	O-40x2	700	526.32

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1011/N191	O-40x2	700	526.32
N1010/N191	O-40x2	700	526.32
N1010/N190	O-40x2	700	526.32
N1009/N190	O-40x2	700	526.32
N1009/N189	O-40x2	700	526.32
N1052/N211	O-40x2	700	526.32
N1052/N210	O-40x2	700	526.32
N1051/N210	O-40x2	688	526.32
N1051/N209	O-40x2	700	526.32
N1050/N209	O-40x2	700	526.32
N1050/N208	O-40x2	700	526.32
N1049/N208	O-40x2	700	526.32
N1049/N207	O-40x2	700	526.32
N1048/N207	O-40x2	700	526.32
N1048/N206	O-40x2	700	526.32
N1047/N206	O-40x2	700	526.32
N1047/N205	O-40x2	700	526.32
N1046/N205	O-40x2	700	526.32
N1046/N204	O-40x2	700	526.32
N1045/N204	O-40x2	700	526.32
N1045/N203	O-40x2	700	526.32
N1044/N203	O-40x2	700	526.32
N1044/N202	O-40x2	700	526.32
N1043/N202	O-40x2	700	526.32
N1043/N201	O-40x2	700	526.32
N1042/N201	O-40x2	700	526.32
N1042/N200	O-40x2	700	526.32
N1041/N200	O-40x2	700	526.32
N1041/N199	O-40x2	700	526.32
N1040/N199	O-40x2	700	526.32
N1040/N198	O-40x2	700	526.32
N1039/N198	O-40x2	700	526.32
N1039/N197	O-40x2	700	526.32
N1038/N197	O-40x2	700	526.32
N1038/N196	O-40x2	700	526.32
N1037/N196	O-40x2	700	526.32
N1037/N195	O-40x2	700	526.32
N1036/N195	O-40x2	700	526.32
N1036/N194	O-40x2	700	526.32
N1035/N194	O-40x2	700	526.32
N1035/N193	O-40x2	700	526.32
N1034/N193	O-40x2	700	526.32
N1034/N192	O-40x2	700	526.32
N1033/N192	O-40x2	700	526.32
N1033/N191	O-40x2	700	526.32
N1032/N191	O-40x2	692	526.32
N1032/N190	O-40x2	700	526.32
N1031/N190	O-40x2	700	526.32
N1031/N189	O-40x2	700	526.32
N1052/N234	O-40x2	700	526.32
N1052/N233	O-40x2	695	526.32
N1051/N233	O-40x2	700	526.32
N1051/N232	O-40x2	595	526.32
N1050/N232	O-40x2	700	526.32
N1050/N231	O-40x2	610	526.32
N1049/N231	O-40x2	700	526.32

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1049/N230	O-40x2	630	526.32
N1048/N230	O-40x2	700	526.32
N1048/N229	O-40x2	644	526.32
N1047/N229	O-40x2	700	526.32
N1047/N228	O-40x2	655	526.32
N1046/N228	O-40x2	700	526.32
N1046/N227	O-40x2	665	526.32
N1045/N227	O-40x2	700	526.32
N1045/N226	O-40x2	676	526.32
N1044/N226	O-40x2	700	526.32
N1044/N225	O-40x2	687	526.32
N1043/N225	O-40x2	700	526.32
N1043/N224	O-40x2	700	526.32
N1042/N224	O-40x2	700	526.32
N1042/N223	O-40x2	700	526.32
N1041/N223	O-40x2	700	526.32
N1041/N222	O-40x2	700	526.32
N1040/N222	O-40x2	700	526.32
N1040/N221	O-40x2	700	526.32
N1039/N221	O-40x2	700	526.32
N1039/N220	O-40x2	700	526.32
N1038/N220	O-40x2	700	526.32
N1038/N219	O-40x2	700	526.32
N1037/N219	O-40x2	697	526.32
N1037/N218	O-40x2	700	526.32
N1036/N218	O-40x2	687	526.32
N1036/N217	O-40x2	700	526.32
N1035/N217	O-40x2	677	526.32
N1035/N216	O-40x2	700	526.32
N1034/N216	O-40x2	664	526.32
N1034/N215	O-40x2	700	526.32
N1033/N215	O-40x2	647	526.32
N1033/N214	O-40x2	700	526.32
N1032/N214	O-40x2	638	526.32
N1032/N213	O-40x2	700	526.32
N1031/N213	O-40x2	700	526.32
N1031/N212	O-40x2	700	526.32
N1074/N234	O-40x2	700	526.32
N1074/N233	O-40x2	700	526.32
N1073/N233	O-40x2	700	526.32
N1073/N232	O-40x2	700	526.32
N1072/N232	O-40x2	700	526.32
N1072/N231	O-40x2	700	526.32
N1071/N231	O-40x2	700	526.32
N1071/N230	O-40x2	700	526.32
N1070/N230	O-40x2	700	526.32
N1070/N229	O-40x2	700	526.32
N1069/N229	O-40x2	698	526.32
N1069/N228	O-40x2	700	526.32
N1068/N228	O-40x2	700	526.32
N1068/N227	O-40x2	700	526.32
N1067/N227	O-40x2	700	526.32
N1067/N226	O-40x2	700	526.32
N1066/N226	O-40x2	700	526.32
N1066/N225	O-40x2	700	526.32
N1065/N225	O-40x2	700	526.32

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1065/N224	O-40x2	700	526.32
N1064/N224	O-40x2	700	526.32
N1064/N223	O-40x2	700	526.32
N1063/N223	O-40x2	700	526.32
N1063/N222	O-40x2	700	526.32
N1062/N222	O-40x2	700	526.32
N1062/N221	O-40x2	700	526.32
N1061/N221	O-40x2	700	526.32
N1061/N220	O-40x2	700	526.32
N1060/N220	O-40x2	700	526.32
N1060/N219	O-40x2	700	526.32
N1059/N219	O-40x2	700	526.32
N1059/N218	O-40x2	700	526.32
N1058/N218	O-40x2	700	526.32
N1058/N217	O-40x2	700	526.32
N1057/N217	O-40x2	700	526.32
N1057/N216	O-40x2	700	526.32
N1056/N216	O-40x2	700	526.32
N1056/N215	O-40x2	700	526.32
N1055/N215	O-40x2	700	526.32
N1055/N214	O-40x2	700	526.32
N1054/N214	O-40x2	700	526.32
N1054/N213	O-40x2	700	526.32
N1053/N213	O-40x2	700	526.32
N1053/N212	O-40x2	700	526.32
N1074/N257	O-40x2	700	526.32
N1074/N256	O-40x2	696	526.32
N1073/N256	O-40x2	700	526.32
N1073/N255	O-40x2	665	526.32
N1072/N255	O-40x2	700	526.32
N1072/N254	O-40x2	658	526.32
N1071/N254	O-40x2	700	526.32
N1071/N253	O-40x2	666	526.32
N1070/N253	O-40x2	700	526.32
N1070/N252	O-40x2	676	526.32
N1069/N252	O-40x2	700	526.32
N1069/N251	O-40x2	685	526.32
N1068/N251	O-40x2	700	526.32
N1068/N250	O-40x2	693	526.32
N1067/N250	O-40x2	700	526.32
N1067/N249	O-40x2	700	526.32
N1066/N249	O-40x2	700	526.32
N1066/N248	O-40x2	700	526.32
N1065/N248	O-40x2	700	526.32
N1065/N247	O-40x2	700	526.32
N1064/N247	O-40x2	700	526.32
N1064/N246	O-40x2	700	526.32
N1063/N246	O-40x2	700	526.32
N1063/N245	O-40x2	700	526.32
N1062/N245	O-40x2	700	526.32
N1062/N244	O-40x2	700	526.32
N1061/N244	O-40x2	700	526.32
N1061/N243	O-40x2	700	526.32
N1060/N243	O-40x2	700	526.32
N1060/N242	O-40x2	700	526.32
N1059/N242	O-40x2	700	526.32

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1059/N241	O-40x2	700	526.32
N1058/N241	O-40x2	700	526.32
N1058/N240	O-40x2	700	526.32
N1057/N240	O-40x2	700	526.32
N1057/N239	O-40x2	700	526.32
N1056/N239	O-40x2	700	526.32
N1056/N238	O-40x2	700	526.32
N1055/N238	O-40x2	698	526.32
N1055/N237	O-40x2	700	526.32
N1054/N237	O-40x2	700	526.32
N1054/N236	O-40x2	700	526.32
N1053/N236	O-40x2	700	526.32
N1053/N235	O-40x2	700	526.32
N1096/N257	O-40x2	700	526.32
N1096/N256	O-40x2	700	526.32
N1095/N256	O-40x2	700	526.32
N1095/N255	O-40x2	700	526.32
N1094/N255	O-40x2	700	526.32
N1094/N254	O-40x2	700	526.32
N1093/N254	O-40x2	700	526.32
N1093/N253	O-40x2	700	526.32
N1092/N253	O-40x2	700	526.32
N1092/N252	O-40x2	700	526.32
N1091/N252	O-40x2	700	526.32
N1091/N251	O-40x2	700	526.32
N1090/N251	O-40x2	700	526.32
N1090/N250	O-40x2	700	526.32
N1089/N250	O-40x2	700	526.32
N1089/N249	O-40x2	700	526.32
N1088/N249	O-40x2	700	526.32
N1088/N248	O-40x2	700	526.32
N1087/N248	O-40x2	700	526.32
N1087/N247	O-40x2	700	526.32
N1086/N247	O-40x2	700	526.32
N1086/N246	O-40x2	700	526.32
N1085/N246	O-40x2	700	526.32
N1085/N245	O-40x2	700	526.32
N1084/N245	O-40x2	700	526.32
N1084/N244	O-40x2	700	526.32
N1083/N244	O-40x2	700	526.32
N1083/N243	O-40x2	700	526.32
N1082/N243	O-40x2	700	526.32
N1082/N242	O-40x2	700	526.32
N1081/N242	O-40x2	700	526.32
N1081/N241	O-40x2	700	526.32
N1080/N241	O-40x2	700	526.32
N1080/N240	O-40x2	700	526.32
N1079/N240	O-40x2	700	526.32
N1079/N239	O-40x2	700	526.32
N1078/N239	O-40x2	700	526.32
N1078/N238	O-40x2	700	526.32
N1077/N238	O-40x2	700	526.32
N1077/N237	O-40x2	700	526.32
N1076/N237	O-40x2	700	526.32
N1076/N236	O-40x2	700	526.32
N1075/N236	O-40x2	700	526.32

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1075/N235	O-40x2	700	526.32
N1096/N280	O-40x2	700	526.32
N1096/N279	O-40x2	700	526.32
N1095/N279	O-40x2	700	526.32
N1095/N278	O-40x2	700	526.32
N1094/N278	O-40x2	700	526.32
N1094/N277	O-40x2	696	526.32
N1093/N277	O-40x2	700	526.32
N1093/N276	O-40x2	694	526.32
N1092/N276	O-40x2	700	526.32
N1092/N275	O-40x2	698	526.32
N1091/N275	O-40x2	700	526.32
N1091/N274	O-40x2	700	526.32
N1090/N274	O-40x2	700	526.32
N1090/N273	O-40x2	700	526.32
N1089/N273	O-40x2	700	526.32
N1089/N272	O-40x2	700	526.32
N1088/N272	O-40x2	700	526.32
N1088/N271	O-40x2	700	526.32
N1087/N271	O-40x2	700	526.32
N1087/N270	O-40x2	700	526.32
N1086/N270	O-40x2	700	526.32
N1086/N269	O-40x2	700	526.32
N1085/N269	O-40x2	700	526.32
N1085/N268	O-40x2	700	526.32
N1084/N268	O-40x2	700	526.32
N1084/N267	O-40x2	700	526.32
N1083/N267	O-40x2	700	526.32
N1083/N266	O-40x2	700	526.32
N1082/N266	O-40x2	700	526.32
N1082/N265	O-40x2	700	526.32
N1081/N265	O-40x2	700	526.32
N1081/N264	O-40x2	700	526.32
N1080/N264	O-40x2	700	526.32
N1080/N263	O-40x2	700	526.32
N1079/N263	O-40x2	700	526.32
N1079/N262	O-40x2	700	526.32
N1078/N262	O-40x2	700	526.32
N1078/N261	O-40x2	700	526.32
N1077/N261	O-40x2	700	526.32
N1077/N260	O-40x2	700	526.32
N1076/N260	O-40x2	700	526.32
N1076/N259	O-40x2	700	526.32
N1075/N259	O-40x2	700	526.32
N1075/N258	O-40x2	700	526.32
N1118/N280	O-40x2	700	526.32
N1118/N279	O-40x2	700	526.32
N1117/N279	O-40x2	700	526.32
N1117/N278	O-40x2	700	526.32
N1116/N278	O-40x2	700	526.32
N1116/N277	O-40x2	700	526.32
N1115/N277	O-40x2	700	526.32
N1115/N276	O-40x2	700	526.32
N1114/N276	O-40x2	700	526.32
N1114/N275	O-40x2	700	526.32
N1113/N275	O-40x2	700	526.32

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1113/N274	O-40x2	700	526.32
N1112/N274	O-40x2	700	526.32
N1112/N273	O-40x2	700	526.32
N1111/N273	O-40x2	700	526.32
N1111/N272	O-40x2	700	526.32
N1110/N272	O-40x2	700	526.32
N1110/N271	O-40x2	700	526.32
N1109/N271	O-40x2	700	526.32
N1109/N270	O-40x2	700	526.32
N1108/N270	O-40x2	700	526.32
N1108/N269	O-40x2	700	526.32
N1107/N269	O-40x2	700	526.32
N1107/N268	O-40x2	700	526.32
N1106/N268	O-40x2	700	526.32
N1106/N267	O-40x2	700	526.32
N1105/N267	O-40x2	700	526.32
N1105/N266	O-40x2	700	526.32
N1104/N266	O-40x2	700	526.32
N1104/N265	O-40x2	700	526.32
N1103/N265	O-40x2	700	526.32
N1103/N264	O-40x2	700	526.32
N1102/N264	O-40x2	700	526.32
N1102/N263	O-40x2	700	526.32
N1101/N263	O-40x2	700	526.32
N1101/N262	O-40x2	700	526.32
N1100/N262	O-40x2	700	526.32
N1100/N261	O-40x2	700	526.32
N1099/N261	O-40x2	700	526.32
N1099/N260	O-40x2	700	526.32
N1098/N260	O-40x2	700	526.32
N1098/N259	O-40x2	700	526.32
N1097/N259	O-40x2	700	526.32
N1097/N258	O-40x2	700	526.32
N1118/N303	O-40x2	700	526.32
N1118/N302	O-40x2	700	526.32
N1117/N302	O-40x2	700	526.32
N1117/N301	O-40x2	700	526.32
N1116/N301	O-40x2	700	526.32
N1116/N300	O-40x2	700	526.32
N1115/N300	O-40x2	700	526.32
N1115/N299	O-40x2	700	526.32
N1114/N299	O-40x2	700	526.32
N1114/N298	O-40x2	700	526.32
N1113/N298	O-40x2	700	526.32
N1113/N297	O-40x2	700	526.32
N1112/N297	O-40x2	700	526.32
N1112/N296	O-40x2	700	526.32
N1111/N296	O-40x2	700	526.32
N1111/N295	O-40x2	700	526.32
N1110/N295	O-40x2	700	526.32
N1110/N294	O-40x2	700	526.32
N1109/N294	O-40x2	700	526.32
N1109/N293	O-40x2	700	526.32
N1108/N293	O-40x2	700	526.32
N1108/N292	O-40x2	700	526.32
N1107/N292	O-40x2	700	526.32

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1107/N291	O-40x2	700	526.32
N1106/N291	O-40x2	700	526.32
N1106/N290	O-40x2	700	526.32
N1105/N290	O-40x2	700	526.32
N1105/N289	O-40x2	700	526.32
N1104/N289	O-40x2	700	526.32
N1104/N288	O-40x2	700	526.32
N1103/N288	O-40x2	700	526.32
N1103/N287	O-40x2	700	526.32
N1102/N287	O-40x2	700	526.32
N1102/N286	O-40x2	700	526.32
N1101/N286	O-40x2	700	526.32
N1101/N285	O-40x2	700	526.32
N1100/N285	O-40x2	700	526.32
N1100/N284	O-40x2	700	526.32
N1099/N284	O-40x2	700	526.32
N1099/N283	O-40x2	700	526.32
N1098/N283	O-40x2	700	526.32
N1098/N282	O-40x2	700	526.32
N1097/N282	O-40x2	700	526.32
N1097/N281	O-40x2	700	526.32
N1140/N303	O-40x2	700	526.32
N1140/N302	O-40x2	700	526.32
N1139/N302	O-40x2	700	526.32
N1139/N301	O-40x2	691	526.32
N1138/N301	O-40x2	700	526.32
N1138/N300	O-40x2	687	526.32
N1137/N300	O-40x2	700	526.32
N1137/N299	O-40x2	694	526.32
N1136/N299	O-40x2	700	526.32
N1136/N298	O-40x2	692	526.32
N1135/N298	O-40x2	700	526.32
N1135/N297	O-40x2	694	526.32
N1134/N297	O-40x2	700	526.32
N1134/N296	O-40x2	699	526.32
N1133/N296	O-40x2	700	526.32
N1133/N295	O-40x2	700	526.32
N1132/N295	O-40x2	700	526.32
N1132/N294	O-40x2	700	526.32
N1131/N294	O-40x2	700	526.32
N1131/N293	O-40x2	700	526.32
N1130/N293	O-40x2	700	526.32
N1130/N292	O-40x2	700	526.32
N1129/N292	O-40x2	700	526.32
N1129/N291	O-40x2	700	526.32
N1128/N291	O-40x2	700	526.32
N1128/N290	O-40x2	700	526.32
N1127/N290	O-40x2	700	526.32
N1127/N289	O-40x2	700	526.32
N1126/N289	O-40x2	698	526.32
N1126/N288	O-40x2	700	526.32
N1125/N288	O-40x2	695	526.32
N1125/N287	O-40x2	700	526.32
N1124/N287	O-40x2	691	526.32
N1124/N286	O-40x2	700	526.32
N1123/N286	O-40x2	688	526.32

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1123/N285	O-40x2	700	526.32
N1122/N285	O-40x2	684	526.32
N1122/N284	O-40x2	700	526.32
N1121/N284	O-40x2	683	526.32
N1121/N283	O-40x2	700	526.32
N1120/N283	O-40x2	693	526.32
N1120/N282	O-40x2	700	526.32
N1119/N282	O-40x2	700	526.32
N1119/N281	O-40x2	700	526.32
N1140/N326	O-40x2	700	526.32
N1140/N325	O-40x2	700	526.32
N1139/N325	O-40x2	700	526.32
N1139/N324	O-40x2	700	526.32
N1138/N324	O-40x2	700	526.32
N1138/N323	O-40x2	700	526.32
N1137/N323	O-40x2	700	526.32
N1137/N322	O-40x2	700	526.32
N1136/N322	O-40x2	700	526.32
N1136/N321	O-40x2	700	526.32
N1135/N321	O-40x2	700	526.32
N1135/N320	O-40x2	700	526.32
N1134/N320	O-40x2	700	526.32
N1134/N319	O-40x2	700	526.32
N1133/N319	O-40x2	700	526.32
N1133/N318	O-40x2	700	526.32
N1132/N318	O-40x2	700	526.32
N1132/N317	O-40x2	700	526.32
N1131/N317	O-40x2	700	526.32
N1131/N316	O-40x2	700	526.32
N1130/N316	O-40x2	700	526.32
N1130/N315	O-40x2	700	526.32
N1129/N315	O-40x2	700	526.32
N1129/N314	O-40x2	700	526.32
N1128/N314	O-40x2	700	526.32
N1128/N313	O-40x2	700	526.32
N1127/N313	O-40x2	700	526.32
N1127/N312	O-40x2	700	526.32
N1126/N312	O-40x2	700	526.32
N1126/N311	O-40x2	700	526.32
N1125/N311	O-40x2	700	526.32
N1125/N310	O-40x2	700	526.32
N1124/N310	O-40x2	700	526.32
N1124/N309	O-40x2	700	526.32
N1123/N309	O-40x2	700	526.32
N1123/N308	O-40x2	700	526.32
N1122/N308	O-40x2	700	526.32
N1122/N307	O-40x2	700	526.32
N1121/N307	O-40x2	700	526.32
N1121/N306	O-40x2	700	526.32
N1120/N306	O-40x2	700	526.32
N1120/N305	O-40x2	700	526.32
N1119/N305	O-40x2	700	526.32
N1119/N304	O-40x2	700	526.32
N1162/N326	O-40x2	700	526.32
N1162/N325	O-40x2	690	526.32
N1161/N325	O-40x2	700	526.32

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1161/N324	O-40x2	606	526.32
N1160/N324	O-40x2	700	526.32
N1160/N323	O-40x2	623	526.32
N1159/N323	O-40x2	700	526.32
N1159/N322	O-40x2	648	526.32
N1158/N322	O-40x2	700	526.32
N1158/N321	O-40x2	656	526.32
N1157/N321	O-40x2	700	526.32
N1157/N320	O-40x2	659	526.32
N1156/N320	O-40x2	700	526.32
N1156/N319	O-40x2	666	526.32
N1155/N319	O-40x2	700	526.32
N1155/N318	O-40x2	676	526.32
N1154/N318	O-40x2	700	526.32
N1154/N317	O-40x2	688	526.32
N1153/N317	O-40x2	700	526.32
N1153/N316	O-40x2	700	526.32
N1152/N316	O-40x2	700	526.32
N1152/N315	O-40x2	700	526.32
N1151/N315	O-40x2	700	526.32
N1151/N314	O-40x2	700	526.32
N1150/N314	O-40x2	691	526.32
N1150/N313	O-40x2	700	526.32
N1149/N313	O-40x2	680	526.32
N1149/N312	O-40x2	700	526.32
N1148/N312	O-40x2	670	526.32
N1148/N311	O-40x2	700	526.32
N1147/N311	O-40x2	662	526.32
N1147/N310	O-40x2	700	526.32
N1146/N310	O-40x2	654	526.32
N1146/N309	O-40x2	700	526.32
N1145/N309	O-40x2	646	526.32
N1145/N308	O-40x2	700	526.32
N1144/N308	O-40x2	635	526.32
N1144/N307	O-40x2	700	526.32
N1143/N307	O-40x2	618	526.32
N1143/N306	O-40x2	700	526.32
N1142/N306	O-40x2	607	526.32
N1142/N305	O-40x2	700	526.32
N1141/N305	O-40x2	692	526.32
N1141/N304	O-40x2	700	526.32
N1162/N349	O-40x2	700	526.32
N1162/N348	O-40x2	700	526.32
N1161/N348	O-40x2	700	526.32
N1161/N347	O-40x2	700	526.32
N1160/N347	O-40x2	700	526.32
N1160/N346	O-40x2	700	526.32
N1159/N346	O-40x2	700	526.32
N1159/N345	O-40x2	700	526.32
N1158/N345	O-40x2	700	526.32
N1158/N344	O-40x2	700	526.32
N1157/N344	O-40x2	700	526.32
N1157/N343	O-40x2	700	526.32
N1156/N343	O-40x2	700	526.32
N1156/N342	O-40x2	700	526.32
N1155/N342	O-40x2	700	526.32

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1155/N341	O-40x2	700	526.32
N1154/N341	O-40x2	700	526.32
N1154/N340	O-40x2	700	526.32
N1153/N340	O-40x2	700	526.32
N1153/N339	O-40x2	700	526.32
N1152/N339	O-40x2	700	526.32
N1152/N338	O-40x2	700	526.32
N1151/N338	O-40x2	700	526.32
N1151/N337	O-40x2	700	526.32
N1150/N337	O-40x2	700	526.32
N1150/N336	O-40x2	700	526.32
N1149/N336	O-40x2	700	526.32
N1149/N335	O-40x2	700	526.32
N1148/N335	O-40x2	700	526.32
N1148/N334	O-40x2	700	526.32
N1147/N334	O-40x2	700	526.32
N1147/N333	O-40x2	700	526.32
N1146/N333	O-40x2	700	526.32
N1146/N332	O-40x2	700	526.32
N1145/N332	O-40x2	700	526.32
N1145/N331	O-40x2	700	526.32
N1144/N331	O-40x2	700	526.32
N1144/N330	O-40x2	700	526.32
N1143/N330	O-40x2	700	526.32
N1143/N329	O-40x2	700	526.32
N1142/N329	O-40x2	700	526.32
N1142/N328	O-40x2	700	526.32
N1141/N328	O-40x2	700	526.32
N1141/N327	O-40x2	700	526.32
N1184/N349	O-40x2	700	526.32
N1184/N348	O-40x2	700	526.32
N1183/N348	O-40x2	700	526.32
N1183/N347	O-40x2	700	526.32
N1182/N347	O-40x2	700	526.32
N1182/N346	O-40x2	700	526.32
N1181/N346	O-40x2	700	526.32
N1181/N345	O-40x2	700	526.32
N1180/N345	O-40x2	700	526.32
N1180/N344	O-40x2	700	526.32
N1179/N344	O-40x2	700	526.32
N1179/N343	O-40x2	700	526.32
N1178/N343	O-40x2	700	526.32
N1178/N342	O-40x2	700	526.32
N1177/N342	O-40x2	700	526.32
N1177/N341	O-40x2	700	526.32
N1176/N341	O-40x2	700	526.32
N1176/N340	O-40x2	700	526.32
N1175/N340	O-40x2	700	526.32
N1175/N339	O-40x2	700	526.32
N1174/N339	O-40x2	700	526.32
N1174/N338	O-40x2	700	526.32
N1173/N338	O-40x2	700	526.32
N1173/N337	O-40x2	700	526.32
N1172/N337	O-40x2	700	526.32
N1172/N336	O-40x2	700	526.32
N1171/N336	O-40x2	700	526.32

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1171/N335	O-40x2	700	526.32
N1170/N335	O-40x2	700	526.32
N1170/N334	O-40x2	700	526.32
N1169/N334	O-40x2	700	526.32
N1169/N333	O-40x2	700	526.32
N1168/N333	O-40x2	700	526.32
N1168/N332	O-40x2	700	526.32
N1167/N332	O-40x2	700	526.32
N1167/N331	O-40x2	700	526.32
N1166/N331	O-40x2	700	526.32
N1166/N330	O-40x2	700	526.32
N1165/N330	O-40x2	700	526.32
N1165/N329	O-40x2	700	526.32
N1164/N329	O-40x2	697	526.32
N1164/N328	O-40x2	700	526.32
N1163/N328	O-40x2	700	526.32
N1163/N327	O-40x2	700	526.32
N1184/N372	O-40x2	700	526.32
N1184/N371	O-40x2	693	526.32
N1183/N371	O-40x2	700	526.32
N1183/N370	O-40x2	592	526.32
N1182/N370	O-40x2	700	526.32
N1182/N369	O-40x2	604	526.32
N1181/N369	O-40x2	700	526.32
N1181/N368	O-40x2	626	526.32
N1180/N368	O-40x2	700	526.32
N1180/N367	O-40x2	643	526.32
N1179/N367	O-40x2	700	526.32
N1179/N366	O-40x2	657	526.32
N1178/N366	O-40x2	700	526.32
N1178/N365	O-40x2	672	526.32
N1177/N365	O-40x2	700	526.32
N1177/N364	O-40x2	688	526.32
N1176/N364	O-40x2	700	526.32
N1176/N363	O-40x2	700	526.32
N1175/N363	O-40x2	700	526.32
N1175/N362	O-40x2	700	526.32
N1174/N362	O-40x2	700	526.32
N1174/N361	O-40x2	700	526.32
N1173/N361	O-40x2	700	526.32
N1173/N360	O-40x2	700	526.32
N1172/N360	O-40x2	700	526.32
N1172/N359	O-40x2	700	526.32
N1171/N359	O-40x2	700	526.32
N1171/N358	O-40x2	700	526.32
N1170/N358	O-40x2	700	526.32
N1170/N357	O-40x2	700	526.32
N1169/N357	O-40x2	697	526.32
N1169/N356	O-40x2	700	526.32
N1168/N356	O-40x2	684	526.32
N1168/N355	O-40x2	700	526.32
N1167/N355	O-40x2	670	526.32
N1167/N354	O-40x2	700	526.32
N1166/N354	O-40x2	654	526.32
N1166/N353	O-40x2	700	526.32
N1165/N353	O-40x2	626	526.32

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1165/N352	O-40x2	700	526.32
N1164/N352	O-40x2	604	526.32
N1164/N351	O-40x2	700	526.32
N1163/N351	O-40x2	700	526.32
N1163/N350	O-40x2	700	526.32
N1206/N372	O-40x2	700	526.32
N1206/N371	O-40x2	700	526.32
N1205/N371	O-40x2	700	526.32
N1205/N370	O-40x2	700	526.32
N1204/N370	O-40x2	700	526.32
N1204/N369	O-40x2	700	526.32
N1203/N369	O-40x2	700	526.32
N1203/N368	O-40x2	700	526.32
N1202/N368	O-40x2	700	526.32
N1202/N367	O-40x2	700	526.32
N1201/N367	O-40x2	700	526.32
N1201/N366	O-40x2	700	526.32
N1200/N366	O-40x2	700	526.32
N1200/N365	O-40x2	700	526.32
N1199/N365	O-40x2	700	526.32
N1199/N364	O-40x2	700	526.32
N1198/N364	O-40x2	700	526.32
N1198/N363	O-40x2	700	526.32
N1197/N363	O-40x2	700	526.32
N1197/N362	O-40x2	700	526.32
N1196/N362	O-40x2	700	526.32
N1196/N361	O-40x2	700	526.32
N1195/N361	O-40x2	700	526.32
N1195/N360	O-40x2	700	526.32
N1194/N360	O-40x2	700	526.32
N1194/N359	O-40x2	700	526.32
N1193/N359	O-40x2	700	526.32
N1193/N358	O-40x2	700	526.32
N1192/N358	O-40x2	700	526.32
N1192/N357	O-40x2	700	526.32
N1191/N357	O-40x2	700	526.32
N1191/N356	O-40x2	700	526.32
N1190/N356	O-40x2	700	526.32
N1190/N355	O-40x2	700	526.32
N1189/N355	O-40x2	700	526.32
N1189/N354	O-40x2	700	526.32
N1188/N354	O-40x2	700	526.32
N1188/N353	O-40x2	700	526.32
N1187/N353	O-40x2	700	526.32
N1187/N352	O-40x2	700	526.32
N1186/N352	O-40x2	700	526.32
N1186/N351	O-40x2	700	526.32
N1185/N351	O-40x2	700	526.32
N1185/N350	O-40x2	700	526.32
N1206/N395	O-40x2	700	526.32
N1206/N394	O-40x2	700	526.32
N1205/N394	O-40x2	700	526.32
N1205/N393	O-40x2	677	526.32
N1204/N393	O-40x2	700	526.32
N1204/N392	O-40x2	668	526.32
N1203/N392	O-40x2	700	526.32

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1203/N391	O-40x2	676	526.32
N1202/N391	O-40x2	700	526.32
N1202/N390	O-40x2	687	526.32
N1201/N390	O-40x2	700	526.32
N1201/N389	O-40x2	699	526.32
N1200/N389	O-40x2	700	526.32
N1200/N388	O-40x2	700	526.32
N1199/N388	O-40x2	700	526.32
N1199/N387	O-40x2	700	526.32
N1198/N387	O-40x2	700	526.32
N1198/N386	O-40x2	700	526.32
N1197/N386	O-40x2	700	526.32
N1197/N385	O-40x2	700	526.32
N1196/N385	O-40x2	700	526.32
N1196/N384	O-40x2	700	526.32
N1195/N384	O-40x2	700	526.32
N1195/N383	O-40x2	700	526.32
N1194/N383	O-40x2	700	526.32
N1194/N382	O-40x2	700	526.32
N1193/N382	O-40x2	700	526.32
N1193/N381	O-40x2	700	526.32
N1192/N381	O-40x2	700	526.32
N1192/N380	O-40x2	700	526.32
N1191/N380	O-40x2	700	526.32
N1191/N379	O-40x2	700	526.32
N1190/N379	O-40x2	700	526.32
N1190/N378	O-40x2	700	526.32
N1189/N378	O-40x2	700	526.32
N1189/N377	O-40x2	700	526.32
N1188/N377	O-40x2	700	526.32
N1188/N376	O-40x2	700	526.32
N1187/N376	O-40x2	696	526.32
N1187/N375	O-40x2	700	526.32
N1186/N375	O-40x2	700	526.32
N1186/N374	O-40x2	700	526.32
N1185/N374	O-40x2	700	526.32
N1185/N373	O-40x2	700	526.32
N1228/N395	O-40x2	700	526.32
N1228/N394	O-40x2	700	526.32
N1227/N394	O-40x2	700	526.32
N1227/N393	O-40x2	700	526.32
N1226/N393	O-40x2	700	526.32
N1226/N392	O-40x2	700	526.32
N1225/N392	O-40x2	700	526.32
N1225/N391	O-40x2	700	526.32
N1224/N391	O-40x2	700	526.32
N1224/N390	O-40x2	700	526.32
N1223/N390	O-40x2	700	526.32
N1223/N389	O-40x2	700	526.32
N1222/N389	O-40x2	700	526.32
N1222/N388	O-40x2	700	526.32
N1221/N388	O-40x2	700	526.32
N1221/N387	O-40x2	700	526.32
N1220/N387	O-40x2	700	526.32
N1220/N386	O-40x2	700	526.32
N1219/N386	O-40x2	700	526.32

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1219/N385	O-40x2	700	526.32
N1218/N385	O-40x2	700	526.32
N1218/N384	O-40x2	700	526.32
N1217/N384	O-40x2	700	526.32
N1217/N383	O-40x2	700	526.32
N1216/N383	O-40x2	700	526.32
N1216/N382	O-40x2	700	526.32
N1215/N382	O-40x2	700	526.32
N1215/N381	O-40x2	700	526.32
N1214/N381	O-40x2	700	526.32
N1214/N380	O-40x2	700	526.32
N1213/N380	O-40x2	700	526.32
N1213/N379	O-40x2	700	526.32
N1212/N379	O-40x2	700	526.32
N1212/N378	O-40x2	700	526.32
N1211/N378	O-40x2	700	526.32
N1211/N377	O-40x2	700	526.32
N1210/N377	O-40x2	700	526.32
N1210/N376	O-40x2	700	526.32
N1209/N376	O-40x2	700	526.32
N1209/N375	O-40x2	700	526.32
N1208/N375	O-40x2	700	526.32
N1208/N374	O-40x2	700	526.32
N1207/N374	O-40x2	700	526.32
N1207/N373	O-40x2	700	526.32
N1228/N418	O-40x2	700	526.32
N1228/N417	O-40x2	700	526.32
N1227/N417	O-40x2	700	526.32
N1227/N416	O-40x2	700	526.32
N1226/N416	O-40x2	700	526.32
N1226/N415	O-40x2	700	526.32
N1225/N415	O-40x2	700	526.32
N1225/N414	O-40x2	700	526.32
N1224/N414	O-40x2	700	526.32
N1224/N413	O-40x2	700	526.32
N1223/N413	O-40x2	700	526.32
N1223/N412	O-40x2	700	526.32
N1222/N412	O-40x2	700	526.32
N1222/N411	O-40x2	700	526.32
N1221/N411	O-40x2	700	526.32
N1221/N410	O-40x2	700	526.32
N1220/N410	O-40x2	700	526.32
N1220/N409	O-40x2	700	526.32
N1219/N409	O-40x2	700	526.32
N1219/N408	O-40x2	700	526.32
N1218/N408	O-40x2	700	526.32
N1218/N407	O-40x2	700	526.32
N1217/N407	O-40x2	700	526.32
N1217/N406	O-40x2	700	526.32
N1216/N406	O-40x2	700	526.32
N1216/N405	O-40x2	700	526.32
N1215/N405	O-40x2	700	526.32
N1215/N404	O-40x2	700	526.32
N1214/N404	O-40x2	700	526.32
N1214/N403	O-40x2	700	526.32
N1213/N403	O-40x2	700	526.32

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1213/N402	O-40x2	700	526.32
N1212/N402	O-40x2	700	526.32
N1212/N401	O-40x2	700	526.32
N1211/N401	O-40x2	700	526.32
N1211/N400	O-40x2	700	526.32
N1210/N400	O-40x2	700	526.32
N1210/N399	O-40x2	700	526.32
N1209/N399	O-40x2	700	526.32
N1209/N398	O-40x2	700	526.32
N1208/N398	O-40x2	700	526.32
N1208/N397	O-40x2	700	526.32
N1207/N397	O-40x2	700	526.32
N1207/N396	O-40x2	700	526.32
N1250/N418	O-40x2	700	526.32
N1250/N417	O-40x2	700	526.32
N1249/N417	O-40x2	700	526.32
N1249/N416	O-40x2	700	526.32
N1248/N416	O-40x2	700	526.32
N1248/N415	O-40x2	700	526.32
N1247/N415	O-40x2	700	526.32
N1247/N414	O-40x2	700	526.32
N1246/N414	O-40x2	700	526.32
N1246/N413	O-40x2	700	526.32
N1245/N413	O-40x2	700	526.32
N1245/N412	O-40x2	700	526.32
N1244/N412	O-40x2	700	526.32
N1244/N411	O-40x2	700	526.32
N1243/N411	O-40x2	700	526.32
N1243/N410	O-40x2	700	526.32
N1242/N410	O-40x2	700	526.32
N1242/N409	O-40x2	700	526.32
N1241/N409	O-40x2	700	526.32
N1241/N408	O-40x2	700	526.32
N1240/N408	O-40x2	700	526.32
N1240/N407	O-40x2	700	526.32
N1239/N407	O-40x2	700	526.32
N1239/N406	O-40x2	700	526.32
N1238/N406	O-40x2	700	526.32
N1238/N405	O-40x2	700	526.32
N1237/N405	O-40x2	700	526.32
N1237/N404	O-40x2	700	526.32
N1236/N404	O-40x2	700	526.32
N1236/N403	O-40x2	700	526.32
N1235/N403	O-40x2	700	526.32
N1235/N402	O-40x2	700	526.32
N1234/N402	O-40x2	700	526.32
N1234/N401	O-40x2	700	526.32
N1233/N401	O-40x2	700	526.32
N1233/N400	O-40x2	700	526.32
N1232/N400	O-40x2	700	526.32
N1232/N399	O-40x2	700	526.32
N1231/N399	O-40x2	700	526.32
N1231/N398	O-40x2	700	526.32
N1230/N398	O-40x2	700	526.32
N1230/N397	O-40x2	700	526.32
N1229/N397	O-40x2	700	526.32

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1229/N396	O-40x2	700	526.32
N1250/N441	O-40x2	700	526.32
N1250/N440	O-40x2	700	526.32
N1249/N440	O-40x2	700	526.32
N1249/N439	O-40x2	700	526.32
N1248/N439	O-40x2	700	526.32
N1248/N438	O-40x2	700	526.32
N1247/N438	O-40x2	700	526.32
N1247/N437	O-40x2	700	526.32
N1246/N437	O-40x2	700	526.32
N1246/N436	O-40x2	700	526.32
N1245/N436	O-40x2	700	526.32
N1245/N435	O-40x2	700	526.32
N1244/N435	O-40x2	700	526.32
N1244/N434	O-40x2	700	526.32
N1243/N434	O-40x2	700	526.32
N1243/N433	O-40x2	700	526.32
N1242/N433	O-40x2	700	526.32
N1242/N432	O-40x2	700	526.32
N1241/N432	O-40x2	700	526.32
N1241/N431	O-40x2	700	526.32
N1240/N431	O-40x2	700	526.32
N1240/N430	O-40x2	700	526.32
N1239/N430	O-40x2	700	526.32
N1239/N429	O-40x2	700	526.32
N1238/N429	O-40x2	700	526.32
N1238/N428	O-40x2	700	526.32
N1237/N428	O-40x2	700	526.32
N1237/N427	O-40x2	700	526.32
N1236/N427	O-40x2	700	526.32
N1236/N426	O-40x2	700	526.32
N1235/N426	O-40x2	700	526.32
N1235/N425	O-40x2	700	526.32
N1234/N425	O-40x2	700	526.32
N1234/N424	O-40x2	700	526.32
N1233/N424	O-40x2	700	526.32
N1233/N423	O-40x2	700	526.32
N1232/N423	O-40x2	700	526.32
N1232/N422	O-40x2	700	526.32
N1231/N422	O-40x2	700	526.32
N1231/N421	O-40x2	700	526.32
N1230/N421	O-40x2	700	526.32
N1230/N420	O-40x2	700	526.32
N1229/N420	O-40x2	700	526.32
N1229/N419	O-40x2	700	526.32
N1272/N441	O-40x2	700	526.32
N1272/N440	O-40x2	700	526.32
N1271/N440	O-40x2	700	526.32
N1271/N439	O-40x2	691	526.32
N1270/N439	O-40x2	700	526.32
N1270/N438	O-40x2	685	526.32
N1269/N438	O-40x2	700	526.32
N1269/N437	O-40x2	695	526.32
N1268/N437	O-40x2	700	526.32
N1268/N436	O-40x2	700	526.32
N1267/N436	O-40x2	700	526.32

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1267/N435	O-40x2	700	526.32
N1266/N435	O-40x2	700	526.32
N1266/N434	O-40x2	700	526.32
N1265/N434	O-40x2	700	526.32
N1265/N433	O-40x2	700	526.32
N1264/N433	O-40x2	700	526.32
N1264/N432	O-40x2	700	526.32
N1263/N432	O-40x2	700	526.32
N1263/N431	O-40x2	700	526.32
N1262/N431	O-40x2	700	526.32
N1262/N430	O-40x2	700	526.32
N1261/N430	O-40x2	700	526.32
N1261/N429	O-40x2	700	526.32
N1260/N429	O-40x2	700	526.32
N1260/N428	O-40x2	700	526.32
N1259/N428	O-40x2	700	526.32
N1259/N427	O-40x2	700	526.32
N1258/N427	O-40x2	700	526.32
N1258/N426	O-40x2	700	526.32
N1257/N426	O-40x2	700	526.32
N1257/N425	O-40x2	700	526.32
N1256/N425	O-40x2	700	526.32
N1256/N424	O-40x2	700	526.32
N1255/N424	O-40x2	700	526.32
N1255/N423	O-40x2	700	526.32
N1254/N423	O-40x2	696	526.32
N1254/N422	O-40x2	700	526.32
N1253/N422	O-40x2	687	526.32
N1253/N421	O-40x2	700	526.32
N1252/N421	O-40x2	693	526.32
N1252/N420	O-40x2	700	526.32
N1251/N420	O-40x2	700	526.32
N1251/N419	O-40x2	700	526.32
N1272/N464	O-40x2	700	526.32
N1272/N463	O-40x2	700	526.32
N1271/N463	O-40x2	700	526.32
N1271/N462	O-40x2	700	526.32
N1270/N462	O-40x2	700	526.32
N1270/N461	O-40x2	700	526.32
N1269/N461	O-40x2	700	526.32
N1269/N460	O-40x2	700	526.32
N1268/N460	O-40x2	700	526.32
N1268/N459	O-40x2	700	526.32
N1267/N459	O-40x2	700	526.32
N1267/N458	O-40x2	700	526.32
N1266/N458	O-40x2	700	526.32
N1266/N457	O-40x2	700	526.32
N1265/N457	O-40x2	700	526.32
N1265/N456	O-40x2	700	526.32
N1264/N456	O-40x2	700	526.32
N1264/N455	O-40x2	700	526.32
N1263/N455	O-40x2	700	526.32
N1263/N454	O-40x2	700	526.32
N1262/N454	O-40x2	700	526.32
N1262/N453	O-40x2	700	526.32
N1261/N453	O-40x2	700	526.32

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1261/N452	O-40x2	700	526.32
N1260/N452	O-40x2	700	526.32
N1260/N451	O-40x2	700	526.32
N1259/N451	O-40x2	700	526.32
N1259/N450	O-40x2	700	526.32
N1258/N450	O-40x2	700	526.32
N1258/N449	O-40x2	700	526.32
N1257/N449	O-40x2	700	526.32
N1257/N448	O-40x2	700	526.32
N1256/N448	O-40x2	700	526.32
N1256/N447	O-40x2	700	526.32
N1255/N447	O-40x2	700	526.32
N1255/N446	O-40x2	700	526.32
N1254/N446	O-40x2	700	526.32
N1254/N445	O-40x2	700	526.32
N1253/N445	O-40x2	700	526.32
N1253/N444	O-40x2	700	526.32
N1252/N444	O-40x2	700	526.32
N1252/N443	O-40x2	700	526.32
N1251/N443	O-40x2	700	526.32
N1251/N442	O-40x2	700	526.32
N1294/N464	O-40x2	700	526.32
N1294/N463	O-40x2	689	526.32
N1293/N463	O-40x2	700	526.32
N1293/N462	O-40x2	597	526.32
N1292/N462	O-40x2	700	526.32
N1292/N461	O-40x2	615	526.32
N1291/N461	O-40x2	700	526.32
N1291/N460	O-40x2	641	526.32
N1290/N460	O-40x2	700	526.32
N1290/N459	O-40x2	659	526.32
N1289/N459	O-40x2	700	526.32
N1289/N458	O-40x2	674	526.32
N1288/N458	O-40x2	700	526.32
N1288/N457	O-40x2	686	526.32
N1287/N457	O-40x2	700	526.32
N1287/N456	O-40x2	698	526.32
N1286/N456	O-40x2	700	526.32
N1286/N455	O-40x2	700	526.32
N1285/N455	O-40x2	700	526.32
N1285/N454	O-40x2	700	526.32
N1284/N454	O-40x2	700	526.32
N1284/N453	O-40x2	700	526.32
N1283/N453	O-40x2	700	526.32
N1283/N452	O-40x2	700	526.32
N1282/N452	O-40x2	700	526.32
N1282/N451	O-40x2	700	526.32
N1281/N451	O-40x2	700	526.32
N1281/N450	O-40x2	700	526.32
N1280/N450	O-40x2	698	526.32
N1280/N449	O-40x2	700	526.32
N1279/N449	O-40x2	686	526.32
N1279/N448	O-40x2	700	526.32
N1278/N448	O-40x2	675	526.32
N1278/N447	O-40x2	700	526.32
N1277/N447	O-40x2	661	526.32

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1277/N446	O-40x2	700	526.32
N1276/N446	O-40x2	642	526.32
N1276/N445	O-40x2	700	526.32
N1275/N445	O-40x2	617	526.32
N1275/N444	O-40x2	700	526.32
N1274/N444	O-40x2	599	526.32
N1274/N443	O-40x2	700	526.32
N1273/N443	O-40x2	691	526.32
N1273/N442	O-40x2	700	526.32
N1294/N487	O-40x2	700	526.32
N1294/N486	O-40x2	700	526.32
N1293/N486	O-40x2	700	526.32
N1293/N485	O-40x2	700	526.32
N1292/N485	O-40x2	700	526.32
N1292/N484	O-40x2	700	526.32
N1291/N484	O-40x2	700	526.32
N1291/N483	O-40x2	700	526.32
N1290/N483	O-40x2	700	526.32
N1290/N482	O-40x2	700	526.32
N1289/N482	O-40x2	700	526.32
N1289/N481	O-40x2	700	526.32
N1288/N481	O-40x2	700	526.32
N1288/N480	O-40x2	700	526.32
N1287/N480	O-40x2	700	526.32
N1287/N479	O-40x2	700	526.32
N1286/N479	O-40x2	700	526.32
N1286/N478	O-40x2	700	526.32
N1285/N478	O-40x2	700	526.32
N1285/N477	O-40x2	700	526.32
N1284/N477	O-40x2	700	526.32
N1284/N476	O-40x2	700	526.32
N1283/N476	O-40x2	700	526.32
N1283/N475	O-40x2	700	526.32
N1282/N475	O-40x2	700	526.32
N1282/N474	O-40x2	700	526.32
N1281/N474	O-40x2	700	526.32
N1281/N473	O-40x2	700	526.32
N1280/N473	O-40x2	700	526.32
N1280/N472	O-40x2	700	526.32
N1279/N472	O-40x2	700	526.32
N1279/N471	O-40x2	700	526.32
N1278/N471	O-40x2	700	526.32
N1278/N470	O-40x2	700	526.32
N1277/N470	O-40x2	700	526.32
N1277/N469	O-40x2	700	526.32
N1276/N469	O-40x2	700	526.32
N1276/N468	O-40x2	700	526.32
N1275/N468	O-40x2	700	526.32
N1275/N467	O-40x2	700	526.32
N1274/N467	O-40x2	700	526.32
N1274/N466	O-40x2	700	526.32
N1273/N466	O-40x2	700	526.32
N1273/N465	O-40x2	700	526.32
N1316/N487	O-40x2	700	526.32
N1316/N486	O-40x2	700	526.32
N1315/N486	O-40x2	700	526.32

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1315/N485	O-40x2	700	526.32
N1314/N485	O-40x2	700	526.32
N1314/N484	O-40x2	700	526.32
N1313/N484	O-40x2	700	526.32
N1313/N483	O-40x2	700	526.32
N1312/N483	O-40x2	700	526.32
N1312/N482	O-40x2	700	526.32
N1311/N482	O-40x2	700	526.32
N1311/N481	O-40x2	700	526.32
N1310/N481	O-40x2	700	526.32
N1310/N480	O-40x2	700	526.32
N1309/N480	O-40x2	700	526.32
N1309/N479	O-40x2	700	526.32
N1308/N479	O-40x2	700	526.32
N1308/N478	O-40x2	700	526.32
N1307/N478	O-40x2	700	526.32
N1307/N477	O-40x2	700	526.32
N1306/N477	O-40x2	700	526.32
N1306/N476	O-40x2	700	526.32
N1305/N476	O-40x2	700	526.32
N1305/N475	O-40x2	700	526.32
N1304/N475	O-40x2	700	526.32
N1304/N474	O-40x2	700	526.32
N1303/N474	O-40x2	700	526.32
N1303/N473	O-40x2	700	526.32
N1302/N473	O-40x2	700	526.32
N1302/N472	O-40x2	700	526.32
N1301/N472	O-40x2	700	526.32
N1301/N471	O-40x2	700	526.32
N1300/N471	O-40x2	700	526.32
N1300/N470	O-40x2	700	526.32
N1299/N470	O-40x2	700	526.32
N1299/N469	O-40x2	700	526.32
N1298/N469	O-40x2	700	526.32
N1298/N468	O-40x2	700	526.32
N1297/N468	O-40x2	700	526.32
N1297/N467	O-40x2	700	526.32
N1296/N467	O-40x2	700	526.32
N1296/N466	O-40x2	700	526.32
N1295/N466	O-40x2	700	526.32
N1295/N465	O-40x2	700	526.32
N1316/N510	O-40x2	700	526.32
N1316/N509	O-40x2	700	526.32
N1315/N509	O-40x2	700	526.32
N1315/N508	O-40x2	606	526.32
N1314/N508	O-40x2	700	526.32
N1314/N507	O-40x2	621	526.32
N1313/N507	O-40x2	700	526.32
N1313/N506	O-40x2	647	526.32
N1312/N506	O-40x2	700	526.32
N1312/N505	O-40x2	666	526.32
N1311/N505	O-40x2	700	526.32
N1311/N504	O-40x2	681	526.32
N1310/N504	O-40x2	700	526.32
N1310/N503	O-40x2	697	526.32
N1309/N503	O-40x2	700	526.32

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1309/N502	O-40x2	700	526.32
N1308/N502	O-40x2	700	526.32
N1308/N501	O-40x2	700	526.32
N1307/N501	O-40x2	700	526.32
N1307/N500	O-40x2	700	526.32
N1306/N500	O-40x2	700	526.32
N1306/N499	O-40x2	700	526.32
N1305/N499	O-40x2	700	526.32
N1305/N498	O-40x2	700	526.32
N1304/N498	O-40x2	700	526.32
N1304/N497	O-40x2	700	526.32
N1303/N497	O-40x2	700	526.32
N1303/N496	O-40x2	700	526.32
N1302/N496	O-40x2	692	526.32
N1302/N495	O-40x2	700	526.32
N1301/N495	O-40x2	676	526.32
N1301/N494	O-40x2	700	526.32
N1300/N494	O-40x2	661	526.32
N1300/N493	O-40x2	700	526.32
N1299/N493	O-40x2	646	526.32
N1299/N492	O-40x2	700	526.32
N1298/N492	O-40x2	628	526.32
N1298/N491	O-40x2	700	526.32
N1297/N491	O-40x2	603	526.32
N1297/N490	O-40x2	700	526.32
N1296/N490	O-40x2	589	526.32
N1296/N489	O-40x2	700	526.32
N1295/N489	O-40x2	690	526.32
N1295/N488	O-40x2	700	526.32
N1338/N510	O-40x2	700	526.32
N1338/N509	O-40x2	700	526.32
N1337/N509	O-40x2	700	526.32
N1337/N508	O-40x2	700	526.32
N1336/N508	O-40x2	700	526.32
N1336/N507	O-40x2	700	526.32
N1335/N507	O-40x2	700	526.32
N1335/N506	O-40x2	700	526.32
N1334/N506	O-40x2	700	526.32
N1334/N505	O-40x2	700	526.32
N1333/N505	O-40x2	700	526.32
N1333/N504	O-40x2	700	526.32
N1332/N504	O-40x2	700	526.32
N1332/N503	O-40x2	700	526.32
N1331/N503	O-40x2	700	526.32
N1331/N502	O-40x2	700	526.32
N1330/N502	O-40x2	700	526.32
N1330/N501	O-40x2	700	526.32
N1329/N501	O-40x2	700	526.32
N1329/N500	O-40x2	700	526.32
N1328/N500	O-40x2	700	526.32
N1328/N499	O-40x2	700	526.32
N1327/N499	O-40x2	700	526.32
N1327/N498	O-40x2	700	526.32
N1326/N498	O-40x2	700	526.32
N1326/N497	O-40x2	700	526.32
N1325/N497	O-40x2	700	526.32

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1325/N496	O-40x2	700	526.32
N1324/N496	O-40x2	700	526.32
N1324/N495	O-40x2	700	526.32
N1323/N495	O-40x2	700	526.32
N1323/N494	O-40x2	700	526.32
N1322/N494	O-40x2	700	526.32
N1322/N493	O-40x2	700	526.32
N1321/N493	O-40x2	700	526.32
N1321/N492	O-40x2	700	526.32
N1320/N492	O-40x2	700	526.32
N1320/N491	O-40x2	700	526.32
N1319/N491	O-40x2	700	526.32
N1319/N490	O-40x2	700	526.32
N1318/N490	O-40x2	700	526.32
N1318/N489	O-40x2	700	526.32
N1317/N489	O-40x2	700	526.32
N1317/N488	O-40x2	700	526.32
N1338/N533	O-40x2	700	526.32
N1338/N532	O-40x2	700	526.32
N1337/N532	O-40x2	700	526.32
N1337/N531	O-40x2	697	526.32
N1336/N531	O-40x2	700	526.32
N1336/N530	O-40x2	690	526.32
N1335/N530	O-40x2	700	526.32
N1335/N529	O-40x2	700	526.32
N1334/N529	O-40x2	700	526.32
N1334/N528	O-40x2	700	526.32
N1333/N528	O-40x2	700	526.32
N1333/N527	O-40x2	700	526.32
N1332/N527	O-40x2	700	526.32
N1332/N526	O-40x2	700	526.32
N1331/N526	O-40x2	700	526.32
N1331/N525	O-40x2	700	526.32
N1330/N525	O-40x2	700	526.32
N1330/N524	O-40x2	700	526.32
N1329/N524	O-40x2	700	526.32
N1329/N523	O-40x2	700	526.32
N1328/N523	O-40x2	700	526.32
N1328/N522	O-40x2	700	526.32
N1327/N522	O-40x2	700	526.32
N1327/N521	O-40x2	700	526.32
N1326/N521	O-40x2	700	526.32
N1326/N520	O-40x2	700	526.32
N1325/N520	O-40x2	700	526.32
N1325/N519	O-40x2	700	526.32
N1324/N519	O-40x2	700	526.32
N1324/N518	O-40x2	700	526.32
N1323/N518	O-40x2	700	526.32
N1323/N517	O-40x2	700	526.32
N1322/N517	O-40x2	700	526.32
N1322/N516	O-40x2	700	526.32
N1321/N516	O-40x2	691	526.32
N1321/N515	O-40x2	700	526.32
N1320/N515	O-40x2	679	526.32
N1320/N514	O-40x2	700	526.32
N1319/N514	O-40x2	671	526.32

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1319/N513	O-40x2	700	526.32
N1318/N513	O-40x2	679	526.32
N1318/N512	O-40x2	700	526.32
N1317/N512	O-40x2	700	526.32
N1317/N511	O-40x2	700	526.32
N1360/N533	O-40x2	700	526.32
N1360/N532	O-40x2	700	526.32
N1359/N532	O-40x2	700	526.32
N1359/N531	O-40x2	700	526.32
N1358/N531	O-40x2	700	526.32
N1358/N530	O-40x2	700	526.32
N1357/N530	O-40x2	700	526.32
N1357/N529	O-40x2	700	526.32
N1356/N529	O-40x2	700	526.32
N1356/N528	O-40x2	700	526.32
N1355/N528	O-40x2	700	526.32
N1355/N527	O-40x2	700	526.32
N1354/N527	O-40x2	700	526.32
N1354/N526	O-40x2	700	526.32
N1353/N526	O-40x2	700	526.32
N1353/N525	O-40x2	700	526.32
N1352/N525	O-40x2	700	526.32
N1352/N524	O-40x2	700	526.32
N1351/N524	O-40x2	700	526.32
N1351/N523	O-40x2	700	526.32
N1350/N523	O-40x2	700	526.32
N1350/N522	O-40x2	700	526.32
N1349/N522	O-40x2	700	526.32
N1349/N521	O-40x2	700	526.32
N1348/N521	O-40x2	700	526.32
N1348/N520	O-40x2	700	526.32
N1347/N520	O-40x2	700	526.32
N1347/N519	O-40x2	700	526.32
N1346/N519	O-40x2	700	526.32
N1346/N518	O-40x2	700	526.32
N1345/N518	O-40x2	700	526.32
N1345/N517	O-40x2	700	526.32
N1344/N517	O-40x2	700	526.32
N1344/N516	O-40x2	700	526.32
N1343/N516	O-40x2	700	526.32
N1343/N515	O-40x2	700	526.32
N1342/N515	O-40x2	700	526.32
N1342/N514	O-40x2	700	526.32
N1341/N514	O-40x2	700	526.32
N1341/N513	O-40x2	700	526.32
N1340/N513	O-40x2	700	526.32
N1340/N512	O-40x2	700	526.32
N1339/N512	O-40x2	700	526.32
N1339/N511	O-40x2	700	526.32
N1360/N556	O-40x2	700	526.32
N1360/N555	O-40x2	700	526.32
N1359/N555	O-40x2	700	526.32
N1359/N554	O-40x2	700	526.32
N1358/N554	O-40x2	700	526.32
N1358/N553	O-40x2	700	526.32
N1357/N553	O-40x2	700	526.32

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1357/N552	O-40x2	700	526.32
N1356/N552	O-40x2	700	526.32
N1356/N551	O-40x2	700	526.32
N1355/N551	O-40x2	700	526.32
N1355/N550	O-40x2	700	526.32
N1354/N550	O-40x2	700	526.32
N1354/N549	O-40x2	700	526.32
N1353/N549	O-40x2	700	526.32
N1353/N548	O-40x2	700	526.32
N1352/N548	O-40x2	700	526.32
N1352/N547	O-40x2	700	526.32
N1351/N547	O-40x2	700	526.32
N1351/N546	O-40x2	700	526.32
N1350/N546	O-40x2	700	526.32
N1350/N545	O-40x2	700	526.32
N1349/N545	O-40x2	700	526.32
N1349/N544	O-40x2	700	526.32
N1348/N544	O-40x2	700	526.32
N1348/N543	O-40x2	700	526.32
N1347/N543	O-40x2	700	526.32
N1347/N542	O-40x2	700	526.32
N1346/N542	O-40x2	700	526.32
N1346/N541	O-40x2	700	526.32
N1345/N541	O-40x2	700	526.32
N1345/N540	O-40x2	700	526.32
N1344/N540	O-40x2	700	526.32
N1344/N539	O-40x2	700	526.32
N1343/N539	O-40x2	700	526.32
N1343/N538	O-40x2	700	526.32
N1342/N538	O-40x2	700	526.32
N1342/N537	O-40x2	700	526.32
N1341/N537	O-40x2	700	526.32
N1341/N536	O-40x2	700	526.32
N1340/N536	O-40x2	700	526.32
N1340/N535	O-40x2	700	526.32
N1339/N535	O-40x2	700	526.32
N1339/N534	O-40x2	700	526.32
N1382/N556	O-40x2	700	526.32
N1382/N555	O-40x2	700	526.32
N1381/N555	O-40x2	700	526.32
N1381/N554	O-40x2	700	526.32
N1380/N554	O-40x2	700	526.32
N1380/N553	O-40x2	700	526.32
N1379/N553	O-40x2	700	526.32
N1379/N552	O-40x2	700	526.32
N1378/N552	O-40x2	700	526.32
N1378/N551	O-40x2	700	526.32
N1377/N551	O-40x2	700	526.32
N1377/N550	O-40x2	700	526.32
N1376/N550	O-40x2	700	526.32
N1376/N549	O-40x2	700	526.32
N1375/N549	O-40x2	700	526.32
N1375/N548	O-40x2	700	526.32
N1374/N548	O-40x2	700	526.32
N1374/N547	O-40x2	700	526.32
N1373/N547	O-40x2	700	526.32

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1373/N546	O-40x2	700	526.32
N1372/N546	O-40x2	700	526.32
N1372/N545	O-40x2	700	526.32
N1371/N545	O-40x2	700	526.32
N1371/N544	O-40x2	700	526.32
N1370/N544	O-40x2	700	526.32
N1370/N543	O-40x2	700	526.32
N1369/N543	O-40x2	700	526.32
N1369/N542	O-40x2	700	526.32
N1368/N542	O-40x2	700	526.32
N1368/N541	O-40x2	700	526.32
N1367/N541	O-40x2	700	526.32
N1367/N540	O-40x2	700	526.32
N1366/N540	O-40x2	700	526.32
N1366/N539	O-40x2	700	526.32
N1365/N539	O-40x2	700	526.32
N1365/N538	O-40x2	700	526.32
N1364/N538	O-40x2	700	526.32
N1364/N537	O-40x2	700	526.32
N1363/N537	O-40x2	700	526.32
N1363/N536	O-40x2	700	526.32
N1362/N536	O-40x2	700	526.32
N1362/N535	O-40x2	700	526.32
N1361/N535	O-40x2	700	526.32
N1361/N534	O-40x2	700	526.32
N1382/N579	O-40x2	700	526.32
N1382/N578	O-40x2	700	526.32
N1381/N578	O-40x2	700	526.32
N1381/N577	O-40x2	700	526.32
N1380/N577	O-40x2	700	526.32
N1380/N576	O-40x2	700	526.32
N1379/N576	O-40x2	700	526.32
N1379/N575	O-40x2	700	526.32
N1378/N575	O-40x2	700	526.32
N1378/N574	O-40x2	700	526.32
N1377/N574	O-40x2	700	526.32
N1377/N573	O-40x2	700	526.32
N1376/N573	O-40x2	700	526.32
N1376/N572	O-40x2	700	526.32
N1375/N572	O-40x2	700	526.32
N1375/N571	O-40x2	700	526.32
N1374/N571	O-40x2	700	526.32
N1374/N570	O-40x2	700	526.32
N1373/N570	O-40x2	700	526.32
N1373/N569	O-40x2	700	526.32
N1372/N569	O-40x2	700	526.32
N1372/N568	O-40x2	700	526.32
N1371/N568	O-40x2	700	526.32
N1371/N567	O-40x2	700	526.32
N1370/N567	O-40x2	700	526.32
N1370/N566	O-40x2	700	526.32
N1369/N566	O-40x2	700	526.32
N1369/N565	O-40x2	700	526.32
N1368/N565	O-40x2	700	526.32
N1368/N564	O-40x2	700	526.32
N1367/N564	O-40x2	700	526.32

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1367/N563	O-40x2	700	526.32
N1366/N563	O-40x2	700	526.32
N1366/N562	O-40x2	700	526.32
N1365/N562	O-40x2	700	526.32
N1365/N561	O-40x2	700	526.32
N1364/N561	O-40x2	700	526.32
N1364/N560	O-40x2	700	526.32
N1363/N560	O-40x2	700	526.32
N1363/N559	O-40x2	700	526.32
N1362/N559	O-40x2	700	526.32
N1362/N558	O-40x2	700	526.32
N1361/N558	O-40x2	700	526.32
N1361/N557	O-40x2	700	526.32
N1404/N579	O-40x2	700	526.32
N1404/N578	O-40x2	700	526.32
N1403/N578	O-40x2	700	526.32
N1403/N577	O-40x2	695	526.32
N1402/N577	O-40x2	700	526.32
N1402/N576	O-40x2	691	526.32
N1401/N576	O-40x2	700	526.32
N1401/N575	O-40x2	700	526.32
N1400/N575	O-40x2	700	526.32
N1400/N574	O-40x2	700	526.32
N1399/N574	O-40x2	700	526.32
N1399/N573	O-40x2	700	526.32
N1398/N573	O-40x2	700	526.32
N1398/N572	O-40x2	700	526.32
N1397/N572	O-40x2	700	526.32
N1397/N571	O-40x2	700	526.32
N1396/N571	O-40x2	700	526.32
N1396/N570	O-40x2	700	526.32
N1395/N570	O-40x2	700	526.32
N1395/N569	O-40x2	700	526.32
N1394/N569	O-40x2	700	526.32
N1394/N568	O-40x2	700	526.32
N1393/N568	O-40x2	700	526.32
N1393/N567	O-40x2	700	526.32
N1392/N567	O-40x2	700	526.32
N1392/N566	O-40x2	700	526.32
N1391/N566	O-40x2	700	526.32
N1391/N565	O-40x2	700	526.32
N1390/N565	O-40x2	700	526.32
N1390/N564	O-40x2	700	526.32
N1389/N564	O-40x2	700	526.32
N1389/N563	O-40x2	700	526.32
N1388/N563	O-40x2	700	526.32
N1388/N562	O-40x2	700	526.32
N1387/N562	O-40x2	700	526.32
N1387/N561	O-40x2	700	526.32
N1386/N561	O-40x2	700	526.32
N1386/N560	O-40x2	700	526.32
N1385/N560	O-40x2	691	526.32
N1385/N559	O-40x2	700	526.32
N1384/N559	O-40x2	695	526.32
N1384/N558	O-40x2	700	526.32
N1383/N558	O-40x2	700	526.32

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1383/N557	O-40x2	700	526.32
N1404/N602	O-40x2	700	526.32
N1404/N601	O-40x2	700	526.32
N1403/N601	O-40x2	700	526.32
N1403/N600	O-40x2	700	526.32
N1402/N600	O-40x2	700	526.32
N1402/N599	O-40x2	700	526.32
N1401/N599	O-40x2	700	526.32
N1401/N598	O-40x2	700	526.32
N1400/N598	O-40x2	700	526.32
N1400/N597	O-40x2	700	526.32
N1399/N597	O-40x2	700	526.32
N1399/N596	O-40x2	700	526.32
N1398/N596	O-40x2	700	526.32
N1398/N595	O-40x2	700	526.32
N1397/N595	O-40x2	700	526.32
N1397/N594	O-40x2	700	526.32
N1396/N594	O-40x2	700	526.32
N1396/N593	O-40x2	700	526.32
N1395/N593	O-40x2	700	526.32
N1395/N592	O-40x2	700	526.32
N1394/N592	O-40x2	700	526.32
N1394/N591	O-40x2	700	526.32
N1393/N591	O-40x2	700	526.32
N1393/N590	O-40x2	700	526.32
N1392/N590	O-40x2	700	526.32
N1392/N589	O-40x2	700	526.32
N1391/N589	O-40x2	700	526.32
N1391/N588	O-40x2	700	526.32
N1390/N588	O-40x2	700	526.32
N1390/N587	O-40x2	700	526.32
N1389/N587	O-40x2	700	526.32
N1389/N586	O-40x2	700	526.32
N1388/N586	O-40x2	700	526.32
N1388/N585	O-40x2	700	526.32
N1387/N585	O-40x2	700	526.32
N1387/N584	O-40x2	700	526.32
N1386/N584	O-40x2	700	526.32
N1386/N583	O-40x2	700	526.32
N1385/N583	O-40x2	700	526.32
N1385/N582	O-40x2	700	526.32
N1384/N582	O-40x2	700	526.32
N1384/N581	O-40x2	700	526.32
N1383/N581	O-40x2	700	526.32
N1383/N580	O-40x2	700	526.32
N1426/N602	O-40x2	700	526.32
N1426/N601	O-40x2	691	526.32
N1425/N601	O-40x2	700	526.32
N1425/N600	O-40x2	602	526.32
N1424/N600	O-40x2	700	526.32
N1424/N599	O-40x2	621	526.32
N1423/N599	O-40x2	700	526.32
N1423/N598	O-40x2	648	526.32
N1422/N598	O-40x2	700	526.32
N1422/N597	O-40x2	668	526.32
N1421/N597	O-40x2	700	526.32

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1421/N596	O-40x2	684	526.32
N1420/N596	O-40x2	700	526.32
N1420/N595	O-40x2	700	526.32
N1419/N595	O-40x2	700	526.32
N1419/N594	O-40x2	700	526.32
N1418/N594	O-40x2	700	526.32
N1418/N593	O-40x2	700	526.32
N1417/N593	O-40x2	700	526.32
N1417/N592	O-40x2	700	526.32
N1416/N592	O-40x2	700	526.32
N1416/N591	O-40x2	700	526.32
N1415/N591	O-40x2	700	526.32
N1415/N590	O-40x2	700	526.32
N1414/N590	O-40x2	700	526.32
N1414/N589	O-40x2	700	526.32
N1413/N589	O-40x2	700	526.32
N1413/N588	O-40x2	700	526.32
N1412/N588	O-40x2	700	526.32
N1412/N587	O-40x2	700	526.32
N1411/N587	O-40x2	699	526.32
N1411/N586	O-40x2	700	526.32
N1410/N586	O-40x2	683	526.32
N1410/N585	O-40x2	700	526.32
N1409/N585	O-40x2	667	526.32
N1409/N584	O-40x2	700	526.32
N1408/N584	O-40x2	648	526.32
N1408/N583	O-40x2	700	526.32
N1407/N583	O-40x2	621	526.32
N1407/N582	O-40x2	700	526.32
N1406/N582	O-40x2	602	526.32
N1406/N581	O-40x2	700	526.32
N1405/N581	O-40x2	692	526.32
N1405/N580	O-40x2	700	526.32
N1426/N625	O-40x2	700	526.32
N1426/N624	O-40x2	700	526.32
N1425/N624	O-40x2	700	526.32
N1425/N623	O-40x2	700	526.32
N1424/N623	O-40x2	700	526.32
N1424/N622	O-40x2	700	526.32
N1423/N622	O-40x2	700	526.32
N1423/N621	O-40x2	700	526.32
N1422/N621	O-40x2	700	526.32
N1422/N620	O-40x2	700	526.32
N1421/N620	O-40x2	700	526.32
N1421/N619	O-40x2	700	526.32
N1420/N619	O-40x2	700	526.32
N1420/N618	O-40x2	700	526.32
N1419/N618	O-40x2	700	526.32
N1419/N617	O-40x2	700	526.32
N1418/N617	O-40x2	700	526.32
N1418/N616	O-40x2	700	526.32
N1417/N616	O-40x2	700	526.32
N1417/N615	O-40x2	700	526.32
N1416/N615	O-40x2	700	526.32
N1416/N614	O-40x2	700	526.32
N1415/N614	O-40x2	700	526.32

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1415/N613	O-40x2	700	526.32
N1414/N613	O-40x2	700	526.32
N1414/N612	O-40x2	700	526.32
N1413/N612	O-40x2	700	526.32
N1413/N611	O-40x2	700	526.32
N1412/N611	O-40x2	700	526.32
N1412/N610	O-40x2	700	526.32
N1411/N610	O-40x2	700	526.32
N1411/N609	O-40x2	700	526.32
N1410/N609	O-40x2	700	526.32
N1410/N608	O-40x2	700	526.32
N1409/N608	O-40x2	700	526.32
N1409/N607	O-40x2	700	526.32
N1408/N607	O-40x2	700	526.32
N1408/N606	O-40x2	700	526.32
N1407/N606	O-40x2	700	526.32
N1407/N605	O-40x2	700	526.32
N1406/N605	O-40x2	700	526.32
N1406/N604	O-40x2	700	526.32
N1405/N604	O-40x2	700	526.32
N1405/N603	O-40x2	700	526.32
N1448/N625	O-40x2	700	526.32
N1448/N624	O-40x2	700	526.32
N1447/N624	O-40x2	700	526.32
N1447/N623	O-40x2	700	526.32
N1446/N623	O-40x2	700	526.32
N1446/N622	O-40x2	700	526.32
N1445/N622	O-40x2	700	526.32
N1445/N621	O-40x2	700	526.32
N1444/N621	O-40x2	700	526.32
N1444/N620	O-40x2	700	526.32
N1443/N620	O-40x2	700	526.32
N1443/N619	O-40x2	700	526.32
N1442/N619	O-40x2	700	526.32
N1442/N618	O-40x2	700	526.32
N1441/N618	O-40x2	700	526.32
N1441/N617	O-40x2	700	526.32
N1440/N617	O-40x2	700	526.32
N1440/N616	O-40x2	700	526.32
N1439/N616	O-40x2	700	526.32
N1439/N615	O-40x2	700	526.32
N1438/N615	O-40x2	700	526.32
N1438/N614	O-40x2	700	526.32
N1437/N614	O-40x2	700	526.32
N1437/N613	O-40x2	700	526.32
N1436/N613	O-40x2	700	526.32
N1436/N612	O-40x2	700	526.32
N1435/N612	O-40x2	700	526.32
N1435/N611	O-40x2	700	526.32
N1434/N611	O-40x2	700	526.32
N1434/N610	O-40x2	700	526.32
N1433/N610	O-40x2	700	526.32
N1433/N609	O-40x2	700	526.32
N1432/N609	O-40x2	700	526.32
N1432/N608	O-40x2	700	526.32
N1431/N608	O-40x2	700	526.32

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1431/N607	O-40x2	700	526.32
N1430/N607	O-40x2	700	526.32
N1430/N606	O-40x2	700	526.32
N1429/N606	O-40x2	700	526.32
N1429/N605	O-40x2	700	526.32
N1428/N605	O-40x2	700	526.32
N1428/N604	O-40x2	700	526.32
N1427/N604	O-40x2	700	526.32
N1427/N603	O-40x2	700	526.32
N1448/N648	O-40x2	700	526.32
N1448/N647	O-40x2	700	526.32
N1447/N647	O-40x2	700	526.32
N1447/N646	O-40x2	619	526.32
N1446/N646	O-40x2	700	526.32
N1446/N645	O-40x2	634	526.32
N1445/N645	O-40x2	700	526.32
N1445/N644	O-40x2	656	526.32
N1444/N644	O-40x2	700	526.32
N1444/N643	O-40x2	660	526.32
N1443/N643	O-40x2	700	526.32
N1443/N642	O-40x2	663	526.32
N1442/N642	O-40x2	700	526.32
N1442/N641	O-40x2	671	526.32
N1441/N641	O-40x2	700	526.32
N1441/N640	O-40x2	680	526.32
N1440/N640	O-40x2	700	526.32
N1440/N639	O-40x2	691	526.32
N1439/N639	O-40x2	700	526.32
N1439/N638	O-40x2	700	526.32
N1438/N638	O-40x2	700	526.32
N1438/N637	O-40x2	700	526.32
N1437/N637	O-40x2	700	526.32
N1437/N636	O-40x2	700	526.32
N1436/N636	O-40x2	697	526.32
N1436/N635	O-40x2	700	526.32
N1435/N635	O-40x2	682	526.32
N1435/N634	O-40x2	700	526.32
N1434/N634	O-40x2	667	526.32
N1434/N633	O-40x2	700	526.32
N1433/N633	O-40x2	654	526.32
N1433/N632	O-40x2	700	526.32
N1432/N632	O-40x2	641	526.32
N1432/N631	O-40x2	700	526.32
N1431/N631	O-40x2	629	526.32
N1431/N630	O-40x2	700	526.32
N1430/N630	O-40x2	614	526.32
N1430/N629	O-40x2	700	526.32
N1429/N629	O-40x2	596	526.32
N1429/N628	O-40x2	700	526.32
N1428/N628	O-40x2	587	526.32
N1428/N627	O-40x2	700	526.32
N1427/N627	O-40x2	680	526.32
N1427/N626	O-40x2	700	526.32
N1470/N648	O-40x2	700	526.32
N1470/N647	O-40x2	700	526.32
N1469/N647	O-40x2	700	526.32

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1469/N646	O-40x2	700	526.32
N1468/N646	O-40x2	700	526.32
N1468/N645	O-40x2	700	526.32
N1467/N645	O-40x2	700	526.32
N1467/N644	O-40x2	700	526.32
N1466/N644	O-40x2	700	526.32
N1466/N643	O-40x2	700	526.32
N1465/N643	O-40x2	700	526.32
N1465/N642	O-40x2	700	526.32
N1464/N642	O-40x2	700	526.32
N1464/N641	O-40x2	700	526.32
N1463/N641	O-40x2	700	526.32
N1463/N640	O-40x2	700	526.32
N1462/N640	O-40x2	700	526.32
N1462/N639	O-40x2	700	526.32
N1461/N639	O-40x2	700	526.32
N1461/N638	O-40x2	700	526.32
N1460/N638	O-40x2	700	526.32
N1460/N637	O-40x2	700	526.32
N1459/N637	O-40x2	700	526.32
N1459/N636	O-40x2	700	526.32
N1458/N636	O-40x2	700	526.32
N1458/N635	O-40x2	700	526.32
N1457/N635	O-40x2	700	526.32
N1457/N634	O-40x2	700	526.32
N1456/N634	O-40x2	700	526.32
N1456/N633	O-40x2	700	526.32
N1455/N633	O-40x2	700	526.32
N1455/N632	O-40x2	700	526.32
N1454/N632	O-40x2	700	526.32
N1454/N631	O-40x2	698	526.32
N1453/N631	O-40x2	700	526.32
N1453/N630	O-40x2	700	526.32
N1452/N630	O-40x2	700	526.32
N1452/N629	O-40x2	700	526.32
N1451/N629	O-40x2	700	526.32
N1451/N628	O-40x2	700	526.32
N1450/N628	O-40x2	700	526.32
N1450/N627	O-40x2	700	526.32
N1449/N627	O-40x2	700	526.32
N1449/N626	O-40x2	700	526.32
N1470/N671	O-40x2	700	526.32
N1470/N670	O-40x2	700	526.32
N1469/N670	O-40x2	700	526.32
N1469/N669	O-40x2	700	526.32
N1468/N669	O-40x2	700	526.32
N1468/N668	O-40x2	700	526.32
N1467/N668	O-40x2	700	526.32
N1467/N667	O-40x2	699	526.32
N1466/N667	O-40x2	700	526.32
N1466/N666	O-40x2	697	526.32
N1465/N666	O-40x2	700	526.32
N1465/N665	O-40x2	699	526.32
N1464/N665	O-40x2	700	526.32
N1464/N664	O-40x2	700	526.32
N1463/N664	O-40x2	700	526.32

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1463/N663	O-40x2	700	526.32
N1462/N663	O-40x2	700	526.32
N1462/N662	O-40x2	700	526.32
N1461/N662	O-40x2	700	526.32
N1461/N661	O-40x2	700	526.32
N1460/N661	O-40x2	700	526.32
N1460/N660	O-40x2	700	526.32
N1459/N660	O-40x2	700	526.32
N1459/N659	O-40x2	700	526.32
N1458/N659	O-40x2	700	526.32
N1458/N658	O-40x2	700	526.32
N1457/N658	O-40x2	700	526.32
N1457/N657	O-40x2	700	526.32
N1456/N657	O-40x2	694	526.32
N1456/N656	O-40x2	700	526.32
N1455/N656	O-40x2	685	526.32
N1455/N655	O-40x2	700	526.32
N1454/N655	O-40x2	676	526.32
N1454/N654	O-40x2	700	526.32
N1453/N654	O-40x2	666	526.32
N1453/N653	O-40x2	700	526.32
N1452/N653	O-40x2	657	526.32
N1452/N652	O-40x2	700	526.32
N1451/N652	O-40x2	651	526.32
N1451/N651	O-40x2	700	526.32
N1450/N651	O-40x2	661	526.32
N1450/N650	O-40x2	700	526.32
N1449/N650	O-40x2	689	526.32
N1449/N649	O-40x2	700	526.32
N1492/N671	O-40x2	700	526.32
N1492/N670	O-40x2	700	526.32
N1491/N670	O-40x2	700	526.32
N1491/N669	O-40x2	700	526.32
N1490/N669	O-40x2	700	526.32
N1490/N668	O-40x2	700	526.32
N1489/N668	O-40x2	700	526.32
N1489/N667	O-40x2	700	526.32
N1488/N667	O-40x2	700	526.32
N1488/N666	O-40x2	700	526.32
N1487/N666	O-40x2	700	526.32
N1487/N665	O-40x2	700	526.32
N1486/N665	O-40x2	700	526.32
N1486/N664	O-40x2	700	526.32
N1485/N664	O-40x2	700	526.32
N1485/N663	O-40x2	700	526.32
N1484/N663	O-40x2	700	526.32
N1484/N662	O-40x2	700	526.32
N1483/N662	O-40x2	700	526.32
N1483/N661	O-40x2	700	526.32
N1482/N661	O-40x2	700	526.32
N1482/N660	O-40x2	700	526.32
N1481/N660	O-40x2	700	526.32
N1481/N659	O-40x2	700	526.32
N1480/N659	O-40x2	700	526.32
N1480/N658	O-40x2	700	526.32
N1479/N658	O-40x2	700	526.32

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1479/N657	O-40x2	700	526.32
N1478/N657	O-40x2	700	526.32
N1478/N656	O-40x2	700	526.32
N1477/N656	O-40x2	700	526.32
N1477/N655	O-40x2	700	526.32
N1476/N655	O-40x2	700	526.32
N1476/N654	O-40x2	700	526.32
N1475/N654	O-40x2	700	526.32
N1475/N653	O-40x2	700	526.32
N1474/N653	O-40x2	700	526.32
N1474/N652	O-40x2	700	526.32
N1473/N652	O-40x2	700	526.32
N1473/N651	O-40x2	700	526.32
N1472/N651	O-40x2	700	526.32
N1472/N650	O-40x2	700	526.32
N1471/N650	O-40x2	700	526.32
N1471/N649	O-40x2	700	526.32
N1492/N694	O-40x2	700	526.32
N1492/N693	O-40x2	700	526.32
N1491/N693	O-40x2	700	526.32
N1491/N692	O-40x2	700	526.32
N1490/N692	O-40x2	700	526.32
N1490/N691	O-40x2	700	526.32
N1489/N691	O-40x2	700	526.32
N1489/N690	O-40x2	700	526.32
N1488/N690	O-40x2	700	526.32
N1488/N689	O-40x2	700	526.32
N1487/N689	O-40x2	700	526.32
N1487/N688	O-40x2	700	526.32
N1486/N688	O-40x2	700	526.32
N1486/N687	O-40x2	700	526.32
N1485/N687	O-40x2	700	526.32
N1485/N686	O-40x2	700	526.32
N1484/N686	O-40x2	700	526.32
N1484/N685	O-40x2	700	526.32
N1483/N685	O-40x2	700	526.32
N1483/N684	O-40x2	700	526.32
N1482/N684	O-40x2	700	526.32
N1482/N683	O-40x2	700	526.32
N1481/N683	O-40x2	700	526.32
N1481/N682	O-40x2	700	526.32
N1480/N682	O-40x2	700	526.32
N1480/N681	O-40x2	700	526.32
N1479/N681	O-40x2	700	526.32
N1479/N680	O-40x2	700	526.32
N1478/N680	O-40x2	700	526.32
N1478/N679	O-40x2	700	526.32
N1477/N679	O-40x2	700	526.32
N1477/N678	O-40x2	700	526.32
N1476/N678	O-40x2	697	526.32
N1476/N677	O-40x2	700	526.32
N1475/N677	O-40x2	691	526.32
N1475/N676	O-40x2	700	526.32
N1474/N676	O-40x2	687	526.32
N1474/N675	O-40x2	700	526.32
N1473/N675	O-40x2	691	526.32

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1473/N674	O-40x2	700	526.32
N1472/N674	O-40x2	700	526.32
N1472/N673	O-40x2	700	526.32
N1471/N673	O-40x2	700	526.32
N1471/N672	O-40x2	700	526.32
N1514/N694	O-40x2	700	526.32
N1514/N693	O-40x2	700	526.32
N1513/N693	O-40x2	700	526.32
N1513/N692	O-40x2	700	526.32
N1512/N692	O-40x2	700	526.32
N1512/N691	O-40x2	700	526.32
N1511/N691	O-40x2	700	526.32
N1511/N690	O-40x2	700	526.32
N1510/N690	O-40x2	700	526.32
N1510/N689	O-40x2	700	526.32
N1509/N689	O-40x2	700	526.32
N1509/N688	O-40x2	700	526.32
N1508/N688	O-40x2	700	526.32
N1508/N687	O-40x2	700	526.32
N1507/N687	O-40x2	700	526.32
N1507/N686	O-40x2	700	526.32
N1506/N686	O-40x2	700	526.32
N1506/N685	O-40x2	700	526.32
N1505/N685	O-40x2	700	526.32
N1505/N684	O-40x2	700	526.32
N1504/N684	O-40x2	700	526.32
N1504/N683	O-40x2	700	526.32
N1503/N683	O-40x2	700	526.32
N1503/N682	O-40x2	700	526.32
N1502/N682	O-40x2	700	526.32
N1502/N681	O-40x2	700	526.32
N1501/N681	O-40x2	700	526.32
N1501/N680	O-40x2	700	526.32
N1500/N680	O-40x2	700	526.32
N1500/N679	O-40x2	700	526.32
N1499/N679	O-40x2	700	526.32
N1499/N678	O-40x2	700	526.32
N1498/N678	O-40x2	700	526.32
N1498/N677	O-40x2	700	526.32
N1497/N677	O-40x2	700	526.32
N1497/N676	O-40x2	700	526.32
N1496/N676	O-40x2	700	526.32
N1496/N675	O-40x2	700	526.32
N1495/N675	O-40x2	700	526.32
N1495/N674	O-40x2	700	526.32
N1494/N674	O-40x2	700	526.32
N1494/N673	O-40x2	700	526.32
N1493/N673	O-40x2	700	526.32
N1493/N672	O-40x2	700	526.32
N1514/N717	O-40x2	700	526.32
N1514/N716	O-40x2	700	526.32
N1513/N716	O-40x2	700	526.32
N1513/N715	O-40x2	700	526.32
N1512/N715	O-40x2	700	526.32
N1512/N714	O-40x2	700	526.32
N1511/N714	O-40x2	700	526.32

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1511/N713	O-40x2	700	526.32
N1510/N713	O-40x2	700	526.32
N1510/N712	O-40x2	700	526.32
N1509/N712	O-40x2	700	526.32
N1509/N711	O-40x2	700	526.32
N1508/N711	O-40x2	700	526.32
N1508/N710	O-40x2	700	526.32
N1507/N710	O-40x2	700	526.32
N1507/N709	O-40x2	700	526.32
N1506/N709	O-40x2	700	526.32
N1506/N708	O-40x2	700	526.32
N1505/N708	O-40x2	700	526.32
N1505/N707	O-40x2	700	526.32
N1504/N707	O-40x2	700	526.32
N1504/N706	O-40x2	700	526.32
N1503/N706	O-40x2	700	526.32
N1503/N705	O-40x2	700	526.32
N1502/N705	O-40x2	700	526.32
N1502/N704	O-40x2	700	526.32
N1501/N704	O-40x2	700	526.32
N1501/N703	O-40x2	700	526.32
N1500/N703	O-40x2	700	526.32
N1500/N702	O-40x2	700	526.32
N1499/N702	O-40x2	700	526.32
N1499/N701	O-40x2	700	526.32
N1498/N701	O-40x2	700	526.32
N1498/N700	O-40x2	700	526.32
N1497/N700	O-40x2	700	526.32
N1497/N699	O-40x2	700	526.32
N1496/N699	O-40x2	700	526.32
N1496/N698	O-40x2	700	526.32
N1495/N698	O-40x2	700	526.32
N1495/N697	O-40x2	700	526.32
N1494/N697	O-40x2	700	526.32
N1494/N696	O-40x2	700	526.32
N1493/N696	O-40x2	700	526.32
N1493/N695	O-40x2	700	526.32
N1536/N717	O-40x2	700	526.32
N1536/N716	O-40x2	700	526.32
N1535/N716	O-40x2	700	526.32
N1535/N715	O-40x2	700	526.32
N1534/N715	O-40x2	700	526.32
N1534/N714	O-40x2	697	526.32
N1533/N714	O-40x2	700	526.32
N1533/N713	O-40x2	700	526.32
N1532/N713	O-40x2	700	526.32
N1532/N712	O-40x2	700	526.32
N1531/N712	O-40x2	700	526.32
N1531/N711	O-40x2	700	526.32
N1530/N711	O-40x2	700	526.32
N1530/N710	O-40x2	700	526.32
N1529/N710	O-40x2	700	526.32
N1529/N709	O-40x2	700	526.32
N1528/N709	O-40x2	700	526.32
N1528/N708	O-40x2	700	526.32
N1527/N708	O-40x2	700	526.32

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1527/N707	O-40x2	700	526.32
N1526/N707	O-40x2	700	526.32
N1526/N706	O-40x2	700	526.32
N1525/N706	O-40x2	700	526.32
N1525/N705	O-40x2	700	526.32
N1524/N705	O-40x2	700	526.32
N1524/N704	O-40x2	700	526.32
N1523/N704	O-40x2	700	526.32
N1523/N703	O-40x2	700	526.32
N1522/N703	O-40x2	700	526.32
N1522/N702	O-40x2	700	526.32
N1521/N702	O-40x2	700	526.32
N1521/N701	O-40x2	700	526.32
N1520/N701	O-40x2	700	526.32
N1520/N700	O-40x2	700	526.32
N1519/N700	O-40x2	700	526.32
N1519/N699	O-40x2	700	526.32
N1518/N699	O-40x2	700	526.32
N1518/N698	O-40x2	700	526.32
N1517/N698	O-40x2	697	526.32
N1517/N697	O-40x2	700	526.32
N1516/N697	O-40x2	700	526.32
N1516/N696	O-40x2	700	526.32
N1515/N696	O-40x2	700	526.32
N1515/N695	O-40x2	700	526.32
N1536/N740	O-40x2	700	526.32
N1536/N739	O-40x2	700	526.32
N1535/N739	O-40x2	700	526.32
N1535/N738	O-40x2	700	526.32
N1534/N738	O-40x2	700	526.32
N1534/N737	O-40x2	700	526.32
N1533/N737	O-40x2	700	526.32
N1533/N736	O-40x2	700	526.32
N1532/N736	O-40x2	700	526.32
N1532/N735	O-40x2	700	526.32
N1531/N735	O-40x2	700	526.32
N1531/N734	O-40x2	700	526.32
N1530/N734	O-40x2	700	526.32
N1530/N733	O-40x2	700	526.32
N1529/N733	O-40x2	700	526.32
N1529/N732	O-40x2	700	526.32
N1528/N732	O-40x2	700	526.32
N1528/N731	O-40x2	700	526.32
N1527/N731	O-40x2	700	526.32
N1527/N730	O-40x2	700	526.32
N1526/N730	O-40x2	700	526.32
N1526/N729	O-40x2	700	526.32
N1525/N729	O-40x2	700	526.32
N1525/N728	O-40x2	700	526.32
N1524/N728	O-40x2	700	526.32
N1524/N727	O-40x2	700	526.32
N1523/N727	O-40x2	700	526.32
N1523/N726	O-40x2	700	526.32
N1522/N726	O-40x2	700	526.32
N1522/N725	O-40x2	700	526.32
N1521/N725	O-40x2	700	526.32

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1521/N724	O-40x2	700	526.32
N1520/N724	O-40x2	700	526.32
N1520/N723	O-40x2	700	526.32
N1519/N723	O-40x2	700	526.32
N1519/N722	O-40x2	700	526.32
N1518/N722	O-40x2	700	526.32
N1518/N721	O-40x2	700	526.32
N1517/N721	O-40x2	700	526.32
N1517/N720	O-40x2	700	526.32
N1516/N720	O-40x2	700	526.32
N1516/N719	O-40x2	700	526.32
N1515/N719	O-40x2	700	526.32
N1515/N718	O-40x2	700	526.32
N1552/N740	O-40x2	700	526.32
N1552/N739	O-40x2	700	526.32
N1551/N739	O-40x2	700	526.32
N1551/N738	O-40x2	630	526.32
N1550/N738	O-40x2	700	526.32
N1550/N737	O-40x2	643	526.32
N1549/N737	O-40x2	700	526.32
N1549/N736	O-40x2	661	526.32
N1548/N736	O-40x2	700	526.32
N1548/N735	O-40x2	675	526.32
N1547/N733	O-40x2	700	526.32
N1547/N732	O-40x2	697	526.32
N1546/N732	O-40x2	700	526.32
N1546/N731	O-40x2	700	526.32
N1545/N731	O-40x2	700	526.32
N1545/N730	O-40x2	700	526.32
N1544/N728	O-40x2	700	526.32
N1544/N727	O-40x2	700	526.32
N1543/N727	O-40x2	700	526.32
N1543/N726	O-40x2	700	526.32
N1542/N726	O-40x2	700	526.32
N1542/N725	O-40x2	700	526.32
N1541/N723	O-40x2	676	526.32
N1541/N722	O-40x2	700	526.32
N1540/N722	O-40x2	662	526.32
N1540/N721	O-40x2	700	526.32
N1539/N721	O-40x2	644	526.32
N1539/N720	O-40x2	700	526.32
N1538/N720	O-40x2	628	526.32
N1538/N719	O-40x2	700	526.32
N1537/N719	O-40x2	700	526.32
N1537/N718	O-40x2	700	526.32
N1552/N763	O-40x2	700	526.32
N1552/N762	O-40x2	700	526.32
N1551/N762	O-40x2	700	526.32
N1551/N761	O-40x2	700	526.32
N1550/N761	O-40x2	700	526.32
N1550/N760	O-40x2	700	526.32
N1549/N760	O-40x2	700	526.32
N1549/N759	O-40x2	700	526.32
N1548/N759	O-40x2	700	526.32
N1548/N758	O-40x2	700	526.32
N1547/N756	O-40x2	700	526.32

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1547/N755	O-40x2	700	526.32
N1546/N755	O-40x2	700	526.32
N1546/N754	O-40x2	700	526.32
N1545/N754	O-40x2	700	526.32
N1545/N753	O-40x2	700	526.32
N1544/N751	O-40x2	700	526.32
N1544/N750	O-40x2	700	526.32
N1543/N750	O-40x2	700	526.32
N1543/N749	O-40x2	700	526.32
N1542/N749	O-40x2	700	526.32
N1542/N748	O-40x2	700	526.32
N1541/N746	O-40x2	700	526.32
N1541/N745	O-40x2	700	526.32
N1540/N745	O-40x2	700	526.32
N1540/N744	O-40x2	700	526.32
N1539/N744	O-40x2	700	526.32
N1539/N743	O-40x2	700	526.32
N1538/N743	O-40x2	700	526.32
N1538/N742	O-40x2	700	526.32
N1537/N742	O-40x2	700	526.32
N1537/N741	O-40x2	700	526.32
N1568/N763	O-40x2	700	526.32
N1568/N762	O-40x2	700	526.32
N1567/N762	O-40x2	700	526.32
N1567/N761	O-40x2	700	526.32
N1566/N761	O-40x2	700	526.32
N1566/N760	O-40x2	700	526.32
N1565/N760	O-40x2	700	526.32
N1565/N759	O-40x2	700	526.32
N1564/N759	O-40x2	700	526.32
N1564/N758	O-40x2	700	526.32
N1563/N756	O-40x2	700	526.32
N1563/N755	O-40x2	700	526.32
N1562/N755	O-40x2	700	526.32
N1562/N754	O-40x2	700	526.32
N1561/N754	O-40x2	700	526.32
N1561/N753	O-40x2	700	526.32
N1560/N751	O-40x2	700	526.32
N1560/N750	O-40x2	700	526.32
N1559/N750	O-40x2	700	526.32
N1559/N749	O-40x2	700	526.32
N1558/N749	O-40x2	700	526.32
N1558/N748	O-40x2	700	526.32
N1557/N746	O-40x2	700	526.32
N1557/N745	O-40x2	700	526.32
N1556/N745	O-40x2	700	526.32
N1556/N744	O-40x2	700	526.32
N1555/N744	O-40x2	700	526.32
N1555/N743	O-40x2	700	526.32
N1554/N743	O-40x2	700	526.32
N1554/N742	O-40x2	693	526.32
N1553/N742	O-40x2	700	526.32
N1553/N741	O-40x2	700	526.32
N1568/N786	O-40x2	700	526.32
N1568/N785	O-40x2	700	526.32
N1567/N785	O-40x2	700	526.32

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1567/N784	O-40x2	665	526.32
N1566/N784	O-40x2	700	526.32
N1566/N783	O-40x2	668	526.32
N1565/N783	O-40x2	700	526.32
N1565/N782	O-40x2	673	526.32
N1564/N782	O-40x2	700	526.32
N1564/N781	O-40x2	672	526.32
N1563/N779	O-40x2	700	526.32
N1563/N778	O-40x2	686	526.32
N1562/N778	O-40x2	700	526.32
N1562/N777	O-40x2	696	526.32
N1561/N777	O-40x2	700	526.32
N1561/N776	O-40x2	700	526.32
N1560/N774	O-40x2	700	526.32
N1560/N773	O-40x2	700	526.32
N1559/N773	O-40x2	692	526.32
N1559/N772	O-40x2	700	526.32
N1558/N772	O-40x2	685	526.32
N1558/N771	O-40x2	700	526.32
N1557/N769	O-40x2	661	526.32
N1557/N768	O-40x2	700	526.32
N1556/N768	O-40x2	653	526.32
N1556/N767	O-40x2	700	526.32
N1555/N767	O-40x2	643	526.32
N1555/N766	O-40x2	700	526.32
N1554/N766	O-40x2	635	526.32
N1554/N765	O-40x2	700	526.32
N1553/N765	O-40x2	700	526.32
N1553/N764	O-40x2	700	526.32
N1590/N786	O-40x2	700	526.32
N1590/N785	O-40x2	700	526.32
N1589/N785	O-40x2	700	526.32
N1589/N784	O-40x2	700	526.32
N1588/N784	O-40x2	700	526.32
N1588/N783	O-40x2	700	526.32
N1587/N783	O-40x2	700	526.32
N1587/N782	O-40x2	700	526.32
N1586/N782	O-40x2	700	526.32
N1586/N781	O-40x2	700	526.32
N1585/N781	O-40x2	700	526.32
N1585/N780	O-40x2	700	526.32
N1584/N780	O-40x2	700	526.32
N1584/N779	O-40x2	700	526.32
N1583/N779	O-40x2	700	526.32
N1583/N778	O-40x2	695	526.32
N1582/N778	O-40x2	700	526.32
N1582/N777	O-40x2	692	526.32
N1581/N777	O-40x2	700	526.32
N1581/N776	O-40x2	688	526.32
N1580/N776	O-40x2	700	526.32
N1580/N775	O-40x2	682	526.32
N1579/N775	O-40x2	700	526.32
N1579/N774	O-40x2	675	526.32
N1578/N774	O-40x2	700	526.32
N1578/N773	O-40x2	669	526.32
N1577/N773	O-40x2	700	526.32

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1577/N772	O-40x2	665	526.32
N1576/N772	O-40x2	700	526.32
N1576/N771	O-40x2	662	526.32
N1575/N771	O-40x2	700	526.32
N1575/N770	O-40x2	658	526.32
N1574/N770	O-40x2	700	526.32
N1574/N769	O-40x2	655	526.32
N1573/N769	O-40x2	700	526.32
N1573/N768	O-40x2	658	526.32
N1572/N768	O-40x2	700	526.32
N1572/N767	O-40x2	670	526.32
N1571/N767	O-40x2	700	526.32
N1571/N766	O-40x2	691	526.32
N1570/N766	O-40x2	700	526.32
N1570/N765	O-40x2	700	526.32
N1569/N765	O-40x2	700	526.32
N1569/N764	O-40x2	700	526.32
N1590/N809	O-40x2	700	526.32
N1590/N808	O-40x2	700	526.32
N1589/N808	O-40x2	700	526.32
N1589/N807	O-40x2	700	526.32
N1588/N807	O-40x2	700	526.32
N1588/N806	O-40x2	700	526.32
N1587/N806	O-40x2	700	526.32
N1587/N805	O-40x2	700	526.32
N1586/N805	O-40x2	700	526.32
N1586/N804	O-40x2	699	526.32
N1585/N804	O-40x2	700	526.32
N1585/N803	O-40x2	698	526.32
N1584/N803	O-40x2	700	526.32
N1584/N802	O-40x2	700	526.32
N1583/N802	O-40x2	700	526.32
N1583/N801	O-40x2	700	526.32
N1582/N801	O-40x2	700	526.32
N1582/N800	O-40x2	700	526.32
N1581/N800	O-40x2	700	526.32
N1581/N799	O-40x2	700	526.32
N1580/N799	O-40x2	700	526.32
N1580/N798	O-40x2	700	526.32
N1579/N798	O-40x2	700	526.32
N1579/N797	O-40x2	700	526.32
N1578/N797	O-40x2	700	526.32
N1578/N796	O-40x2	700	526.32
N1577/N796	O-40x2	697	526.32
N1577/N795	O-40x2	700	526.32
N1576/N795	O-40x2	693	526.32
N1576/N794	O-40x2	700	526.32
N1575/N794	O-40x2	688	526.32
N1575/N793	O-40x2	700	526.32
N1574/N793	O-40x2	682	526.32
N1574/N792	O-40x2	700	526.32
N1573/N792	O-40x2	676	526.32
N1573/N791	O-40x2	700	526.32
N1572/N791	O-40x2	670	526.32
N1572/N790	O-40x2	700	526.32
N1571/N790	O-40x2	666	526.32

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1571/N789	O-40x2	700	526.32
N1570/N789	O-40x2	671	526.32
N1570/N788	O-40x2	700	526.32
N1569/N788	O-40x2	700	526.32
N1569/N787	O-40x2	700	526.32
N1612/N809	O-40x2	700	526.32
N1612/N808	O-40x2	700	526.32
N1611/N808	O-40x2	700	526.32
N1611/N807	O-40x2	700	526.32
N1610/N807	O-40x2	700	526.32
N1610/N806	O-40x2	700	526.32
N1609/N806	O-40x2	700	526.32
N1609/N805	O-40x2	700	526.32
N1608/N805	O-40x2	700	526.32
N1608/N804	O-40x2	700	526.32
N1607/N804	O-40x2	700	526.32
N1607/N803	O-40x2	700	526.32
N1606/N803	O-40x2	700	526.32
N1606/N802	O-40x2	696	526.32
N1605/N802	O-40x2	700	526.32
N1605/N801	O-40x2	692	526.32
N1604/N801	O-40x2	700	526.32
N1604/N800	O-40x2	692	526.32
N1603/N800	O-40x2	700	526.32
N1603/N799	O-40x2	690	526.32
N1602/N799	O-40x2	700	526.32
N1602/N798	O-40x2	683	526.32
N1601/N798	O-40x2	700	526.32
N1601/N797	O-40x2	677	526.32
N1600/N797	O-40x2	700	526.32
N1600/N796	O-40x2	674	526.32
N1599/N796	O-40x2	700	526.32
N1599/N795	O-40x2	674	526.32
N1598/N795	O-40x2	700	526.32
N1598/N794	O-40x2	673	526.32
N1597/N794	O-40x2	700	526.32
N1597/N793	O-40x2	669	526.32
N1596/N793	O-40x2	700	526.32
N1596/N792	O-40x2	666	526.32
N1595/N792	O-40x2	700	526.32
N1595/N791	O-40x2	669	526.32
N1594/N791	O-40x2	700	526.32
N1594/N790	O-40x2	679	526.32
N1593/N790	O-40x2	700	526.32
N1593/N789	O-40x2	695	526.32
N1592/N789	O-40x2	700	526.32
N1592/N788	O-40x2	700	526.32
N1591/N788	O-40x2	700	526.32
N1591/N787	O-40x2	700	526.32
N1612/N832	O-40x2	700	526.32
N1612/N831	O-40x2	700	526.32
N1611/N831	O-40x2	700	526.32
N1611/N830	O-40x2	700	526.32
N1610/N830	O-40x2	700	526.32
N1610/N829	O-40x2	700	526.32
N1609/N829	O-40x2	700	526.32

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1609/N828	O-40x2	700	526.32
N1608/N828	O-40x2	700	526.32
N1608/N827	O-40x2	700	526.32
N1607/N827	O-40x2	700	526.32
N1607/N826	O-40x2	700	526.32
N1606/N826	O-40x2	700	526.32
N1606/N825	O-40x2	700	526.32
N1605/N825	O-40x2	700	526.32
N1605/N824	O-40x2	700	526.32
N1604/N824	O-40x2	700	526.32
N1604/N823	O-40x2	700	526.32
N1603/N823	O-40x2	700	526.32
N1603/N822	O-40x2	700	526.32
N1602/N822	O-40x2	700	526.32
N1602/N821	O-40x2	700	526.32
N1601/N821	O-40x2	700	526.32
N1601/N820	O-40x2	700	526.32
N1600/N820	O-40x2	700	526.32
N1600/N819	O-40x2	700	526.32
N1599/N819	O-40x2	698	526.32
N1599/N818	O-40x2	700	526.32
N1598/N818	O-40x2	694	526.32
N1598/N817	O-40x2	700	526.32
N1597/N817	O-40x2	692	526.32
N1597/N816	O-40x2	700	526.32
N1596/N816	O-40x2	689	526.32
N1596/N815	O-40x2	700	526.32
N1595/N815	O-40x2	684	526.32
N1595/N814	O-40x2	700	526.32
N1594/N814	O-40x2	680	526.32
N1594/N813	O-40x2	700	526.32
N1593/N813	O-40x2	679	526.32
N1593/N812	O-40x2	700	526.32
N1592/N812	O-40x2	683	526.32
N1592/N811	O-40x2	700	526.32
N1591/N811	O-40x2	700	526.32
N1591/N810	O-40x2	700	526.32
N1634/N832	O-40x2	700	526.32
N1634/N831	O-40x2	700	526.32
N1633/N831	O-40x2	700	526.32
N1633/N830	O-40x2	700	526.32
N1632/N830	O-40x2	700	526.32
N1632/N829	O-40x2	700	526.32
N1631/N829	O-40x2	700	526.32
N1631/N828	O-40x2	700	526.32
N1630/N828	O-40x2	700	526.32
N1630/N827	O-40x2	700	526.32
N1629/N827	O-40x2	700	526.32
N1629/N826	O-40x2	700	526.32
N1628/N826	O-40x2	700	526.32
N1628/N825	O-40x2	691	526.32
N1627/N825	O-40x2	700	526.32
N1627/N824	O-40x2	691	526.32
N1626/N824	O-40x2	700	526.32
N1626/N823	O-40x2	695	526.32
N1625/N823	O-40x2	700	526.32

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1625/N822	O-40x2	693	526.32
N1624/N822	O-40x2	700	526.32
N1624/N821	O-40x2	683	526.32
N1623/N821	O-40x2	700	526.32
N1623/N820	O-40x2	675	526.32
N1622/N820	O-40x2	700	526.32
N1622/N819	O-40x2	676	526.32
N1621/N819	O-40x2	700	526.32
N1621/N818	O-40x2	681	526.32
N1620/N818	O-40x2	700	526.32
N1620/N817	O-40x2	682	526.32
N1619/N817	O-40x2	700	526.32
N1619/N816	O-40x2	675	526.32
N1618/N816	O-40x2	700	526.32
N1618/N815	O-40x2	669	526.32
N1617/N815	O-40x2	700	526.32
N1617/N814	O-40x2	673	526.32
N1616/N814	O-40x2	700	526.32
N1616/N813	O-40x2	683	526.32
N1615/N813	O-40x2	700	526.32
N1615/N812	O-40x2	700	526.32
N1614/N812	O-40x2	700	526.32
N1614/N811	O-40x2	700	526.32
N1613/N811	O-40x2	700	526.32
N1613/N810	O-40x2	700	526.32
N1634/N855	O-40x2	700	526.32
N1634/N854	O-40x2	700	526.32
N1633/N854	O-40x2	700	526.32
N1633/N853	O-40x2	700	526.32
N1632/N853	O-40x2	700	526.32
N1632/N852	O-40x2	700	526.32
N1631/N852	O-40x2	700	526.32
N1631/N851	O-40x2	700	526.32
N1630/N851	O-40x2	700	526.32
N1630/N850	O-40x2	700	526.32
N1629/N850	O-40x2	700	526.32
N1629/N849	O-40x2	700	526.32
N1628/N849	O-40x2	700	526.32
N1628/N848	O-40x2	700	526.32
N1627/N848	O-40x2	700	526.32
N1627/N847	O-40x2	700	526.32
N1626/N847	O-40x2	700	526.32
N1626/N846	O-40x2	700	526.32
N1625/N846	O-40x2	700	526.32
N1625/N845	O-40x2	700	526.32
N1624/N845	O-40x2	700	526.32
N1624/N844	O-40x2	700	526.32
N1623/N844	O-40x2	700	526.32
N1623/N843	O-40x2	700	526.32
N1622/N843	O-40x2	700	526.32
N1622/N842	O-40x2	700	526.32
N1621/N842	O-40x2	695	526.32
N1621/N841	O-40x2	700	526.32
N1620/N841	O-40x2	690	526.32
N1620/N840	O-40x2	700	526.32
N1619/N840	O-40x2	692	526.32

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1619/N839	O-40x2	700	526.32
N1618/N839	O-40x2	694	526.32
N1618/N838	O-40x2	700	526.32
N1617/N838	O-40x2	690	526.32
N1617/N837	O-40x2	700	526.32
N1616/N837	O-40x2	684	526.32
N1616/N836	O-40x2	700	526.32
N1615/N836	O-40x2	685	526.32
N1615/N835	O-40x2	700	526.32
N1614/N835	O-40x2	688	526.32
N1614/N834	O-40x2	700	526.32
N1613/N834	O-40x2	700	526.32
N1613/N833	O-40x2	700	526.32
N1656/N855	O-40x2	700	526.32
N1656/N854	O-40x2	700	526.32
N1655/N854	O-40x2	700	526.32
N1655/N853	O-40x2	700	526.32
N1654/N853	O-40x2	700	526.32
N1654/N852	O-40x2	700	526.32
N1653/N852	O-40x2	700	526.32
N1653/N851	O-40x2	700	526.32
N1652/N851	O-40x2	700	526.32
N1652/N850	O-40x2	700	526.32
N1651/N850	O-40x2	700	526.32
N1651/N849	O-40x2	698	526.32
N1650/N849	O-40x2	700	526.32
N1650/N848	O-40x2	677	526.32
N1649/N848	O-40x2	700	526.32
N1649/N847	O-40x2	689	526.32
N1648/N847	O-40x2	698	526.32
N1648/N846	O-40x2	697	526.32
N1647/N846	O-40x2	698	526.32
N1647/N845	O-40x2	700	526.32
N1646/N845	O-40x2	699	526.32
N1646/N844	O-40x2	682	526.32
N1645/N844	O-40x2	700	526.32
N1645/N843	O-40x2	663	526.32
N1644/N843	O-40x2	700	526.32
N1644/N842	O-40x2	675	526.32
N1643/N842	O-40x2	699	526.32
N1643/N841	O-40x2	690	526.32
N1642/N841	O-40x2	700	526.32
N1642/N840	O-40x2	693	526.32
N1641/N840	O-40x2	700	526.32
N1641/N839	O-40x2	677	526.32
N1640/N839	O-40x2	700	526.32
N1640/N838	O-40x2	661	526.32
N1639/N838	O-40x2	700	526.32
N1639/N837	O-40x2	672	526.32
N1638/N837	O-40x2	699	526.32
N1638/N836	O-40x2	686	526.32
N1637/N836	O-40x2	699	526.32
N1637/N835	O-40x2	700	526.32
N1636/N835	O-40x2	698	526.32
N1636/N834	O-40x2	700	526.32
N1635/N834	O-40x2	700	526.32

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1635/N833	O-40x2	700	526.32
N1656/N26	O-40x2	700	526.32
N1656/N876	O-40x2	700	526.32
N1655/N876	O-40x2	700	526.32
N1655/N875	O-40x2	700	526.32
N1654/N875	O-40x2	700	526.32
N1654/N874	O-40x2	700	526.32
N1653/N874	O-40x2	700	526.32
N1653/N873	O-40x2	700	526.32
N1652/N873	O-40x2	700	526.32
N1652/N872	O-40x2	700	526.32
N1651/N872	O-40x2	700	526.32
N1651/N871	O-40x2	700	526.32
N1650/N871	O-40x2	700	526.32
N1650/N870	O-40x2	700	526.32
N1649/N870	O-40x2	700	526.32
N1649/N869	O-40x2	700	526.32
N1648/N869	O-40x2	700	526.32
N1648/N868	O-40x2	700	526.32
N1647/N868	O-40x2	700	526.32
N1647/N867	O-40x2	700	526.32
N1646/N867	O-40x2	700	526.32
N1646/N866	O-40x2	700	526.32
N1645/N866	O-40x2	700	526.32
N1645/N865	O-40x2	700	526.32
N1644/N865	O-40x2	700	526.32
N1644/N864	O-40x2	700	526.32
N1643/N864	O-40x2	700	526.32
N1643/N863	O-40x2	700	526.32
N1642/N863	O-40x2	700	526.32
N1642/N862	O-40x2	700	526.32
N1641/N862	O-40x2	700	526.32
N1641/N861	O-40x2	700	526.32
N1640/N861	O-40x2	700	526.32
N1640/N860	O-40x2	700	526.32
N1639/N860	O-40x2	700	526.32
N1639/N859	O-40x2	700	526.32
N1638/N859	O-40x2	700	526.32
N1638/N858	O-40x2	700	526.32
N1637/N858	O-40x2	700	526.32
N1637/N857	O-40x2	700	526.32
N1636/N857	O-40x2	700	526.32
N1636/N856	O-40x2	700	526.32
N1635/N856	O-40x2	700	526.32
N1635/N29	O-40x2	700	526.32
N29/N856	O-60x2	700	517.24
N856/N857	O-60x2	700	517.24
N857/N858	O-60x2	700	517.24
N858/N859	O-60x2	700	517.24
N859/N860	O-60x2	700	517.24
N860/N861	O-60x2	700	517.24
N861/N862	O-60x2	700	517.24
N862/N863	O-60x2	700	517.24
N863/N864	O-60x2	700	517.24
N864/N865	O-60x2	700	517.24
N865/N866	O-60x2	700	517.24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N866/N867	O-60x2	700	517.24
N867/N868	O-60x2	700	517.24
N868/N869	O-60x2	700	517.24
N869/N870	O-60x2	700	517.24
N870/N871	O-60x2	700	517.24
N871/N872	O-60x2	700	517.24
N872/N873	O-60x2	700	517.24
N873/N874	O-60x2	700	517.24
N874/N875	O-60x2	700	517.24
N875/N876	O-60x2	700	517.24
N876/N26	O-60x2	700	517.24
N27/N73	O-60x2	700	517.24
N73/N96	O-60x2	700	517.24
N96/N119	O-60x2	700	517.24
N119/N142	O-60x2	700	517.24
N142/N165	O-60x2	700	517.24
N165/N188	O-60x2	700	517.24
N188/N211	O-60x2	700	517.24
N211/N234	O-60x2	700	517.24
N234/N257	O-60x2	700	517.24
N257/N280	O-60x2	700	517.24
N280/N303	O-60x2	700	517.24
N303/N326	O-60x2	700	517.24
N326/N349	O-60x2	700	517.24
N349/N372	O-60x2	700	517.24
N372/N395	O-60x2	700	517.24
N395/N418	O-60x2	700	517.24
N418/N441	O-60x2	700	517.24
N441/N464	O-60x2	700	517.24
N464/N487	O-60x2	700	517.24
N487/N510	O-60x2	700	517.24
N510/N533	O-60x2	700	517.24
N533/N556	O-60x2	700	517.24
N556/N579	O-60x2	700	517.24
N579/N602	O-60x2	700	517.24
N602/N625	O-60x2	700	517.24
N625/N648	O-60x2	700	517.24
N648/N671	O-60x2	700	517.24
N671/N694	O-60x2	700	517.24
N694/N717	O-60x2	700	517.24
N717/N740	O-60x2	700	517.24
N740/N763	O-60x2	700	517.24
N763/N786	O-60x2	700	517.24
N786/N809	O-60x2	700	517.24
N809/N832	O-60x2	700	517.24
N832/N855	O-60x2	700	517.24
N855/N26	O-60x2	700	517.24
N28/N51	O-60x2	700	517.24
N51/N74	O-60x2	700	517.24
N74/N97	O-60x2	700	517.24
N97/N120	O-60x2	700	517.24
N120/N143	O-60x2	700	517.24
N143/N166	O-60x2	700	517.24
N166/N189	O-60x2	700	517.24
N189/N212	O-60x2	700	517.24
N212/N235	O-60x2	700	517.24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N235/N258	O-60x2	700	517.24
N258/N281	O-60x2	700	517.24
N281/N304	O-60x2	700	517.24
N304/N327	O-60x2	700	517.24
N327/N350	O-60x2	700	517.24
N350/N373	O-60x2	700	517.24
N373/N396	O-60x2	700	517.24
N396/N419	O-60x2	700	517.24
N419/N442	O-60x2	700	517.24
N442/N465	O-60x2	700	517.24
N465/N488	O-60x2	700	517.24
N488/N511	O-60x2	700	517.24
N511/N534	O-60x2	700	517.24
N534/N557	O-60x2	700	517.24
N557/N580	O-60x2	700	517.24
N580/N603	O-60x2	700	517.24
N603/N626	O-60x2	700	517.24
N626/N649	O-60x2	700	517.24
N649/N672	O-60x2	700	517.24
N672/N695	O-60x2	700	517.24
N695/N718	O-60x2	700	517.24
N718/N741	O-60x2	700	517.24
N741/N764	O-60x2	700	517.24
N764/N787	O-60x2	700	517.24
N787/N810	O-60x2	700	517.24
N810/N833	O-60x2	700	517.24
N833/N29	O-60x2	700	517.24
N30/N31	O-60x2	700	517.24
N31/N32	O-60x2	700	517.24
N32/N33	O-60x2	700	517.24
N33/N34	O-60x2	700	517.24
N34/N35	O-60x2	700	517.24
N35/N36	O-60x2	700	517.24
N36/N37	O-60x2	700	517.24
N37/N38	O-60x2	700	517.24
N38/N39	O-60x2	700	517.24
N39/N40	O-60x2	700	517.24
N40/N41	O-60x2	700	517.24
N41/N42	O-60x2	700	517.24
N42/N43	O-60x2	700	517.24
N43/N44	O-60x2	700	517.24
N44/N45	O-60x2	700	517.24
N45/N46	O-60x2	700	517.24
N46/N47	O-60x2	700	517.24
N47/N48	O-60x2	700	517.24
N48/N49	O-60x2	700	517.24
N49/N50	O-60x2	700	517.24
N50/N27	O-60x2	700	517.24
N28/N30	O-60x2	700	517.24
N1964/N1553	O-40x3	665	360.36
N1964/N1537	O-40x3	698	360.36
N1978/N1568	O-40x3	672	360.36
N1978/N1552	O-40x3	697	360.36
N1955/N1316	O-40x3	699	360.36
N1955/N1294	O-40x3	700	360.36
N2024/N1184	O-40x3	692	360.36

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N2024/N1162	O-40x3	685	360.36
N2001/N1052	O-40x3	654	360.36
N2001/N1030	O-40x3	649	360.36
N1846/N942	O-40x3	663	360.36
N1846/N920	O-40x3	700	360.36
N1822/N921	O-40x3	678	360.36
N1822/N899	O-40x3	700	360.36
N1987/N1031	O-40x3	683	360.36
N1987/N1009	O-40x3	651	360.36
N2010/N1163	O-40x3	700	360.36
N2010/N1141	O-40x3	687	360.36
N1941/N1295	O-40x3	699	360.36
N1941/N1273	O-40x3	700	360.36
N1/N1662	Ø20	700	200.00
N15/N1658	Ø20	700	200.00
N6/N1665	Ø20	700	200.00
N17/N1663	Ø20	700	200.00
N1669/N1670	SHS 250x8.0	700	128.59
N1670/N2029	SHS 250x8.0	700	128.59
N2029/N1893	SHS 250x8.0	700	128.59
N1893/N1671	SHS 250x8.0	700	128.59
N1672/N1673	SHS 250x8.0	700	128.59
N1673/N2031	SHS 250x8.0	700	128.59
N2031/N1908	SHS 250x8.0	700	128.59
N1908/N1674	SHS 250x8.0	700	128.59
N1669/N1657	Ø20	700	200.00
N8/N1670	Ø20	700	200.00
N1675/N1670	Ø20	700	200.00
N1669/N1676	Ø20	700	200.00
N1681/N1673	Ø20	700	200.00
N1672/N1682	Ø20	700	200.00
N1672/N1664	Ø20	700	200.00
N24/N1673	Ø20	700	200.00
N1687/N1585	O-60x2	700	517.24
N1531/N1684	O-60x2	700	517.24
N1685/N1684	O-60x2	700	517.24
N1547/N1685	O-60x2	700	517.24
N1684/N1548	O-60x2	700	517.24
N1686/N1584	O-60x2	700	517.24
N1530/N1685	O-60x2	700	517.24
N1563/N1686	O-60x2	700	517.24
N1686/N1687	O-60x2	700	517.24
N1687/N1564	O-60x2	700	517.24
N1690/N1580	O-60x2	700	517.24
N1526/N1688	O-60x2	700	517.24
N1691/N1579	O-60x2	700	517.24
N1525/N1689	O-60x2	700	517.24
N1544/N1689	O-60x2	700	517.24
N1689/N1688	O-60x2	700	517.24
N1688/N1545	O-60x2	700	517.24
N1560/N1691	O-60x2	700	517.24
N1691/N1690	O-60x2	700	517.24
N1690/N1561	O-60x2	700	517.24
N1695/N1693	O-60x2	700	517.24
N1557/N1695	O-60x2	700	517.24
N1693/N1558	O-60x2	700	517.24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1694/N1692	O-60x2	700	517.24
N1541/N1694	O-60x2	700	517.24
N1692/N1542	O-60x2	700	517.24
N1693/N1575	O-60x2	700	517.24
N1521/N1692	O-60x2	700	517.24
N1695/N1574	O-60x2	700	517.24
N1520/N1694	O-60x2	700	517.24
N1686/N779	O-40x2	678	526.32
N1686/N780	O-40x2	700	526.32
N1687/N780	O-40x2	672	526.32
N1687/N781	O-40x2	700	526.32
N1686/N756	O-40x2	700	526.32
N1685/N756	O-40x2	700	526.32
N1685/N733	O-40x2	695	526.32
N1685/N734	O-40x2	700	526.32
N1684/N734	O-40x2	687	526.32
N1687/N758	O-40x2	700	526.32
N1684/N758	O-40x2	700	526.32
N1684/N735	O-40x2	700	526.32
N1686/N757	O-40x2	700	526.32
N1684/N757	O-40x2	700	526.32
N1687/N757	O-40x2	700	526.32
N1685/N757	O-40x2	700	526.32
N1691/N774	O-40x2	700	526.32
N1691/N775	O-40x2	700	526.32
N1691/N751	O-40x2	700	526.32
N1689/N751	O-40x2	700	526.32
N1689/N728	O-40x2	700	526.32
N1689/N729	O-40x2	700	526.32
N1690/N775	O-40x2	700	526.32
N1690/N776	O-40x2	700	526.32
N1690/N753	O-40x2	700	526.32
N1688/N753	O-40x2	700	526.32
N1688/N730	O-40x2	700	526.32
N1688/N729	O-40x2	700	526.32
N1689/N752	O-40x2	700	526.32
N1691/N752	O-40x2	700	526.32
N1688/N752	O-40x2	700	526.32
N1690/N752	O-40x2	700	526.32
N1694/N746	O-40x2	700	526.32
N1694/N723	O-40x2	700	526.32
N1694/N724	O-40x2	688	526.32
N1692/N724	O-40x2	700	526.32
N1692/N748	O-40x2	700	526.32
N1693/N748	O-40x2	700	526.32
N1693/N771	O-40x2	676	526.32
N1693/N770	O-40x2	700	526.32
N1695/N770	O-40x2	668	526.32
N1695/N746	O-40x2	700	526.32
N1694/N747	O-40x2	700	526.32
N1693/N747	O-40x2	700	526.32
N1695/N747	O-40x2	700	526.32
N1692/N747	O-40x2	700	526.32
N1695/N769	O-40x2	700	526.32
N1914/N1706	SHS 80x3.0	700	344.36
N1923/N1711	SHS 80x3.0	700	344.36

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1918/N1696	SHS 80x3.0	700	344.36
N1915/N1701	SHS 80x3.0	700	344.36
N1914/N1408	O-60x2	700	517.24
N1914/N1430	O-60x2	700	517.24
N1923/N1435	O-60x2	700	517.24
N1918/N1440	O-60x2	700	517.24
N1915/N1445	O-60x2	700	517.24
N1915/N1423	O-60x2	700	517.24
N1913/N1705	SHS 80x3.0	700	344.36
N1912/N1704	SHS 80x3.0	700	344.36
N1929/N1707	SHS 80x3.0	700	344.36
N1930/N1708	SHS 80x3.0	700	344.36
N1931/N1709	SHS 80x3.0	700	344.36
N1932/N1710	SHS 80x3.0	700	344.36
N1924/N1712	SHS 80x3.0	700	344.36
N1925/N1713	SHS 80x3.0	700	344.36
N1927/N1714	SHS 80x3.0	700	344.36
N1928/N1715	SHS 80x3.0	700	344.36
N1919/N1697	SHS 80x3.0	700	344.36
N1920/N1698	SHS 80x3.0	700	344.36
N1921/N1699	SHS 80x3.0	700	344.36
N1922/N1700	SHS 80x3.0	700	344.36
N1916/N1702	SHS 80x3.0	700	344.36
N1917/N1703	SHS 80x3.0	700	344.36
N1912/N1428	O-60x2	677	517.24
N1912/N1406	O-60x2	685	517.24
N1913/N1429	O-60x2	700	517.24
N1913/N1407	O-60x2	700	517.24
N1929/N1431	O-60x2	700	517.24
N1929/N1409	O-60x2	700	517.24
N1930/N1432	O-60x2	700	517.24
N1930/N1410	O-60x2	700	517.24
N1931/N1433	O-60x2	700	517.24
N1931/N1411	O-60x2	700	517.24
N1932/N1434	O-60x2	700	517.24
N1932/N1412	O-60x2	700	517.24
N1923/N1413	O-60x2	700	517.24
N1924/N1436	O-60x2	700	517.24
N1924/N1414	O-60x2	700	517.24
N1925/N1437	O-60x2	700	517.24
N1925/N1415	O-60x2	700	517.24
N1927/N1438	O-60x2	700	517.24
N1927/N1416	O-60x2	700	517.24
N1928/N1439	O-60x2	700	517.24
N1928/N1417	O-60x2	700	517.24
N1918/N1418	O-60x2	700	517.24
N1919/N1441	O-60x2	700	517.24
N1919/N1419	O-60x2	700	517.24
N1920/N1442	O-60x2	700	517.24
N1920/N1420	O-60x2	700	517.24
N1921/N1443	O-60x2	700	517.24
N1921/N1421	O-60x2	700	517.24
N1922/N1444	O-60x2	700	517.24
N1922/N1422	O-60x2	700	517.24
N1916/N1446	O-60x2	700	517.24
N1916/N1424	O-60x2	700	517.24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1917/N1447	O-60x2	688	517.24
N1917/N1425	O-60x2	686	517.24
N12/N1722	SHS 250x5.0	350	203.42
N1722/N1716	SHS 250x5.0	350	203.42
N1716/N1717	SHS 250x5.0	350	203.42
N1717/N1718	SHS 250x5.0	350	203.42
N1718/N1719	SHS 250x5.0	350	203.42
N1719/N1720	SHS 250x5.0	350	203.42
N1720/N1721	SHS 250x5.0	350	203.42
N1721/N1723	SHS 250x5.0	350	203.42
N1723/N1724	SHS 250x5.0	350	203.42
N1724/N1725	SHS 250x5.0	350	203.42
N1725/N1726	SHS 250x5.0	350	203.42
N1726/N1727	SHS 250x5.0	350	203.42
N1727/N1728	SHS 250x5.0	350	203.42
N1728/N1729	SHS 250x5.0	350	203.42
N1729/N1730	SHS 250x5.0	350	203.42
N1730/N1731	SHS 250x5.0	350	203.42
N1731/N1732	SHS 250x5.0	350	203.42
N1732/N1733	SHS 250x5.0	350	203.42
N1733/N1734	SHS 250x5.0	350	203.42
N1734/N1735	SHS 250x5.0	350	203.42
N1735/N22	SHS 250x5.0	350	203.42
N1941/N1939	SHS 250x5.0	350	203.42
N1939/N1940	SHS 250x5.0	350	203.42
N1940/N1933	SHS 250x5.0	350	203.42
N1933/N1934	SHS 250x5.0	350	203.42
N1934/N1935	SHS 250x5.0	350	203.42
N1935/N1936	SHS 250x5.0	350	203.42
N1936/N1937	SHS 250x5.0	350	203.42
N1937/N1938	SHS 250x5.0	350	203.42
N1938/N1942	SHS 250x5.0	350	203.42
N1942/N1943	SHS 250x5.0	350	203.42
N1943/N1944	SHS 250x5.0	350	203.42
N1944/N1945	SHS 250x5.0	350	203.42
N1945/N1946	SHS 250x5.0	350	203.42
N1946/N1947	SHS 250x5.0	350	203.42
N1947/N1948	SHS 250x5.0	350	203.42
N1948/N1949	SHS 250x5.0	350	203.42
N1949/N1950	SHS 250x5.0	350	203.42
N1950/N1951	SHS 250x5.0	350	203.42
N1951/N1952	SHS 250x5.0	350	203.42
N1952/N1953	SHS 250x5.0	350	203.42
N1953/N1954	SHS 250x5.0	350	203.42
N1954/N1955	SHS 250x5.0	350	203.42
N1933/N1717	SHS 80x3.0	700	344.36
N1933/N1276	O-60x2	700	517.24
N1933/N1298	O-60x2	700	517.24
N1934/N1718	SHS 80x3.0	700	344.36
N1935/N1719	SHS 80x3.0	700	344.36
N1936/N1720	SHS 80x3.0	700	344.36
N1937/N1721	SHS 80x3.0	700	344.36
N1934/N1299	O-60x2	700	517.24
N1934/N1277	O-60x2	700	517.24
N1935/N1300	O-60x2	700	517.24
N1935/N1278	O-60x2	700	517.24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1936/N1301	O-60x2	700	517.24
N1936/N1279	O-60x2	700	517.24
N1937/N1302	O-60x2	700	517.24
N1937/N1280	O-60x2	700	517.24
N1940/N1716	SHS 80x3.0	700	344.36
N1939/N1274	O-60x2	680	517.24
N1940/N1297	O-60x2	700	517.24
N1940/N1275	O-60x2	700	517.24
N1939/N1722	SHS 80x3.0	700	344.36
N1939/N1296	O-60x2	670	517.24
N1938/N1723	SHS 80x3.0	700	344.36
N1938/N1303	O-60x2	700	517.24
N1942/N1724	SHS 80x3.0	700	344.36
N1943/N1725	SHS 80x3.0	700	344.36
N1945/N1726	SHS 80x3.0	700	344.36
N1938/N1281	O-60x2	700	517.24
N1942/N1304	O-60x2	700	517.24
N1942/N1282	O-60x2	700	517.24
N1943/N1305	O-60x2	700	517.24
N1943/N1283	O-60x2	700	517.24
N1945/N1306	O-60x2	700	517.24
N1945/N1284	O-60x2	700	517.24
N1947/N1728	SHS 80x3.0	700	344.36
N1947/N1308	O-60x2	700	517.24
N1946/N1727	SHS 80x3.0	700	344.36
N1946/N1307	O-60x2	700	517.24
N1946/N1285	O-60x2	700	517.24
N1947/N1286	O-60x2	700	517.24
N1948/N1729	SHS 80x3.0	700	344.36
N1949/N1730	SHS 80x3.0	700	344.36
N1950/N1731	SHS 80x3.0	700	344.36
N1948/N1309	O-60x2	700	517.24
N1948/N1287	O-60x2	700	517.24
N1949/N1310	O-60x2	700	517.24
N1949/N1288	O-60x2	700	517.24
N1950/N1311	O-60x2	700	517.24
N1950/N1289	O-60x2	700	517.24
N1952/N1733	SHS 80x3.0	700	344.36
N1952/N1313	O-60x2	700	517.24
N1952/N1291	O-60x2	700	517.24
N1951/N1732	SHS 80x3.0	700	344.36
N1953/N1734	SHS 80x3.0	700	344.36
N1951/N1312	O-60x2	700	517.24
N1951/N1290	O-60x2	700	517.24
N1953/N1314	O-60x2	700	517.24
N1954/N1735	SHS 80x3.0	700	344.36
N1953/N1292	O-60x2	700	517.24
N1954/N1315	O-60x2	671	517.24
N1954/N1293	O-60x2	680	517.24
N14/N1742	SHS 250x5.0	350	203.42
N1742/N1736	SHS 250x5.0	350	203.42
N1736/N1737	SHS 250x5.0	350	203.42
N1737/N1738	SHS 250x5.0	350	203.42
N1738/N1739	SHS 250x5.0	350	203.42
N1739/N1740	SHS 250x5.0	350	203.42
N1740/N1741	SHS 250x5.0	350	203.42

Listados
Coberta de 46'8x28'6 malla tetràedres
Fecha: 20/12/24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1741/N1743	SHS 250x5.0	350	203.42
N1743/N1744	SHS 250x5.0	350	203.42
N1744/N1745	SHS 250x5.0	350	203.42
N1745/N1746	SHS 250x5.0	350	203.42
N1746/N1747	SHS 250x5.0	350	203.42
N1747/N1748	SHS 250x5.0	350	203.42
N1748/N1749	SHS 250x5.0	350	203.42
N1749/N1750	SHS 250x5.0	350	203.42
N1750/N1751	SHS 250x5.0	350	203.42
N1751/N1752	SHS 250x5.0	350	203.42
N1752/N1753	SHS 250x5.0	350	203.42
N1753/N1754	SHS 250x5.0	350	203.42
N1754/N1755	SHS 250x5.0	350	203.42
N1755/N20	SHS 250x5.0	350	203.42
N2010/N2008	SHS 250x5.0	350	203.42
N2008/N2009	SHS 250x5.0	350	203.42
N2009/N2002	SHS 250x5.0	350	203.42
N2002/N2003	SHS 250x5.0	350	203.42
N2003/N2004	SHS 250x5.0	350	203.42
N2004/N2005	SHS 250x5.0	350	203.42
N2005/N2006	SHS 250x5.0	350	203.42
N2006/N2007	SHS 250x5.0	350	203.42
N2007/N2011	SHS 250x5.0	350	203.42
N2011/N2012	SHS 250x5.0	350	203.42
N2012/N2013	SHS 250x5.0	350	203.42
N2013/N2014	SHS 250x5.0	350	203.42
N2014/N2015	SHS 250x5.0	350	203.42
N2015/N2016	SHS 250x5.0	350	203.42
N2016/N2017	SHS 250x5.0	350	203.42
N2017/N2018	SHS 250x5.0	350	203.42
N2018/N2019	SHS 250x5.0	350	203.42
N2019/N2020	SHS 250x5.0	350	203.42
N2020/N2021	SHS 250x5.0	350	203.42
N2021/N2022	SHS 250x5.0	350	203.42
N2022/N2023	SHS 250x5.0	350	203.42
N2023/N2024	SHS 250x5.0	350	203.42
N2002/N1737	SHS 80x3.0	700	344.36
N2002/N1144	O-60x2	700	517.24
N2002/N1166	O-60x2	700	517.24
N2003/N1738	SHS 80x3.0	700	344.36
N2004/N1739	SHS 80x3.0	700	344.36
N2005/N1740	SHS 80x3.0	700	344.36
N2006/N1741	SHS 80x3.0	700	344.36
N2003/N1167	O-60x2	700	517.24
N2003/N1145	O-60x2	700	517.24
N2004/N1168	O-60x2	700	517.24
N2004/N1146	O-60x2	700	517.24
N2005/N1169	O-60x2	700	517.24
N2005/N1147	O-60x2	700	517.24
N2006/N1170	O-60x2	700	517.24
N2006/N1148	O-60x2	700	517.24
N2009/N1736	SHS 80x3.0	700	344.36
N2008/N1142	O-60x2	684	517.24
N2009/N1165	O-60x2	700	517.24
N2009/N1143	O-60x2	700	517.24
N2008/N1742	SHS 80x3.0	700	344.36

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N2008/N1164	O-60x2	671	517.24
N2007/N1743	SHS 80x3.0	700	344.36
N2007/N1171	O-60x2	700	517.24
N2011/N1744	SHS 80x3.0	700	344.36
N2012/N1745	SHS 80x3.0	700	344.36
N2014/N1746	SHS 80x3.0	700	344.36
N2007/N1149	O-60x2	700	517.24
N2011/N1172	O-60x2	700	517.24
N2011/N1150	O-60x2	700	517.24
N2012/N1173	O-60x2	700	517.24
N2012/N1151	O-60x2	700	517.24
N2014/N1174	O-60x2	700	517.24
N2014/N1152	O-60x2	700	517.24
N2016/N1748	SHS 80x3.0	700	344.36
N2016/N1176	O-60x2	700	517.24
N2015/N1747	SHS 80x3.0	700	344.36
N2015/N1175	O-60x2	700	517.24
N2015/N1153	O-60x2	700	517.24
N2016/N1154	O-60x2	700	517.24
N2017/N1749	SHS 80x3.0	700	344.36
N2018/N1750	SHS 80x3.0	700	344.36
N2019/N1751	SHS 80x3.0	700	344.36
N2017/N1177	O-60x2	700	517.24
N2017/N1155	O-60x2	700	517.24
N2018/N1178	O-60x2	700	517.24
N2018/N1156	O-60x2	700	517.24
N2019/N1179	O-60x2	700	517.24
N2019/N1157	O-60x2	700	517.24
N2021/N1753	SHS 80x3.0	700	344.36
N2021/N1181	O-60x2	700	517.24
N2021/N1159	O-60x2	700	517.24
N2020/N1752	SHS 80x3.0	700	344.36
N2022/N1754	SHS 80x3.0	700	344.36
N2020/N1180	O-60x2	700	517.24
N2020/N1158	O-60x2	700	517.24
N2022/N1182	O-60x2	700	517.24
N2023/N1755	SHS 80x3.0	700	344.36
N2022/N1160	O-60x2	700	517.24
N2023/N1183	O-60x2	665	517.24
N2023/N1161	O-60x2	684	517.24
N16/N1762	SHS 250x5.0	350	203.42
N1762/N1756	SHS 250x5.0	350	203.42
N1756/N1757	SHS 250x5.0	350	203.42
N1757/N1758	SHS 250x5.0	350	203.42
N1758/N1759	SHS 250x5.0	350	203.42
N1759/N1760	SHS 250x5.0	350	203.42
N1760/N1761	SHS 250x5.0	350	203.42
N1761/N1763	SHS 250x5.0	350	203.42
N1763/N1764	SHS 250x5.0	350	203.42
N1764/N1765	SHS 250x5.0	350	203.42
N1765/N1766	SHS 250x5.0	350	203.42
N1766/N1767	SHS 250x5.0	350	203.42
N1767/N1768	SHS 250x5.0	350	203.42
N1768/N1769	SHS 250x5.0	350	203.42
N1769/N1770	SHS 250x5.0	350	203.42
N1770/N1771	SHS 250x5.0	350	203.42

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1771/N1772	SHS 250x5.0	350	203.42
N1772/N1773	SHS 250x5.0	350	203.42
N1773/N1774	SHS 250x5.0	350	203.42
N1774/N1775	SHS 250x5.0	350	203.42
N1775/N18	SHS 250x5.0	350	203.42
N1987/N1985	SHS 250x5.0	350	203.42
N1985/N1986	SHS 250x5.0	350	203.42
N1986/N1979	SHS 250x5.0	350	203.42
N1979/N1980	SHS 250x5.0	350	203.42
N1980/N1981	SHS 250x5.0	350	203.42
N1981/N1982	SHS 250x5.0	350	203.42
N1982/N1983	SHS 250x5.0	350	203.42
N1983/N1984	SHS 250x5.0	350	203.42
N1984/N1988	SHS 250x5.0	350	203.42
N1988/N1989	SHS 250x5.0	350	203.42
N1989/N1990	SHS 250x5.0	350	203.42
N1990/N1991	SHS 250x5.0	350	203.42
N1991/N1992	SHS 250x5.0	350	203.42
N1992/N1993	SHS 250x5.0	350	203.42
N1993/N1994	SHS 250x5.0	350	203.42
N1994/N1995	SHS 250x5.0	350	203.42
N1995/N1996	SHS 250x5.0	350	203.42
N1996/N1997	SHS 250x5.0	350	203.42
N1997/N1998	SHS 250x5.0	350	203.42
N1998/N1999	SHS 250x5.0	350	203.42
N1999/N2000	SHS 250x5.0	350	203.42
N2000/N2001	SHS 250x5.0	350	203.42
N1979/N1757	SHS 80x3.0	700	344.36
N1979/N1012	O-60x2	700	517.24
N1979/N1034	O-60x2	700	517.24
N1980/N1758	SHS 80x3.0	700	344.36
N1981/N1759	SHS 80x3.0	700	344.36
N1982/N1760	SHS 80x3.0	700	344.36
N1983/N1761	SHS 80x3.0	700	344.36
N1980/N1035	O-60x2	700	517.24
N1980/N1013	O-60x2	700	517.24
N1981/N1036	O-60x2	700	517.24
N1981/N1014	O-60x2	700	517.24
N1982/N1037	O-60x2	700	517.24
N1982/N1015	O-60x2	700	517.24
N1983/N1038	O-60x2	700	517.24
N1983/N1016	O-60x2	700	517.24
N1986/N1756	SHS 80x3.0	700	344.36
N1985/N1010	O-60x2	700	517.24
N1986/N1033	O-60x2	700	517.24
N1986/N1011	O-60x2	700	517.24
N1985/N1762	SHS 80x3.0	700	344.36
N1985/N1032	O-60x2	682	517.24
N1984/N1763	SHS 80x3.0	700	344.36
N1984/N1039	O-60x2	700	517.24
N1988/N1764	SHS 80x3.0	700	344.36
N1989/N1765	SHS 80x3.0	700	344.36
N1991/N1766	SHS 80x3.0	700	344.36
N1984/N1017	O-60x2	700	517.24
N1988/N1040	O-60x2	700	517.24
N1988/N1018	O-60x2	700	517.24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1989/N1041	O-60x2	700	517.24
N1989/N1019	O-60x2	700	517.24
N1991/N1042	O-60x2	700	517.24
N1991/N1020	O-60x2	700	517.24
N1993/N1768	SHS 80x3.0	700	344.36
N1993/N1044	O-60x2	700	517.24
N1992/N1767	SHS 80x3.0	700	344.36
N1992/N1043	O-60x2	700	517.24
N1992/N1021	O-60x2	700	517.24
N1993/N1022	O-60x2	700	517.24
N1994/N1769	SHS 80x3.0	700	344.36
N1995/N1770	SHS 80x3.0	700	344.36
N1996/N1771	SHS 80x3.0	700	344.36
N1994/N1045	O-60x2	700	517.24
N1994/N1023	O-60x2	700	517.24
N1995/N1046	O-60x2	700	517.24
N1995/N1024	O-60x2	700	517.24
N1996/N1047	O-60x2	700	517.24
N1996/N1025	O-60x2	700	517.24
N1998/N1773	SHS 80x3.0	700	344.36
N1998/N1049	O-60x2	700	517.24
N1998/N1027	O-60x2	700	517.24
N1997/N1772	SHS 80x3.0	700	344.36
N1999/N1774	SHS 80x3.0	700	344.36
N1997/N1048	O-60x2	700	517.24
N1997/N1026	O-60x2	700	517.24
N1999/N1050	O-60x2	700	517.24
N2000/N1775	SHS 80x3.0	700	344.36
N1999/N1028	O-60x2	700	517.24
N2000/N1051	O-60x2	666	517.24
N2000/N1029	O-60x2	700	517.24
N9/N1782	SHS 250x5.0	350	203.42
N1782/N1776	SHS 250x5.0	350	203.42
N1776/N1777	SHS 250x5.0	350	203.42
N1777/N1778	SHS 250x5.0	350	203.42
N1778/N1779	SHS 250x5.0	350	203.42
N1779/N1780	SHS 250x5.0	350	203.42
N1780/N1781	SHS 250x5.0	350	203.42
N1781/N1783	SHS 250x5.0	350	203.42
N1783/N1784	SHS 250x5.0	350	203.42
N1784/N1785	SHS 250x5.0	350	203.42
N1785/N1786	SHS 250x5.0	350	203.42
N1786/N1787	SHS 250x5.0	350	203.42
N1787/N1788	SHS 250x5.0	350	203.42
N1788/N1789	SHS 250x5.0	350	203.42
N1789/N1790	SHS 250x5.0	350	203.42
N1790/N1791	SHS 250x5.0	350	203.42
N1791/N1792	SHS 250x5.0	350	203.42
N1792/N1793	SHS 250x5.0	350	203.42
N1793/N1794	SHS 250x5.0	350	203.42
N1794/N1795	SHS 250x5.0	350	203.42
N1795/N25	SHS 250x5.0	350	203.42
N1964/N1962	SHS 250x5.0	350	203.42
N1962/N1963	SHS 250x5.0	350	203.42
N1963/N1956	SHS 250x5.0	350	203.42
N1956/N1957	SHS 250x5.0	350	203.42

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1957/N1958	SHS 250x5.0	350	203.42
N1958/N1959	SHS 250x5.0	350	203.42
N1959/N1960	SHS 250x5.0	350	203.42
N1960/N1961	SHS 250x5.0	350	203.42
N1961/N1965	SHS 250x5.0	350	203.42
N1965/N1966	SHS 250x5.0	350	203.42
N1966/N1967	SHS 250x5.0	350	203.42
N1967/N1968	SHS 250x5.0	350	203.42
N1968/N1969	SHS 250x5.0	350	203.42
N1969/N1970	SHS 250x5.0	350	203.42
N1970/N1971	SHS 250x5.0	350	203.42
N1971/N1972	SHS 250x5.0	350	203.42
N1972/N1973	SHS 250x5.0	350	203.42
N1973/N1974	SHS 250x5.0	350	203.42
N1974/N1975	SHS 250x5.0	350	203.42
N1975/N1976	SHS 250x5.0	350	203.42
N1976/N1977	SHS 250x5.0	350	203.42
N1977/N1978	SHS 250x5.0	350	203.42
N1956/N1777	SHS 80x3.0	700	344.36
N1956/N1540	O-60x2	700	517.24
N1956/N1556	O-60x2	700	517.24
N1957/N1778	SHS 80x3.0	700	344.36
N1958/N1779	SHS 80x3.0	700	344.36
N1959/N1780	SHS 80x3.0	700	344.36
N1960/N1781	SHS 80x3.0	700	344.36
N1957/N1557	O-60x2	700	517.24
N1957/N1541	O-60x2	700	517.24
N1958/N1695	O-60x2	700	517.24
N1958/N1694	O-60x2	700	517.24
N1959/N1693	O-60x2	700	517.24
N1959/N1692	O-60x2	700	517.24
N1960/N1558	O-60x2	700	517.24
N1960/N1542	O-60x2	700	517.24
N1963/N1776	SHS 80x3.0	700	344.36
N1962/N1538	O-60x2	697	517.24
N1963/N1555	O-60x2	700	517.24
N1963/N1539	O-60x2	700	517.24
N1962/N1782	SHS 80x3.0	700	344.36
N1962/N1554	O-60x2	700	517.24
N1961/N1783	SHS 80x3.0	700	344.36
N1961/N1559	O-60x2	700	517.24
N1965/N1784	SHS 80x3.0	700	344.36
N1966/N1785	SHS 80x3.0	700	344.36
N1968/N1786	SHS 80x3.0	700	344.36
N1961/N1543	O-60x2	700	517.24
N1965/N1560	O-60x2	700	517.24
N1965/N1544	O-60x2	700	517.24
N1966/N1691	O-60x2	700	517.24
N1966/N1689	O-60x2	700	517.24
N1968/N1690	O-60x2	700	517.24
N1968/N1688	O-60x2	700	517.24
N1970/N1788	SHS 80x3.0	700	344.36
N1970/N1562	O-60x2	700	517.24
N1969/N1787	SHS 80x3.0	700	344.36
N1969/N1561	O-60x2	700	517.24
N1969/N1545	O-60x2	700	517.24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1970/N1546	O-60x2	700	517.24
N1971/N1789	SHS 80x3.0	700	344.36
N1972/N1790	SHS 80x3.0	700	344.36
N1973/N1791	SHS 80x3.0	700	344.36
N1971/N1563	O-60x2	700	517.24
N1971/N1547	O-60x2	700	517.24
N1972/N1686	O-60x2	700	517.24
N1972/N1685	O-60x2	700	517.24
N1973/N1687	O-60x2	700	517.24
N1973/N1684	O-60x2	700	517.24
N1975/N1793	SHS 80x3.0	700	344.36
N1975/N1565	O-60x2	700	517.24
N1975/N1549	O-60x2	700	517.24
N1974/N1792	SHS 80x3.0	700	344.36
N1976/N1794	SHS 80x3.0	700	344.36
N1974/N1564	O-60x2	700	517.24
N1974/N1548	O-60x2	700	517.24
N1976/N1566	O-60x2	700	517.24
N1977/N1795	SHS 80x3.0	700	344.36
N1976/N1550	O-60x2	700	517.24
N1977/N1567	O-60x2	700	517.24
N1977/N1551	O-60x2	697	517.24
N1913/N1704	SHS 80x3.0	700	344.36
N1916/N1703	SHS 80x3.0	700	344.36
N1914/N1705	SHS 80x3.0	700	344.36
N1915/N1702	SHS 80x3.0	700	344.36
N1922/N1701	SHS 80x3.0	700	344.36
N1929/N1706	SHS 80x3.0	700	344.36
N1953/N1735	SHS 80x3.0	700	344.36
N1952/N1734	SHS 80x3.0	700	344.36
N1951/N1733	SHS 80x3.0	700	344.36
N1963/N1782	SHS 80x3.0	700	344.36
N1956/N1776	SHS 80x3.0	700	344.36
N1957/N1777	SHS 80x3.0	700	344.36
N1976/N1795	SHS 80x3.0	700	344.36
N1975/N1794	SHS 80x3.0	700	344.36
N1974/N1793	SHS 80x3.0	700	344.36
N1940/N1722	SHS 80x3.0	700	344.36
N1933/N1716	SHS 80x3.0	700	344.36
N1934/N1717	SHS 80x3.0	700	344.36
N2009/N1742	SHS 80x3.0	700	344.36
N2002/N1736	SHS 80x3.0	700	344.36
N2003/N1737	SHS 80x3.0	700	344.36
N2022/N1755	SHS 80x3.0	700	344.36
N2021/N1754	SHS 80x3.0	700	344.36
N2020/N1753	SHS 80x3.0	700	344.36
N1986/N1762	SHS 80x3.0	700	344.36
N1979/N1756	SHS 80x3.0	700	344.36
N1980/N1757	SHS 80x3.0	700	344.36
N1999/N1775	SHS 80x3.0	700	344.36
N1998/N1774	SHS 80x3.0	700	344.36
N1997/N1773	SHS 80x3.0	700	344.36
N1973/N1792	SHS 80x3.0	700	344.36
N1972/N1791	SHS 80x3.0	700	344.36
N1971/N1790	SHS 80x3.0	700	344.36
N1921/N1700	SHS 80x3.0	700	344.36

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1920/N1699	SHS 80x3.0	700	344.36
N1919/N1698	SHS 80x3.0	700	344.36
N1950/N1732	SHS 80x3.0	700	344.36
N1949/N1731	SHS 80x3.0	700	344.36
N1948/N1730	SHS 80x3.0	700	344.36
N2019/N1752	SHS 80x3.0	700	344.36
N2018/N1751	SHS 80x3.0	700	344.36
N2017/N1750	SHS 80x3.0	700	344.36
N1996/N1772	SHS 80x3.0	700	344.36
N1995/N1771	SHS 80x3.0	700	344.36
N1994/N1770	SHS 80x3.0	700	344.36
N1981/N1758	SHS 80x3.0	700	344.36
N1982/N1759	SHS 80x3.0	700	344.36
N1983/N1760	SHS 80x3.0	700	344.36
N2004/N1738	SHS 80x3.0	700	344.36
N2005/N1739	SHS 80x3.0	700	344.36
N2006/N1740	SHS 80x3.0	700	344.36
N1935/N1718	SHS 80x3.0	700	344.36
N1936/N1719	SHS 80x3.0	700	344.36
N1937/N1720	SHS 80x3.0	700	344.36
N1930/N1707	SHS 80x3.0	700	344.36
N1931/N1708	SHS 80x3.0	700	344.36
N1932/N1709	SHS 80x3.0	700	344.36
N1958/N1778	SHS 80x3.0	700	344.36
N1959/N1779	SHS 80x3.0	700	344.36
N1960/N1780	SHS 80x3.0	700	344.36
N1938/N1721	SHS 80x3.0	700	344.36
N1942/N1723	SHS 80x3.0	700	344.36
N1947/N1729	SHS 80x3.0	700	344.36
N1946/N1728	SHS 80x3.0	700	344.36
N1945/N1727	SHS 80x3.0	700	344.36
N1943/N1724	SHS 80x3.0	700	344.36
N1918/N1697	SHS 80x3.0	700	344.36
N1928/N1696	SHS 80x3.0	700	344.36
N1927/N1715	SHS 80x3.0	700	344.36
N1925/N1712	SHS 80x3.0	700	344.36
N1924/N1711	SHS 80x3.0	700	344.36
N1923/N1710	SHS 80x3.0	700	344.36
N1961/N1781	SHS 80x3.0	700	344.36
N1965/N1783	SHS 80x3.0	700	344.36
N1966/N1784	SHS 80x3.0	700	344.36
N1970/N1789	SHS 80x3.0	700	344.36
N1969/N1788	SHS 80x3.0	700	344.36
N1968/N1787	SHS 80x3.0	700	344.36
N1993/N1769	SHS 80x3.0	700	344.36
N1992/N1768	SHS 80x3.0	700	344.36
N1991/N1767	SHS 80x3.0	700	344.36
N1984/N1761	SHS 80x3.0	700	344.36
N1988/N1763	SHS 80x3.0	700	344.36
N1989/N1764	SHS 80x3.0	700	344.36
N2007/N1741	SHS 80x3.0	700	344.36
N2011/N1743	SHS 80x3.0	700	344.36
N2012/N1744	SHS 80x3.0	700	344.36
N2016/N1749	SHS 80x3.0	700	344.36
N2015/N1748	SHS 80x3.0	700	344.36
N2014/N1747	SHS 80x3.0	700	344.36

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1939/N12	SHS 80x3.0	700	344.36
N1954/N22	SHS 80x3.0	700	344.36
N1944/N1725	SHS 80x3.0	700	344.36
N1944/N1726	SHS 80x3.0	700	344.36
N1926/N1713	SHS 80x3.0	700	344.36
N1926/N1714	SHS 80x3.0	700	344.36
N1962/N9	SHS 80x3.0	700	344.36
N2008/N14	SHS 80x3.0	700	344.36
N1985/N16	SHS 80x3.0	700	344.36
N2000/N18	SHS 80x3.0	700	344.36
N2023/N20	SHS 80x3.0	700	344.36
N1977/N25	SHS 80x3.0	700	344.36
N1967/N1785	SHS 80x3.0	700	344.36
N1967/N1786	SHS 80x3.0	700	344.36
N2013/N1745	SHS 80x3.0	700	344.36
N2013/N1746	SHS 80x3.0	700	344.36
N1990/N1765	SHS 80x3.0	700	344.36
N1990/N1766	SHS 80x3.0	700	344.36
N1552/N1568	O-60x2	700	517.24
N1537/N1553	O-60x2	700	517.24
N1426/N1448	O-60x2	700	517.24
N1294/N1316	O-60x2	700	517.24
N1405/N1427	O-60x2	700	517.24
N1273/N1295	O-60x2	700	517.24
N1162/N1184	O-60x2	700	517.24
N1141/N1163	O-60x2	700	517.24
N1030/N1052	O-60x2	700	517.24
N1009/N1031	O-60x2	700	517.24
N2/N1800	SHS 250x5.0	350	203.42
N1800/N1796	SHS 250x5.0	350	203.42
N1796/N1797	SHS 250x5.0	350	203.42
N1797/N1798	SHS 250x5.0	350	203.42
N1798/N1799	SHS 250x5.0	350	203.42
N1799/N3	SHS 250x5.0	350	203.42
N3/N1801	SHS 250x5.0	350	203.42
N1801/N1802	SHS 250x5.0	350	203.42
N1802/N1803	SHS 250x5.0	350	203.42
N1803/N1804	SHS 250x5.0	350	203.42
N1804/N1805	SHS 250x5.0	350	203.42
N1805/N4	SHS 250x5.0	350	203.42
N4/N1806	SHS 250x5.0	350	203.42
N1806/N1807	SHS 250x5.0	350	203.42
N1807/N1808	SHS 250x5.0	350	203.42
N1808/N1809	SHS 250x5.0	350	203.42
N1809/N1810	SHS 250x5.0	350	203.42
N1810/N5	SHS 250x5.0	350	203.42
N5/N1811	SHS 250x5.0	350	203.42
N1811/N1812	SHS 250x5.0	350	203.42
N1812/N1813	SHS 250x5.0	350	203.42
N1813/N1814	SHS 250x5.0	350	203.42
N1814/N1815	SHS 250x5.0	350	203.42
N1815/N7	SHS 250x5.0	350	203.42
N1825/N1797	SHS 80x3.0	700	344.36
N1825/N902	O-60x2	700	517.24
N1824/N1796	SHS 80x3.0	700	344.36
N1823/N900	O-60x2	700	517.24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1824/N923	O-60x2	700	517.24
N1824/N901	O-60x2	700	517.24
N1823/N1800	SHS 80x3.0	700	344.36
N1824/N1800	SHS 80x3.0	700	344.36
N1825/N1796	SHS 80x3.0	700	344.36
N1823/N2	SHS 80x3.0	700	344.36
N1823/N922	O-60x2	700	517.24
N1825/N924	O-60x2	700	517.24
N1826/N1798	SHS 80x3.0	700	344.36
N1826/N903	O-60x2	700	517.24
N1826/N1797	SHS 80x3.0	700	344.36
N1827/N1798	SHS 80x3.0	700	344.36
N1827/N1799	SHS 80x3.0	700	344.36
N1829/N1801	SHS 80x3.0	700	344.36
N1830/N1802	SHS 80x3.0	700	344.36
N1826/N925	O-60x2	700	517.24
N1827/N926	O-60x2	700	517.24
N1827/N904	O-60x2	700	517.24
N1829/N927	O-60x2	700	517.24
N1829/N905	O-60x2	700	517.24
N1830/N928	O-60x2	700	517.24
N1830/N906	O-60x2	700	517.24
N1831/N1803	SHS 80x3.0	700	344.36
N1831/N929	O-60x2	700	517.24
N1832/N1804	SHS 80x3.0	700	344.36
N1831/N907	O-60x2	700	517.24
N1832/N930	O-60x2	700	517.24
N1829/N1799	SHS 80x3.0	700	344.36
N1830/N1801	SHS 80x3.0	700	344.36
N1831/N1802	SHS 80x3.0	700	344.36
N1832/N1803	SHS 80x3.0	700	344.36
N1833/N1805	SHS 80x3.0	700	344.36
N1835/N1806	SHS 80x3.0	700	344.36
N1832/N908	O-60x2	700	517.24
N1833/N931	O-60x2	700	517.24
N1833/N909	O-60x2	700	517.24
N1835/N932	O-60x2	700	517.24
N1835/N910	O-60x2	700	517.24
N1837/N1808	SHS 80x3.0	700	344.36
N1837/N934	O-60x2	700	517.24
N1836/N1807	SHS 80x3.0	700	344.36
N1836/N933	O-60x2	700	517.24
N1836/N911	O-60x2	700	517.24
N1837/N912	O-60x2	700	517.24
N1836/N1808	SHS 80x3.0	700	344.36
N1835/N1807	SHS 80x3.0	700	344.36
N1833/N1804	SHS 80x3.0	700	344.36
N1834/N1805	SHS 80x3.0	700	344.36
N1834/N1806	SHS 80x3.0	700	344.36
N1838/N1809	SHS 80x3.0	700	344.36
N1839/N1810	SHS 80x3.0	700	344.36
N1838/N935	O-60x2	700	517.24
N1838/N913	O-60x2	700	517.24
N1839/N914	O-60x2	700	517.24
N1838/N1810	SHS 80x3.0	700	344.36
N1837/N1809	SHS 80x3.0	700	344.36

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1841/N1811	SHS 80x3.0	700	344.36
N1839/N936	O-60x2	700	517.24
N1841/N937	O-60x2	700	517.24
N1841/N915	O-60x2	700	517.24
N1843/N1813	SHS 80x3.0	700	344.36
N1843/N939	O-60x2	700	517.24
N1843/N917	O-60x2	700	517.24
N1842/N1812	SHS 80x3.0	700	344.36
N1844/N1814	SHS 80x3.0	700	344.36
N1842/N938	O-60x2	700	517.24
N1842/N916	O-60x2	700	517.24
N1844/N940	O-60x2	700	517.24
N1843/N1814	SHS 80x3.0	700	344.36
N1842/N1813	SHS 80x3.0	700	344.36
N1841/N1812	SHS 80x3.0	700	344.36
N1839/N1811	SHS 80x3.0	700	344.36
N1844/N918	O-60x2	700	517.24
N1845/N941	O-60x2	700	517.24
N1844/N1815	SHS 80x3.0	700	344.36
N1845/N1815	SHS 80x3.0	700	344.36
N1845/N919	O-60x2	700	517.24
N1845/N7	SHS 80x3.0	700	344.36
N1822/N1823	SHS 250x5.0	350	203.42
N1823/N1824	SHS 250x5.0	350	203.42
N1824/N1825	SHS 250x5.0	350	203.42
N1825/N1826	SHS 250x5.0	350	203.42
N1826/N1827	SHS 250x5.0	350	203.42
N1827/N1828	SHS 250x5.0	350	203.42
N1828/N1829	SHS 250x5.0	350	203.42
N1829/N1830	SHS 250x5.0	350	203.42
N1830/N1831	SHS 250x5.0	350	203.42
N1831/N1832	SHS 250x5.0	350	203.42
N1832/N1833	SHS 250x5.0	350	203.42
N1833/N1834	SHS 250x5.0	350	203.42
N1834/N1835	SHS 250x5.0	350	203.42
N1835/N1836	SHS 250x5.0	350	203.42
N1836/N1837	SHS 250x5.0	350	203.42
N1837/N1838	SHS 250x5.0	350	203.42
N1838/N1839	SHS 250x5.0	350	203.42
N1839/N1840	SHS 250x5.0	350	203.42
N1840/N1841	SHS 250x5.0	350	203.42
N1841/N1842	SHS 250x5.0	350	203.42
N1842/N1843	SHS 250x5.0	350	203.42
N1843/N1844	SHS 250x5.0	350	203.42
N1844/N1845	SHS 250x5.0	350	203.42
N1845/N1846	SHS 250x5.0	350	203.42
N1816/N1819	SHS 250x8.0	700	128.59
N1819/N1840	SHS 250x8.0	700	128.59
N1817/N1820	SHS 250x8.0	700	128.59
N1820/N1834	SHS 250x8.0	700	128.59
N1818/N1821	SHS 250x8.0	700	128.59
N1821/N1828	SHS 250x8.0	700	128.59
N1818/N1658	Ø20	700	200.00
N1/N1821	Ø20	679	200.00
N1658/N1828	Ø20	700	200.00
N1821/N1822	Ø20	700	200.00

Listados
Coberta de 46'8x28'6 malla tetràedres
Fecha: 20/12/24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1821/N1834	Ø20	700	200.00
N1819/N1834	Ø20	700	200.00
N1819/N1846	Ø20	700	200.00
N1663/N1840	Ø20	700	200.00
N1820/N1840	Ø20	700	200.00
N1820/N1828	Ø20	700	200.00
N1816/N1663	Ø20	678	200.00
N6/N1819	Ø20	700	200.00
N1012/N1757	O-125x4	700	258.26
N1757/N1034	O-125x4	700	258.26
N1017/N1763	O-125x4	700	258.26
N1763/N1039	O-125x4	700	258.26
N1022/N1768	O-125x4	700	258.26
N1768/N1044	O-125x4	700	258.26
N1027/N1773	O-125x4	700	258.26
N1773/N1049	O-125x4	700	258.26
N1159/N1753	O-125x4	697	258.26
N1753/N1181	O-125x4	688	258.26
N1154/N1748	O-125x4	700	258.26
N1748/N1176	O-125x4	700	258.26
N1149/N1743	O-125x4	700	258.26
N1743/N1171	O-125x4	700	258.26
N1144/N1737	O-125x4	691	258.26
N1737/N1166	O-125x4	690	258.26
N1291/N1733	O-125x4	688	258.26
N1733/N1313	O-125x4	693	258.26
N1286/N1728	O-125x4	700	258.26
N1728/N1308	O-125x4	700	258.26
N1281/N1723	O-125x4	700	258.26
N1723/N1303	O-125x4	700	258.26
N1276/N1717	O-125x4	689	258.26
N1717/N1298	O-125x4	681	258.26
N1423/N1701	O-125x4	689	258.26
N1701/N1445	O-125x4	696	258.26
N1418/N1696	O-125x4	700	258.26
N1696/N1440	O-125x4	700	258.26
N1413/N1711	O-125x4	700	258.26
N1711/N1435	O-125x4	700	258.26
N1408/N1706	O-125x4	689	258.26
N1706/N1430	O-125x4	689	258.26
N1540/N1777	O-125x4	700	258.26
N1777/N1556	O-125x4	700	258.26
N1543/N1783	O-125x4	700	258.26
N1783/N1559	O-125x4	700	258.26
N1546/N1788	O-125x4	700	258.26
N1788/N1562	O-125x4	700	258.26
N1549/N1793	O-125x4	700	258.26
N1793/N1565	O-125x4	700	258.26
N1551/N1795	O-125x4	694	258.26
N1795/N1567	O-125x4	700	258.26
N1684/N1791	O-125x4	700	258.26
N1791/N1687	O-125x4	700	258.26
N1685/N1790	O-125x4	700	258.26
N1790/N1686	O-125x4	700	258.26
N1550/N1794	O-125x4	700	258.26
N1794/N1566	O-125x4	700	258.26

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1548/N1792	O-125x4	700	258.26
N1792/N1564	O-125x4	700	258.26
N1547/N1789	O-125x4	700	258.26
N1789/N1563	O-125x4	700	258.26
N1545/N1787	O-125x4	700	258.26
N1787/N1561	O-125x4	700	258.26
N1688/N1786	O-125x4	700	258.26
N1786/N1690	O-125x4	700	258.26
N1689/N1785	O-125x4	700	258.26
N1785/N1691	O-125x4	700	258.26
N1544/N1784	O-125x4	700	258.26
N1784/N1560	O-125x4	700	258.26
N1542/N1781	O-125x4	700	258.26
N1781/N1558	O-125x4	700	258.26
N1692/N1780	O-125x4	700	258.26
N1780/N1693	O-125x4	700	258.26
N1694/N1779	O-125x4	700	258.26
N1779/N1695	O-125x4	700	258.26
N1541/N1778	O-125x4	700	258.26
N1778/N1557	O-125x4	700	258.26
N1539/N1776	O-125x4	700	258.26
N1776/N1555	O-125x4	700	258.26
N1538/N1782	O-125x4	695	258.26
N1782/N1554	O-125x4	700	258.26
N1425/N1703	O-125x4	677	258.26
N1703/N1447	O-125x4	686	258.26
N1424/N1702	O-125x4	687	258.26
N1702/N1446	O-125x4	696	258.26
N1422/N1700	O-125x4	699	258.26
N1700/N1444	O-125x4	700	258.26
N1421/N1699	O-125x4	700	258.26
N1699/N1443	O-125x4	700	258.26
N1420/N1698	O-125x4	700	258.26
N1698/N1442	O-125x4	700	258.26
N1419/N1697	O-125x4	700	258.26
N1697/N1441	O-125x4	700	258.26
N1417/N1715	O-125x4	700	258.26
N1715/N1439	O-125x4	700	258.26
N1416/N1714	O-125x4	700	258.26
N1714/N1438	O-125x4	700	258.26
N1415/N1713	O-125x4	700	258.26
N1713/N1437	O-125x4	700	258.26
N1414/N1712	O-125x4	700	258.26
N1712/N1436	O-125x4	700	258.26
N1412/N1710	O-125x4	700	258.26
N1710/N1434	O-125x4	700	258.26
N1411/N1709	O-125x4	700	258.26
N1709/N1433	O-125x4	700	258.26
N1410/N1708	O-125x4	700	258.26
N1708/N1432	O-125x4	700	258.26
N1409/N1707	O-125x4	699	258.26
N1707/N1431	O-125x4	697	258.26
N1407/N1705	O-125x4	688	258.26
N1705/N1429	O-125x4	689	258.26
N1406/N1704	O-125x4	679	258.26
N1704/N1428	O-125x4	681	258.26

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1290/N1732	O-125x4	698	258.26
N1732/N1312	O-125x4	700	258.26
N1289/N1731	O-125x4	700	258.26
N1731/N1311	O-125x4	700	258.26
N1288/N1730	O-125x4	700	258.26
N1730/N1310	O-125x4	700	258.26
N1287/N1729	O-125x4	700	258.26
N1729/N1309	O-125x4	700	258.26
N1285/N1727	O-125x4	700	258.26
N1727/N1307	O-125x4	700	258.26
N1284/N1726	O-125x4	700	258.26
N1726/N1306	O-125x4	700	258.26
N1283/N1725	O-125x4	700	258.26
N1725/N1305	O-125x4	700	258.26
N1282/N1724	O-125x4	700	258.26
N1724/N1304	O-125x4	700	258.26
N1280/N1721	O-125x4	700	258.26
N1721/N1302	O-125x4	700	258.26
N1279/N1720	O-125x4	700	258.26
N1720/N1301	O-125x4	700	258.26
N1278/N1719	O-125x4	700	258.26
N1719/N1300	O-125x4	700	258.26
N1277/N1718	O-125x4	699	258.26
N1718/N1299	O-125x4	693	258.26
N1275/N1716	O-125x4	685	258.26
N1716/N1297	O-125x4	679	258.26
N1274/N1722	O-125x4	677	258.26
N1722/N1296	O-125x4	670	258.26
N1292/N1734	O-125x4	686	258.26
N1734/N1314	O-125x4	689	258.26
N1293/N1735	O-125x4	676	258.26
N1735/N1315	O-125x4	682	258.26
N1158/N1752	O-125x4	700	258.26
N1752/N1180	O-125x4	698	258.26
N1157/N1751	O-125x4	700	258.26
N1751/N1179	O-125x4	700	258.26
N1156/N1750	O-125x4	700	258.26
N1750/N1178	O-125x4	700	258.26
N1155/N1749	O-125x4	700	258.26
N1749/N1177	O-125x4	700	258.26
N1153/N1747	O-125x4	700	258.26
N1747/N1175	O-125x4	700	258.26
N1152/N1746	O-125x4	700	258.26
N1746/N1174	O-125x4	700	258.26
N1151/N1745	O-125x4	700	258.26
N1745/N1173	O-125x4	700	258.26
N1150/N1744	O-125x4	700	258.26
N1744/N1172	O-125x4	700	258.26
N1148/N1741	O-125x4	700	258.26
N1741/N1170	O-125x4	700	258.26
N1147/N1740	O-125x4	700	258.26
N1740/N1169	O-125x4	700	258.26
N1146/N1739	O-125x4	700	258.26
N1739/N1168	O-125x4	700	258.26
N1145/N1738	O-125x4	699	258.26
N1738/N1167	O-125x4	700	258.26

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1143/N1736	O-125x4	688	258.26
N1736/N1165	O-125x4	686	258.26
N1142/N1742	O-125x4	681	258.26
N1742/N1164	O-125x4	676	258.26
N1160/N1754	O-125x4	698	258.26
N1754/N1182	O-125x4	690	258.26
N1161/N1755	O-125x4	686	258.26
N1755/N1183	O-125x4	683	258.26
N1024/N1770	O-125x4	700	258.26
N1770/N1046	O-125x4	700	258.26
N1023/N1769	O-125x4	700	258.26
N1769/N1045	O-125x4	700	258.26
N1021/N1767	O-125x4	700	258.26
N1767/N1043	O-125x4	700	258.26
N1020/N1766	O-125x4	700	258.26
N1766/N1042	O-125x4	700	258.26
N1019/N1765	O-125x4	700	258.26
N1765/N1041	O-125x4	700	258.26
N1018/N1764	O-125x4	700	258.26
N1764/N1040	O-125x4	700	258.26
N1025/N1771	O-125x4	700	258.26
N1771/N1047	O-125x4	700	258.26
N1026/N1772	O-125x4	700	258.26
N1772/N1048	O-125x4	700	258.26
N1028/N1774	O-125x4	700	258.26
N1774/N1050	O-125x4	700	258.26
N1029/N1775	O-125x4	700	258.26
N1775/N1051	O-125x4	693	258.26
N1016/N1761	O-125x4	700	258.26
N1761/N1038	O-125x4	700	258.26
N1015/N1760	O-125x4	700	258.26
N1760/N1037	O-125x4	700	258.26
N1014/N1759	O-125x4	700	258.26
N1759/N1036	O-125x4	700	258.26
N1013/N1758	O-125x4	700	258.26
N1758/N1035	O-125x4	700	258.26
N1011/N1756	O-125x4	700	258.26
N1756/N1033	O-125x4	700	258.26
N1010/N1762	O-125x4	700	258.26
N1762/N1032	O-125x4	700	258.26
N1671/N1890	SHS 250x5.0	350	203.42
N1890/N1887	SHS 250x5.0	350	203.42
N1887/N1878	SHS 250x5.0	350	203.42
N1878/N1879	SHS 250x5.0	350	203.42
N1879/N1880	SHS 250x5.0	350	203.42
N1880/N1677	SHS 250x5.0	350	203.42
N1677/N1869	SHS 250x5.0	350	203.42
N1869/N1870	SHS 250x5.0	350	203.42
N1870/N1871	SHS 250x5.0	350	203.42
N1871/N1860	SHS 250x5.0	350	203.42
N1860/N1861	SHS 250x5.0	350	203.42
N1861/N1680	SHS 250x5.0	350	203.42
N1680/N1847	SHS 250x5.0	350	203.42
N1847/N1848	SHS 250x5.0	350	203.42
N1848/N1849	SHS 250x5.0	350	203.42
N1849/N1850	SHS 250x5.0	350	203.42

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1850/N1851	SHS 250x5.0	350	203.42
N1851/N1683	SHS 250x5.0	350	203.42
N1683/N1894	SHS 250x5.0	350	203.42
N1894/N1895	SHS 250x5.0	350	203.42
N1895/N1901	SHS 250x5.0	350	203.42
N1901/N1902	SHS 250x5.0	350	203.42
N1902/N1903	SHS 250x5.0	350	203.42
N1903/N1674	SHS 250x5.0	350	203.42
N1893/N1891	SHS 250x5.0	350	203.42
N1891/N1888	SHS 250x5.0	350	203.42
N1888/N1881	SHS 250x5.0	350	203.42
N1881/N1882	SHS 250x5.0	350	203.42
N1882/N1883	SHS 250x5.0	350	203.42
N1883/N1910	SHS 250x5.0	350	203.42
N1910/N1872	SHS 250x5.0	350	203.42
N1872/N1873	SHS 250x5.0	350	203.42
N1873/N1874	SHS 250x5.0	350	203.42
N1874/N1862	SHS 250x5.0	350	203.42
N1862/N1863	SHS 250x5.0	350	203.42
N1863/N1864	SHS 250x5.0	350	203.42
N1864/N1865	SHS 250x5.0	350	203.42
N1865/N1855	SHS 250x5.0	350	203.42
N1855/N1852	SHS 250x5.0	350	203.42
N1852/N1853	SHS 250x5.0	350	203.42
N1853/N1854	SHS 250x5.0	350	203.42
N1854/N1911	SHS 250x5.0	350	203.42
N1911/N1896	SHS 250x5.0	350	203.42
N1896/N1897	SHS 250x5.0	350	203.42
N1897/N1899	SHS 250x5.0	350	203.42
N1899/N1904	SHS 250x5.0	350	203.42
N1904/N1905	SHS 250x5.0	350	203.42
N1905/N1908	SHS 250x5.0	350	203.42
N1852/N1849	SHS 80x3.0	700	344.36
N1852/N1856	O-60x2	700	517.24
N1855/N1848	SHS 80x3.0	700	344.36
N1855/N1857	O-60x2	700	517.24
N1855/N1647	O-60x2	700	517.24
N1852/N1648	O-60x2	700	517.24
N1853/N1850	SHS 80x3.0	700	344.36
N1854/N1851	SHS 80x3.0	700	344.36
N1853/N1858	O-60x2	700	517.24
N1853/N1649	O-60x2	700	517.24
N1854/N1859	O-60x2	700	517.24
N1854/N1650	O-60x2	700	517.24
N1853/N1851	SHS 80x3.0	700	344.36
N1852/N1850	SHS 80x3.0	700	344.36
N1855/N1849	SHS 80x3.0	700	344.36
N1862/N1860	SHS 80x3.0	700	344.36
N1863/N1861	SHS 80x3.0	700	344.36
N1865/N1847	SHS 80x3.0	700	344.36
N1862/N1866	O-60x2	700	517.24
N1863/N1867	O-60x2	700	517.24
N1863/N1645	O-60x2	700	517.24
N1865/N1868	O-60x2	700	517.24
N1865/N1646	O-60x2	700	517.24
N1863/N1860	SHS 80x3.0	700	344.36

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1865/N1848	SHS 80x3.0	700	344.36
N1864/N1861	SHS 80x3.0	700	344.36
N1864/N1847	SHS 80x3.0	700	344.36
N1872/N1869	SHS 80x3.0	700	344.36
N1873/N1870	SHS 80x3.0	700	344.36
N1872/N1875	O-60x2	700	517.24
N1873/N1876	O-60x2	700	517.24
N1873/N1642	O-60x2	700	517.24
N1874/N1871	SHS 80x3.0	700	344.36
N1874/N1877	O-60x2	700	517.24
N1874/N1643	O-60x2	700	517.24
N1862/N1644	O-60x2	700	517.24
N1873/N1869	SHS 80x3.0	700	344.36
N1874/N1870	SHS 80x3.0	700	344.36
N1862/N1871	SHS 80x3.0	700	344.36
N1881/N1878	SHS 80x3.0	700	344.36
N1881/N1638	O-60x2	700	517.24
N1881/N1884	O-60x2	700	517.24
N1882/N1879	SHS 80x3.0	700	344.36
N1883/N1880	SHS 80x3.0	700	344.36
N1882/N1885	O-60x2	700	517.24
N1882/N1639	O-60x2	700	517.24
N1883/N1886	O-60x2	700	517.24
N1883/N1640	O-60x2	700	517.24
N1872/N1641	O-60x2	700	517.24
N1882/N1878	SHS 80x3.0	700	344.36
N1883/N1879	SHS 80x3.0	700	344.36
N1872/N1880	SHS 80x3.0	700	344.36
N1888/N1887	SHS 80x3.0	700	344.36
N1888/N1889	O-60x2	700	517.24
N1888/N1637	O-60x2	700	517.24
N1881/N1887	SHS 80x3.0	700	344.36
N1891/N1890	SHS 80x3.0	700	344.36
N1891/N1892	O-60x2	700	517.24
N1888/N1890	SHS 80x3.0	700	344.36
N1891/N1636	O-60x2	700	517.24
N1891/N1671	SHS 80x3.0	700	344.36
N1896/N1894	SHS 80x3.0	700	344.36
N1896/N1898	O-60x2	700	517.24
N1896/N1651	O-60x2	700	517.24
N1896/N1895	SHS 80x3.0	700	344.36
N1854/N1894	SHS 80x3.0	700	344.36
N1897/N1895	SHS 80x3.0	700	344.36
N1897/N1900	O-60x2	700	517.24
N1897/N1652	O-60x2	700	517.24
N1897/N1901	SHS 80x3.0	700	344.36
N1899/N1901	SHS 80x3.0	700	344.36
N1899/N1906	O-60x2	700	517.24
N1899/N1653	O-60x2	700	517.24
N1904/N1902	SHS 80x3.0	700	344.36
N1904/N1907	O-60x2	700	517.24
N1904/N1654	O-60x2	700	517.24
N1904/N1903	SHS 80x3.0	700	344.36
N1899/N1902	SHS 80x3.0	700	344.36
N1905/N1903	SHS 80x3.0	700	344.36
N1905/N1909	O-60x2	700	517.24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1905/N1655	O-60x2	700	517.24
N1905/N1674	SHS 80x3.0	700	344.36
N1670/N1910	Ø20	700	200.00
N1679/N1910	Ø20	700	200.00
N1679/N1911	Ø20	700	200.00
N1673/N1911	Ø20	700	200.00
N1682/N1908	Ø20	700	200.00
N1682/N1864	Ø20	700	200.00
N1676/N1864	Ø20	700	200.00
N1676/N1893	Ø20	700	200.00
N1893/N1635	O-40x3	700	360.36
N1908/N1656	O-40x3	700	360.36
N1655/N1903	O-125x4	700	258.26
N1903/N1909	O-125x4	700	258.26
N1636/N1890	O-125x4	700	258.26
N1890/N1892	O-125x4	700	258.26
N1651/N1894	O-125x4	700	258.26
N1894/N1898	O-125x4	700	258.26
N1650/N1851	O-125x4	700	258.26
N1851/N1859	O-125x4	700	258.26
N1646/N1847	O-125x4	700	258.26
N1847/N1868	O-125x4	700	258.26
N1645/N1861	O-125x4	700	258.26
N1861/N1867	O-125x4	700	258.26
N1641/N1869	O-125x4	700	258.26
N1869/N1875	O-125x4	700	258.26
N1640/N1880	O-125x4	700	258.26
N1880/N1886	O-125x4	700	258.26
N1654/N1902	O-125x4	700	258.26
N1902/N1907	O-125x4	700	258.26
N1653/N1901	O-125x4	700	258.26
N1901/N1906	O-125x4	700	258.26
N1652/N1895	O-125x4	700	258.26
N1895/N1900	O-125x4	700	258.26
N1649/N1850	O-125x4	700	258.26
N1850/N1858	O-125x4	700	258.26
N1648/N1849	O-125x4	700	258.26
N1849/N1856	O-125x4	700	258.26
N1647/N1848	O-125x4	700	258.26
N1848/N1857	O-125x4	700	258.26
N1644/N1860	O-125x4	700	258.26
N1860/N1866	O-125x4	700	258.26
N1643/N1871	O-125x4	700	258.26
N1871/N1877	O-125x4	700	258.26
N1642/N1870	O-125x4	700	258.26
N1870/N1876	O-125x4	700	258.26
N1639/N1879	O-125x4	700	258.26
N1879/N1885	O-125x4	700	258.26
N1638/N1878	O-125x4	700	258.26
N1878/N1884	O-125x4	700	258.26
N1637/N1887	O-125x4	700	258.26
N1887/N1889	O-125x4	700	258.26
N1892/N856	O-60x2	700	517.24
N1892/N857	O-60x2	700	517.24
N1889/N857	O-60x2	700	517.24
N1889/N858	O-60x2	700	517.24

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1884/N858	O-60x2	700	517.24
N1886/N860	O-60x2	700	517.24
N1886/N861	O-60x2	700	517.24
N1875/N861	O-60x2	700	517.24
N1875/N862	O-60x2	700	517.24
N1876/N862	O-60x2	700	517.24
N1884/N859	O-60x2	700	517.24
N1885/N859	O-60x2	700	517.24
N1885/N860	O-60x2	700	517.24
N1876/N863	O-60x2	700	517.24
N1877/N863	O-60x2	700	517.24
N1877/N864	O-60x2	700	517.24
N1866/N864	O-60x2	700	517.24
N1866/N865	O-60x2	700	517.24
N1867/N865	O-60x2	700	517.24
N1867/N866	O-60x2	700	517.24
N1868/N866	O-60x2	700	517.24
N1868/N867	O-60x2	700	517.24
N1857/N867	O-60x2	700	517.24
N1857/N868	O-60x2	700	517.24
N1856/N868	O-60x2	700	517.24
N1856/N869	O-60x2	700	517.24
N1858/N869	O-60x2	700	517.24
N1858/N870	O-60x2	700	517.24
N1859/N870	O-60x2	700	517.24
N1859/N871	O-60x2	700	517.24
N1898/N871	O-60x2	700	517.24
N1898/N872	O-60x2	700	517.24
N1900/N872	O-60x2	700	517.24
N1900/N873	O-60x2	700	517.24
N1906/N873	O-60x2	700	517.24
N1906/N874	O-60x2	700	517.24
N1907/N874	O-60x2	700	517.24
N1907/N875	O-60x2	700	517.24
N1909/N875	O-60x2	700	517.24
N1909/N876	O-60x2	700	517.24
N1681/N1682	SHS 250x8.0	685	128.59
N1682/N1911	SHS 250x8.0	700	128.59
N1678/N1679	SHS 250x8.0	680	128.59
N1679/N1864	SHS 250x8.0	700	128.59
N1675/N1676	SHS 250x8.0	684	128.59
N1676/N1910	SHS 250x8.0	700	128.59
N1670/N1676	RHS 140x120x4.0	695	256.71
N1676/N1679	RHS 140x120x4.0	700	256.71
N1679/N1682	RHS 140x120x4.0	700	256.71
N1682/N1673	RHS 140x120x4.0	700	256.71
N1657/N1659	RHS 140x120x4.0	700	256.71
N1659/N1660	RHS 140x120x4.0	700	256.71
N1660/N1661	RHS 140x120x4.0	700	256.71
N1661/N1662	RHS 140x120x4.0	700	256.71
N1662/N1658	RHS 140x120x4.0	700	256.71
N1670/N1657	RHS 140x120x4.0	700	256.71
N1658/N1821	RHS 140x120x4.0	700	256.71
N1820/N1819	RHS 140x120x4.0	700	256.71
N1819/N1663	RHS 140x120x4.0	693	256.71
N1821/N1820	RHS 140x120x4.0	700	256.71

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N1673/N1664	RHS 140x120x4.0	700	256.71
N1664/N1668	RHS 140x120x4.0	700	256.71
N1668/N1667	RHS 140x120x4.0	700	256.71
N1666/N1665	RHS 140x120x4.0	700	256.71
N1665/N1663	RHS 140x120x4.0	700	256.71
N1667/N1666	RHS 140x120x4.0	700	256.71
N1692/N725	O-40x2	700	526.32
N1678/N1676	Ø20	700	200.00
N1678/N1682	Ø20	700	200.00
N1675/N1679	Ø20	700	200.00
N1681/N1679	Ø20	700	200.00
N2028/N1704	SHS 250x5.0	350	203.42
N1704/N1705	SHS 250x5.0	350	203.42
N1705/N1706	SHS 250x5.0	350	203.42
N1706/N1707	SHS 250x5.0	350	203.42
N1707/N1708	SHS 250x5.0	350	203.42
N1708/N1709	SHS 250x5.0	350	203.42
N1709/N1710	SHS 250x5.0	350	203.42
N1710/N1711	SHS 250x5.0	350	203.42
N1711/N1712	SHS 250x5.0	350	203.42
N1712/N1713	SHS 250x5.0	350	203.42
N1713/N1714	SHS 250x5.0	350	203.42
N1714/N1715	SHS 250x5.0	350	203.42
N1715/N1696	SHS 250x5.0	350	203.42
N1696/N1697	SHS 250x5.0	350	203.42
N1697/N1698	SHS 250x5.0	350	203.42
N1698/N1699	SHS 250x5.0	350	203.42
N1699/N1700	SHS 250x5.0	350	203.42
N1700/N1701	SHS 250x5.0	350	203.42
N1701/N1702	SHS 250x5.0	350	203.42
N1702/N1703	SHS 250x5.0	350	203.42
N1703/N2026	SHS 250x5.0	350	203.42
N2027/N1912	SHS 250x5.0	350	203.42
N1912/N1913	SHS 250x5.0	350	203.42
N1913/N1914	SHS 250x5.0	350	203.42
N1914/N1929	SHS 250x5.0	350	203.42
N1929/N1930	SHS 250x5.0	350	203.42
N1930/N1931	SHS 250x5.0	350	203.42
N1931/N1932	SHS 250x5.0	350	203.42
N1932/N1923	SHS 250x5.0	350	203.42
N1923/N1924	SHS 250x5.0	350	203.42
N1924/N1925	SHS 250x5.0	350	203.42
N1925/N1926	SHS 250x5.0	350	203.42
N1926/N1927	SHS 250x5.0	350	203.42
N1927/N1928	SHS 250x5.0	350	203.42
N1928/N1918	SHS 250x5.0	350	203.42
N1918/N1919	SHS 250x5.0	350	203.42
N1919/N1920	SHS 250x5.0	350	203.42
N1920/N1921	SHS 250x5.0	350	203.42
N1921/N1922	SHS 250x5.0	350	203.42
N1922/N1915	SHS 250x5.0	350	203.42
N1915/N1916	SHS 250x5.0	350	203.42
N1916/N1917	SHS 250x5.0	350	203.42
N1917/N2025	SHS 250x5.0	350	203.42
N10/N1659	SHS 250x8.0	700	128.59
N1659/N2027	SHS 250x8.0	700	128.59

Temperatura crítica			
Barra	Perfil	Temperatura crítica (°C)	Factor de forma (m-1)
N2027/N2028	SHS 250x8.0	700	128.59
N23/N1668	SHS 250x8.0	696	128.59
N1668/N2025	SHS 250x8.0	700	128.59
N2025/N2026	SHS 250x8.0	700	128.59
N1912/N2028	SHS 80x3.0	700	344.36
N1917/N2026	SHS 80x3.0	700	344.36
N2027/N1427	O-40x3	678	360.36
N2027/N1405	O-40x3	700	360.36
N2025/N1426	O-40x3	700	360.36
N2025/N1448	O-40x3	687	360.36
N2029/N1964	RHS 140x120x4.0	700	256.71
N2030/N1822	RHS 140x120x4.0	700	256.71
N1657/N2029	Ø20	700	200.00
N1670/N1964	Ø20	700	200.00
N1662/N1822	Ø20	700	200.00
N1658/N2030	Ø20	700	200.00
N2031/N1978	RHS 140x120x4.0	700	256.71
N1664/N2031	Ø20	700	200.00
N1673/N1978	Ø20	700	200.00
N2032/N1846	RHS 140x120x4.0	700	256.71
N1663/N2032	Ø20	700	200.00
N1665/N1846	Ø20	700	200.00

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1. ESTRUCTURA

1.1. Uniones

1.1.1. Comprobaciones en placas de anclaje

En cada placa de anclaje se realizan las siguientes comprobaciones (asumiendo la hipótesis de placa rígida):

1. Hormigón sobre el que apoya la placa

Se comprueba que la tensión de compresión en la interfaz placa de anclaje-hormigón es menor a la tensión admisible del hormigón según la naturaleza de cada combinación.

2. Pernos de anclaje

a) *Resistencia del material de los pernos*: Se descomponen los esfuerzos actuantes sobre la placa en axiles y cortantes en los pernos y se comprueba que ambos esfuerzos, por separado y con interacción entre ellos (tensión de Von Mises), producen tensiones menores a la tensión límite del material de los pernos.

b) *Anclaje de los pernos*: Se comprueba el anclaje de los pernos en el hormigón de tal manera que no se produzca el fallo de deslizamiento por adherencia, arrancamiento del cono de rotura o fractura por esfuerzo cortante (aplastamiento).

c) *Aplastamiento*: Se comprueba que en cada perno no se supera el cortante que produciría el aplastamiento de la placa contra el perno.

3. Placa de anclaje

a) *Tensiones globales*: En placas con vuelo, se analizan cuatro secciones en el perímetro del perfil, y se comprueba en todas ellas que las tensiones de Von Mises sean menores que la tensión límite según la norma.

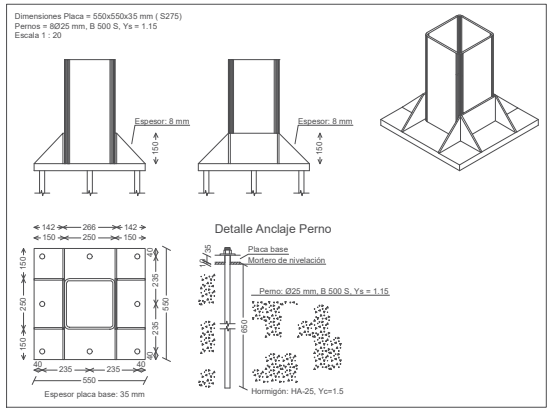
b) *Flechas globales relativas*: Se comprueba que en los vuelos de las placas no aparezcan flechas mayores que 1/250 del vuelo.

c) *Tensiones locales*: Se comprueban las tensiones de Von Mises en todas las placas locales en las que tanto el perfil como los rigidizadores dividen a la placa de anclaje propiamente dicha. Los esfuerzos en cada una de las subplacas se obtienen a partir de las tensiones de contacto con el hormigón y los axiles de los pernos. El modelo generado se resuelve por diferencias finitas.

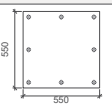
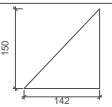
1.1.2. Memoria de cálculo

1.1.2.1. Tipo 1

a) Detalle



b) Descripción de los componentes de la unión

Elementos complementarios									
Pieza	Geometría				Taladros		Acero		
	Esquema	Ancho (mm)	Canto (mm)	Espesor (mm)	Cantidad	Diámetro (mm)	Tipo	f_y (MPa)	f_u (MPa)
Placa base		550	550	35	8	25	S275	275.0	410.0
Rigidizador		142	150	8	-	-	S275	275.0	410.0
Rigidizador		550	150	8	-	-	S275	275.0	410.0

c) Comprobación

1) Placa de anclaje

Referencia:		
Comprobación	Valores	Estado
Separación mínima entre pernos: *3 diámetros*	Mínimo: 75 mm Calculado: 236 mm	Cumple
Separación mínima pernos-perfil: *1.5 diámetros*	Mínimo: 37 mm Calculado: 103 mm	Cumple
Separación mínima pernos-borde: *1.5 diámetros*	Mínimo: 37 mm Calculado: 40 mm	Cumple
Esbeltez de rigidizadores:	Máximo: 50	
- Paralelos a X:	Calculado: 45.9	Cumple
- Paralelos a Y:	Calculado: 45.9	Cumple
Longitud mínima del perno: *Se calcula la longitud de anclaje necesaria por adherencia.*	Mínimo: 36 cm Calculado: 65 cm	Cumple
Anclaje perno en hormigón:		
- Tracción:	Máximo: 138.9 kN Calculado: 116.69 kN	Cumple
- Cortante:	Máximo: 97.23 kN Calculado: 13.28 kN	Cumple
- Tracción + Cortante:	Máximo: 138.9 kN Calculado: 135.67 kN	Cumple
Tracción en vástago de pernos:	Máximo: 156.15 kN Calculado: 109.37 kN	Cumple
Tensión de Von Mises en vástago de pernos:	Máximo: 476.19 MPa Calculado: 226.34 MPa	Cumple
Aplastamiento perno en placa: *Límite del cortante en un perno actuando contra la placa*	Máximo: 458.33 kN Calculado: 12.43 kN	Cumple
Tensión de Von Mises en secciones globales:	Máximo: 261.905 MPa	
- Derecha:	Calculado: 205.2 MPa	Cumple
- Izquierda:	Calculado: 203.591 MPa	Cumple
- Arriba:	Calculado: 125.507 MPa	Cumple
- Abajo:	Calculado: 171.754 MPa	Cumple
Flecha global equivalente: *Limitación de la deformabilidad de los vuelos*	Mínimo: 250	
- Derecha:	Calculado: 3961.84	Cumple
- Izquierda:	Calculado: 4736.38	Cumple
- Arriba:	Calculado: 6321.16	Cumple
- Abajo:	Calculado: 5754.52	Cumple
Tensión de Von Mises local: *Tensión por tracción de pernos sobre placas en voladizo*	Máximo: 261.905 MPa Calculado: 205.905 MPa	Cumple
Se cumplen todas las comprobaciones		
Información adicional:		
- Relación rotura pésima sección de hormigón: 0.195		
- Punto de tensión local máxima: (0.133, -0.275)		

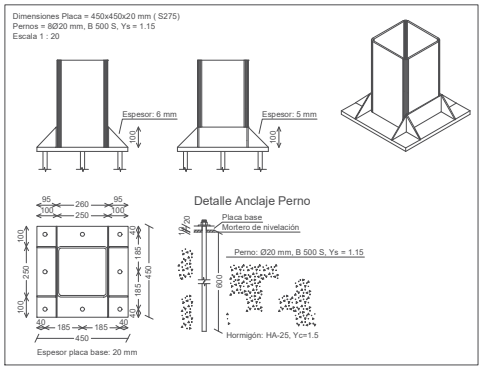
d) Medición

Elementos de tornillería no normalizados		
Tipo	Cantidad	Descripción
Tuercas	8	T25
Arandelas	8	A25

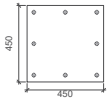
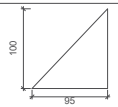
Placas de anclaje				
Material	Elementos	Cantidad	Dimensiones (mm)	Peso (kg)
S275	Placa base	1	550x550x35	83.11
	Rigidizadores pasantes	2	550/250x150/0x8	7.54
	Rigidizadores no pasantes	4	142/0x150/0x8	2.68
			Total	93.32
B 500 S, Ys = 1.15 (corrugado)	Pernos de anclaje	8	Ø 25 - L = 720	22.20
			Total	22.20

1.1.2.2. Tipo 2

a) Detalle



b) Descripción de los componentes de la unión

Elementos complementarios									
Pieza	Geometría				Taladros		Acero		
	Esquema	Ancho (mm)	Canto (mm)	Espesor (mm)	Cantidad	Diámetro (mm)	Tipo	f_y (MPa)	f_u (MPa)
Placa base		450	450	20	8	20	S275	275.0	410.0
Rigidizador		95	100	6	-	-	S275	275.0	410.0
Rigidizador		450	100	5	-	-	S275	275.0	410.0

Listados
Coberta de 46'8x28'6 malla tetràedres
Fecha: 13/11/24

c) Comprobación

1) Placa de anclaje

Referencia:		
Comprobación	Valores	Estado
Separación mínima entre pernos: *3 diámetros*	Mínimo: 60 mm Calculado: 185 mm	Cumple
Separación mínima pernos-perfil: *1.5 diámetros*	Mínimo: 30 mm Calculado: 55 mm	Cumple
Separación mínima pernos-borde: *1.5 diámetros*	Mínimo: 30 mm Calculado: 40 mm	Cumple
Esbeltez de rigidizadores:	Máximo: 50	
- Paralelos a X:	Calculado: 40.8	Cumple
- Paralelos a Y:	Calculado: 49	Cumple
Longitud mínima del perno: *Se calcula la longitud de anclaje necesaria por adherencia.*	Mínimo: 29 cm Calculado: 60 cm	Cumple
Anclaje perno en hormigón:		
- Tracción:	Máximo: 102.57 kN Calculado: 80.58 kN	Cumple
- Cortante:	Máximo: 71.8 kN Calculado: 11.4 kN	Cumple
- Tracción + Cortante:	Máximo: 102.57 kN Calculado: 96.86 kN	Cumple
Tracción en vástago de pernos:	Máximo: 99.86 kN Calculado: 75.62 kN	Cumple
Tensión de Von Mises en vástago de pernos:	Máximo: 476.19 MPa Calculado: 247.801 MPa	Cumple
Aplastamiento perno en placa: *Límite del cortante en un perno actuando contra la placa*	Máximo: 209.52 kN Calculado: 10.66 kN	Cumple
Tensión de Von Mises en secciones globales:	Máximo: 261.905 MPa	
- Derecha:	Calculado: 235.518 MPa	Cumple
- Izquierda:	Calculado: 211.172 MPa	Cumple
- Arriba:	Calculado: 169.387 MPa	Cumple
- Abajo:	Calculado: 177.846 MPa	Cumple
Flecha global equivalente: *Limitación de la deformabilidad de los vuelos*	Mínimo: 250	
- Derecha:	Calculado: 4018.1	Cumple
- Izquierda:	Calculado: 4412.87	Cumple
- Arriba:	Calculado: 5349.92	Cumple
- Abajo:	Calculado: 5298.38	Cumple
Tensión de Von Mises local: *Tensión por tracción de pernos sobre placas en voladizo*	Máximo: 261.905 MPa Calculado: 258.333 MPa	Cumple
Se cumplen todas las comprobaciones		
Información adicional:		
- Relación rotura pésima sección de hormigón: 0.245		
- Punto de tensión local máxima: (-0.13, 0.225)		

d) Medición

Elementos de tornillería			
Tipo	Material	Cantidad	Descripción
Tuercas	Clase 6	8	ISO 4032-M20
Arandelas	Dureza 200 HV	8	ISO 7089-20

Placas de anclaje				
Material	Elementos	Cantidad	Dimensiones (mm)	Peso (kg)
S275	Placa base	1	450x450x20	31.79
	Rigidizadores pasantes	2	450/250x100/0x5	2.75
	Rigidizadores no pasantes	4	95/0x100/0x6	0.89
			Total	35.43
B 500 S, Ys = 1.15 (corrugado)	Pernos de anclaje	8	Ø 20 - L = 650	12.82
			Total	12.82

2. CIMENTACIÓN

2.1. Elementos de cimentación aislados

2.1.1. Comprobación

Referencia: N29
Dimensiones: 260 x 260 x 80
Armados: Xi:Ø16c/20 Yi:Ø16c/20 Xs:Ø16c/20 Ys:Ø16c/20

Comprobación	Valores	Estado
Tensiones sobre el terreno: *Criterio de CYPE*		
- Tensión media en situaciones persistentes:	Máximo: 0.1 MPa Calculado: 0.0408096 MPa	Cumple
- Tensión media en situaciones accidentales sísmicas:	Máximo: 0.125 MPa Calculado: 0.0278604 MPa	Cumple
- Tensión máxima en situaciones persistentes sin viento:	Máximo: 0.124979 MPa Calculado: 0.0433602 MPa	Cumple
- Tensión máxima en situaciones persistentes con viento:	Máximo: 0.124979 MPa Calculado: 0.069651 MPa	Cumple
- Tensión máxima en situaciones accidentales sísmicas:	Máximo: 0.156175 MPa Calculado: 0.0309996 MPa	Cumple
Vuelco de la zapata:		
- En dirección X:		No procede[1]
- En dirección Y: *Si el % de reserva de seguridad es mayor que cero, quiere decir que los coeficientes de seguridad al vuelco son mayores que los valores estrictos exigidos para todas las combinaciones de equilibrio.*	Reserva seguridad: 57.2 %	Cumple
[1] *Sin momento de vuelco*		
Flexión en la zapata:		
- En dirección X:	Momento: 48.03 kN·m	Cumple
- En dirección Y:	Momento: 76.16 kN·m	Cumple
Cortante en la zapata:		
- En dirección X:	Cortante: 20.70 kN	Cumple
- En dirección Y:	Cortante: 51.01 kN	Cumple
Compresión oblicua en la zapata: *Criterio de CYPE*	Máximo: 5000 kN/m²	
- Situaciones persistentes:	Calculado: 103.8 kN/m²	Cumple
- Situaciones accidentales sísmicas:	Calculado: 39.3 kN/m²	Cumple
Canto mínimo: *Criterio de CYPE*	Mínimo: 15 cm Calculado: 80 cm	Cumple
Espacio para anclar arranques en cimentación: - N29:	Mínimo: 65 cm Calculado: 73 cm	Cumple
Cuantía geométrica mínima: *Norma Código Estructural. Artículo A19.9.2.1.1*	Mínimo: 0.0012	
- Armado inferior dirección X:	Calculado: 0.0013	Cumple
- Armado superior dirección X:	Calculado: 0.0013	Cumple
- Armado inferior dirección Y:	Calculado: 0.0013	Cumple

Referencia: N29
Dimensiones: 260 x 260 x 80
Armados: Xi:Ø16c/20 Yi:Ø16c/20 Xs:Ø16c/20 Ys:Ø16c/20

Comprobación	Valores	Estado
- Armado superior dirección Y:	Calculado: 0.0013	Cumple
Diámetro mínimo de las barras: *Norma Código Estructural. Artículo A19.9.8.2.1*	Mínimo: 12 mm	
- Parrilla inferior:	Calculado: 16 mm	Cumple
- Parrilla superior:	Calculado: 16 mm	Cumple
Separación máxima entre barras: *Criterio de CYPE*	Máximo: 30 cm	
- Armado inferior dirección X:	Calculado: 20 cm	Cumple
- Armado inferior dirección Y:	Calculado: 20 cm	Cumple
- Armado superior dirección X:	Calculado: 20 cm	Cumple
- Armado superior dirección Y:	Calculado: 20 cm	Cumple
Separación mínima entre barras: *Criterio de CYPE*	Mínimo: 10 cm	
- Armado inferior dirección X:	Calculado: 20 cm	Cumple
- Armado inferior dirección Y:	Calculado: 20 cm	Cumple
- Armado superior dirección X:	Calculado: 20 cm	Cumple
- Armado superior dirección Y:	Calculado: 20 cm	Cumple
Longitud de anclaje: *49.5*	Calculado: 37 cm	
- Armado inf. dirección X hacia der:	Mínimo: 19 cm	Cumple
- Armado inf. dirección X hacia izq:	Mínimo: 19 cm	Cumple
- Armado inf. dirección Y hacia arriba:	Mínimo: 19 cm	Cumple
- Armado inf. dirección Y hacia abajo:	Mínimo: 19 cm	Cumple
- Armado sup. dirección X hacia der:	Mínimo: 24 cm	Cumple
- Armado sup. dirección X hacia izq:	Mínimo: 24 cm	Cumple
- Armado sup. dirección Y hacia arriba:	Mínimo: 24 cm	Cumple
- Armado sup. dirección Y hacia abajo:	Mínimo: 24 cm	Cumple
Se cumplen todas las comprobaciones		

Información adicional:
- Zapata de tipo rígido
- Relación rotura pésima (En dirección X): 0.07
- Relación rotura pésima (En dirección Y): 0.11
- Cortante de agotamiento (En dirección X): 633.43 kN
- Cortante de agotamiento (En dirección Y): 633.43 kN

Referencia: N11
Dimensiones: 260 x 260 x 80
Armados: Xi:Ø16c/20 Yi:Ø16c/20 Xs:Ø16c/20 Ys:Ø16c/20

Comprobación	Valores	Estado
Tensiones sobre el terreno: *Criterio de CYPE*		
- Tensión media en situaciones persistentes:	Máximo: 0.1 MPa Calculado: 0.0408096 MPa	Cumple
- Tensión media en situaciones accidentales sísmicas:	Máximo: 0.125 MPa Calculado: 0.0279585 MPa	Cumple
- Tensión máxima en situaciones persistentes sin viento:	Máximo: 0.124979 MPa Calculado: 0.0433602 MPa	Cumple
- Tensión máxima en situaciones persistentes con viento:	Máximo: 0.124979 MPa Calculado: 0.0619011 MPa	Cumple
- Tensión máxima en situaciones accidentales sísmicas:	Máximo: 0.156175 MPa Calculado: 0.0309996 MPa	Cumple
Vuelco de la zapata:		
- En dirección X:		No procede[1]
- En dirección Y: *Si el % de reserva de seguridad es mayor que cero, quiere decir que los coeficientes de seguridad al vuelco son mayores que los valores estrictos exigidos para todas las combinaciones de equilibrio.*	Reserva seguridad: 61.8 %	Cumple
[1] *Sin momento de vuelco*		
Flexión en la zapata:		
- En dirección X:	Momento: 47.87 kN·m	Cumple
- En dirección Y:	Momento: 67.76 kN·m	Cumple

Referencia: N11
Dimensiones: 260 x 260 x 80
Armados: Xi:Ø16c/20 Yi:Ø16c/20 Xs:Ø16c/20 Ys:Ø16c/20

Comprobación	Valores	Estado
Cortante en la zapata:		
- En dirección X:	Cortante: 20.70 kN	Cumple
- En dirección Y:	Cortante: 45.42 kN	Cumple
Compresión oblicua en la zapata: *Criterio de CYPE*	Máximo: 5000 kN/m²	
- Situaciones persistentes:	Calculado: 103.8 kN/m²	Cumple
- Situaciones accidentales sísmicas:	Calculado: 39.9 kN/m²	Cumple
Canto mínimo: *Criterio de CYPE*	Mínimo: 15 cm Calculado: 80 cm	Cumple
Espacio para anclar arranques en cimentación:	Mínimo: 65 cm	
- N11:	Calculado: 73 cm	Cumple
Cuantía geométrica mínima: *Norma Código Estructural. Artículo A19.9.2.1.1*	Mínimo: 0.0012	
- Armado inferior dirección X:	Calculado: 0.0013	Cumple
- Armado superior dirección X:	Calculado: 0.0013	Cumple
- Armado inferior dirección Y:	Calculado: 0.0013	Cumple
- Armado superior dirección Y:	Calculado: 0.0013	Cumple
Diámetro mínimo de las barras: *Norma Código Estructural. Artículo A19.9.8.2.1*	Mínimo: 12 mm	
- Parrilla inferior:	Calculado: 16 mm	Cumple
- Parrilla superior:	Calculado: 16 mm	Cumple
Separación máxima entre barras: *Criterio de CYPE*	Máximo: 30 cm	
- Armado inferior dirección X:	Calculado: 20 cm	Cumple
- Armado inferior dirección Y:	Calculado: 20 cm	Cumple
- Armado superior dirección X:	Calculado: 20 cm	Cumple
- Armado superior dirección Y:	Calculado: 20 cm	Cumple
Separación mínima entre barras: *Criterio de CYPE*	Mínimo: 10 cm	
- Armado inferior dirección X:	Calculado: 20 cm	Cumple
- Armado inferior dirección Y:	Calculado: 20 cm	Cumple
- Armado superior dirección X:	Calculado: 20 cm	Cumple
- Armado superior dirección Y:	Calculado: 20 cm	Cumple
Longitud de anclaje: *49.5*	Calculado: 37 cm	
- Armado inf. dirección X hacia der:	Mínimo: 19 cm	Cumple
- Armado inf. dirección X hacia izq:	Mínimo: 19 cm	Cumple
- Armado inf. dirección Y hacia arriba:	Mínimo: 19 cm	Cumple
- Armado inf. dirección Y hacia abajo:	Mínimo: 19 cm	Cumple
- Armado sup. dirección X hacia der:	Mínimo: 24 cm	Cumple
- Armado sup. dirección X hacia izq:	Mínimo: 24 cm	Cumple
- Armado sup. dirección Y hacia arriba:	Mínimo: 24 cm	Cumple
- Armado sup. dirección Y hacia abajo:	Mínimo: 24 cm	Cumple
Se cumplen todas las comprobaciones		

Información adicional:
- Zapata de tipo rígido
- Relación rotura pésima (En dirección X): 0.07
- Relación rotura pésima (En dirección Y): 0.10
- Cortante de agotamiento (En dirección X): 633.43 kN
- Cortante de agotamiento (En dirección Y): 633.43 kN

Referencia: N13
Dimensiones: 260 x 260 x 80
Armados: Xi:Ø16c/20 Yi:Ø16c/20 Xs:Ø16c/20 Ys:Ø16c/20

Comprobación	Valores	Estado
Tensiones sobre el terreno: *Criterio de CYPE*		
- Tensión media en situaciones persistentes:	Máximo: 0.1 MPa Calculado: 0.0477747 MPa	Cumple

Referencia: N13
Dimensiones: 260 x 260 x 80
Armados: Xi:Ø16c/20 Yi:Ø16c/20 Xs:Ø16c/20 Ys:Ø16c/20

Comprobación	Valores	Estado
- Tensión media en situaciones accidentales sísmicas:	Máximo: 0.125 MPa Calculado: 0.0289395 MPa	Cumple
- Tensión máxima en situaciones persistentes sin viento:	Máximo: 0.124979 MPa Calculado: 0.0536607 MPa	Cumple
- Tensión máxima en situaciones persistentes con viento:	Máximo: 0.124979 MPa Calculado: 0.0757332 MPa	Cumple
- Tensión máxima en situaciones accidentales sísmicas:	Máximo: 0.156175 MPa Calculado: 0.0349236 MPa	Cumple
Vuelco de la zapata:		
- En dirección X:		No procede[1]
- En dirección Y: *Si el % de reserva de seguridad es mayor que cero, quiere decir que los coeficientes de seguridad al vuelco son mayores que los valores estrictos exigidos para todas las combinaciones de equilibrio.*	Reserva seguridad: 63.9 %	Cumple
[1] *Sin momento de vuelco*		
Flexión en la zapata:		
- En dirección X:	Momento: 51.41 kN·m	Cumple
- En dirección Y:	Momento: 81.82 kN·m	Cumple
Cortante en la zapata:		
- En dirección X:	Cortante: 27.37 kN	Cumple
- En dirección Y:	Cortante: 53.17 kN	Cumple
Compresión oblicua en la zapata: *Criterio de CYPE*	Máximo: 5000 kN/m²	
- Situaciones persistentes:	Calculado: 139.9 kN/m²	Cumple
- Situaciones accidentales sísmicas:	Calculado: 44.5 kN/m²	Cumple
Canto mínimo: *Criterio de CYPE*	Mínimo: 15 cm Calculado: 80 cm	Cumple
Espacio para anclar arranques en cimentación:	Mínimo: 65 cm	
- N13:	Calculado: 73 cm	Cumple
Cuantía geométrica mínima: *Norma Código Estructural. Artículo A19.9.2.1.1*	Mínimo: 0.0012	
- Armado inferior dirección X:	Calculado: 0.0013	Cumple
- Armado superior dirección X:	Calculado: 0.0013	Cumple
- Armado inferior dirección Y:	Calculado: 0.0013	Cumple
- Armado superior dirección Y:	Calculado: 0.0013	Cumple
Diámetro mínimo de las barras: *Norma Código Estructural. Artículo A19.9.8.2.1*	Mínimo: 12 mm	
- Parrilla inferior:	Calculado: 16 mm	Cumple
- Parrilla superior:	Calculado: 16 mm	Cumple
Separación máxima entre barras: *Criterio de CYPE*	Máximo: 30 cm	
- Armado inferior dirección X:	Calculado: 20 cm	Cumple
- Armado inferior dirección Y:	Calculado: 20 cm	Cumple
- Armado superior dirección X:	Calculado: 20 cm	Cumple
- Armado superior dirección Y:	Calculado: 20 cm	Cumple
Separación mínima entre barras: *Criterio de CYPE*	Mínimo: 10 cm	
- Armado inferior dirección X:	Calculado: 20 cm	Cumple
- Armado inferior dirección Y:	Calculado: 20 cm	Cumple
- Armado superior dirección X:	Calculado: 20 cm	Cumple
- Armado superior dirección Y:	Calculado: 20 cm	Cumple
Longitud de anclaje: *49.5*	Calculado: 37 cm	
- Armado inf. dirección X hacia der:	Mínimo: 19 cm	Cumple
- Armado inf. dirección X hacia izq:	Mínimo: 19 cm	Cumple
- Armado inf. dirección Y hacia arriba:	Mínimo: 19 cm	Cumple
- Armado inf. dirección Y hacia abajo:	Mínimo: 19 cm	Cumple
- Armado sup. dirección X hacia der:	Mínimo: 24 cm	Cumple
- Armado sup. dirección X hacia izq:	Mínimo: 24 cm	Cumple
- Armado sup. dirección Y hacia arriba:	Mínimo: 24 cm	Cumple
- Armado sup. dirección Y hacia abajo:	Mínimo: 24 cm	Cumple

Referencia: N13
Dimensiones: 260 x 260 x 80
Armados: Xi:Ø16c/20 Yi:Ø16c/20 Xs:Ø16c/20 Ys:Ø16c/20

Comprobación	Valores	Estado
Se cumplen todas las comprobaciones		
Información adicional:		
- Zapata de tipo rígido		
- Relación rotura pésima (En dirección X): 0.08		
- Relación rotura pésima (En dirección Y): 0.12		
- Cortante de agotamiento (En dirección X): 633.43 kN		
- Cortante de agotamiento (En dirección Y): 633.43 kN		

Referencia: N15
Dimensiones: 260 x 260 x 80
Armados: Xi:Ø16c/20 Yi:Ø16c/20 Xs:Ø16c/20 Ys:Ø16c/20

Comprobación	Valores	Estado
Tensiones sobre el terreno: *Criterio de CYPE*		
- Tensión media en situaciones persistentes:	Máximo: 0.1 MPa Calculado: 0.0493443 MPa	Cumple
- Tensión media en situaciones accidentales sísmicas:	Máximo: 0.125 MPa Calculado: 0.0295281 MPa	Cumple
- Tensión máxima en situaciones persistentes sin viento:	Máximo: 0.124979 MPa Calculado: 0.0565056 MPa	Cumple
- Tensión máxima en situaciones persistentes con viento:	Máximo: 0.124979 MPa Calculado: 0.0775971 MPa	Cumple
- Tensión máxima en situaciones accidentales sísmicas:	Máximo: 0.156175 MPa Calculado: 0.036297 MPa	Cumple
Vuelco de la zapata:		
- En dirección X:		No procede[1]
- En dirección Y: *Si el % de reserva de seguridad es mayor que cero, quiere decir que los coeficientes de seguridad al vuelco son mayores que los valores estrictos exigidos para todas las combinaciones de equilibrio.*	Reserva seguridad: 71.4 %	Cumple
[1] *Sin momento de vuelco*		
Flexión en la zapata:		
- En dirección X:	Momento: 55.02 kN·m	Cumple
- En dirección Y:	Momento: 82.97 kN·m	Cumple
Cortante en la zapata:		
- En dirección X:	Cortante: 28.94 kN	Cumple
- En dirección Y:	Cortante: 53.76 kN	Cumple
Compresión oblicua en la zapata: *Criterio de CYPE*	Máximo: 5000 kN/m²	
- Situaciones persistentes:	Calculado: 147.6 kN/m²	Cumple
- Situaciones accidentales sísmicas:	Calculado: 47.2 kN/m²	Cumple
Canto mínimo: *Criterio de CYPE*	Mínimo: 15 cm Calculado: 80 cm	Cumple
Espacio para anclar arranques en cimentación: - N15:	Mínimo: 65 cm Calculado: 73 cm	Cumple
Cuantía geométrica mínima: *Norma Código Estructural. Artículo A19.9.2.1.1*	Mínimo: 0.0012	
- Armado inferior dirección X:	Calculado: 0.0013	Cumple
- Armado superior dirección X:	Calculado: 0.0013	Cumple
- Armado inferior dirección Y:	Calculado: 0.0013	Cumple
- Armado superior dirección Y:	Calculado: 0.0013	Cumple
Diámetro mínimo de las barras: *Norma Código Estructural. Artículo A19.9.8.2.1*	Mínimo: 12 mm	
- Parrilla inferior:	Calculado: 16 mm	Cumple
- Parrilla superior:	Calculado: 16 mm	Cumple
Separación máxima entre barras: *Criterio de CYPE*	Máximo: 30 cm	
- Armado inferior dirección X:	Calculado: 20 cm	Cumple
- Armado inferior dirección Y:	Calculado: 20 cm	Cumple
- Armado superior dirección X:	Calculado: 20 cm	Cumple
- Armado superior dirección Y:	Calculado: 20 cm	Cumple

Referencia: N15
Dimensiones: 260 x 260 x 80
Armados: Xi:Ø16c/20 Yi:Ø16c/20 Xs:Ø16c/20 Ys:Ø16c/20

Comprobación	Valores	Estado
Separación mínima entre barras: *Criterio de CYPE*	Mínimo: 10 cm	
- Armado inferior dirección X:	Calculado: 20 cm	Cumple
- Armado inferior dirección Y:	Calculado: 20 cm	Cumple
- Armado superior dirección X:	Calculado: 20 cm	Cumple
- Armado superior dirección Y:	Calculado: 20 cm	Cumple
Longitud de anclaje: *49.5*	Calculado: 37 cm	
- Armado inf. dirección X hacia der:	Mínimo: 19 cm	Cumple
- Armado inf. dirección X hacia izq:	Mínimo: 19 cm	Cumple
- Armado inf. dirección Y hacia arriba:	Mínimo: 19 cm	Cumple
- Armado inf. dirección Y hacia abajo:	Mínimo: 19 cm	Cumple
- Armado sup. dirección X hacia der:	Mínimo: 24 cm	Cumple
- Armado sup. dirección X hacia izq:	Mínimo: 24 cm	Cumple
- Armado sup. dirección Y hacia arriba:	Mínimo: 24 cm	Cumple
- Armado sup. dirección Y hacia abajo:	Mínimo: 24 cm	Cumple
Se cumplen todas las comprobaciones		
Información adicional:		
- Zapata de tipo rígido		
- Relación rotura pésima (En dirección X): 0.08		
- Relación rotura pésima (En dirección Y): 0.12		
- Cortante de agotamiento (En dirección X): 633.43 kN		
- Cortante de agotamiento (En dirección Y): 633.43 kN		

Referencia: N17
Dimensiones: 260 x 260 x 80
Armados: Xi:Ø16c/20 Yi:Ø16c/20 Xs:Ø16c/20 Ys:Ø16c/20

Comprobación	Valores	Estado
Tensiones sobre el terreno: *Criterio de CYPE*		
- Tensión media en situaciones persistentes:	Máximo: 0.1 MPa Calculado: 0.0477747 MPa	Cumple
- Tensión media en situaciones accidentales sísmicas:	Máximo: 0.125 MPa Calculado: 0.0288414 MPa	Cumple
- Tensión máxima en situaciones persistentes sin viento:	Máximo: 0.124979 MPa Calculado: 0.0543474 MPa	Cumple
- Tensión máxima en situaciones persistentes con viento:	Máximo: 0.124979 MPa Calculado: 0.073575 MPa	Cumple
- Tensión máxima en situaciones accidentales sísmicas:	Máximo: 0.156175 MPa Calculado: 0.0355122 MPa	Cumple
Vuelco de la zapata:		
- En dirección X:		No procede[1]
- En dirección Y: *Si el % de reserva de seguridad es mayor que cero, quiere decir que los coeficientes de seguridad al vuelco son mayores que los valores estrictos exigidos para todas las combinaciones de equilibrio.*	Reserva seguridad: 77.9 %	Cumple
[1] *Sin momento de vuelco*		
Flexión en la zapata:		
- En dirección X:	Momento: 52.21 kN·m	Cumple
- En dirección Y:	Momento: 76.78 kN·m	Cumple
Cortante en la zapata:		
- En dirección X:	Cortante: 27.47 kN	Cumple
- En dirección Y:	Cortante: 49.74 kN	Cumple
Compresión oblicua en la zapata: *Criterio de CYPE*	Máximo: 5000 kN/m²	
- Situaciones persistentes:	Calculado: 138 kN/m²	Cumple
- Situaciones accidentales sísmicas:	Calculado: 44.2 kN/m²	Cumple
Canto mínimo: *Criterio de CYPE*	Mínimo: 15 cm Calculado: 80 cm	Cumple
Espacio para anclar arranques en cimentación: - N17:	Mínimo: 65 cm Calculado: 73 cm	Cumple

Referencia: N17 Dimensiones: 260 x 260 x 80 Armados: Xi:Ø16c/20 Yi:Ø16c/20 Xs:Ø16c/20 Ys:Ø16c/20		
Comprobación	Valores	Estado
Cuantía geométrica mínima: *Norma Código Estructural. Artículo A19.9.2.1.1*	Mínimo: 0.0012	
- Armado inferior dirección X:	Calculado: 0.0013	Cumple
- Armado superior dirección X:	Calculado: 0.0013	Cumple
- Armado inferior dirección Y:	Calculado: 0.0013	Cumple
- Armado superior dirección Y:	Calculado: 0.0013	Cumple
Diámetro mínimo de las barras: *Norma Código Estructural. Artículo A19.9.8.2.1*	Mínimo: 12 mm	
- Parrilla inferior:	Calculado: 16 mm	Cumple
- Parrilla superior:	Calculado: 16 mm	Cumple
Separación máxima entre barras: *Criterio de CYPE*	Máximo: 30 cm	
- Armado inferior dirección X:	Calculado: 20 cm	Cumple
- Armado inferior dirección Y:	Calculado: 20 cm	Cumple
- Armado superior dirección X:	Calculado: 20 cm	Cumple
- Armado superior dirección Y:	Calculado: 20 cm	Cumple
Separación mínima entre barras: *Criterio de CYPE*	Mínimo: 10 cm	
- Armado inferior dirección X:	Calculado: 20 cm	Cumple
- Armado inferior dirección Y:	Calculado: 20 cm	Cumple
- Armado superior dirección X:	Calculado: 20 cm	Cumple
- Armado superior dirección Y:	Calculado: 20 cm	Cumple
Longitud de anclaje: *49.5*	Calculado: 37 cm	
- Armado inf. dirección X hacia der:	Mínimo: 19 cm	Cumple
- Armado inf. dirección X hacia izq:	Mínimo: 19 cm	Cumple
- Armado inf. dirección Y hacia arriba:	Mínimo: 19 cm	Cumple
- Armado inf. dirección Y hacia abajo:	Mínimo: 19 cm	Cumple
- Armado sup. dirección X hacia der:	Mínimo: 24 cm	Cumple
- Armado sup. dirección X hacia izq:	Mínimo: 24 cm	Cumple
- Armado sup. dirección Y hacia arriba:	Mínimo: 24 cm	Cumple
- Armado sup. dirección Y hacia abajo:	Mínimo: 24 cm	Cumple
Se cumplen todas las comprobaciones		
Información adicional:		
- Zapata de tipo rígido		
- Relación rotura pésima (En dirección X): 0.08		
- Relación rotura pésima (En dirección Y): 0.11		
- Cortante de agotamiento (En dirección X): 633.43 kN		
- Cortante de agotamiento (En dirección Y): 633.43 kN		

Referencia: N19 Dimensiones: 260 x 260 x 80 Armados: Xi:Ø16c/20 Yi:Ø16c/20 Xs:Ø16c/20 Ys:Ø16c/20		
Comprobación	Valores	Estado
Tensiones sobre el terreno: *Criterio de CYPE*		
- Tensión media en situaciones persistentes:	Máximo: 0.1 MPa Calculado: 0.0399267 MPa	Cumple
- Tensión media en situaciones accidentales sísmicas:	Máximo: 0.125 MPa Calculado: 0.0278604 MPa	Cumple
- Tensión máxima en situaciones persistentes sin viento:	Máximo: 0.124979 MPa Calculado: 0.0437526 MPa	Cumple
- Tensión máxima en situaciones persistentes con viento:	Máximo: 0.124979 MPa Calculado: 0.0601353 MPa	Cumple
- Tensión máxima en situaciones accidentales sísmicas:	Máximo: 0.156175 MPa Calculado: 0.0317844 MPa	Cumple
Vuelco de la zapata:		
- En dirección X:		No procede[1]

Referencia: N19 Dimensiones: 260 x 260 x 80 Armados: Xi:Ø16c/20 Yi:Ø16c/20 Xs:Ø16c/20 Ys:Ø16c/20		
Comprobación	Valores	Estado
- En dirección Y: *Si el % de reserva de seguridad es mayor que cero, quiere decir que los coeficientes de seguridad al vuelco son mayores que los valores estrictos exigidos para todas las combinaciones de equilibrio.* [1] *Sin momento de vuelco*	Reserva seguridad: 65.6 %	Cumple
Flexión en la zapata:		
- En dirección X:	Momento: 55.54 kN·m	Cumple
- En dirección Y:	Momento: 59.89 kN·m	Cumple
Cortante en la zapata:		
- En dirección X:	Cortante: 20.21 kN	Cumple
- En dirección Y:	Cortante: 38.95 kN	Cumple
Compresión oblicua en la zapata: *Criterio de CYPE*	Máximo: 5000 kN/m²	
- Situaciones persistentes:	Calculado: 99.1 kN/m²	Cumple
- Situaciones accidentales sísmicas:	Calculado: 39.1 kN/m²	Cumple
Canto mínimo: *Criterio de CYPE*	Mínimo: 15 cm Calculado: 80 cm	Cumple
Espacio para anclar arranques en cimentación: - N19:	Mínimo: 65 cm Calculado: 73 cm	Cumple
Cuantía geométrica mínima: *Norma Código Estructural. Artículo A19.9.2.1.1*	Mínimo: 0.0012	
- Armado inferior dirección X:	Calculado: 0.0013	Cumple
- Armado superior dirección X:	Calculado: 0.0013	Cumple
- Armado inferior dirección Y:	Calculado: 0.0013	Cumple
- Armado superior dirección Y:	Calculado: 0.0013	Cumple
Diámetro mínimo de las barras: *Norma Código Estructural. Artículo A19.9.8.2.1*	Mínimo: 12 mm	
- Parrilla inferior:	Calculado: 16 mm	Cumple
- Parrilla superior:	Calculado: 16 mm	Cumple
Separación máxima entre barras: *Criterio de CYPE*	Máximo: 30 cm	
- Armado inferior dirección X:	Calculado: 20 cm	Cumple
- Armado inferior dirección Y:	Calculado: 20 cm	Cumple
- Armado superior dirección X:	Calculado: 20 cm	Cumple
- Armado superior dirección Y:	Calculado: 20 cm	Cumple
Separación mínima entre barras: *Criterio de CYPE*	Mínimo: 10 cm	
- Armado inferior dirección X:	Calculado: 20 cm	Cumple
- Armado inferior dirección Y:	Calculado: 20 cm	Cumple
- Armado superior dirección X:	Calculado: 20 cm	Cumple
- Armado superior dirección Y:	Calculado: 20 cm	Cumple
Longitud de anclaje: *49.5*	Calculado: 37 cm	
- Armado inf. dirección X hacia der:	Mínimo: 19 cm	Cumple
- Armado inf. dirección X hacia izq:	Mínimo: 19 cm	Cumple
- Armado inf. dirección Y hacia arriba:	Mínimo: 19 cm	Cumple
- Armado inf. dirección Y hacia abajo:	Mínimo: 19 cm	Cumple
- Armado sup. dirección X hacia der:	Mínimo: 24 cm	Cumple
- Armado sup. dirección X hacia izq:	Mínimo: 24 cm	Cumple
- Armado sup. dirección Y hacia arriba:	Mínimo: 24 cm	Cumple
- Armado sup. dirección Y hacia abajo:	Mínimo: 24 cm	Cumple
Se cumplen todas las comprobaciones		
Información adicional:		
- Zapata de tipo rígido		
- Relación rotura pésima (En dirección X): 0.08		
- Relación rotura pésima (En dirección Y): 0.09		
- Cortante de agotamiento (En dirección X): 633.43 kN		
- Cortante de agotamiento (En dirección Y): 633.43 kN		

Referencia: N1 Dimensiones: 260 x 260 x 80 Armados: Xi:Ø16c/20 Yi:Ø16c/20 Xs:Ø16c/20 Ys:Ø16c/20		
Comprobación	Valores	Estado
Tensiones sobre el terreno: *Criterio de CYPE*		
- Tensión media en situaciones persistentes:	Máximo: 0.1 MPa Calculado: 0.0302148 MPa	Cumple
- Tensión media en situaciones accidentales sísmicas:	Máximo: 0.125 MPa Calculado: 0.0239364 MPa	Cumple
- Tensión máxima en situaciones persistentes sin viento:	Máximo: 0.124979 MPa Calculado: 0.0250155 MPa	Cumple
- Tensión máxima en situaciones persistentes con viento:	Máximo: 0.124979 MPa Calculado: 0.0302148 MPa	Cumple
- Tensión máxima en situaciones accidentales sísmicas:	Máximo: 0.156175 MPa Calculado: 0.0239364 MPa	Cumple
Vuelco de la zapata:		
- En dirección X:		No procede[1]
- En dirección Y:		No procede[1]
[1] *Sin momento de vuelco*		
Flexión en la zapata:		
- En dirección X:	Momento: 42.80 kN·m	Cumple
- En dirección Y:	Momento: 102.47 kN·m	Cumple
Cortante en la zapata:		
- En dirección X:	Cortante: 12.95 kN	Cumple
- En dirección Y:	Cortante: 15.50 kN	Cumple
Compresión oblicua en la zapata: *Criterio de CYPE*	Máximo: 5000 kN/m²	
- Situaciones persistentes:	Calculado: 69.5 kN/m²	Cumple
- Situaciones accidentales sísmicas:	Calculado: 25.4 kN/m²	Cumple
Canto mínimo: *Criterio de CYPE*	Mínimo: 15 cm Calculado: 80 cm	Cumple
Espacio para anclar arranques en cimentación: - N1:	Mínimo: 60 cm Calculado: 73 cm	Cumple
Cuantía geométrica mínima: *Norma Código Estructural. Artículo A19.9.2.1.1*	Mínimo: 0.0012	
- Armado inferior dirección X:	Calculado: 0.0013	Cumple
- Armado superior dirección X:	Calculado: 0.0013	Cumple
- Armado inferior dirección Y:	Calculado: 0.0013	Cumple
- Armado superior dirección Y:	Calculado: 0.0013	Cumple
Diámetro mínimo de las barras: *Norma Código Estructural. Artículo A19.9.8.2.1*	Mínimo: 12 mm	
- Parrilla inferior:	Calculado: 16 mm	Cumple
- Parrilla superior:	Calculado: 16 mm	Cumple
Separación máxima entre barras: *Criterio de CYPE*	Máximo: 30 cm	
- Armado inferior dirección X:	Calculado: 20 cm	Cumple
- Armado inferior dirección Y:	Calculado: 20 cm	Cumple
- Armado superior dirección X:	Calculado: 20 cm	Cumple
- Armado superior dirección Y:	Calculado: 20 cm	Cumple
Separación mínima entre barras: *Criterio de CYPE*	Mínimo: 10 cm	
- Armado inferior dirección X:	Calculado: 20 cm	Cumple
- Armado inferior dirección Y:	Calculado: 20 cm	Cumple
- Armado superior dirección X:	Calculado: 20 cm	Cumple
- Armado superior dirección Y:	Calculado: 20 cm	Cumple
Longitud de anclaje: *49.5*	Calculado: 40 cm	
- Armado inf. dirección X hacia der:	Mínimo: 19 cm	Cumple
- Armado inf. dirección X hacia izq:	Mínimo: 19 cm	Cumple
- Armado inf. dirección Y hacia arriba:	Mínimo: 19 cm	Cumple
- Armado inf. dirección Y hacia abajo:	Mínimo: 19 cm	Cumple
- Armado sup. dirección X hacia der:	Mínimo: 24 cm	Cumple
- Armado sup. dirección X hacia izq:	Mínimo: 24 cm	Cumple

Referencia: N1 Dimensiones: 260 x 260 x 80 Armados: Xi:Ø16c/20 Yi:Ø16c/20 Xs:Ø16c/20 Ys:Ø16c/20		
Comprobación	Valores	Estado
- Armado sup. dirección Y hacia arriba:	Mínimo: 24 cm	Cumple
- Armado sup. dirección Y hacia abajo:	Mínimo: 24 cm	Cumple
Se cumplen todas las comprobaciones		
Información adicional:		
- Zapata de tipo rígido		
- Relación rotura pésima (En dirección X): 0.07		
- Relación rotura pésima (En dirección Y): 0.15		
- Cortante de agotamiento (En dirección X): 633.43 kN		
- Cortante de agotamiento (En dirección Y): 633.43 kN		

Referencia: N3 Dimensiones: 230 x 230 x 80 Armados: Xi:Ø12c/11 Yi:Ø12c/11 Xs:Ø12c/11 Ys:Ø12c/11		
Comprobación	Valores	Estado
Tensiones sobre el terreno: *Criterio de CYPE*		
- Tensión media en situaciones persistentes:	Máximo: 0.1 MPa Calculado: 0.0395343 MPa	Cumple
- Tensión media en situaciones accidentales sísmicas:	Máximo: 0.125 MPa Calculado: 0.0261927 MPa	Cumple
- Tensión máxima en situaciones persistentes sin viento:	Máximo: 0.124979 MPa Calculado: 0.0386514 MPa	Cumple
- Tensión máxima en situaciones persistentes con viento:	Máximo: 0.124979 MPa Calculado: 0.0728883 MPa	Cumple
- Tensión máxima en situaciones accidentales sísmicas:	Máximo: 0.156175 MPa Calculado: 0.0319806 MPa	Cumple
Vuelco de la zapata:		
- En dirección X: *Si el % de reserva de seguridad es mayor que cero, quiere decir que los coeficientes de seguridad al vuelco son mayores que los valores estrictos exigidos para todas las combinaciones de equilibrio.*	Reserva seguridad: 56.5 %	Cumple
- En dirección Y: [1] *Sin momento de vuelco*		No procede[1]
Flexión en la zapata:		
- En dirección X:	Momento: 61.31 kN·m	Cumple
- En dirección Y:	Momento: 46.41 kN·m	Cumple
Cortante en la zapata:		
- En dirección X:	Cortante: 34.04 kN	Cumple
- En dirección Y:	Cortante: 14.62 kN	Cumple
Compresión oblicua en la zapata: *Criterio de CYPE*	Máximo: 5000 kN/m²	
- Situaciones persistentes:	Calculado: 92.9 kN/m²	Cumple
- Situaciones accidentales sísmicas:	Calculado: 29.8 kN/m²	Cumple
Canto mínimo: *Criterio de CYPE*	Mínimo: 15 cm Calculado: 80 cm	Cumple
Espacio para anclar arranques en cimentación: - N3:	Mínimo: 60 cm Calculado: 74 cm	Cumple
Cuantía geométrica mínima: *Norma Código Estructural. Artículo A19.9.2.1.1*	Mínimo: 0.00123	
- Armado inferior dirección X:	Calculado: 0.00123	Cumple
- Armado superior dirección X:	Calculado: 0.00123	Cumple
- Armado inferior dirección Y:	Calculado: 0.00123	Cumple
- Armado superior dirección Y:	Calculado: 0.00123	Cumple
Diámetro mínimo de las barras: *Norma Código Estructural. Artículo A19.9.8.2.1*	Mínimo: 12 mm	
- Parrilla inferior:	Calculado: 12 mm	Cumple
- Parrilla superior:	Calculado: 12 mm	Cumple
Separación máxima entre barras: *Criterio de CYPE*	Máximo: 30 cm	
- Armado inferior dirección X:	Calculado: 11 cm	Cumple
- Armado inferior dirección Y:	Calculado: 11 cm	Cumple
- Armado superior dirección X:	Calculado: 11 cm	Cumple

Referencia: N3
Dimensiones: 230 x 230 x 80
Armados: Xi:Ø12c/11 Yi:Ø12c/11 Xs:Ø12c/11 Ys:Ø12c/11

Comprobación	Valores	Estado
- Armado superior dirección Y:	Calculado: 11 cm	Cumple
Separación mínima entre barras: *Criterio de CYPE*	Mínimo: 10 cm	
- Armado inferior dirección X:	Calculado: 11 cm	Cumple
- Armado inferior dirección Y:	Calculado: 11 cm	Cumple
- Armado superior dirección X:	Calculado: 11 cm	Cumple
- Armado superior dirección Y:	Calculado: 11 cm	Cumple
Longitud de anclaje: *49.5*	Calculado: 25 cm	
- Armado inf. dirección X hacia der:	Mínimo: 15 cm	Cumple
- Armado inf. dirección X hacia izq:	Mínimo: 15 cm	Cumple
- Armado inf. dirección Y hacia arriba:	Mínimo: 15 cm	Cumple
- Armado inf. dirección Y hacia abajo:	Mínimo: 15 cm	Cumple
- Armado sup. dirección X hacia der:	Mínimo: 18 cm	Cumple
- Armado sup. dirección X hacia izq:	Mínimo: 18 cm	Cumple
- Armado sup. dirección Y hacia arriba:	Mínimo: 18 cm	Cumple
- Armado sup. dirección Y hacia abajo:	Mínimo: 18 cm	Cumple
Se cumplen todas las comprobaciones		

Información adicional:
- Zapata de tipo rígido
- Relación rotura pésima (En dirección X): 0.11
- Relación rotura pésima (En dirección Y): 0.08
- Cortante de agotamiento (En dirección X): 562.60 kN
- Cortante de agotamiento (En dirección Y): 562.60 kN

Referencia: N5
Dimensiones: 230 x 230 x 80
Armados: Xi:Ø12c/11 Yi:Ø12c/11 Xs:Ø12c/11 Ys:Ø12c/11

Comprobación	Valores	Estado
Tensiones sobre el terreno: *Criterio de CYPE*		
- Tensión media en situaciones persistentes:	Máximo: 0.1 MPa Calculado: 0.0365913 MPa	Cumple
- Tensión media en situaciones accidentales sísmicas:	Máximo: 0.125 MPa Calculado: 0.0254079 MPa	Cumple
- Tensión máxima en situaciones persistentes sin viento:	Máximo: 0.124979 MPa Calculado: 0.0420849 MPa	Cumple
- Tensión máxima en situaciones persistentes con viento:	Máximo: 0.124979 MPa Calculado: 0.0730845 MPa	Cumple
- Tensión máxima en situaciones accidentales sísmicas:	Máximo: 0.156175 MPa Calculado: 0.0331578 MPa	Cumple
Vuelco de la zapata:		
- En dirección X: *Si el % de reserva de seguridad es mayor que cero, quiere decir que los coeficientes de seguridad al vuelco son mayores que los valores estrictos exigidos para todas las combinaciones de equilibrio.*	Reserva seguridad: 61.0 %	Cumple
- En dirección Y: *(1) Sin momento de vuelco*		No procede(1)
Flexión en la zapata:		
- En dirección X:	Momento: 58.97 kN·m	Cumple
- En dirección Y:	Momento: 40.93 kN·m	Cumple
Cortante en la zapata:		
- En dirección X:	Cortante: 34.83 kN	Cumple
- En dirección Y:	Cortante: 11.67 kN	Cumple
Compresión oblicua en la zapata: *Criterio de CYPE*	Máximo: 5000 kN/m²	
- Situaciones persistentes:	Calculado: 83.5 kN/m²	Cumple
- Situaciones accidentales sísmicas:	Calculado: 26.3 kN/m²	Cumple
Canto mínimo: *Criterio de CYPE*	Mínimo: 15 cm Calculado: 80 cm	Cumple

Referencia: N5
Dimensiones: 230 x 230 x 80
Armados: Xi:Ø12c/11 Yi:Ø12c/11 Xs:Ø12c/11 Ys:Ø12c/11

Comprobación	Valores	Estado
Espacio para anclar arranques en cimentación: - N5:	Mínimo: 60 cm Calculado: 74 cm	Cumple
Cuantía geométrica mínima: *Norma Código Estructural. Artículo A19.9.2.1.1*	Mínimo: 0.00123	
- Armado inferior dirección X:	Calculado: 0.00123	Cumple
- Armado superior dirección X:	Calculado: 0.00123	Cumple
- Armado inferior dirección Y:	Calculado: 0.00123	Cumple
- Armado superior dirección Y:	Calculado: 0.00123	Cumple
Diámetro mínimo de las barras: *Norma Código Estructural. Artículo A19.9.8.2.1*	Mínimo: 12 mm	
- Parrilla inferior:	Calculado: 12 mm	Cumple
- Parrilla superior:	Calculado: 12 mm	Cumple
Separación máxima entre barras: *Criterio de CYPE*	Máximo: 30 cm	
- Armado inferior dirección X:	Calculado: 11 cm	Cumple
- Armado inferior dirección Y:	Calculado: 11 cm	Cumple
- Armado superior dirección X:	Calculado: 11 cm	Cumple
- Armado superior dirección Y:	Calculado: 11 cm	Cumple
Separación mínima entre barras: *Criterio de CYPE*	Mínimo: 10 cm	
- Armado inferior dirección X:	Calculado: 11 cm	Cumple
- Armado inferior dirección Y:	Calculado: 11 cm	Cumple
- Armado superior dirección X:	Calculado: 11 cm	Cumple
- Armado superior dirección Y:	Calculado: 11 cm	Cumple
Longitud de anclaje: *49.5*	Calculado: 25 cm	
- Armado inf. dirección X hacia der:	Mínimo: 15 cm	Cumple
- Armado inf. dirección X hacia izq:	Mínimo: 15 cm	Cumple
- Armado inf. dirección Y hacia arriba:	Mínimo: 15 cm	Cumple
- Armado inf. dirección Y hacia abajo:	Mínimo: 15 cm	Cumple
- Armado sup. dirección X hacia der:	Mínimo: 18 cm	Cumple
- Armado sup. dirección X hacia izq:	Mínimo: 18 cm	Cumple
- Armado sup. dirección Y hacia arriba:	Mínimo: 18 cm	Cumple
- Armado sup. dirección Y hacia abajo:	Mínimo: 18 cm	Cumple
Se cumplen todas las comprobaciones		

Información adicional:
- Zapata de tipo rígido
- Relación rotura pésima (En dirección X): 0.10
- Relación rotura pésima (En dirección Y): 0.07
- Cortante de agotamiento (En dirección X): 562.60 kN
- Cortante de agotamiento (En dirección Y): 562.60 kN

Referencia: N7
Dimensiones: 230 x 230 x 80
Armados: Xi:Ø12c/11 Yi:Ø12c/11 Xs:Ø12c/11 Ys:Ø12c/11

Comprobación	Valores	Estado
Tensiones sobre el terreno: *Criterio de CYPE*		
- Tensión media en situaciones persistentes:	Máximo: 0.1 MPa Calculado: 0.035316 MPa	Cumple
- Tensión media en situaciones accidentales sísmicas:	Máximo: 0.125 MPa Calculado: 0.0261927 MPa	Cumple
- Tensión máxima en situaciones persistentes sin viento:	Máximo: 0.124979 MPa Calculado: 0.0386514 MPa	Cumple
- Tensión máxima en situaciones persistentes con viento:	Máximo: 0.124979 MPa Calculado: 0.0653346 MPa	Cumple
- Tensión máxima en situaciones accidentales sísmicas:	Máximo: 0.156175 MPa Calculado: 0.0319806 MPa	Cumple
Vuelco de la zapata:		

Referencia: N7
Dimensiones: 230 x 230 x 80
Armados: Xi:Ø12c/11 Yi:Ø12c/11 Xs:Ø12c/11 Ys:Ø12c/11

Comprobación	Valores	Estado
- En dirección X: *Si el % de reserva de seguridad es mayor que cero, quiere decir que los coeficientes de seguridad al vuelco son mayores que los valores estrictos exigidos para todas las combinaciones de equilibrio.*	Reserva seguridad: 23.7 %	Cumple
- En dirección Y: *(1) Sin momento de vuelco*		No procede(1)
Flexión en la zapata:		
- En dirección X:	Momento: 58.94 kN·m	Cumple
- En dirección Y:	Momento: 56.29 kN·m	Cumple
Cortante en la zapata:		
- En dirección X:	Cortante: 50.42 kN	Cumple
- En dirección Y:	Cortante: 11.28 kN	Cumple
Compresión oblicua en la zapata: *Criterio de CYPE*	Máximo: 5000 kN/m²	
- Situaciones persistentes:	Calculado: 76.1 kN/m²	Cumple
- Situaciones accidentales sísmicas:	Calculado: 29.8 kN/m²	Cumple
Canto mínimo: *Criterio de CYPE*	Mínimo: 15 cm Calculado: 80 cm	Cumple
Espacio para anclar arranques en cimentación: - N7:	Mínimo: 60 cm Calculado: 74 cm	Cumple
Cuantía geométrica mínima: *Norma Código Estructural. Artículo A19.9.2.1.1*	Mínimo: 0.00123	
- Armado inferior dirección X:	Calculado: 0.00123	Cumple
- Armado superior dirección X:	Calculado: 0.00123	Cumple
- Armado inferior dirección Y:	Calculado: 0.00123	Cumple
- Armado superior dirección Y:	Calculado: 0.00123	Cumple
Diámetro mínimo de las barras: *Norma Código Estructural. Artículo A19.9.8.2.1*	Mínimo: 12 mm	
- Parrilla inferior:	Calculado: 12 mm	Cumple
- Parrilla superior:	Calculado: 12 mm	Cumple
Separación máxima entre barras: *Criterio de CYPE*	Máximo: 30 cm	
- Armado inferior dirección X:	Calculado: 11 cm	Cumple
- Armado inferior dirección Y:	Calculado: 11 cm	Cumple
- Armado superior dirección X:	Calculado: 11 cm	Cumple
- Armado superior dirección Y:	Calculado: 11 cm	Cumple
Separación mínima entre barras: *Criterio de CYPE*	Mínimo: 10 cm	
- Armado inferior dirección X:	Calculado: 11 cm	Cumple
- Armado inferior dirección Y:	Calculado: 11 cm	Cumple
- Armado superior dirección X:	Calculado: 11 cm	Cumple
- Armado superior dirección Y:	Calculado: 11 cm	Cumple
Longitud de anclaje: *49.5*	Calculado: 25 cm	
- Armado inf. dirección X hacia der:	Mínimo: 15 cm	Cumple
- Armado inf. dirección X hacia izq:	Mínimo: 15 cm	Cumple
- Armado inf. dirección Y hacia arriba:	Mínimo: 15 cm	Cumple
- Armado inf. dirección Y hacia abajo:	Mínimo: 15 cm	Cumple
- Armado sup. dirección X hacia der:	Mínimo: 18 cm	Cumple
- Armado sup. dirección X hacia izq:	Mínimo: 18 cm	Cumple
- Armado sup. dirección Y hacia arriba:	Mínimo: 18 cm	Cumple
- Armado sup. dirección Y hacia abajo:	Mínimo: 18 cm	Cumple
Se cumplen todas las comprobaciones		

Información adicional:
- Zapata de tipo rígido
- Relación rotura pésima (En dirección X): 0.10
- Relación rotura pésima (En dirección Y): 0.10
- Cortante de agotamiento (En dirección X): 562.60 kN
- Cortante de agotamiento (En dirección Y): 562.60 kN

Referencia: N9
Dimensiones: 260 x 260 x 80
Armados: Xi:Ø16c/20 Yi:Ø16c/20 Xs:Ø16c/20 Ys:Ø16c/20

Comprobación	Valores	Estado
Tensiones sobre el terreno: *Criterio de CYPE*		
- Tensión media en situaciones persistentes:	Máximo: 0.1 MPa Calculado: 0.0371799 MPa	Cumple
- Tensión media en situaciones accidentales sísmicas:	Máximo: 0.125 MPa Calculado: 0.0240345 MPa	Cumple
- Tensión máxima en situaciones persistentes sin viento:	Máximo: 0.124979 MPa Calculado: 0.0250155 MPa	Cumple
- Tensión máxima en situaciones persistentes con viento:	Máximo: 0.124979 MPa Calculado: 0.0371799 MPa	Cumple
- Tensión máxima en situaciones accidentales sísmicas:	Máximo: 0.156175 MPa Calculado: 0.0240345 MPa	Cumple
Vuelco de la zapata:		
- En dirección X:		No procede(1)
- En dirección Y: *(1) Sin momento de vuelco*		No procede(1)
Flexión en la zapata:		
- En dirección X:	Momento: 42.09 kN·m	Cumple
- En dirección Y:	Momento: 60.18 kN·m	Cumple
Cortante en la zapata:		
- En dirección X:	Cortante: 23.94 kN	Cumple
- En dirección Y:	Cortante: 23.94 kN	Cumple
Compresión oblicua en la zapata: *Criterio de CYPE*	Máximo: 5000 kN/m²	
- Situaciones persistentes:	Calculado: 128.9 kN/m²	Cumple
- Situaciones accidentales sísmicas:	Calculado: 25.6 kN/m²	Cumple
Canto mínimo: *Criterio de CYPE*	Mínimo: 15 cm Calculado: 80 cm	Cumple
Espacio para anclar arranques en cimentación: - N9:	Mínimo: 60 cm Calculado: 73 cm	Cumple
Cuantía geométrica mínima: *Norma Código Estructural. Artículo A19.9.2.1.1*	Mínimo: 0.0012	
- Armado inferior dirección X:	Calculado: 0.0013	Cumple
- Armado superior dirección X:	Calculado: 0.0013	Cumple
- Armado inferior dirección Y:	Calculado: 0.0013	Cumple
- Armado superior dirección Y:	Calculado: 0.0013	Cumple
Diámetro mínimo de las barras: *Norma Código Estructural. Artículo A19.9.8.2.1*	Mínimo: 12 mm	
- Parrilla inferior:	Calculado: 16 mm	Cumple
- Parrilla superior:	Calculado: 16 mm	Cumple
Separación máxima entre barras: *Criterio de CYPE*	Máximo: 30 cm	
- Armado inferior dirección X:	Calculado: 20 cm	Cumple
- Armado inferior dirección Y:	Calculado: 20 cm	Cumple
- Armado superior dirección X:	Calculado: 20 cm	Cumple
- Armado superior dirección Y:	Calculado: 20 cm	Cumple
Separación mínima entre barras: *Criterio de CYPE*	Mínimo: 10 cm	
- Armado inferior dirección X:	Calculado: 20 cm	Cumple
- Armado inferior dirección Y:	Calculado: 20 cm	Cumple
- Armado superior dirección X:	Calculado: 20 cm	Cumple
- Armado superior dirección Y:	Calculado: 20 cm	Cumple
Longitud de anclaje: *49.5*	Calculado: 40 cm	
- Armado inf. dirección X hacia der:	Mínimo: 19 cm	Cumple
- Armado inf. dirección X hacia izq:	Mínimo: 19 cm	Cumple
- Armado inf. dirección Y hacia arriba:	Mínimo: 19 cm	Cumple
- Armado inf. dirección Y hacia abajo:	Mínimo: 19 cm	Cumple
- Armado sup. dirección X hacia der:	Mínimo: 24 cm	Cumple
- Armado sup. dirección X hacia izq:	Mínimo: 24 cm	Cumple

Referencia: N9
Dimensiones: 260 x 260 x 80
Armados: Xi:Ø16c/20 Yi:Ø16c/20 Xs:Ø16c/20 Ys:Ø16c/20

Comprobación	Valores	Estado
- Armado sup. dirección Y hacia arriba:	Mínimo: 24 cm	Cumple
- Armado sup. dirección Y hacia abajo:	Mínimo: 24 cm	Cumple
Se cumplen todas las comprobaciones		

Información adicional:
- Zapata de tipo rígido
- Relación rotura pésima (En dirección X): 0.06
- Relación rotura pésima (En dirección Y): 0.09
- Cortante de agotamiento (En dirección X): 633.43 kN
- Cortante de agotamiento (En dirección Y): 633.43 kN

Referencia: N21
Dimensiones: 260 x 260 x 80
Armados: Xi:Ø16c/20 Yi:Ø16c/20 Xs:Ø16c/20 Ys:Ø16c/20

Comprobación	Valores	Estado
Tensiones sobre el terreno: *Criterio de CYPE*		
- Tensión media en situaciones persistentes:	Máximo: 0.1 MPa Calculado: 0.0399267 MPa	Cumple
- Tensión media en situaciones accidentales sísmicas:	Máximo: 0.125 MPa Calculado: 0.0278604 MPa	Cumple
- Tensión máxima en situaciones persistentes sin viento:	Máximo: 0.124979 MPa Calculado: 0.0437526 MPa	Cumple
- Tensión máxima en situaciones persistentes con viento:	Máximo: 0.124979 MPa Calculado: 0.0680814 MPa	Cumple
- Tensión máxima en situaciones accidentales sísmicas:	Máximo: 0.156175 MPa Calculado: 0.0316863 MPa	Cumple
Vuelco de la zapata:		
- En dirección X:		No procede[1]
- En dirección Y: *Si el % de reserva de seguridad es mayor que cero, quiere decir que los coeficientes de seguridad al vuelco son mayores que los valores estrictos exigidos para todas las combinaciones de equilibrio.*	Reserva seguridad: 43.9 %	Cumple
[1] *Sin momento de vuelco*		
Flexión en la zapata:		
- En dirección X:	Momento: 56.94 kN·m	Cumple
- En dirección Y:	Momento: 72.08 kN·m	Cumple
Cortante en la zapata:		
- En dirección X:	Cortante: 19.82 kN	Cumple
- En dirección Y:	Cortante: 48.46 kN	Cumple
Compresión oblicua en la zapata: *Criterio de CYPE*	Máximo: 5000 kN/m²	
- Situaciones persistentes:	Calculado: 99.1 kN/m²	Cumple
- Situaciones accidentales sísmicas:	Calculado: 39 kN/m²	Cumple
Canto mínimo: *Criterio de CYPE*	Mínimo: 15 cm Calculado: 80 cm	Cumple
Espacio para anclar arranques en cimentación: - N21:	Mínimo: 65 cm Calculado: 73 cm	Cumple
Cuantía geométrica mínima: *Norma Código Estructural. Artículo A19.9.2.1.1*	Mínimo: 0.0012	
- Armado inferior dirección X:	Calculado: 0.0013	Cumple
- Armado superior dirección X:	Calculado: 0.0013	Cumple
- Armado inferior dirección Y:	Calculado: 0.0013	Cumple
- Armado superior dirección Y:	Calculado: 0.0013	Cumple
Diámetro mínimo de las barras: *Norma Código Estructural. Artículo A19.9.8.2.1*	Mínimo: 12 mm	
- Parrilla inferior:	Calculado: 16 mm	Cumple
- Parrilla superior:	Calculado: 16 mm	Cumple
Separación máxima entre barras: *Criterio de CYPE*	Máximo: 30 cm	
- Armado inferior dirección X:	Calculado: 20 cm	Cumple
- Armado inferior dirección Y:	Calculado: 20 cm	Cumple
- Armado superior dirección X:	Calculado: 20 cm	Cumple

Referencia: N21
Dimensiones: 260 x 260 x 80
Armados: Xi:Ø16c/20 Yi:Ø16c/20 Xs:Ø16c/20 Ys:Ø16c/20

Comprobación	Valores	Estado
- Armado superior dirección Y:	Calculado: 20 cm	Cumple
Separación mínima entre barras: *Criterio de CYPE*	Mínimo: 10 cm	
- Armado inferior dirección X:	Calculado: 20 cm	Cumple
- Armado inferior dirección Y:	Calculado: 20 cm	Cumple
- Armado superior dirección X:	Calculado: 20 cm	Cumple
- Armado superior dirección Y:	Calculado: 20 cm	Cumple
Longitud de anclaje: *49.5*	Calculado: 37 cm	
- Armado inf. dirección X hacia der:	Mínimo: 19 cm	Cumple
- Armado inf. dirección X hacia izq:	Mínimo: 19 cm	Cumple
- Armado inf. dirección Y hacia arriba:	Mínimo: 19 cm	Cumple
- Armado inf. dirección Y hacia abajo:	Mínimo: 19 cm	Cumple
- Armado sup. dirección X hacia der:	Mínimo: 24 cm	Cumple
- Armado sup. dirección X hacia izq:	Mínimo: 24 cm	Cumple
- Armado sup. dirección Y hacia arriba:	Mínimo: 24 cm	Cumple
- Armado sup. dirección Y hacia abajo:	Mínimo: 24 cm	Cumple
Se cumplen todas las comprobaciones		

Información adicional:
- Zapata de tipo rígido
- Relación rotura pésima (En dirección X): 0.09
- Relación rotura pésima (En dirección Y): 0.11
- Cortante de agotamiento (En dirección X): 633.43 kN
- Cortante de agotamiento (En dirección Y): 633.43 kN

Referencia: N23
Dimensiones: 260 x 260 x 80
Armados: Xi:Ø16c/20 Yi:Ø16c/20 Xs:Ø16c/20 Ys:Ø16c/20

Comprobación	Valores	Estado
Tensiones sobre el terreno: *Criterio de CYPE*		
- Tensión media en situaciones persistentes:	Máximo: 0.1 MPa Calculado: 0.0472842 MPa	Cumple
- Tensión media en situaciones accidentales sísmicas:	Máximo: 0.125 MPa Calculado: 0.0288414 MPa	Cumple
- Tensión máxima en situaciones persistentes sin viento:	Máximo: 0.124979 MPa Calculado: 0.0543474 MPa	Cumple
- Tensión máxima en situaciones persistentes con viento:	Máximo: 0.124979 MPa Calculado: 0.0854451 MPa	Cumple
- Tensión máxima en situaciones accidentales sísmicas:	Máximo: 0.156175 MPa Calculado: 0.0356103 MPa	Cumple
Vuelco de la zapata:		
- En dirección X:		No procede[1]
- En dirección Y: *Si el % de reserva de seguridad es mayor que cero, quiere decir que los coeficientes de seguridad al vuelco son mayores que los valores estrictos exigidos para todas las combinaciones de equilibrio.*	Reserva seguridad: 56.3 %	Cumple
[1] *Sin momento de vuelco*		
Flexión en la zapata:		
- En dirección X:	Momento: 51.78 kN·m	Cumple
- En dirección Y:	Momento: 98.23 kN·m	Cumple
Cortante en la zapata:		
- En dirección X:	Cortante: 26.98 kN	Cumple
- En dirección Y:	Cortante: 65.04 kN	Cumple
Compresión oblicua en la zapata: *Criterio de CYPE*	Máximo: 5000 kN/m²	
- Situaciones persistentes:	Calculado: 138 kN/m²	Cumple
- Situaciones accidentales sísmicas:	Calculado: 44.2 kN/m²	Cumple
Canto mínimo: *Criterio de CYPE*	Mínimo: 15 cm Calculado: 80 cm	Cumple

Referencia: N23
Dimensiones: 260 x 260 x 80
Armados: Xi:Ø16c/20 Yi:Ø16c/20 Xs:Ø16c/20 Ys:Ø16c/20

Comprobación	Valores	Estado
Espacio para anclar arranques en cimentación: - N23:	Mínimo: 65 cm Calculado: 73 cm	Cumple
Cuantía geométrica mínima: *Norma Código Estructural. Artículo A19.9.2.1.1*	Mínimo: 0.0012	
- Armado inferior dirección X:	Calculado: 0.0013	Cumple
- Armado superior dirección X:	Calculado: 0.0013	Cumple
- Armado inferior dirección Y:	Calculado: 0.0013	Cumple
- Armado superior dirección Y:	Calculado: 0.0013	Cumple
Diámetro mínimo de las barras: *Norma Código Estructural. Artículo A19.9.8.2.1*	Mínimo: 12 mm	
- Parrilla inferior:	Calculado: 16 mm	Cumple
- Parrilla superior:	Calculado: 16 mm	Cumple
Separación máxima entre barras: *Criterio de CYPE*	Máximo: 30 cm	
- Armado inferior dirección X:	Calculado: 20 cm	Cumple
- Armado inferior dirección Y:	Calculado: 20 cm	Cumple
- Armado superior dirección X:	Calculado: 20 cm	Cumple
- Armado superior dirección Y:	Calculado: 20 cm	Cumple
Separación mínima entre barras: *Criterio de CYPE*	Mínimo: 10 cm	
- Armado inferior dirección X:	Calculado: 20 cm	Cumple
- Armado inferior dirección Y:	Calculado: 20 cm	Cumple
- Armado superior dirección X:	Calculado: 20 cm	Cumple
- Armado superior dirección Y:	Calculado: 20 cm	Cumple
Longitud de anclaje: *49.5*	Calculado: 37 cm	
- Armado inf. dirección X hacia der:	Mínimo: 19 cm	Cumple
- Armado inf. dirección X hacia izq:	Mínimo: 19 cm	Cumple
- Armado inf. dirección Y hacia arriba:	Mínimo: 19 cm	Cumple
- Armado inf. dirección Y hacia abajo:	Mínimo: 19 cm	Cumple
- Armado sup. dirección X hacia der:	Mínimo: 24 cm	Cumple
- Armado sup. dirección X hacia izq:	Mínimo: 24 cm	Cumple
- Armado sup. dirección Y hacia arriba:	Mínimo: 24 cm	Cumple
- Armado sup. dirección Y hacia abajo:	Mínimo: 24 cm	Cumple
Se cumplen todas las comprobaciones		

Información adicional:
- Zapata de tipo rígido
- Relación rotura pésima (En dirección X): 0.08
- Relación rotura pésima (En dirección Y): 0.14
- Cortante de agotamiento (En dirección X): 633.43 kN
- Cortante de agotamiento (En dirección Y): 633.43 kN

Referencia: N25
Dimensiones: 260 x 260 x 80
Armados: Xi:Ø16c/20 Yi:Ø16c/20 Xs:Ø16c/20 Ys:Ø16c/20

Comprobación	Valores	Estado
Tensiones sobre el terreno: *Criterio de CYPE*		
- Tensión media en situaciones persistentes:	Máximo: 0.1 MPa Calculado: 0.0493443 MPa	Cumple
- Tensión media en situaciones accidentales sísmicas:	Máximo: 0.125 MPa Calculado: 0.02943 MPa	Cumple
- Tensión máxima en situaciones persistentes sin viento:	Máximo: 0.124979 MPa Calculado: 0.0565056 MPa	Cumple
- Tensión máxima en situaciones persistentes con viento:	Máximo: 0.124979 MPa Calculado: 0.0881919 MPa	Cumple
- Tensión máxima en situaciones accidentales sísmicas:	Máximo: 0.156175 MPa Calculado: 0.0361989 MPa	Cumple
Vuelco de la zapata:		
- En dirección X:		No procede[1]

Referencia: N25
Dimensiones: 260 x 260 x 80
Armados: Xi:Ø16c/20 Yi:Ø16c/20 Xs:Ø16c/20 Ys:Ø16c/20

Comprobación	Valores	Estado
- En dirección Y: *Si el % de reserva de seguridad es mayor que cero, quiere decir que los coeficientes de seguridad al vuelco son mayores que los valores estrictos exigidos para todas las combinaciones de equilibrio.* [1] *Sin momento de vuelco*	Reserva seguridad: 51.9 %	Cumple
Flexión en la zapata:		
- En dirección X:	Momento: 55.07 kN·m	Cumple
- En dirección Y:	Momento: 101.65 kN·m	Cumple
Cortante en la zapata:		
- En dirección X:	Cortante: 28.84 kN	Cumple
- En dirección Y:	Cortante: 67.20 kN	Cumple
Compresión oblicua en la zapata: *Criterio de CYPE*	Máximo: 5000 kN/m²	
- Situaciones persistentes:	Calculado: 147.6 kN/m²	Cumple
- Situaciones accidentales sísmicas:	Calculado: 46.9 kN/m²	Cumple
Canto mínimo: *Criterio de CYPE*	Mínimo: 15 cm Calculado: 80 cm	Cumple
Espacio para anclar arranques en cimentación: - N25:	Mínimo: 65 cm Calculado: 73 cm	Cumple
Cuantía geométrica mínima: *Norma Código Estructural. Artículo A19.9.2.1.1*	Mínimo: 0.0012	
- Armado inferior dirección X:	Calculado: 0.0013	Cumple
- Armado superior dirección X:	Calculado: 0.0013	Cumple
- Armado inferior dirección Y:	Calculado: 0.0013	Cumple
- Armado superior dirección Y:	Calculado: 0.0013	Cumple
Diámetro mínimo de las barras: *Norma Código Estructural. Artículo A19.9.8.2.1*	Mínimo: 12 mm	
- Parrilla inferior:	Calculado: 16 mm	Cumple
- Parrilla superior:	Calculado: 16 mm	Cumple
Separación máxima entre barras: *Criterio de CYPE*	Máximo: 30 cm	
- Armado inferior dirección X:	Calculado: 20 cm	Cumple
- Armado inferior dirección Y:	Calculado: 20 cm	Cumple
- Armado superior dirección X:	Calculado: 20 cm	Cumple
- Armado superior dirección Y:	Calculado: 20 cm	Cumple
Separación mínima entre barras: *Criterio de CYPE*	Mínimo: 10 cm	
- Armado inferior dirección X:	Calculado: 20 cm	Cumple
- Armado inferior dirección Y:	Calculado: 20 cm	Cumple
- Armado superior dirección X:	Calculado: 20 cm	Cumple
- Armado superior dirección Y:	Calculado: 20 cm	Cumple
Longitud de anclaje: *49.5*	Calculado: 37 cm	
- Armado inf. dirección X hacia der:	Mínimo: 19 cm	Cumple
- Armado inf. dirección X hacia izq:	Mínimo: 19 cm	Cumple
- Armado inf. dirección Y hacia arriba:	Mínimo: 19 cm	Cumple
- Armado inf. dirección Y hacia abajo:	Mínimo: 19 cm	Cumple
- Armado sup. dirección X hacia der:	Mínimo: 24 cm	Cumple
- Armado sup. dirección X hacia izq:	Mínimo: 24 cm	Cumple
- Armado sup. dirección Y hacia arriba:	Mínimo: 24 cm	Cumple
- Armado sup. dirección Y hacia abajo:	Mínimo: 24 cm	Cumple
Se cumplen todas las comprobaciones		

Información adicional:
- Zapata de tipo rígido
- Relación rotura pésima (En dirección X): 0.08
- Relación rotura pésima (En dirección Y): 0.15
- Cortante de agotamiento (En dirección X): 633.43 kN
- Cortante de agotamiento (En dirección Y): 633.43 kN

Referencia: N27 Dimensiones: 260 x 260 x 80 Armados: Xi:Ø16c/20 Yi:Ø16c/20 Xs:Ø16c/20 Ys:Ø16c/20		
Comprobación	Valores	Estado
Tensiones sobre el terreno: *Criterio de CYPE*		
- Tensión media en situaciones persistentes:	Máximo: 0.1 MPa Calculado: 0.0477747 MPa	Cumple
- Tensión media en situaciones accidentales sísmicas:	Máximo: 0.125 MPa Calculado: 0.0289395 MPa	Cumple
- Tensión máxima en situaciones persistentes sin viento:	Máximo: 0.124979 MPa Calculado: 0.0536607 MPa	Cumple
- Tensión máxima en situaciones persistentes con viento:	Máximo: 0.124979 MPa Calculado: 0.0839736 MPa	Cumple
- Tensión máxima en situaciones accidentales sísmicas:	Máximo: 0.156175 MPa Calculado: 0.0349236 MPa	Cumple
Vuelco de la zapata:		
- En dirección X:		No procede[1]
- En dirección Y: *Si el % de reserva de seguridad es mayor que cero, quiere decir que los coeficientes de seguridad al vuelco son mayores que los valores estrictos exigidos para todas las combinaciones de equilibrio.*	Reserva seguridad: 46.2 %	Cumple
[1] *Sin momento de vuelco*		
Flexión en la zapata:		
- En dirección X:	Momento: 51.38 kN·m	Cumple
- En dirección Y:	Momento: 95.59 kN·m	Cumple
Cortante en la zapata:		
- En dirección X:	Cortante: 27.27 kN	Cumple
- En dirección Y:	Cortante: 63.37 kN	Cumple
Compresión oblicua en la zapata: *Criterio de CYPE*	Máximo: 5000 kN/m²	
- Situaciones persistentes:	Calculado: 139.9 kN/m²	Cumple
- Situaciones accidentales sísmicas:	Calculado: 44.6 kN/m²	Cumple
Canto mínimo: *Criterio de CYPE*	Mínimo: 15 cm Calculado: 80 cm	Cumple
Espacio para anclar arranques en cimentación: - N27:	Mínimo: 65 cm Calculado: 73 cm	Cumple
Cuantía geométrica mínima: *Norma Código Estructural. Artículo A19.9.2.1.1*	Mínimo: 0.0012	
- Armado inferior dirección X:	Calculado: 0.0013	Cumple
- Armado superior dirección X:	Calculado: 0.0013	Cumple
- Armado inferior dirección Y:	Calculado: 0.0013	Cumple
- Armado superior dirección Y:	Calculado: 0.0013	Cumple
Diámetro mínimo de las barras: *Norma Código Estructural. Artículo A19.9.8.2.1*	Mínimo: 12 mm	
- Parrilla inferior:	Calculado: 16 mm	Cumple
- Parrilla superior:	Calculado: 16 mm	Cumple
Separación máxima entre barras: *Criterio de CYPE*	Máximo: 30 cm	
- Armado inferior dirección X:	Calculado: 20 cm	Cumple
- Armado inferior dirección Y:	Calculado: 20 cm	Cumple
- Armado superior dirección X:	Calculado: 20 cm	Cumple
- Armado superior dirección Y:	Calculado: 20 cm	Cumple
Separación mínima entre barras: *Criterio de CYPE*	Mínimo: 10 cm	
- Armado inferior dirección X:	Calculado: 20 cm	Cumple
- Armado inferior dirección Y:	Calculado: 20 cm	Cumple
- Armado superior dirección X:	Calculado: 20 cm	Cumple
- Armado superior dirección Y:	Calculado: 20 cm	Cumple
Longitud de anclaje: *49.5*	Calculado: 37 cm	
- Armado inf. dirección X hacia der:	Mínimo: 19 cm	Cumple
- Armado inf. dirección X hacia izq:	Mínimo: 19 cm	Cumple
- Armado inf. dirección Y hacia arriba:	Mínimo: 19 cm	Cumple
- Armado inf. dirección Y hacia abajo:	Mínimo: 19 cm	Cumple
- Armado sup. dirección X hacia der:	Mínimo: 24 cm	Cumple

Referencia: N27 Dimensiones: 260 x 260 x 80 Armados: Xi:Ø16c/20 Yi:Ø16c/20 Xs:Ø16c/20 Ys:Ø16c/20		
Comprobación	Valores	Estado
- Armado sup. dirección X hacia izq:	Mínimo: 24 cm	Cumple
- Armado sup. dirección Y hacia arriba:	Mínimo: 24 cm	Cumple
- Armado sup. dirección Y hacia abajo:	Mínimo: 24 cm	Cumple
Se cumplen todas las comprobaciones		
Información adicional:		
- Zapata de tipo rígido		
- Relación rotura pésima (En dirección X): 0.08		
- Relación rotura pésima (En dirección Y): 0.14		
- Cortante de agotamiento (En dirección X): 633.43 kN		
- Cortante de agotamiento (En dirección Y): 633.43 kN		

Referencia: N1695 Dimensiones: 270 x 270 x 90 Armados: Xi:Ø20c/27 Yi:Ø20c/27 Xs:Ø20c/27 Ys:Ø20c/27		
Comprobación	Valores	Estado
Tensiones sobre el terreno: *Criterio de CYPE*		
- Tensión media en situaciones persistentes:	Máximo: 0.1 MPa Calculado: 0.0324711 MPa	Cumple
- Tensión media en situaciones accidentales sísmicas:	Máximo: 0.125 MPa Calculado: 0.0263889 MPa	Cumple
- Tensión máxima en situaciones persistentes sin viento:	Máximo: 0.124979 MPa Calculado: 0.0260946 MPa	Cumple
- Tensión máxima en situaciones persistentes con viento:	Máximo: 0.124979 MPa Calculado: 0.0324711 MPa	Cumple
- Tensión máxima en situaciones accidentales sísmicas:	Máximo: 0.156175 MPa Calculado: 0.0263889 MPa	Cumple
Vuelco de la zapata:		
- En dirección X:		No procede[1]
- En dirección Y:		No procede[1]
[1] *Sin momento de vuelco*		
Flexión en la zapata:		
- En dirección X:	Momento: 94.64 kN·m	Cumple
- En dirección Y:	Momento: 80.02 kN·m	Cumple
Cortante en la zapata:		
- En dirección X:	Cortante: 20.21 kN	Cumple
- En dirección Y:	Cortante: 11.97 kN	Cumple
Compresión oblicua en la zapata: *Criterio de CYPE*	Máximo: 5000 kN/m²	
- Situaciones persistentes:	Calculado: 59.2 kN/m²	Cumple
- Situaciones accidentales sísmicas:	Calculado: 19.3 kN/m²	Cumple
Canto mínimo: *Criterio de CYPE*	Mínimo: 15 cm Calculado: 90 cm	Cumple
Espacio para anclar arranques en cimentación: - N1695:	Mínimo: 65 cm Calculado: 82 cm	Cumple
Cuantía geométrica mínima: *Norma Código Estructural. Artículo A19.9.2.1.1*	Mínimo: 0.0012	
- Armado inferior dirección X:	Calculado: 0.0013	Cumple
- Armado superior dirección X:	Calculado: 0.0013	Cumple
- Armado inferior dirección Y:	Calculado: 0.0013	Cumple
- Armado superior dirección Y:	Calculado: 0.0013	Cumple
Diámetro mínimo de las barras: *Norma Código Estructural. Artículo A19.9.8.2.1*	Mínimo: 12 mm	
- Parrilla inferior:	Calculado: 20 mm	Cumple
- Parrilla superior:	Calculado: 20 mm	Cumple
Separación máxima entre barras: *Criterio de CYPE*	Máximo: 30 cm	
- Armado inferior dirección X:	Calculado: 27 cm	Cumple
- Armado inferior dirección Y:	Calculado: 27 cm	Cumple
- Armado superior dirección X:	Calculado: 27 cm	Cumple

Referencia: N1695
Dimensiones: 270 x 270 x 90
Armados: Xi:Ø20c/27 Yi:Ø20c/27 Xs:Ø20c/27 Ys:Ø20c/27

Comprobación	Valores	Estado
- Armado superior dirección Y:	Calculado: 27 cm	Cumple
Separación mínima entre barras: *Criterio de CYPE*	Mínimo: 10 cm	
- Armado inferior dirección X:	Calculado: 27 cm	Cumple
- Armado inferior dirección Y:	Calculado: 27 cm	Cumple
- Armado superior dirección X:	Calculado: 27 cm	Cumple
- Armado superior dirección Y:	Calculado: 27 cm	Cumple
Longitud de anclaje: *49.5*		
- Armado inf. dirección X hacia der:	Mínimo: 27 cm Calculado: 34 cm	Cumple
- Armado inf. dirección X hacia izq:	Mínimo: 27 cm Calculado: 34 cm	Cumple
- Armado inf. dirección Y hacia arriba:	Mínimo: 27 cm Calculado: 34 cm	Cumple
- Armado inf. dirección Y hacia abajo:	Mínimo: 27 cm Calculado: 34 cm	Cumple
- Armado sup. dirección X hacia der:	Mínimo: 54 cm Calculado: 54 cm	Cumple
- Armado sup. dirección X hacia izq:	Mínimo: 54 cm Calculado: 54 cm	Cumple
- Armado sup. dirección Y hacia arriba:	Mínimo: 54 cm Calculado: 54 cm	Cumple
- Armado sup. dirección Y hacia abajo:	Mínimo: 54 cm Calculado: 54 cm	Cumple
Longitud mínima de las patillas:	Mínimo: 20 cm	
- Armado sup. dirección X hacia der:	Calculado: 20 cm	Cumple
- Armado sup. dirección X hacia izq:	Calculado: 20 cm	Cumple
- Armado sup. dirección Y hacia arriba:	Calculado: 20 cm	Cumple
- Armado sup. dirección Y hacia abajo:	Calculado: 20 cm	Cumple
Se cumplen todas las comprobaciones		

Información adicional:
- Zapata de tipo rígido
- Relación rotura pésima (En dirección X): 0.10
- Relación rotura pésima (En dirección Y): 0.09
- Cortante de agotamiento (En dirección X): 720.45 kN
- Cortante de agotamiento (En dirección Y): 720.45 kN

Referencia: N1704
Dimensiones: 280 x 280 x 110
Armados: Xi:Ø16c/14 Yi:Ø16c/14 Xs:Ø16c/14 Ys:Ø16c/14

Comprobación	Valores	Estado
Tensiones sobre el terreno: *Criterio de CYPE*		
- Tensión media en situaciones persistentes:	Máximo: 0.1 MPa Calculado: 0.0380628 MPa	Cumple
- Tensión media en situaciones accidentales sísmicas:	Máximo: 0.125 MPa Calculado: 0.0305091 MPa	Cumple
- Tensión máxima en situaciones persistentes sin viento:	Máximo: 0.124979 MPa Calculado: 0.0360027 MPa	Cumple
- Tensión máxima en situaciones persistentes con viento:	Máximo: 0.124979 MPa Calculado: 0.0762237 MPa	Cumple
- Tensión máxima en situaciones accidentales sísmicas:	Máximo: 0.156175 MPa Calculado: 0.0331578 MPa	Cumple
Vuelco de la zapata:		
- En dirección X: *Si el % de reserva de seguridad es mayor que cero, quiere decir que los coeficientes de seguridad al vuelco son mayores que los valores estrictos exigidos para todas las combinaciones de equilibrio.*	Reserva seguridad: 35.9 %	Cumple
- En dirección Y: (1) *Sin momento de vuelco*		No procede(1)
Flexión en la zapata:		

Referencia: N1704
Dimensiones: 280 x 280 x 110
Armados: Xi:Ø16c/14 Yi:Ø16c/14 Xs:Ø16c/14 Ys:Ø16c/14

Comprobación	Valores	Estado
- En dirección X:	Momento: 133.99 kN·m	Cumple
- En dirección Y:	Momento: 65.09 kN·m	Cumple
Cortante en la zapata:		
- En dirección X:	Cortante: 47.28 kN	Cumple
- En dirección Y:	Cortante: 13.05 kN	Cumple
Compresión oblicua en la zapata: *Criterio de CYPE*	Máximo: 5000 kN/m²	
- Situaciones persistentes:	Calculado: 30.2 kN/m²	Cumple
- Situaciones accidentales sísmicas:	Calculado: 14 kN/m²	Cumple
Canto mínimo: *Criterio de CYPE*	Mínimo: 15 cm Calculado: 110 cm	Cumple
Espacio para anclar arranques en cimentación: - N1704:	Mínimo: 65 cm Calculado: 103 cm	Cumple
Cuantía geométrica mínima: *Norma Código Estructural. Artículo A19.9.2.1.1*	Mínimo: 0.00123	
- Armado inferior dirección X:	Calculado: 0.00124	Cumple
- Armado superior dirección X:	Calculado: 0.00124	Cumple
- Armado inferior dirección Y:	Calculado: 0.00124	Cumple
- Armado superior dirección Y:	Calculado: 0.00124	Cumple
Diámetro mínimo de las barras: *Norma Código Estructural. Artículo A19.9.8.2.1*	Mínimo: 12 mm	
- Parrilla inferior:	Calculado: 16 mm	Cumple
- Parrilla superior:	Calculado: 16 mm	Cumple
Separación máxima entre barras: *Criterio de CYPE*	Máximo: 30 cm	
- Armado inferior dirección X:	Calculado: 14 cm	Cumple
- Armado inferior dirección Y:	Calculado: 14 cm	Cumple
- Armado superior dirección X:	Calculado: 14 cm	Cumple
- Armado superior dirección Y:	Calculado: 14 cm	Cumple
Separación mínima entre barras: *Criterio de CYPE*	Mínimo: 10 cm	
- Armado inferior dirección X:	Calculado: 14 cm	Cumple
- Armado inferior dirección Y:	Calculado: 14 cm	Cumple
- Armado superior dirección X:	Calculado: 14 cm	Cumple
- Armado superior dirección Y:	Calculado: 14 cm	Cumple
Longitud de anclaje: *49.5*		
- Armado inf. dirección X hacia der:	Mínimo: 19 cm Calculado: 23 cm	Cumple
- Armado inf. dirección X hacia izq:	Mínimo: 19 cm Calculado: 23 cm	Cumple
- Armado inf. dirección Y hacia arriba:	Mínimo: 19 cm Calculado: 23 cm	Cumple
- Armado inf. dirección Y hacia abajo:	Mínimo: 19 cm Calculado: 23 cm	Cumple
- Armado sup. dirección X hacia der:	Mínimo: 39 cm Calculado: 39 cm	Cumple
- Armado sup. dirección X hacia izq:	Mínimo: 39 cm Calculado: 39 cm	Cumple
- Armado sup. dirección Y hacia arriba:	Mínimo: 39 cm Calculado: 39 cm	Cumple
- Armado sup. dirección Y hacia abajo:	Mínimo: 39 cm Calculado: 39 cm	Cumple
Longitud mínima de las patillas:	Mínimo: 16 cm	
- Armado sup. dirección X hacia der:	Calculado: 16 cm	Cumple
- Armado sup. dirección X hacia izq:	Calculado: 16 cm	Cumple
- Armado sup. dirección Y hacia arriba:	Calculado: 16 cm	Cumple
- Armado sup. dirección Y hacia abajo:	Calculado: 16 cm	Cumple
Se cumplen todas las comprobaciones		

Información adicional:

Referencia: N1704 Dimensiones: 280 x 280 x 110 Armados: Xi:Ø16c/14 Yi:Ø16c/14 Xs:Ø16c/14 Ys:Ø16c/14		
Comprobación	Valores	Estado
- Zapata de tipo rígido - Relación rotura pésima (En dirección X): 0.10 - Relación rotura pésima (En dirección Y): 0.05 - Cortante de agotamiento (En dirección X): 881.92 kN - Cortante de agotamiento (En dirección Y): 881.92 kN		

Referencia: N1701 Dimensiones: 280 x 280 x 110 Armados: Xi:Ø16c/14 Yi:Ø16c/14 Xs:Ø16c/14 Ys:Ø16c/14		
Comprobación	Valores	Estado
Tensiones sobre el terreno: *Criterio de CYPE*		
- Tensión media en situaciones persistentes:	Máximo: 0.1 MPa Calculado: 0.0393381 MPa	Cumple
- Tensión media en situaciones accidentales sísmicas:	Máximo: 0.125 MPa Calculado: 0.0300186 MPa	Cumple
- Tensión máxima en situaciones persistentes sin viento:	Máximo: 0.124979 MPa Calculado: 0.0380628 MPa	Cumple
- Tensión máxima en situaciones persistentes con viento:	Máximo: 0.124979 MPa Calculado: 0.0786762 MPa	Cumple
- Tensión máxima en situaciones accidentales sísmicas:	Máximo: 0.156175 MPa Calculado: 0.0338445 MPa	Cumple
Vuelco de la zapata:		
- En dirección X: *Si el % de reserva de seguridad es mayor que cero, quiere decir que los coeficientes de seguridad al vuelco son mayores que los valores estrictos exigidos para todas las combinaciones de equilibrio.*	Reserva seguridad: 25.7 %	Cumple
- En dirección Y: *(1) Sin momento de vuelco*		No procede(1)
Flexión en la zapata:		
- En dirección X:	Momento: 142.29 kN·m	Cumple
- En dirección Y:	Momento: 39.69 kN·m	Cumple
Cortante en la zapata:		
- En dirección X:	Cortante: 58.76 kN	Cumple
- En dirección Y:	Cortante: 6.67 kN	Cumple
Compresión oblicua en la zapata: *Criterio de CYPE*	Máximo: 5000 kN/m²	
- Situaciones persistentes:	Calculado: 32.9 kN/m²	Cumple
- Situaciones accidentales sísmicas:	Calculado: 12.2 kN/m²	Cumple
Canto mínimo: *Criterio de CYPE*	Mínimo: 15 cm Calculado: 110 cm	Cumple
Espacio para anclar arranques en cimentación: - N1701:	Mínimo: 65 cm Calculado: 103 cm	Cumple
Cuantía geométrica mínima: *Norma Código Estructural. Artículo A19.9.2.1.1*	Mínimo: 0.00123	
- Armado inferior dirección X:	Calculado: 0.00124	Cumple
- Armado superior dirección X:	Calculado: 0.00124	Cumple
- Armado inferior dirección Y:	Calculado: 0.00124	Cumple
- Armado superior dirección Y:	Calculado: 0.00124	Cumple
Diámetro mínimo de las barras: *Norma Código Estructural. Artículo A19.9.8.2.1*	Mínimo: 12 mm	
- Parrilla inferior:	Calculado: 16 mm	Cumple
- Parrilla superior:	Calculado: 16 mm	Cumple
Separación máxima entre barras: *Criterio de CYPE*	Máximo: 30 cm	
- Armado inferior dirección X:	Calculado: 14 cm	Cumple
- Armado inferior dirección Y:	Calculado: 14 cm	Cumple
- Armado superior dirección X:	Calculado: 14 cm	Cumple
- Armado superior dirección Y:	Calculado: 14 cm	Cumple
Separación mínima entre barras: *Criterio de CYPE*	Mínimo: 10 cm	
- Armado inferior dirección X:	Calculado: 14 cm	Cumple

Referencia: N1701 Dimensiones: 280 x 280 x 110 Armados: Xi:Ø16c/14 Yi:Ø16c/14 Xs:Ø16c/14 Ys:Ø16c/14		
Comprobación	Valores	Estado
- Armado inferior dirección Y:	Calculado: 14 cm	Cumple
- Armado superior dirección X:	Calculado: 14 cm	Cumple
- Armado superior dirección Y:	Calculado: 14 cm	Cumple
Longitud de anclaje: *49.5*		
- Armado inf. dirección X hacia der:	Mínimo: 19 cm Calculado: 23 cm	Cumple
- Armado inf. dirección X hacia izq:	Mínimo: 19 cm Calculado: 23 cm	Cumple
- Armado inf. dirección Y hacia arriba:	Mínimo: 19 cm Calculado: 23 cm	Cumple
- Armado inf. dirección Y hacia abajo:	Mínimo: 19 cm Calculado: 23 cm	Cumple
- Armado sup. dirección X hacia der:	Mínimo: 39 cm Calculado: 39 cm	Cumple
- Armado sup. dirección X hacia izq:	Mínimo: 39 cm Calculado: 39 cm	Cumple
- Armado sup. dirección Y hacia arriba:	Mínimo: 39 cm Calculado: 39 cm	Cumple
- Armado sup. dirección Y hacia abajo:	Mínimo: 39 cm Calculado: 39 cm	Cumple
Longitud mínima de las patillas:	Mínimo: 16 cm	
- Armado sup. dirección X hacia der:	Calculado: 16 cm	Cumple
- Armado sup. dirección X hacia izq:	Calculado: 16 cm	Cumple
- Armado sup. dirección Y hacia arriba:	Calculado: 16 cm	Cumple
- Armado sup. dirección Y hacia abajo:	Calculado: 16 cm	Cumple
Se cumplen todas las comprobaciones		
Información adicional:		
- Zapata de tipo rígido - Relación rotura pésima (En dirección X): 0.10 - Relación rotura pésima (En dirección Y): 0.03 - Cortante de agotamiento (En dirección X): 881.92 kN - Cortante de agotamiento (En dirección Y): 881.92 kN		

Referencia: N1698 Dimensiones: 280 x 280 x 110 Armados: Xi:Ø16c/14 Yi:Ø16c/14 Xs:Ø16c/14 Ys:Ø16c/14		
Comprobación	Valores	Estado
Tensiones sobre el terreno: *Criterio de CYPE*		
- Tensión media en situaciones persistentes:	Máximo: 0.1 MPa Calculado: 0.0374742 MPa	Cumple
- Tensión media en situaciones accidentales sísmicas:	Máximo: 0.125 MPa Calculado: 0.0305091 MPa	Cumple
- Tensión máxima en situaciones persistentes sin viento:	Máximo: 0.124979 MPa Calculado: 0.0360027 MPa	Cumple
- Tensión máxima en situaciones persistentes con viento:	Máximo: 0.124979 MPa Calculado: 0.0750465 MPa	Cumple
- Tensión máxima en situaciones accidentales sísmicas:	Máximo: 0.156175 MPa Calculado: 0.0332559 MPa	Cumple
Vuelco de la zapata:		
- En dirección X: *Si el % de reserva de seguridad es mayor que cero, quiere decir que los coeficientes de seguridad al vuelco son mayores que los valores estrictos exigidos para todas las combinaciones de equilibrio.*	Reserva seguridad: 8.0 %	Cumple
- En dirección Y: *(1) Sin momento de vuelco*		No procede(1)
Flexión en la zapata:		
- En dirección X:	Momento: 143.56 kN·m	Cumple
- En dirección Y:	Momento: 48.82 kN·m	Cumple
Cortante en la zapata:		
- En dirección X:	Cortante: 123.70 kN	Cumple

Referencia: N1698 Dimensiones: 280 x 280 x 110 Armados: Xi:Ø16c/14 Yi:Ø16c/14 Xs:Ø16c/14 Ys:Ø16c/14		
Comprobación	Valores	Estado
- En dirección Y:	Cortante: 8.93 kN	Cumple
Compresión oblicua en la zapata: *Criterio de CYPE*	Máximo: 5000 kN/m²	
- Situaciones persistentes:	Calculado: 31.8 kN/m²	Cumple
- Situaciones accidentales sísmicas:	Calculado: 14 kN/m²	Cumple
Canto mínimo: *Criterio de CYPE*	Mínimo: 15 cm Calculado: 110 cm	Cumple
Espacio para anclar arranques en cimentación: - N1698:	Mínimo: 65 cm Calculado: 103 cm	Cumple
Cuantía geométrica mínima: *Norma Código Estructural. Artículo A19.9.2.1.1*	Mínimo: 0.00123	
- Armado inferior dirección X:	Calculado: 0.00124	Cumple
- Armado superior dirección X:	Calculado: 0.00124	Cumple
- Armado inferior dirección Y:	Calculado: 0.00124	Cumple
- Armado superior dirección Y:	Calculado: 0.00124	Cumple
Diámetro mínimo de las barras: *Norma Código Estructural. Artículo A19.9.8.2.1*	Mínimo: 12 mm	
- Parrilla inferior:	Calculado: 16 mm	Cumple
- Parrilla superior:	Calculado: 16 mm	Cumple
Separación máxima entre barras: *Criterio de CYPE*	Máximo: 30 cm	
- Armado inferior dirección X:	Calculado: 14 cm	Cumple
- Armado inferior dirección Y:	Calculado: 14 cm	Cumple
- Armado superior dirección X:	Calculado: 14 cm	Cumple
- Armado superior dirección Y:	Calculado: 14 cm	Cumple
Separación mínima entre barras: *Criterio de CYPE*	Mínimo: 10 cm	
- Armado inferior dirección X:	Calculado: 14 cm	Cumple
- Armado inferior dirección Y:	Calculado: 14 cm	Cumple
- Armado superior dirección X:	Calculado: 14 cm	Cumple
- Armado superior dirección Y:	Calculado: 14 cm	Cumple
Longitud de anclaje: *49.5*		
- Armado inf. dirección X hacia der:	Mínimo: 19 cm Calculado: 23 cm	Cumple
- Armado inf. dirección X hacia izq:	Mínimo: 19 cm Calculado: 23 cm	Cumple
- Armado inf. dirección Y hacia arriba:	Mínimo: 19 cm Calculado: 23 cm	Cumple
- Armado inf. dirección Y hacia abajo:	Mínimo: 19 cm Calculado: 23 cm	Cumple
- Armado sup. dirección X hacia der:	Mínimo: 39 cm Calculado: 39 cm	Cumple
- Armado sup. dirección X hacia izq:	Mínimo: 39 cm Calculado: 39 cm	Cumple
- Armado sup. dirección Y hacia arriba:	Mínimo: 39 cm Calculado: 39 cm	Cumple
- Armado sup. dirección Y hacia abajo:	Mínimo: 39 cm Calculado: 39 cm	Cumple
Longitud mínima de las patillas:	Mínimo: 16 cm	
- Armado sup. dirección X hacia der:	Calculado: 16 cm	Cumple
- Armado sup. dirección X hacia izq:	Calculado: 16 cm	Cumple
- Armado sup. dirección Y hacia arriba:	Calculado: 16 cm	Cumple
- Armado sup. dirección Y hacia abajo:	Calculado: 16 cm	Cumple
Se cumplen todas las comprobaciones		
Información adicional:		
- Zapata de tipo rígido		
- Relación rotura pésima (En dirección X): 0.10		
- Relación rotura pésima (En dirección Y): 0.04		
- Cortante de agotamiento (En dirección X): 881.92 kN		

Referencia: N1698 Dimensiones: 280 x 280 x 110 Armados: Xi:Ø16c/14 Yi:Ø16c/14 Xs:Ø16c/14 Ys:Ø16c/14		
Comprobación	Valores	Estado
- Cortante de agotamiento (En dirección Y): 881.92 kN		

Referencia: N1692 Dimensiones: 270 x 270 x 90 Armados: Xi:Ø20c/27 Yi:Ø20c/27 Xs:Ø20c/27 Ys:Ø20c/27		
Comprobación	Valores	Estado
Tensiones sobre el terreno: *Criterio de CYPE*		
- Tensión media en situaciones persistentes:	Máximo: 0.1 MPa Calculado: 0.0335502 MPa	Cumple
- Tensión media en situaciones accidentales sísmicas:	Máximo: 0.125 MPa Calculado: 0.0263889 MPa	Cumple
- Tensión máxima en situaciones persistentes sin viento:	Máximo: 0.124979 MPa Calculado: 0.0260946 MPa	Cumple
- Tensión máxima en situaciones persistentes con viento:	Máximo: 0.124979 MPa Calculado: 0.0335502 MPa	Cumple
- Tensión máxima en situaciones accidentales sísmicas:	Máximo: 0.156175 MPa Calculado: 0.0263889 MPa	Cumple
Vuelco de la zapata:		
- En dirección X:		No procede(1)
- En dirección Y:		No procede(1)
(1) *Sin momento de vuelco*		
Flexión en la zapata:		
- En dirección X:	Momento: 36.54 kN·m	Cumple
- En dirección Y:	Momento: 93.87 kN·m	Cumple
Cortante en la zapata:		
- En dirección X:	Cortante: 17.07 kN	Cumple
- En dirección Y:	Cortante: 17.07 kN	Cumple
Compresión oblicua en la zapata: *Criterio de CYPE*	Máximo: 5000 kN/m²	
- Situaciones persistentes:	Calculado: 72.9 kN/m²	Cumple
- Situaciones accidentales sísmicas:	Calculado: 19.1 kN/m²	Cumple
Canto mínimo: *Criterio de CYPE*	Mínimo: 15 cm Calculado: 90 cm	Cumple
Espacio para anclar arranques en cimentación: - N1692:	Mínimo: 65 cm Calculado: 82 cm	Cumple
Cuantía geométrica mínima: *Norma Código Estructural. Artículo A19.9.2.1.1*	Mínimo: 0.0012	
- Armado inferior dirección X:	Calculado: 0.0013	Cumple
- Armado superior dirección X:	Calculado: 0.0013	Cumple
- Armado inferior dirección Y:	Calculado: 0.0013	Cumple
- Armado superior dirección Y:	Calculado: 0.0013	Cumple
Diámetro mínimo de las barras: *Norma Código Estructural. Artículo A19.9.8.2.1*	Mínimo: 12 mm	
- Parrilla inferior:	Calculado: 20 mm	Cumple
- Parrilla superior:	Calculado: 20 mm	Cumple
Separación máxima entre barras: *Criterio de CYPE*	Máximo: 30 cm	
- Armado inferior dirección X:	Calculado: 27 cm	Cumple
- Armado inferior dirección Y:	Calculado: 27 cm	Cumple
- Armado superior dirección X:	Calculado: 27 cm	Cumple
- Armado superior dirección Y:	Calculado: 27 cm	Cumple
Separación mínima entre barras: *Criterio de CYPE*	Mínimo: 10 cm	
- Armado inferior dirección X:	Calculado: 27 cm	Cumple
- Armado inferior dirección Y:	Calculado: 27 cm	Cumple
- Armado superior dirección X:	Calculado: 27 cm	Cumple
- Armado superior dirección Y:	Calculado: 27 cm	Cumple
Longitud de anclaje: *49.5*		

Referencia: N1692 Dimensiones: 270 x 270 x 90 Armados: Xi:Ø20c/27 Yi:Ø20c/27 Xs:Ø20c/27 Ys:Ø20c/27		
Comprobación	Valores	Estado
- Armado inf. dirección X hacia der:	Mínimo: 27 cm Calculado: 34 cm	Cumple
- Armado inf. dirección X hacia izq:	Mínimo: 27 cm Calculado: 34 cm	Cumple
- Armado inf. dirección Y hacia arriba:	Mínimo: 27 cm Calculado: 34 cm	Cumple
- Armado inf. dirección Y hacia abajo:	Mínimo: 27 cm Calculado: 34 cm	Cumple
- Armado sup. dirección X hacia der:	Mínimo: 54 cm Calculado: 54 cm	Cumple
- Armado sup. dirección X hacia izq:	Mínimo: 54 cm Calculado: 54 cm	Cumple
- Armado sup. dirección Y hacia arriba:	Mínimo: 54 cm Calculado: 54 cm	Cumple
- Armado sup. dirección Y hacia abajo:	Mínimo: 54 cm Calculado: 54 cm	Cumple
Longitud mínima de las patillas:	Mínimo: 20 cm	
- Armado sup. dirección X hacia der:	Calculado: 20 cm	Cumple
- Armado sup. dirección X hacia izq:	Calculado: 20 cm	Cumple
- Armado sup. dirección Y hacia arriba:	Calculado: 20 cm	Cumple
- Armado sup. dirección Y hacia abajo:	Calculado: 20 cm	Cumple
Se cumplen todas las comprobaciones		
Información adicional:		
- Zapata de tipo rígido		
- Relación rotura pésima (En dirección X): 0.04		
- Relación rotura pésima (En dirección Y): 0.10		
- Cortante de agotamiento (En dirección X): 720.45 kN		
- Cortante de agotamiento (En dirección Y): 720.45 kN		

2.2. Vigas

2.2.1. Comprobación

Referencia: VC.S-1 [N11-N13] (Viga centradora) -Dimensiones: 40.0 cm x 50.0 cm -Armadura superior: 4Ø16 -Armadura de piel: 1x2Ø12 -Armadura inferior: 4Ø16 -Estribos: 1xØ8c/30		
Comprobación	Valores	Estado
Diámetro mínimo estribos:	Mínimo: 6 mm Calculado: 8 mm	Cumple
Separación mínima entre estribos: *Norma Código Estructural. Artículo A19.8.2 (2)*	Mínimo: 3.5 cm Calculado: 29.2 cm	Cumple
Separación mínima armadura longitudinal: *Norma Código Estructural. Artículo A19.8.2 (2)*	Mínimo: 3.5 cm	
- Armadura superior:	Calculado: 7.3 cm	Cumple
- Armadura inferior:	Calculado: 7.3 cm	Cumple
- Armadura de piel:	Calculado: 17 cm	Cumple
Separación máxima estribos: *Norma Código Estructural. Artículo A19.9.2.2 (6)*	Máximo: 32.5 cm	
- Situaciones persistentes:	Calculado: 30 cm	Cumple
- Situaciones accidentales sísmicas:	Calculado: 30 cm	Cumple
Recomendación para la separación máxima de estribos en vigas comprimidas por axiles en combinaciones sísmicas: *(1) Al no ser necesaria la armadura longitudinal en compresión, no se aplica el requisito de separación de estribos en barras comprimidas.*		No procede(1)
Separación máxima armadura longitudinal: *Criterio de CYPE*	Máximo: 30 cm	
- Armadura superior:	Calculado: 7.3 cm	Cumple
- Armadura inferior:	Calculado: 7.3 cm	Cumple
- Armadura de piel:	Calculado: 17 cm	Cumple

Referencia: VC.S-1 [N11-N13] (Viga centradora) -Dimensiones: 40.0 cm x 50.0 cm -Armadura superior: 4Ø16 -Armadura de piel: 1x2Ø12 -Armadura inferior: 4Ø16 -Estribos: 1xØ8c/30		
Comprobación	Valores	Estado
Cuantía mínima para los estribos: *Norma Código Estructural. Artículo A19.9.2.2 (5)*	Mínimo: 3.2 cm²/m	
- Situaciones persistentes:	Calculado: 3.35 cm²/m	Cumple
- Situaciones accidentales sísmicas:	Calculado: 3.35 cm²/m	Cumple
Cuantía geométrica mínima armadura traccionada: *Norma Código Estructural. Artículo A19.9.2.1.1*	Calculado: 0.004	
- Armadura inferior (Situaciones persistentes):	Mínimo: 0.0012	Cumple
- Armadura superior (Situaciones persistentes):	Mínimo: 0.0012	Cumple
- Armadura inferior (Situaciones accidentales sísmicas):	Mínimo: 0.001	Cumple
- Armadura superior (Situaciones accidentales sísmicas):	Mínimo: 0.001	Cumple
Armadura mínima por cuantía mecánica de flexión compuesta: *Norma Código Estructural. Artículo A19.9.2.1.1*	Calculado: 8.04 cm²	
- Armadura inferior (Situaciones persistentes):	Mínimo: 2.45 cm²	Cumple
- Armadura superior (Situaciones persistentes):	Mínimo: 2.45 cm²	Cumple
- Armadura inferior (Situaciones accidentales sísmicas):	Mínimo: 2.13 cm²	Cumple
- Armadura superior (Situaciones accidentales sísmicas):	Mínimo: 2.13 cm²	Cumple
Armadura mínima por cuantía mecánica de esfuerzos axiles: - Armadura total (Situaciones accidentales sísmicas): *Criterio de CYPE basado en el Artículo 38.4 de la EH-91*	Mínimo: 5.33 cm² Calculado: 18.34 cm²	Cumple
Armadura necesaria por cálculo para el axil de compresión: - Situaciones accidentales sísmicas: *Criterio de CYPE, basado en: J. Calavera. "Cálculo de Estructuras de Cimentación". Capítulo 3.15*	Mínimo: 0 cm² Calculado: 18.34 cm²	Cumple
Armadura necesaria por cálculo para el axil de tracción: - Situaciones accidentales sísmicas: *Criterio de CYPE, basado en: J. Calavera. "Cálculo de Estructuras de Cimentación". Capítulo 3.15*	Mínimo: 0.06 cm² Calculado: 18.34 cm²	Cumple
Comprobación de armadura necesaria por cálculo a flexión compuesta:		
- Situaciones persistentes:	Momento flector: 9.86 kN·m Axil: ± 0.00 kN Momento flector: -20.52 kN·m Axil: ± 0.00 kN	Cumple Cumple
- Situaciones accidentales sísmicas: *Ver listado de esfuerzos pésimos en 'Información adicional'.*		Cumple
Longitud de anclaje barras superiores origen: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 24 cm	
- Situaciones persistentes:	Mínimo: 19 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 24 cm	Cumple
Longitud de anclaje barras inferiores origen: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 19 cm	
- Situaciones persistentes:	Mínimo: 16 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 19 cm	Cumple
Longitud de anclaje de las barras de piel origen: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 18 cm	
- Situaciones persistentes:	Mínimo: 15 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 18 cm	Cumple
Longitud de anclaje barras superiores extremo: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 24 cm	
- Situaciones persistentes:	Mínimo: 19 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 24 cm	Cumple
Longitud de anclaje barras inferiores extremo: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 19 cm	
- Situaciones persistentes:	Mínimo: 16 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 19 cm	Cumple
Longitud de anclaje de las barras de piel extremo: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 18 cm	
- Situaciones persistentes:	Mínimo: 15 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 18 cm	Cumple
Comprobación de cortante:		
- Situaciones persistentes:	Cortante: 4.40 kN	Cumple

Referencia: VC.S-1 [N11-N13] (Viga centradora)
-Dimensiones: 40.0 cm x 50.0 cm
-Armadura superior: 4Ø16
-Armadura de piel: 1x2Ø12
-Armadura inferior: 4Ø16
-Estribos: 1xØ8c/30

Comprobación	Valores	Estado
- Situaciones accidentales sísmicas:	Cortante: 1.14 kN	Cumple
Se cumplen todas las comprobaciones		

Información adicional:

- Diámetro mínimo de la armadura longitudinal (Norma Código Estructural. Artículo A19.9.8.3): Mínimo: 12.0 mm, Calculado: 16.0 mm (Cumple)
- Esfuerzos pésimos:
- Situaciones accidentales sísmicas
- Momento flector: 3.15 kN·m - Axil: ± 0.33 kN (Cumple)
- Momento flector: -7.41 kN·m - Axil: ± 0.33 kN (Cumple)
- Momento flector: -2.36 kN·m - Axil: ± 0.34 kN (Cumple)

Referencia: VC.S-1 [N13-N15] (Viga centradora)
-Dimensiones: 40.0 cm x 50.0 cm
-Armadura superior: 4Ø16
-Armadura de piel: 1x2Ø12
-Armadura inferior: 4Ø16
-Estribos: 1xØ8c/30

Comprobación	Valores	Estado
Diámetro mínimo estribos:	Mínimo: 6 mm Calculado: 8 mm	Cumple
Separación mínima entre estribos: *Norma Código Estructural. Artículo A19.8.2 (2)*	Mínimo: 3.5 cm Calculado: 29.2 cm	Cumple
Separación mínima armadura longitudinal: *Norma Código Estructural. Artículo A19.8.2 (2)*	Mínimo: 3.5 cm	
- Armadura superior:	Calculado: 7.3 cm	Cumple
- Armadura inferior:	Calculado: 7.3 cm	Cumple
- Armadura de piel:	Calculado: 17 cm	Cumple
Separación máxima estribos: *Norma Código Estructural. Artículo A19.9.2.2 (6)*	Máximo: 32.5 cm	
- Situaciones persistentes:	Calculado: 30 cm	Cumple
- Situaciones accidentales sísmicas:	Calculado: 30 cm	Cumple
Recomendación para la separación máxima de estribos en vigas comprimidas por axiles en combinaciones sísmicas: *(1) Al no ser necesaria la armadura longitudinal en compresión, no se aplica el requisito de separación de estribos en barras comprimidas.*		No procede(1)
Separación máxima armadura longitudinal: *Criterio de CYPE*	Máximo: 30 cm	
- Armadura superior:	Calculado: 7.3 cm	Cumple
- Armadura inferior:	Calculado: 7.3 cm	Cumple
- Armadura de piel:	Calculado: 17 cm	Cumple
Cuantía mínima para los estribos: - Situaciones persistentes: *Norma Código Estructural. Artículo A19.9.2.2 (5)*	Mínimo: 3.2 cm²/m Calculado: 3.35 cm²/m	Cumple
Cuantía geométrica mínima armadura traccionada: *Norma Código Estructural. Artículo A19.9.2.1.1*	Calculado: 0.004	
- Armadura inferior (Situaciones persistentes):	Mínimo: 0.0012	Cumple
- Armadura superior (Situaciones persistentes):	Mínimo: 0.0012	Cumple
- Armadura inferior (Situaciones accidentales sísmicas):	Mínimo: 0.001	Cumple
- Armadura superior (Situaciones accidentales sísmicas):	Mínimo: 0.001	Cumple
Armadura mínima por cuantía mecánica de flexión compuesta: *Norma Código Estructural. Artículo A19.9.2.1.1*	Calculado: 8.04 cm²	
- Armadura inferior (Situaciones persistentes):	Mínimo: 2.45 cm²	Cumple
- Armadura superior (Situaciones persistentes):	Mínimo: 2.45 cm²	Cumple
- Armadura inferior (Situaciones accidentales sísmicas):	Mínimo: 2.13 cm²	Cumple
- Armadura superior (Situaciones accidentales sísmicas):	Mínimo: 2.13 cm²	Cumple
Armadura mínima por cuantía mecánica de esfuerzos axiles: - Armadura total (Situaciones accidentales sísmicas): *Criterio de CYPE basado en el Artículo 38.4 de la EH-91*	Mínimo: 5.33 cm² Calculado: 18.34 cm²	Cumple

Referencia: VC.S-1 [N13-N15] (Viga centradora)
-Dimensiones: 40.0 cm x 50.0 cm
-Armadura superior: 4Ø16
-Armadura de piel: 1x2Ø12
-Armadura inferior: 4Ø16
-Estribos: 1xØ8c/30

Comprobación	Valores	Estado
Armadura necesaria por cálculo para el axil de compresión: - Situaciones accidentales sísmicas: *Criterio de CYPE, basado en: J. Calavera. "Cálculo de Estructuras de Cimentación". Capítulo 3.15*	Mínimo: 0 cm² Calculado: 18.34 cm²	Cumple
Armadura necesaria por cálculo para el axil de tracción: - Situaciones accidentales sísmicas: *Criterio de CYPE, basado en: J. Calavera. "Cálculo de Estructuras de Cimentación". Capítulo 3.15*	Mínimo: 0.06 cm² Calculado: 18.34 cm²	Cumple
Comprobación de armadura necesaria por cálculo a flexión compuesta: - Situaciones persistentes: - Situaciones accidentales sísmicas: *Ver listado de esfuerzos pésimos en 'Información adicional'.*	 Momento flector: 10.33 kN·m Axil: ± 0.00 kN Momento flector: -10.79 kN·m Axil: ± 0.00 kN	 Cumple Cumple Cumple
Longitud de anclaje barras superiores origen: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 24 cm	
- Situaciones persistentes:	Mínimo: 19 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 24 cm	Cumple
Longitud de anclaje barras inferiores origen: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 19 cm	
- Situaciones persistentes:	Mínimo: 16 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 19 cm	Cumple
Longitud de anclaje de las barras de piel origen: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 18 cm	
- Situaciones persistentes:	Mínimo: 15 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 18 cm	Cumple
Longitud de anclaje barras superiores extremo: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 24 cm	
- Situaciones persistentes:	Mínimo: 19 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 24 cm	Cumple
Longitud de anclaje barras inferiores extremo: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 19 cm	
- Situaciones persistentes:	Mínimo: 16 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 19 cm	Cumple
Longitud de anclaje de las barras de piel extremo: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 18 cm	
- Situaciones persistentes:	Mínimo: 15 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 18 cm	Cumple
Comprobación de cortante: - Situaciones persistentes:	Cortante: 3.25 kN	Cumple
Se cumplen todas las comprobaciones		

Información adicional:

- Diámetro mínimo de la armadura longitudinal (Norma Código Estructural. Artículo A19.9.8.3): Mínimo: 12.0 mm, Calculado: 16.0 mm (Cumple)
- Esfuerzos pésimos:
- Situaciones accidentales sísmicas
- Momento flector: 3.26 kN·m - Axil: ± 0.35 kN (Cumple)
- Momento flector: -3.28 kN·m - Axil: ± 0.35 kN (Cumple)
- Momento flector: 0.00 kN·m - Axil: ± 0.36 kN (Cumple)

Referencia: VC.S-1 [N15-N17] (Viga centradora)
-Dimensiones: 40.0 cm x 50.0 cm
-Armadura superior: 4Ø16
-Armadura de piel: 1x2Ø12
-Armadura inferior: 4Ø16
-Estribos: 1xØ8c/30

Comprobación	Valores	Estado
Diámetro mínimo estribos:	Mínimo: 6 mm Calculado: 8 mm	Cumple
Separación mínima entre estribos: *Norma Código Estructural. Artículo A19.8.2 (2)*	Mínimo: 3.5 cm Calculado: 29.2 cm	Cumple

Referencia: VC.S-1 [N15-N17] (Viga centradora)
-Dimensiones: 40.0 cm x 50.0 cm
-Armadura superior: 4Ø16
-Armadura de piel: 1x2Ø12
-Armadura inferior: 4Ø16
-Estribos: 1xØ8c/30

Comprobación	Valores	Estado
Separación mínima armadura longitudinal: *Norma Código Estructural. Artículo A19.8.2 (2)*	Mínimo: 3.5 cm	
- Armadura superior:	Calculado: 7.3 cm	Cumple
- Armadura inferior:	Calculado: 7.3 cm	Cumple
- Armadura de piel:	Calculado: 17 cm	Cumple
Separación máxima estribos: *Norma Código Estructural. Artículo A19.9.2.2 (6)*	Máximo: 32.5 cm	
- Situaciones persistentes:	Calculado: 30 cm	Cumple
- Situaciones accidentales sísmicas:	Calculado: 30 cm	Cumple
Recomendación para la separación máxima de estribos en vigas comprimidas por axiles en combinaciones sísmicas: *(1) Al no ser necesaria la armadura longitudinal en compresión, no se aplica el requisito de separación de estribos en barras comprimidas.*		No procede(1)
Separación máxima armadura longitudinal: *Criterio de CYPE*	Máximo: 30 cm	
- Armadura superior:	Calculado: 7.3 cm	Cumple
- Armadura inferior:	Calculado: 7.3 cm	Cumple
- Armadura de piel:	Calculado: 17 cm	Cumple
Cuantía mínima para los estribos: - Situaciones persistentes: *Norma Código Estructural. Artículo A19.9.2.2 (5)*	Mínimo: 3.2 cm²/m Calculado: 3.35 cm²/m	Cumple
Cuantía geométrica mínima armadura traccionada: *Norma Código Estructural. Artículo A19.9.2.1.1*	Calculado: 0.004	
- Armadura inferior (Situaciones persistentes):	Mínimo: 0.0012	Cumple
- Armadura superior (Situaciones persistentes):	Mínimo: 0.0012	Cumple
- Armadura inferior (Situaciones accidentales sísmicas):	Mínimo: 0.001	Cumple
- Armadura superior (Situaciones accidentales sísmicas):	Mínimo: 0.001	Cumple
Armadura mínima por cuantía mecánica de flexión compuesta: *Norma Código Estructural. Artículo A19.9.2.1.1*	Calculado: 8.04 cm²	
- Armadura inferior (Situaciones persistentes):	Mínimo: 2.45 cm²	Cumple
- Armadura superior (Situaciones persistentes):	Mínimo: 2.45 cm²	Cumple
- Armadura inferior (Situaciones accidentales sísmicas):	Mínimo: 2.13 cm²	Cumple
- Armadura superior (Situaciones accidentales sísmicas):	Mínimo: 2.13 cm²	Cumple
Armadura mínima por cuantía mecánica de esfuerzos axiles: - Armadura total (Situaciones accidentales sísmicas): *Criterio de CYPE basado en el Artículo 38.4 de la EH-91*	Mínimo: 5.33 cm² Calculado: 18.34 cm²	Cumple
Armadura necesaria por cálculo para el axil de compresión: - Situaciones accidentales sísmicas: *Criterio de CYPE, basado en: J. Calavera. "Cálculo de Estructuras de Cimentación". Capítulo 3.15*	Mínimo: 0 cm² Calculado: 18.34 cm²	Cumple
Armadura necesaria por cálculo para el axil de tracción: - Situaciones accidentales sísmicas: *Criterio de CYPE, basado en: J. Calavera. "Cálculo de Estructuras de Cimentación". Capítulo 3.15*	Mínimo: 0.06 cm² Calculado: 18.34 cm²	Cumple
Comprobación de armadura necesaria por cálculo a flexión compuesta: - Situaciones persistentes: - Situaciones accidentales sísmicas: *Ver listado de esfuerzos pésimos en 'Información adicional'.*	 Momento flector: 10.79 kN·m Axil: ± 0.00 kN Momento flector: -10.38 kN·m Axil: ± 0.00 kN	 Cumple Cumple Cumple
Longitud de anclaje barras superiores origen: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 24 cm	
- Situaciones persistentes:	Mínimo: 19 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 24 cm	Cumple
Longitud de anclaje barras inferiores origen: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 19 cm	
- Situaciones persistentes:	Mínimo: 16 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 19 cm	Cumple
Longitud de anclaje de las barras de piel origen: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 18 cm	

Referencia: VC.S-1 [N15-N17] (Viga centradora)
-Dimensiones: 40.0 cm x 50.0 cm
-Armadura superior: 4Ø16
-Armadura de piel: 1x2Ø12
-Armadura inferior: 4Ø16
-Estribos: 1xØ8c/30

Comprobación	Valores	Estado
- Situaciones persistentes:	Mínimo: 15 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 18 cm	Cumple
Longitud de anclaje barras superiores extremo: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 24 cm	
- Situaciones persistentes:	Mínimo: 19 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 24 cm	Cumple
Longitud de anclaje barras inferiores extremo: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 19 cm	
- Situaciones persistentes:	Mínimo: 16 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 19 cm	Cumple
Longitud de anclaje de las barras de piel extremo: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 18 cm	
- Situaciones persistentes:	Mínimo: 15 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 18 cm	Cumple
Comprobación de cortante: - Situaciones persistentes:	Cortante: 3.26 kN	Cumple
Se cumplen todas las comprobaciones		

Información adicional:

- Diámetro mínimo de la armadura longitudinal (Norma Código Estructural. Artículo A19.9.8.3): Mínimo: 12.0 mm, Calculado: 16.0 mm (Cumple)
- Esfuerzos pésimos:
- Situaciones accidentales sísmicas
- Momento flector: 3.28 kN·m - Axil: ± 0.32 kN (Cumple)
- Momento flector: -3.26 kN·m - Axil: ± 0.33 kN (Cumple)
- Momento flector: 2.88 kN·m - Axil: ± 0.33 kN (Cumple)

Referencia: VC.S-1 [N17-N19] (Viga centradora)
-Dimensiones: 40.0 cm x 50.0 cm
-Armadura superior: 4Ø16
-Armadura de piel: 1x2Ø12
-Armadura inferior: 4Ø16
-Estribos: 1xØ8c/30

Comprobación	Valores	Estado
Diámetro mínimo estribos:	Mínimo: 6 mm Calculado: 8 mm	Cumple
Separación mínima entre estribos: *Norma Código Estructural. Artículo A19.8.2 (2)*	Mínimo: 3.5 cm Calculado: 29.2 cm	Cumple
Separación mínima armadura longitudinal: *Norma Código Estructural. Artículo A19.8.2 (2)*	Mínimo: 3.5 cm	
- Armadura superior:	Calculado: 7.3 cm	Cumple
- Armadura inferior:	Calculado: 7.3 cm	Cumple
- Armadura de piel:	Calculado: 17 cm	Cumple
Separación máxima estribos: *Norma Código Estructural. Artículo A19.9.2.2 (6)*	Máximo: 32.5 cm	
- Situaciones persistentes:	Calculado: 30 cm	Cumple
- Situaciones accidentales sísmicas:	Calculado: 30 cm	Cumple
Recomendación para la separación máxima de estribos en vigas comprimidas por axiles en combinaciones sísmicas: *(1) Al no ser necesaria la armadura longitudinal en compresión, no se aplica el requisito de separación de estribos en barras comprimidas.*		No procede(1)
Separación máxima armadura longitudinal: *Criterio de CYPE*	Máximo: 30 cm	
- Armadura superior:	Calculado: 7.3 cm	Cumple
- Armadura inferior:	Calculado: 7.3 cm	Cumple
- Armadura de piel:	Calculado: 17 cm	Cumple
Cuantía mínima para los estribos: *Norma Código Estructural. Artículo A19.9.2.2 (5)*	Mínimo: 3.2 cm²/m	
- Situaciones persistentes:	Calculado: 3.35 cm²/m	Cumple
- Situaciones accidentales sísmicas:	Calculado: 3.35 cm²/m	Cumple

Referencia: VC.S-1 [N17-N19] (Viga centradora)
-Dimensiones: 40.0 cm x 50.0 cm
-Armadura superior: 4Ø16
-Armadura de piel: 1x2Ø12
-Armadura inferior: 4Ø16
-Estribos: 1xØ8c/30

Comprobación	Valores	Estado
Cuantía geométrica mínima armadura traccionada: *Norma Código Estructural. Artículo A19.9.2.1.1*	Calculado: 0.004	
- Armadura inferior (Situaciones persistentes):	Mínimo: 0.0012	Cumple
- Armadura superior (Situaciones persistentes):	Mínimo: 0.0012	Cumple
- Armadura inferior (Situaciones accidentales sísmicas):	Mínimo: 0.001	Cumple
- Armadura superior (Situaciones accidentales sísmicas):	Mínimo: 0.001	Cumple
Armadura mínima por cuantía mecánica de flexión compuesta: *Norma Código Estructural. Artículo A19.9.2.1.1*	Calculado: 8.04 cm²	
- Armadura inferior (Situaciones persistentes):	Mínimo: 2.45 cm²	Cumple
- Armadura superior (Situaciones persistentes):	Mínimo: 2.45 cm²	Cumple
- Armadura inferior (Situaciones accidentales sísmicas):	Mínimo: 2.13 cm²	Cumple
- Armadura superior (Situaciones accidentales sísmicas):	Mínimo: 2.13 cm²	Cumple
Armadura mínima por cuantía mecánica de esfuerzos axiles: - Armadura total (Situaciones accidentales sísmicas): *Criterio de CYPE basado en el Artículo 38.4 de la EH-91*	Mínimo: 5.33 cm² Calculado: 18.34 cm²	Cumple
Armadura necesaria por cálculo para el axil de compresión: - Situaciones accidentales sísmicas: *Criterio de CYPE, basado en: J. Calavera. "Cálculo de Estructuras de Cimentación". Capítulo 3.15*	Mínimo: 0 cm² Calculado: 18.34 cm²	Cumple
Armadura necesaria por cálculo para el axil de tracción: - Situaciones accidentales sísmicas: *Criterio de CYPE, basado en: J. Calavera. "Cálculo de Estructuras de Cimentación". Capítulo 3.15*	Mínimo: 0.05 cm² Calculado: 18.34 cm²	Cumple
Comprobación de armadura necesaria por cálculo a flexión compuesta:		
- Situaciones persistentes:	Momento flector: 10.38 kN·m Axil: ± 0.00 kN	Cumple
	Momento flector: -24.97 kN·m Axil: ± 0.00 kN	Cumple
- Situaciones accidentales sísmicas: *Ver listado de esfuerzos pésimos en 'Información adicional'.*		Cumple
Longitud de anclaje barras superiores origen: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 24 cm	
- Situaciones persistentes:	Mínimo: 19 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 24 cm	Cumple
Longitud de anclaje barras inferiores origen: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 19 cm	
- Situaciones persistentes:	Mínimo: 16 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 19 cm	Cumple
Longitud de anclaje de las barras de piel origen: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 18 cm	
- Situaciones persistentes:	Mínimo: 15 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 18 cm	Cumple
Longitud de anclaje barras superiores extremo: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 24 cm	
- Situaciones persistentes:	Mínimo: 19 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 24 cm	Cumple
Longitud de anclaje barras inferiores extremo: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 19 cm	
- Situaciones persistentes:	Mínimo: 16 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 19 cm	Cumple
Longitud de anclaje de las barras de piel extremo: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 18 cm	
- Situaciones persistentes:	Mínimo: 15 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 18 cm	Cumple
Comprobación de cortante:		
- Situaciones persistentes:	Cortante: 5.44 kN	Cumple
- Situaciones accidentales sísmicas:	Cortante: 1.18 kN	Cumple
Se cumplen todas las comprobaciones		
Información adicional:		

Referencia: VC.S-1 [N17-N19] (Viga centradora)
-Dimensiones: 40.0 cm x 50.0 cm
-Armadura superior: 4Ø16
-Armadura de piel: 1x2Ø12
-Armadura inferior: 4Ø16
-Estribos: 1xØ8c/30

Comprobación	Valores	Estado
- Diámetro mínimo de la armadura longitudinal (Norma Código Estructural. Artículo A19.9.8.3): Mínimo: 12.0 mm, Calculado: 16.0 mm (Cumple)		
- Esfuerzos pésimos:		
- Situaciones accidentales sísmicas		
- Momento flector: 2.92 kN·m - Axil: ± 0.29 kN (Cumple)		
- Momento flector: -7.67 kN·m - Axil: ± 0.29 kN (Cumple)		
- Momento flector: 2.23 kN·m - Axil: ± 0.30 kN (Cumple)		
- Momento flector: -2.88 kN·m - Axil: ± 0.30 kN (Cumple)		

Referencia: VC.S-1 [N19-N1] (Viga centradora)
-Dimensiones: 40.0 cm x 50.0 cm
-Armadura superior: 4Ø16
-Armadura de piel: 1x2Ø12
-Armadura inferior: 4Ø16
-Estribos: 1xØ8c/30

Comprobación	Valores	Estado
Diámetro mínimo estribos:	Mínimo: 6 mm Calculado: 8 mm	Cumple
Separación mínima entre estribos: *Norma Código Estructural. Artículo A19.8.2 (2)*	Mínimo: 3.5 cm Calculado: 29.2 cm	Cumple
Separación mínima armadura longitudinal: *Norma Código Estructural. Artículo A19.8.2 (2)*	Mínimo: 3.5 cm	
- Armadura superior:	Calculado: 7.3 cm	Cumple
- Armadura inferior:	Calculado: 7.3 cm	Cumple
- Armadura de piel:	Calculado: 17 cm	Cumple
Separación máxima estribos: *Norma Código Estructural. Artículo A19.9.2.2 (6)*	Máximo: 32.5 cm	
- Situaciones persistentes:	Calculado: 30 cm	Cumple
- Situaciones accidentales sísmicas:	Calculado: 30 cm	Cumple
Recomendación para la separación máxima de estribos en vigas comprimidas por axiles en combinaciones sísmicas: *(1) Al no ser necesaria la armadura longitudinal en compresión, no se aplica el requisito de separación de estribos en barras comprimidas.*		No procede(1)
Separación máxima armadura longitudinal: *Criterio de CYPE*	Máximo: 30 cm	
- Armadura superior:	Calculado: 7.3 cm	Cumple
- Armadura inferior:	Calculado: 7.3 cm	Cumple
- Armadura de piel:	Calculado: 17 cm	Cumple
Cuantía mínima para los estribos: *Norma Código Estructural. Artículo A19.9.2.2 (5)*	Mínimo: 3.2 cm²/m	
- Situaciones persistentes:	Calculado: 3.35 cm²/m	Cumple
- Situaciones accidentales sísmicas:	Calculado: 3.35 cm²/m	Cumple
Cuantía geométrica mínima armadura traccionada: *Norma Código Estructural. Artículo A19.9.2.1.1*	Calculado: 0.004	
- Armadura inferior (Situaciones persistentes):	Mínimo: 0.0012	Cumple
- Armadura superior (Situaciones persistentes):	Mínimo: 0.0012	Cumple
- Armadura inferior (Situaciones accidentales sísmicas):	Mínimo: 0.001	Cumple
- Armadura superior (Situaciones accidentales sísmicas):	Mínimo: 0.001	Cumple
Armadura mínima por cuantía mecánica de flexión compuesta: *Norma Código Estructural. Artículo A19.9.2.1.1*	Calculado: 8.04 cm²	
- Armadura inferior (Situaciones persistentes):	Mínimo: 2.45 cm²	Cumple
- Armadura superior (Situaciones persistentes):	Mínimo: 2.45 cm²	Cumple
- Armadura inferior (Situaciones accidentales sísmicas):	Mínimo: 2.13 cm²	Cumple
- Armadura superior (Situaciones accidentales sísmicas):	Mínimo: 2.13 cm²	Cumple
Armadura mínima por cuantía mecánica de esfuerzos axiles: - Armadura total (Situaciones accidentales sísmicas): *Criterio de CYPE basado en el Artículo 38.4 de la EH-91*	Mínimo: 5.33 cm² Calculado: 18.34 cm²	Cumple
Armadura necesaria por cálculo para el axil de compresión: - Situaciones accidentales sísmicas: *Criterio de CYPE, basado en: J. Calavera. "Cálculo de Estructuras de Cimentación". Capítulo 3.15*	Mínimo: 0 cm² Calculado: 18.34 cm²	Cumple

Referencia: VC.S-1 [N19-N1] (Viga centradora)
-Dimensiones: 40.0 cm x 50.0 cm
-Armadura superior: 4Ø16
-Armadura de piel: 1x2Ø12
-Armadura inferior: 4Ø16
-Estribos: 1xØ8c/30

Comprobación	Valores	Estado
Armadura necesaria por cálculo para el axil de tracción: - Situaciones accidentales sísmicas: *Criterio de CYPE, basado en: J. Calavera. "Cálculo de Estructuras de Cimentación". Capítulo 3.15*	 Mínimo: 0.05 cm² Calculado: 18.34 cm²	 Cumple
Comprobación de armadura necesaria por cálculo a flexión compuesta: - Situaciones persistentes: - Situaciones accidentales sísmicas: *Ver listado de esfuerzos pésimos en 'Información adicional'.*	 Momento flector: 40.19 kN·m Axil: ± 0.00 kN Momento flector: -20.72 kN·m Axil: ± 0.00 kN	 Cumple Cumple Cumple
Longitud de anclaje barras superiores origen: *El anclaje se realiza a partir del eje de los pilares* - Situaciones persistentes: - Situaciones accidentales sísmicas:	Calculado: 24 cm Mínimo: 19 cm Mínimo: 24 cm	 Cumple Cumple
Longitud de anclaje barras inferiores origen: *El anclaje se realiza a partir del eje de los pilares* - Situaciones persistentes: - Situaciones accidentales sísmicas:	Calculado: 19 cm Mínimo: 16 cm Mínimo: 19 cm	 Cumple Cumple
Longitud de anclaje de las barras de piel origen: *El anclaje se realiza a partir del eje de los pilares* - Situaciones persistentes: - Situaciones accidentales sísmicas:	Calculado: 18 cm Mínimo: 15 cm Mínimo: 18 cm	 Cumple Cumple
Longitud de anclaje barras superiores extremo: *El anclaje se realiza a partir del eje de los pilares* - Situaciones persistentes: - Situaciones accidentales sísmicas:	Calculado: 24 cm Mínimo: 19 cm Mínimo: 24 cm	 Cumple Cumple
Longitud de anclaje barras inferiores extremo: *El anclaje se realiza a partir del eje de los pilares* - Situaciones persistentes: - Situaciones accidentales sísmicas:	Calculado: 19 cm Mínimo: 16 cm Mínimo: 19 cm	 Cumple Cumple
Longitud de anclaje de las barras de piel extremo: *El anclaje se realiza a partir del eje de los pilares* - Situaciones persistentes: - Situaciones accidentales sísmicas:	Calculado: 18 cm Mínimo: 15 cm Mínimo: 18 cm	 Cumple Cumple
Comprobación de cortante: - Situaciones persistentes: - Situaciones accidentales sísmicas:	 Cortante: 8.93 kN Cortante: 2.58 kN	 Cumple Cumple
Se cumplen todas las comprobaciones		

Información adicional:

- Diámetro mínimo de la armadura longitudinal (Norma Código Estructural. Artículo A19.9.8.3): Mínimo: 12.0 mm, Calculado: 16.0 mm (Cumple)
- Esfuerzos pésimos:
- Situaciones accidentales sísmicas
- Momento flector: 13.40 kN·m - Axil: ± 0.27 kN (Cumple)
- Momento flector: -3.07 kN·m - Axil: ± 0.17 kN (Cumple)
- Momento flector: -2.22 kN·m - Axil: ± 0.27 kN (Cumple)

Referencia: VC.S-1 [N1-N3] (Viga centradora)
-Dimensiones: 40.0 cm x 50.0 cm
-Armadura superior: 4Ø16
-Armadura de piel: 1x2Ø12
-Armadura inferior: 4Ø16
-Estribos: 1xØ8c/30

Comprobación	Valores	Estado
Diámetro mínimo estribos:	Mínimo: 6 mm Calculado: 8 mm	Cumple
Separación mínima entre estribos: *Norma Código Estructural. Artículo A19.8.2 (2)*	Mínimo: 3.5 cm Calculado: 29.2 cm	Cumple

Referencia: VC.S-1 [N1-N3] (Viga centradora)
-Dimensiones: 40.0 cm x 50.0 cm
-Armadura superior: 4Ø16
-Armadura de piel: 1x2Ø12
-Armadura inferior: 4Ø16
-Estribos: 1xØ8c/30

Comprobación	Valores	Estado
Separación mínima armadura longitudinal: *Norma Código Estructural. Artículo A19.8.2 (2)* - Armadura superior: - Armadura inferior: - Armadura de piel:	 Mínimo: 3.5 cm Calculado: 7.3 cm Calculado: 7.3 cm Calculado: 17 cm	 Cumple Cumple Cumple
Separación máxima estribos: *Norma Código Estructural. Artículo A19.9.2.2 (6)* - Situaciones persistentes: - Situaciones accidentales sísmicas:	 Máximo: 32.5 cm Calculado: 30 cm Calculado: 30 cm	 Cumple Cumple
Recomendación para la separación máxima de estribos en vigas comprimidas por axiles en combinaciones sísmicas: *(1) Al no ser necesaria la armadura longitudinal en compresión, no se aplica el requisito de separación de estribos en barras comprimidas.*		No procede(1)
Separación máxima armadura longitudinal: *Criterio de CYPE* - Armadura superior: - Armadura inferior: - Armadura de piel:	 Máximo: 30 cm Calculado: 7.3 cm Calculado: 7.3 cm Calculado: 17 cm	 Cumple Cumple Cumple
Cuantía mínima para los estribos: *Norma Código Estructural. Artículo A19.9.2.2 (5)* - Situaciones persistentes: - Situaciones accidentales sísmicas:	 Mínimo: 3.2 cm²/m Calculado: 3.35 cm²/m Calculado: 3.35 cm²/m	 Cumple Cumple
Cuantía geométrica mínima armadura traccionada: *Norma Código Estructural. Artículo A19.9.2.1.1* - Armadura inferior (Situaciones persistentes): - Armadura superior (Situaciones persistentes): - Armadura inferior (Situaciones accidentales sísmicas): - Armadura superior (Situaciones accidentales sísmicas):	 Calculado: 0.004 Mínimo: 0.0012 Mínimo: 0.0012 Mínimo: 0.001 Mínimo: 0.001	 Cumple Cumple Cumple Cumple
Armadura mínima por cuantía mecánica de flexión compuesta: *Norma Código Estructural. Artículo A19.9.2.1.1* - Armadura inferior (Situaciones persistentes): - Armadura superior (Situaciones persistentes): - Armadura inferior (Situaciones accidentales sísmicas): - Armadura superior (Situaciones accidentales sísmicas):	 Calculado: 8.04 cm² Mínimo: 2.45 cm² Mínimo: 2.45 cm² Mínimo: 2.13 cm² Mínimo: 2.13 cm²	 Cumple Cumple Cumple Cumple
Armadura mínima por cuantía mecánica de esfuerzos axiles: - Armadura total (Situaciones accidentales sísmicas): *Criterio de CYPE basado en el Artículo 38.4 de la EH-91*	 Mínimo: 5.33 cm² Calculado: 18.34 cm²	 Cumple
Armadura necesaria por cálculo para el axil de compresión: - Situaciones accidentales sísmicas: *Criterio de CYPE, basado en: J. Calavera. "Cálculo de Estructuras de Cimentación". Capítulo 3.15*	 Mínimo: 0 cm² Calculado: 18.34 cm²	 Cumple
Armadura necesaria por cálculo para el axil de tracción: - Situaciones accidentales sísmicas: *Criterio de CYPE, basado en: J. Calavera. "Cálculo de Estructuras de Cimentación". Capítulo 3.15*	 Mínimo: 0.03 cm² Calculado: 18.34 cm²	 Cumple
Comprobación de armadura necesaria por cálculo a flexión compuesta: - Situaciones persistentes: - Situaciones accidentales sísmicas: *Ver listado de esfuerzos pésimos en 'Información adicional'.*	 Momento flector: 85.86 kN·m Axil: ± 0.00 kN Momento flector: -28.71 kN·m Axil: ± 0.00 kN	 Cumple Cumple Cumple
Longitud de anclaje barras superiores origen: *El anclaje se realiza a partir del eje de los pilares* - Situaciones persistentes: - Situaciones accidentales sísmicas:	Calculado: 34 cm Mínimo: 34 cm Mínimo: 24 cm	 Cumple Cumple
Longitud de anclaje barras inferiores origen: *El anclaje se realiza a partir del eje de los pilares* - Situaciones persistentes: - Situaciones accidentales sísmicas:	Calculado: 24 cm Mínimo: 23 cm Mínimo: 19 cm	 Cumple Cumple

Referencia: VC.S-1 [N1-N3] (Viga centradora)
-Dimensiones: 40.0 cm x 50.0 cm
-Armadura superior: 4Ø16
-Armadura de piel: 1x2Ø12
-Armadura inferior: 4Ø16
-Estribos: 1xØ8c/30

Comprobación	Valores	Estado
Longitud de anclaje de las barras de piel origen: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 26 cm	
- Situaciones persistentes:	Mínimo: 25 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 18 cm	Cumple
Longitud de anclaje barras superiores extremo: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 34 cm	
- Situaciones persistentes:	Mínimo: 34 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 24 cm	Cumple
Longitud de anclaje barras inferiores extremo: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 24 cm	
- Situaciones persistentes:	Mínimo: 23 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 19 cm	Cumple
Longitud de anclaje de las barras de piel extremo: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 26 cm	
- Situaciones persistentes:	Mínimo: 25 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 18 cm	Cumple
Comprobación de cortante:		
- Situaciones persistentes:	Cortante: 20.30 kN	Cumple
- Situaciones accidentales sísmicas:	Cortante: 2.55 kN	Cumple
Se cumplen todas las comprobaciones		

Información adicional:

- Diámetro mínimo de la armadura longitudinal (Norma Código Estructural. Artículo A19.9.8.3): Mínimo: 12.0 mm, Calculado: 16.0 mm (Cumple)
- Esfuerzos pésimos:
- Situaciones accidentales sísmicas
- Momento flector: 13.81 kN·m - Axil: ± 0.13 kN (Cumple)
- Momento flector: -6.74 kN·m - Axil: ± 0.17 kN (Cumple)
- Momento flector: 13.04 kN·m - Axil: ± 0.19 kN (Cumple)
- Momento flector: -3.42 kN·m - Axil: ± 0.19 kN (Cumple)

Referencia: VC.S-1 [N3-N5] (Viga centradora)
-Dimensiones: 40.0 cm x 50.0 cm
-Armadura superior: 4Ø16
-Armadura de piel: 1x2Ø12
-Armadura inferior: 4Ø16
-Estribos: 1xØ8c/30

Comprobación	Valores	Estado
Diámetro mínimo estribos:	Mínimo: 6 mm Calculado: 8 mm	Cumple
Separación mínima entre estribos: *Norma Código Estructural. Artículo A19.8.2 (2)*	Mínimo: 3.5 cm Calculado: 29.2 cm	Cumple
Separación mínima armadura longitudinal: *Norma Código Estructural. Artículo A19.8.2 (2)*	Mínimo: 3.5 cm	
- Armadura superior:	Calculado: 7.3 cm	Cumple
- Armadura inferior:	Calculado: 7.3 cm	Cumple
- Armadura de piel:	Calculado: 17 cm	Cumple
Separación máxima estribos: *Norma Código Estructural. Artículo A19.9.2.2 (6)*	Máximo: 32.5 cm	
- Situaciones persistentes:	Calculado: 30 cm	Cumple
- Situaciones accidentales sísmicas:	Calculado: 30 cm	Cumple
Recomendación para la separación máxima de estribos en vigas comprimidas por axiles en combinaciones sísmicas: *(1) Al no ser necesaria la armadura longitudinal en compresión, no se aplica el requisito de separación de estribos en barras comprimidas.*		No procede(1)
Separación máxima armadura longitudinal: *Criterio de CYPE*	Máximo: 30 cm	
- Armadura superior:	Calculado: 7.3 cm	Cumple
- Armadura inferior:	Calculado: 7.3 cm	Cumple
- Armadura de piel:	Calculado: 17 cm	Cumple

Referencia: VC.S-1 [N3-N5] (Viga centradora)
-Dimensiones: 40.0 cm x 50.0 cm
-Armadura superior: 4Ø16
-Armadura de piel: 1x2Ø12
-Armadura inferior: 4Ø16
-Estribos: 1xØ8c/30

Comprobación	Valores	Estado
Cuantía mínima para los estribos: *Norma Código Estructural. Artículo A19.9.2.2 (5)*	Mínimo: 3.2 cm²/m	
- Situaciones persistentes:	Calculado: 3.35 cm²/m	Cumple
- Situaciones accidentales sísmicas:	Calculado: 3.35 cm²/m	Cumple
Cuantía geométrica mínima armadura traccionada: *Norma Código Estructural. Artículo A19.9.2.1.1*	Calculado: 0.004	
- Armadura inferior (Situaciones persistentes):	Mínimo: 0.0012	Cumple
- Armadura superior (Situaciones persistentes):	Mínimo: 0.0012	Cumple
- Armadura inferior (Situaciones accidentales sísmicas):	Mínimo: 0.001	Cumple
- Armadura superior (Situaciones accidentales sísmicas):	Mínimo: 0.001	Cumple
Armadura mínima por cuantía mecánica de flexión compuesta: *Norma Código Estructural. Artículo A19.9.2.1.1*	Calculado: 8.04 cm²	
- Armadura inferior (Situaciones persistentes):	Mínimo: 2.45 cm²	Cumple
- Armadura superior (Situaciones persistentes):	Mínimo: 2.45 cm²	Cumple
- Armadura inferior (Situaciones accidentales sísmicas):	Mínimo: 2.13 cm²	Cumple
- Armadura superior (Situaciones accidentales sísmicas):	Mínimo: 2.13 cm²	Cumple
Armadura mínima por cuantía mecánica de esfuerzos axiles: - Armadura total (Situaciones accidentales sísmicas): *Criterio de CYPE basado en el Artículo 38.4 de la EH-91*	Mínimo: 5.33 cm² Calculado: 18.34 cm²	Cumple
Armadura necesaria por cálculo para el axil de compresión: - Situaciones accidentales sísmicas: *Criterio de CYPE, basado en: J. Calavera. "Cálculo de Estructuras de Cimentación". Capítulo 3.15*	Mínimo: 0 cm² Calculado: 18.34 cm²	Cumple
Armadura necesaria por cálculo para el axil de tracción: - Situaciones accidentales sísmicas: *Criterio de CYPE, basado en: J. Calavera. "Cálculo de Estructuras de Cimentación". Capítulo 3.15*	Mínimo: 0.03 cm² Calculado: 18.34 cm²	Cumple
Comprobación de armadura necesaria por cálculo a flexión compuesta:		
- Situaciones persistentes:	Momento flector: 20.26 kN·m Axil: ± 0.00 kN Momento flector: -28.05 kN·m Axil: ± 0.00 kN	Cumple Cumple
- Situaciones accidentales sísmicas: *Ver listado de esfuerzos pésimos en 'Información adicional'.*		Cumple
Longitud de anclaje barras superiores origen: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 24 cm	
- Situaciones persistentes:	Mínimo: 19 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 24 cm	Cumple
Longitud de anclaje barras inferiores origen: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 19 cm	
- Situaciones persistentes:	Mínimo: 16 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 19 cm	Cumple
Longitud de anclaje de las barras de piel origen: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 18 cm	
- Situaciones persistentes:	Mínimo: 15 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 18 cm	Cumple
Longitud de anclaje barras superiores extremo: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 24 cm	
- Situaciones persistentes:	Mínimo: 19 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 24 cm	Cumple
Longitud de anclaje barras inferiores extremo: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 19 cm	
- Situaciones persistentes:	Mínimo: 16 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 19 cm	Cumple
Longitud de anclaje de las barras de piel extremo: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 18 cm	
- Situaciones persistentes:	Mínimo: 15 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 18 cm	Cumple
Comprobación de cortante:		
- Situaciones persistentes:	Cortante: 7.92 kN	Cumple

Referencia: VC.S-1 [N3-N5] (Viga centradora)
-Dimensiones: 40.0 cm x 50.0 cm
-Armadura superior: 4Ø16
-Armadura de piel: 1x2Ø12
-Armadura inferior: 4Ø16
-Estribos: 1xØ8c/30

Comprobación	Valores	Estado
- Situaciones accidentales sísmicas:	Cortante: 1.33 kN	Cumple
Se cumplen todas las comprobaciones		

Información adicional:

- Diámetro mínimo de la armadura longitudinal (Norma Código Estructural. Artículo A19.9.8.3): Mínimo: 12.0 mm, Calculado: 16.0 mm (Cumple)
- Esfuerzos pésimos:
- Situaciones accidentales sísmicas
- Momento flector: 3.90 kN·m - Axil: ± 0.17 kN (Cumple)
- Momento flector: -7.10 kN·m - Axil: ± 0.17 kN (Cumple)
- Momento flector: 3.42 kN·m - Axil: ± 0.19 kN (Cumple)
- Momento flector: -3.58 kN·m - Axil: ± 0.19 kN (Cumple)

Referencia: VC.S-1 [N5-N7] (Viga centradora)
-Dimensiones: 40.0 cm x 50.0 cm
-Armadura superior: 4Ø16
-Armadura de piel: 1x2Ø12
-Armadura inferior: 4Ø16
-Estribos: 1xØ8c/30

Comprobación	Valores	Estado
Diámetro mínimo estribos:	Mínimo: 6 mm Calculado: 8 mm	Cumple
Separación mínima entre estribos: *Norma Código Estructural. Artículo A19.8.2 (2)*	Mínimo: 3.5 cm Calculado: 29.2 cm	Cumple
Separación mínima armadura longitudinal: *Norma Código Estructural. Artículo A19.8.2 (2)*	Mínimo: 3.5 cm	
- Armadura superior:	Calculado: 7.3 cm	Cumple
- Armadura inferior:	Calculado: 7.3 cm	Cumple
- Armadura de piel:	Calculado: 17 cm	Cumple
Separación máxima estribos: *Norma Código Estructural. Artículo A19.9.2.2 (6)*	Máximo: 32.5 cm	
- Situaciones persistentes:	Calculado: 30 cm	Cumple
- Situaciones accidentales sísmicas:	Calculado: 30 cm	Cumple
Recomendación para la separación máxima de estribos en vigas comprimidas por axiles en combinaciones sísmicas: *(1) Al no ser necesaria la armadura longitudinal en compresión, no se aplica el requisito de separación de estribos en barras comprimidas.*		No procede(1)
Separación máxima armadura longitudinal: *Criterio de CYPE*	Máximo: 30 cm	
- Armadura superior:	Calculado: 7.3 cm	Cumple
- Armadura inferior:	Calculado: 7.3 cm	Cumple
- Armadura de piel:	Calculado: 17 cm	Cumple
Cuantía mínima para los estribos: *Norma Código Estructural. Artículo A19.9.2.2 (5)*	Mínimo: 3.2 cm²/m	
- Situaciones persistentes:	Calculado: 3.35 cm²/m	Cumple
- Situaciones accidentales sísmicas:	Calculado: 3.35 cm²/m	Cumple
Cuantía geométrica mínima armadura traccionada: *Norma Código Estructural. Artículo A19.9.2.1.1*	Calculado: 0.004	
- Armadura inferior (Situaciones persistentes):	Mínimo: 0.0012	Cumple
- Armadura superior (Situaciones persistentes):	Mínimo: 0.0012	Cumple
- Armadura inferior (Situaciones accidentales sísmicas):	Mínimo: 0.001	Cumple
- Armadura superior (Situaciones accidentales sísmicas):	Mínimo: 0.001	Cumple
Armadura mínima por cuantía mecánica de flexión compuesta: *Norma Código Estructural. Artículo A19.9.2.1.1*	Calculado: 8.04 cm²	
- Armadura inferior (Situaciones persistentes):	Mínimo: 2.45 cm²	Cumple
- Armadura superior (Situaciones persistentes):	Mínimo: 2.45 cm²	Cumple
- Armadura inferior (Situaciones accidentales sísmicas):	Mínimo: 2.13 cm²	Cumple
- Armadura superior (Situaciones accidentales sísmicas):	Mínimo: 2.13 cm²	Cumple
Armadura mínima por cuantía mecánica de esfuerzos axiles: - Armadura total (Situaciones accidentales sísmicas): *Criterio de CYPE basado en el Artículo 38.4 de la EH-91*	Mínimo: 5.33 cm² Calculado: 18.34 cm²	Cumple

Referencia: VC.S-1 [N5-N7] (Viga centradora)
-Dimensiones: 40.0 cm x 50.0 cm
-Armadura superior: 4Ø16
-Armadura de piel: 1x2Ø12
-Armadura inferior: 4Ø16
-Estribos: 1xØ8c/30

Comprobación	Valores	Estado
Armadura necesaria por cálculo para el axil de compresión: - Situaciones accidentales sísmicas: *Criterio de CYPE, basado en: J. Calavera. "Cálculo de Estructuras de Cimentación". Capítulo 3.15*	Mínimo: 0 cm² Calculado: 18.34 cm²	Cumple
Armadura necesaria por cálculo para el axil de tracción: - Situaciones accidentales sísmicas: *Criterio de CYPE, basado en: J. Calavera. "Cálculo de Estructuras de Cimentación". Capítulo 3.15*	Mínimo: 0.03 cm² Calculado: 18.34 cm²	Cumple
Comprobación de armadura necesaria por cálculo a flexión compuesta: - Situaciones persistentes:	Momento flector: 21.07 kN·m Axil: ± 0.00 kN Momento flector: -41.33 kN·m Axil: ± 0.00 kN	Cumple Cumple
- Situaciones accidentales sísmicas: *Ver listado de esfuerzos pésimos en 'Información adicional'.*		Cumple
Longitud de anclaje barras superiores origen: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 24 cm	
- Situaciones persistentes:	Mínimo: 19 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 24 cm	Cumple
Longitud de anclaje barras inferiores origen: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 19 cm	
- Situaciones persistentes:	Mínimo: 16 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 19 cm	Cumple
Longitud de anclaje de las barras de piel origen: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 18 cm	
- Situaciones persistentes:	Mínimo: 15 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 18 cm	Cumple
Longitud de anclaje barras superiores extremo: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 24 cm	
- Situaciones persistentes:	Mínimo: 19 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 24 cm	Cumple
Longitud de anclaje barras inferiores extremo: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 19 cm	
- Situaciones persistentes:	Mínimo: 16 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 19 cm	Cumple
Longitud de anclaje de las barras de piel extremo: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 18 cm	
- Situaciones persistentes:	Mínimo: 15 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 18 cm	Cumple
Comprobación de cortante:		
- Situaciones persistentes:	Cortante: 11.66 kN	Cumple
- Situaciones accidentales sísmicas:	Cortante: 1.32 kN	Cumple
Se cumplen todas las comprobaciones		

Información adicional:

- Diámetro mínimo de la armadura longitudinal (Norma Código Estructural. Artículo A19.9.8.3): Mínimo: 12.0 mm, Calculado: 16.0 mm (Cumple)
- Esfuerzos pésimos:
- Situaciones accidentales sísmicas
- Momento flector: 3.91 kN·m - Axil: ± 0.17 kN (Cumple)
- Momento flector: -7.07 kN·m - Axil: ± 0.16 kN (Cumple)
- Momento flector: 3.40 kN·m - Axil: ± 0.19 kN (Cumple)
- Momento flector: -3.58 kN·m - Axil: ± 0.19 kN (Cumple)

Referencia: VC.S-1 [N7-N9] (Viga centradora)
-Dimensiones: 40.0 cm x 50.0 cm
-Armadura superior: 4Ø16
-Armadura de piel: 1x2Ø12
-Armadura inferior: 4Ø16
-Estribos: 1xØ8c/30

Comprobación	Valores	Estado
Diámetro mínimo estribos:	Mínimo: 6 mm Calculado: 8 mm	Cumple
Separación mínima entre estribos: *Norma Código Estructural. Artículo A19.8.2 (2)*	Mínimo: 3.5 cm Calculado: 29.2 cm	Cumple
Separación mínima armadura longitudinal: *Norma Código Estructural. Artículo A19.8.2 (2)*	Mínimo: 3.5 cm	
- Armadura superior:	Calculado: 7.3 cm	Cumple
- Armadura inferior:	Calculado: 7.3 cm	Cumple
- Armadura de piel:	Calculado: 17 cm	Cumple
Separación máxima estribos: *Norma Código Estructural. Artículo A19.9.2.2 (6)*	Máximo: 32.5 cm	
- Situaciones persistentes:	Calculado: 30 cm	Cumple
- Situaciones accidentales sísmicas:	Calculado: 30 cm	Cumple
Recomendación para la separación máxima de estribos en vigas comprimidas por axiles en combinaciones sísmicas: *(1) Al no ser necesaria la armadura longitudinal en compresión, no se aplica el requisito de separación de estribos en barras comprimidas.*		No procede(1)
Separación máxima armadura longitudinal: *Criterio de CYPE*	Máximo: 30 cm	
- Armadura superior:	Calculado: 7.3 cm	Cumple
- Armadura inferior:	Calculado: 7.3 cm	Cumple
- Armadura de piel:	Calculado: 17 cm	Cumple
Cuantía mínima para los estribos: *Norma Código Estructural. Artículo A19.9.2.2 (5)*	Mínimo: 3.2 cm²/m	
- Situaciones persistentes:	Calculado: 3.35 cm²/m	Cumple
- Situaciones accidentales sísmicas:	Calculado: 3.35 cm²/m	Cumple
Cuantía geométrica mínima armadura traccionada: *Norma Código Estructural. Artículo A19.9.2.1.1*	Calculado: 0.004	
- Armadura inferior (Situaciones persistentes):	Mínimo: 0.0012	Cumple
- Armadura superior (Situaciones persistentes):	Mínimo: 0.0012	Cumple
- Armadura inferior (Situaciones accidentales sísmicas):	Mínimo: 0.001	Cumple
- Armadura superior (Situaciones accidentales sísmicas):	Mínimo: 0.001	Cumple
Armadura mínima por cuantía mecánica de flexión compuesta: *Norma Código Estructural. Artículo A19.9.2.1.1*	Calculado: 8.04 cm²	
- Armadura inferior (Situaciones persistentes):	Mínimo: 2.45 cm²	Cumple
- Armadura superior (Situaciones persistentes):	Mínimo: 2.45 cm²	Cumple
- Armadura inferior (Situaciones accidentales sísmicas):	Mínimo: 2.13 cm²	Cumple
- Armadura superior (Situaciones accidentales sísmicas):	Mínimo: 2.13 cm²	Cumple
Armadura mínima por cuantía mecánica de esfuerzos axiles: - Armadura total (Situaciones accidentales sísmicas): *Criterio de CYPE basado en el Artículo 38.4 de la EH-91*	Mínimo: 5.33 cm² Calculado: 18.34 cm²	Cumple
Armadura necesaria por cálculo para el axil de compresión: - Situaciones accidentales sísmicas: *Criterio de CYPE, basado en: J. Calavera. "Cálculo de Estructuras de Cimentación". Capítulo 3.15*	Mínimo: 0 cm² Calculado: 18.34 cm²	Cumple
Armadura necesaria por cálculo para el axil de tracción: - Situaciones accidentales sísmicas: *Criterio de CYPE, basado en: J. Calavera. "Cálculo de Estructuras de Cimentación". Capítulo 3.15*	Mínimo: 0.03 cm² Calculado: 18.34 cm²	Cumple
Comprobación de armadura necesaria por cálculo a flexión compuesta:		
- Situaciones persistentes:	Momento flector: 61.34 kN·m Axil: ± 0.00 kN Momento flector: -46.28 kN·m Axil: ± 0.00 kN	Cumple Cumple
- Situaciones accidentales sísmicas: *Ver listado de esfuerzos pésimos en 'Información adicional'.*		Cumple
Longitud de anclaje barras superiores origen: *El anclaje se realiza a partir del eje de los pilares*	Mínimo: 24 cm	
- Situaciones persistentes:	Calculado: 25 cm	Cumple
- Situaciones accidentales sísmicas:	Calculado: 25 cm	Cumple

Referencia: VC.S-1 [N7-N9] (Viga centradora)
-Dimensiones: 40.0 cm x 50.0 cm
-Armadura superior: 4Ø16
-Armadura de piel: 1x2Ø12
-Armadura inferior: 4Ø16
-Estribos: 1xØ8c/30

Comprobación	Valores	Estado
Longitud de anclaje barras inferiores origen: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 19 cm	
- Situaciones persistentes:	Mínimo: 17 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 19 cm	Cumple
Longitud de anclaje de las barras de piel origen: *El anclaje se realiza a partir del eje de los pilares*	Mínimo: 18 cm	
- Situaciones persistentes:	Calculado: 19 cm	Cumple
- Situaciones accidentales sísmicas:	Calculado: 19 cm	Cumple
Longitud de anclaje barras superiores extremo: *El anclaje se realiza a partir del eje de los pilares*	Mínimo: 24 cm	
- Situaciones persistentes:	Calculado: 25 cm	Cumple
- Situaciones accidentales sísmicas:	Calculado: 25 cm	Cumple
Longitud de anclaje barras inferiores extremo: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 19 cm	
- Situaciones persistentes:	Mínimo: 17 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 19 cm	Cumple
Longitud de anclaje de las barras de piel extremo: *El anclaje se realiza a partir del eje de los pilares*	Mínimo: 18 cm	
- Situaciones persistentes:	Calculado: 19 cm	Cumple
- Situaciones accidentales sísmicas:	Calculado: 19 cm	Cumple
Comprobación de cortante:		
- Situaciones persistentes:	Cortante: 16.62 kN	Cumple
- Situaciones accidentales sísmicas:	Cortante: 2.53 kN	Cumple
Se cumplen todas las comprobaciones		

Información adicional:

- Diámetro mínimo de la armadura longitudinal (Norma Código Estructural. Artículo A19.9.8.3): Mínimo: 12.0 mm, Calculado: 16.0 mm (Cumple)
- Esfuerzos pésimos:
- Situaciones accidentales sísmicas
- Momento flector: 13.70 kN·m - Axil: ± 0.13 kN (Cumple)
- Momento flector: -6.64 kN·m - Axil: ± 0.17 kN (Cumple)
- Momento flector: 12.92 kN·m - Axil: ± 0.19 kN (Cumple)
- Momento flector: -3.40 kN·m - Axil: ± 0.19 kN (Cumple)

Referencia: VC.S-1 [N9-N21] (Viga centradora)
-Dimensiones: 40.0 cm x 50.0 cm
-Armadura superior: 4Ø16
-Armadura de piel: 1x2Ø12
-Armadura inferior: 4Ø16
-Estribos: 1xØ8c/30

Comprobación	Valores	Estado
Diámetro mínimo estribos:	Mínimo: 6 mm Calculado: 8 mm	Cumple
Separación mínima entre estribos: *Norma Código Estructural. Artículo A19.8.2 (2)*	Mínimo: 3.5 cm Calculado: 29.2 cm	Cumple
Separación mínima armadura longitudinal: *Norma Código Estructural. Artículo A19.8.2 (2)*	Mínimo: 3.5 cm	
- Armadura superior:	Calculado: 7.3 cm	Cumple
- Armadura inferior:	Calculado: 7.3 cm	Cumple
- Armadura de piel:	Calculado: 17 cm	Cumple
Separación máxima estribos: *Norma Código Estructural. Artículo A19.9.2.2 (6)*	Máximo: 32.5 cm	
- Situaciones persistentes:	Calculado: 30 cm	Cumple
- Situaciones accidentales sísmicas:	Calculado: 30 cm	Cumple
Recomendación para la separación máxima de estribos en vigas comprimidas por axiles en combinaciones sísmicas: *(1) Al no ser necesaria la armadura longitudinal en compresión, no se aplica el requisito de separación de estribos en barras comprimidas.*		No procede(1)
Separación máxima armadura longitudinal: *Criterio de CYPE*	Máximo: 30 cm	

Referencia: VC.S-1 [N9-N21] (Viga centradora)
-Dimensiones: 40.0 cm x 50.0 cm
-Armadura superior: 4Ø16
-Armadura de piel: 1x2Ø12
-Armadura inferior: 4Ø16
-Estribos: 1xØ8c/30

Comprobación	Valores	Estado
- Armadura superior:	Calculado: 7.3 cm	Cumple
- Armadura inferior:	Calculado: 7.3 cm	Cumple
- Armadura de piel:	Calculado: 17 cm	Cumple
Cuantía mínima para los estribos: *Norma Código Estructural. Artículo A19.9.2.2 (5)*	Mínimo: 3.2 cm²/m	
- Situaciones persistentes:	Calculado: 3.35 cm²/m	Cumple
- Situaciones accidentales sísmicas:	Calculado: 3.35 cm²/m	Cumple
Cuantía geométrica mínima armadura traccionada: *Norma Código Estructural. Artículo A19.9.2.1.1*	Calculado: 0.004	
- Armadura inferior (Situaciones persistentes):	Mínimo: 0.0012	Cumple
- Armadura superior (Situaciones persistentes):	Mínimo: 0.0012	Cumple
- Armadura inferior (Situaciones accidentales sísmicas):	Mínimo: 0.001	Cumple
- Armadura superior (Situaciones accidentales sísmicas):	Mínimo: 0.001	Cumple
Armadura mínima por cuantía mecánica de flexión compuesta: *Norma Código Estructural. Artículo A19.9.2.1.1*	Calculado: 8.04 cm²	
- Armadura inferior (Situaciones persistentes):	Mínimo: 2.45 cm²	Cumple
- Armadura superior (Situaciones persistentes):	Mínimo: 2.45 cm²	Cumple
- Armadura inferior (Situaciones accidentales sísmicas):	Mínimo: 2.13 cm²	Cumple
- Armadura superior (Situaciones accidentales sísmicas):	Mínimo: 2.13 cm²	Cumple
Armadura mínima por cuantía mecánica de esfuerzos axiles: - Armadura total (Situaciones accidentales sísmicas): *Criterio de CYPE basado en el Artículo 38.4 de la EH-91*	Mínimo: 5.33 cm² Calculado: 18.34 cm²	Cumple
Armadura necesaria por cálculo para el axil de compresión: - Situaciones accidentales sísmicas: *Criterio de CYPE, basado en: J. Calavera. "Cálculo de Estructuras de Cimentación". Capítulo 3.15*	Mínimo: 0 cm² Calculado: 18.34 cm²	Cumple
Armadura necesaria por cálculo para el axil de tracción: - Situaciones accidentales sísmicas: *Criterio de CYPE, basado en: J. Calavera. "Cálculo de Estructuras de Cimentación". Capítulo 3.15*	Mínimo: 0.05 cm² Calculado: 18.34 cm²	Cumple
Comprobación de armadura necesaria por cálculo a flexión compuesta:		
- Situaciones persistentes:	Momento flector: 40.54 kN·m Axil: ± 0.00 kN Momento flector: -20.49 kN·m Axil: ± 0.00 kN	Cumple Cumple
- Situaciones accidentales sísmicas: *Ver listado de esfuerzos pésimos en 'Información adicional'.*		Cumple
Longitud de anclaje barras superiores origen: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 24 cm	
- Situaciones persistentes:	Mínimo: 19 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 24 cm	Cumple
Longitud de anclaje barras inferiores origen: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 19 cm	
- Situaciones persistentes:	Mínimo: 16 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 19 cm	Cumple
Longitud de anclaje de las barras de piel origen: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 18 cm	
- Situaciones persistentes:	Mínimo: 15 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 18 cm	Cumple
Longitud de anclaje barras superiores extremo: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 24 cm	
- Situaciones persistentes:	Mínimo: 19 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 24 cm	Cumple
Longitud de anclaje barras inferiores extremo: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 19 cm	
- Situaciones persistentes:	Mínimo: 16 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 19 cm	Cumple
Longitud de anclaje de las barras de piel extremo: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 18 cm	
- Situaciones persistentes:	Mínimo: 15 cm	Cumple

Referencia: VC.S-1 [N9-N21] (Viga centradora)
-Dimensiones: 40.0 cm x 50.0 cm
-Armadura superior: 4Ø16
-Armadura de piel: 1x2Ø12
-Armadura inferior: 4Ø16
-Estribos: 1xØ8c/30

Comprobación	Valores	Estado
- Situaciones accidentales sísmicas:	Mínimo: 18 cm	Cumple
Comprobación de cortante:		
- Situaciones persistentes:	Cortante: 9.21 kN	Cumple
- Situaciones accidentales sísmicas:	Cortante: 2.55 kN	Cumple
Se cumplen todas las comprobaciones		

Información adicional:

- Diámetro mínimo de la armadura longitudinal (Norma Código Estructural. Artículo A19.9.8.3): Mínimo: 12.0 mm, Calculado: 16.0 mm (Cumple)
- Esfuerzos pésimos:
- Situaciones accidentales sísmicas
- Momento flector: 13.26 kN·m - Axil: ± 0.30 kN (Cumple)
- Momento flector: -2.91 kN·m - Axil: ± 0.19 kN (Cumple)
- Momento flector: -2.13 kN·m - Axil: ± 0.30 kN (Cumple)

Referencia: VC.S-1 [N21-N23] (Viga centradora)
-Dimensiones: 40.0 cm x 50.0 cm
-Armadura superior: 4Ø16
-Armadura de piel: 1x2Ø12
-Armadura inferior: 4Ø16
-Estribos: 1xØ8c/30

Comprobación	Valores	Estado
Diámetro mínimo estribos:	Mínimo: 6 mm Calculado: 8 mm	Cumple
Separación mínima entre estribos: *Norma Código Estructural. Artículo A19.8.2 (2)*	Mínimo: 3.5 cm Calculado: 29.2 cm	Cumple
Separación mínima armadura longitudinal: *Norma Código Estructural. Artículo A19.8.2 (2)*	Mínimo: 3.5 cm	
- Armadura superior:	Calculado: 7.3 cm	Cumple
- Armadura inferior:	Calculado: 7.3 cm	Cumple
- Armadura de piel:	Calculado: 17 cm	Cumple
Separación máxima estribos: *Norma Código Estructural. Artículo A19.9.2.2 (6)*	Máximo: 32.5 cm	
- Situaciones persistentes:	Calculado: 30 cm	Cumple
- Situaciones accidentales sísmicas:	Calculado: 30 cm	Cumple
Recomendación para la separación máxima de estribos en vigas comprimidas por axiles en combinaciones sísmicas: *(1) Al no ser necesaria la armadura longitudinal en compresión, no se aplica el requisito de separación de estribos en barras comprimidas.*		No procede(1)
Separación máxima armadura longitudinal: *Criterio de CYPE*	Máximo: 30 cm	
- Armadura superior:	Calculado: 7.3 cm	Cumple
- Armadura inferior:	Calculado: 7.3 cm	Cumple
- Armadura de piel:	Calculado: 17 cm	Cumple
Cuantía mínima para los estribos: *Norma Código Estructural. Artículo A19.9.2.2 (5)*	Mínimo: 3.2 cm²/m	
- Situaciones persistentes:	Calculado: 3.35 cm²/m	Cumple
- Situaciones accidentales sísmicas:	Calculado: 3.35 cm²/m	Cumple
Cuantía geométrica mínima armadura traccionada: *Norma Código Estructural. Artículo A19.9.2.1.1*	Calculado: 0.004	
- Armadura inferior (Situaciones persistentes):	Mínimo: 0.0012	Cumple
- Armadura superior (Situaciones persistentes):	Mínimo: 0.0012	Cumple
- Armadura inferior (Situaciones accidentales sísmicas):	Mínimo: 0.001	Cumple
- Armadura superior (Situaciones accidentales sísmicas):	Mínimo: 0.001	Cumple
Armadura mínima por cuantía mecánica de flexión compuesta: *Norma Código Estructural. Artículo A19.9.2.1.1*	Calculado: 8.04 cm²	
- Armadura inferior (Situaciones persistentes):	Mínimo: 2.45 cm²	Cumple
- Armadura superior (Situaciones persistentes):	Mínimo: 2.45 cm²	Cumple
- Armadura inferior (Situaciones accidentales sísmicas):	Mínimo: 2.13 cm²	Cumple
- Armadura superior (Situaciones accidentales sísmicas):	Mínimo: 2.13 cm²	Cumple

Referencia: VC.S-1 [N21-N23] (Viga centradora)
-Dimensiones: 40.0 cm x 50.0 cm
-Armadura superior: 4Ø16
-Armadura de piel: 1x2Ø12
-Armadura inferior: 4Ø16
-Estribos: 1xØ8c/30

Comprobación	Valores	Estado
Armadura mínima por cuantía mecánica de esfuerzos axiles: - Armadura total (Situaciones accidentales sísmicas): *Criterio de CYPE basado en el Artículo 38.4 de la EH-91*	 Mínimo: 5.33 cm² Calculado: 18.34 cm²	 Cumple
Armadura necesaria por cálculo para el axil de compresión: - Situaciones accidentales sísmicas: *Criterio de CYPE, basado en: J. Calavera. "Cálculo de Estructuras de Cimentación". Capítulo 3.15*	 Mínimo: 0 cm² Calculado: 18.34 cm²	 Cumple
Armadura necesaria por cálculo para el axil de tracción: - Situaciones accidentales sísmicas: *Criterio de CYPE, basado en: J. Calavera. "Cálculo de Estructuras de Cimentación". Capítulo 3.15*	 Mínimo: 0.06 cm² Calculado: 18.34 cm²	 Cumple
Comprobación de armadura necesaria por cálculo a flexión compuesta: - Situaciones persistentes: - Situaciones accidentales sísmicas: *Ver listado de esfuerzos pésimos en 'Información adicional'.*	 Momento flector: 11.20 kN·m Axil: ± 0.00 kN Momento flector: -27.53 kN·m Axil: ± 0.00 kN 	 Cumple Cumple Cumple
Longitud de anclaje barras superiores origen: *El anclaje se realiza a partir del eje de los pilares* - Situaciones persistentes: - Situaciones accidentales sísmicas:	 Calculado: 24 cm Mínimo: 19 cm Mínimo: 24 cm	 Cumple Cumple
Longitud de anclaje barras inferiores origen: *El anclaje se realiza a partir del eje de los pilares* - Situaciones persistentes: - Situaciones accidentales sísmicas:	 Calculado: 19 cm Mínimo: 16 cm Mínimo: 19 cm	 Cumple Cumple
Longitud de anclaje de las barras de piel origen: *El anclaje se realiza a partir del eje de los pilares* - Situaciones persistentes: - Situaciones accidentales sísmicas:	 Calculado: 18 cm Mínimo: 15 cm Mínimo: 18 cm	 Cumple Cumple
Longitud de anclaje barras superiores extremo: *El anclaje se realiza a partir del eje de los pilares* - Situaciones persistentes: - Situaciones accidentales sísmicas:	 Calculado: 24 cm Mínimo: 19 cm Mínimo: 24 cm	 Cumple Cumple
Longitud de anclaje barras inferiores extremo: *El anclaje se realiza a partir del eje de los pilares* - Situaciones persistentes: - Situaciones accidentales sísmicas:	 Calculado: 19 cm Mínimo: 16 cm Mínimo: 19 cm	 Cumple Cumple
Longitud de anclaje de las barras de piel extremo: *El anclaje se realiza a partir del eje de los pilares* - Situaciones persistentes: - Situaciones accidentales sísmicas:	 Calculado: 18 cm Mínimo: 15 cm Mínimo: 18 cm	 Cumple Cumple
Comprobación de cortante: - Situaciones persistentes: - Situaciones accidentales sísmicas:	 Cortante: 5.96 kN Cortante: 1.17 kN	 Cumple Cumple
Se cumplen todas las comprobaciones		

Información adicional:

- Diámetro mínimo de la armadura longitudinal (Norma Código Estructural. Artículo A19.9.8.3): Mínimo: 12.0 mm, Calculado: 16.0 mm (Cumple)
- Esfuerzos pésimos:
- Situaciones accidentales sísmicas
- Momento flector: 3.01 kN·m - Axil: ± 0.32 kN (Cumple)
- Momento flector: -7.58 kN·m - Axil: ± 0.32 kN (Cumple)
- Momento flector: -2.28 kN·m - Axil: ± 0.33 kN (Cumple)

Listados
Coberta de 46'8x28'6 malla tetràedres
Fecha: 13/11/24

Referencia: VC.S-1 [N23-N25] (Viga centradora)
-Dimensiones: 40.0 cm x 50.0 cm
-Armadura superior: 4Ø16
-Armadura de piel: 1x2Ø12
-Armadura inferior: 4Ø16
-Estribos: 1xØ8c/30

Comprobación	Valores	Estado
Diámetro mínimo estribos:	Mínimo: 6 mm Calculado: 8 mm	Cumple
Separación mínima entre estribos: *Norma Código Estructural. Artículo A19.8.2 (2)*	Mínimo: 3.5 cm Calculado: 29.2 cm	Cumple
Separación mínima armadura longitudinal: *Norma Código Estructural. Artículo A19.8.2 (2)* - Armadura superior: - Armadura inferior: - Armadura de piel:	Mínimo: 3.5 cm Calculado: 7.3 cm Calculado: 7.3 cm Calculado: 17 cm	 Cumple Cumple Cumple
Separación máxima estribos: *Norma Código Estructural. Artículo A19.9.2.2 (6)* - Situaciones persistentes: - Situaciones accidentales sísmicas:	Máximo: 32.5 cm Calculado: 30 cm Calculado: 30 cm	 Cumple Cumple
Recomendación para la separación máxima de estribos en vigas comprimidas por axiles en combinaciones sísmicas: *(1) Al no ser necesaria la armadura longitudinal en compresión, no se aplica el requisito de separación de estribos en barras comprimidas.*		No procede(1)
Separación máxima armadura longitudinal: *Criterio de CYPE* - Armadura superior: - Armadura inferior: - Armadura de piel:	Máximo: 30 cm Calculado: 7.3 cm Calculado: 7.3 cm Calculado: 17 cm	 Cumple Cumple Cumple
Cuantía mínima para los estribos: - Situaciones persistentes: *Norma Código Estructural. Artículo A19.9.2.2 (5)*	 Mínimo: 3.2 cm²/m Calculado: 3.35 cm²/m	 Cumple
Cuantía geométrica mínima armadura traccionada: *Norma Código Estructural. Artículo A19.9.2.1.1* - Armadura inferior (Situaciones persistentes): - Armadura superior (Situaciones persistentes): - Armadura inferior (Situaciones accidentales sísmicas): - Armadura superior (Situaciones accidentales sísmicas):	Calculado: 0.004 Mínimo: 0.0012 Mínimo: 0.0012 Mínimo: 0.001 Mínimo: 0.001	 Cumple Cumple Cumple Cumple
Armadura mínima por cuantía mecánica de flexión compuesta: *Norma Código Estructural. Artículo A19.9.2.1.1* - Armadura inferior (Situaciones persistentes): - Armadura superior (Situaciones persistentes): - Armadura inferior (Situaciones accidentales sísmicas): - Armadura superior (Situaciones accidentales sísmicas):	Calculado: 8.04 cm² Mínimo: 2.45 cm² Mínimo: 2.45 cm² Mínimo: 2.13 cm² Mínimo: 2.13 cm²	 Cumple Cumple Cumple Cumple
Armadura mínima por cuantía mecánica de esfuerzos axiles: - Armadura total (Situaciones accidentales sísmicas): *Criterio de CYPE basado en el Artículo 38.4 de la EH-91*	 Mínimo: 5.33 cm² Calculado: 18.34 cm²	 Cumple
Armadura necesaria por cálculo para el axil de compresión: - Situaciones accidentales sísmicas: *Criterio de CYPE, basado en: J. Calavera. "Cálculo de Estructuras de Cimentación". Capítulo 3.15*	 Mínimo: 0 cm² Calculado: 18.34 cm²	 Cumple
Armadura necesaria por cálculo para el axil de tracción: - Situaciones accidentales sísmicas: *Criterio de CYPE, basado en: J. Calavera. "Cálculo de Estructuras de Cimentación". Capítulo 3.15*	 Mínimo: 0.06 cm² Calculado: 18.34 cm²	 Cumple
Comprobación de armadura necesaria por cálculo a flexión compuesta: - Situaciones persistentes: - Situaciones accidentales sísmicas: *Ver listado de esfuerzos pésimos en 'Información adicional'.*	 Momento flector: 12.32 kN·m Axil: ± 0.00 kN Momento flector: -11.20 kN·m Axil: ± 0.00 kN 	 Cumple Cumple Cumple
Longitud de anclaje barras superiores origen: *El anclaje se realiza a partir del eje de los pilares* - Situaciones persistentes: - Situaciones accidentales sísmicas:	 Calculado: 24 cm Mínimo: 19 cm Mínimo: 24 cm	 Cumple Cumple
Longitud de anclaje barras inferiores origen: *El anclaje se realiza a partir del eje de los pilares*	 Calculado: 19 cm	

Referencia: VC.S-1 [N23-N25] (Viga centradora)
-Dimensiones: 40.0 cm x 50.0 cm
-Armadura superior: 4Ø16
-Armadura de piel: 1x2Ø12
-Armadura inferior: 4Ø16
-Estribos: 1xØ8c/30

Comprobación	Valores	Estado
- Situaciones persistentes:	Mínimo: 16 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 19 cm	Cumple
Longitud de anclaje de las barras de piel origen: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 18 cm	
- Situaciones persistentes:	Mínimo: 15 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 18 cm	Cumple
Longitud de anclaje barras superiores extremo: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 24 cm	
- Situaciones persistentes:	Mínimo: 19 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 24 cm	Cumple
Longitud de anclaje barras inferiores extremo: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 19 cm	
- Situaciones persistentes:	Mínimo: 16 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 19 cm	Cumple
Longitud de anclaje de las barras de piel extremo: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 18 cm	
- Situaciones persistentes:	Mínimo: 15 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 18 cm	Cumple
Comprobación de cortante: - Situaciones persistentes:	Cortante: 3.62 kN	Cumple
Se cumplen todas las comprobaciones		

Información adicional:

- Diámetro mínimo de la armadura longitudinal (Norma Código Estructural. Artículo A19.9.8.3): Mínimo: 12.0 mm, Calculado: 16.0 mm (Cumple)
- Esfuerzos pésimos:
- Situaciones accidentales sísmicas
- Momento flector: 3.27 kN·m - Axil: ± 0.35 kN (Cumple)
- Momento flector: -3.25 kN·m - Axil: ± 0.35 kN (Cumple)
- Momento flector: 0.00 kN·m - Axil: ± 0.35 kN (Cumple)

Referencia: VC.S-1 [N25-N27] (Viga centradora)
-Dimensiones: 40.0 cm x 50.0 cm
-Armadura superior: 4Ø16
-Armadura de piel: 1x2Ø12
-Armadura inferior: 4Ø16
-Estribos: 1xØ8c/30

Comprobación	Valores	Estado
Diámetro mínimo estribos:	Mínimo: 6 mm Calculado: 8 mm	Cumple
Separación mínima entre estribos: *Norma Código Estructural. Artículo A19.8.2 (2)*	Mínimo: 3.5 cm Calculado: 29.2 cm	Cumple
Separación mínima armadura longitudinal: *Norma Código Estructural. Artículo A19.8.2 (2)*	Mínimo: 3.5 cm	
- Armadura superior:	Calculado: 7.3 cm	Cumple
- Armadura inferior:	Calculado: 7.3 cm	Cumple
- Armadura de piel:	Calculado: 17 cm	Cumple
Separación máxima estribos: *Norma Código Estructural. Artículo A19.9.2.2 (6)*	Máximo: 32.5 cm	
- Situaciones persistentes:	Calculado: 30 cm	Cumple
- Situaciones accidentales sísmicas:	Calculado: 30 cm	Cumple
Recomendación para la separación máxima de estribos en vigas comprimidas por axiles en combinaciones sísmicas: (1) *Al no ser necesaria la armadura longitudinal en compresión, no se aplica el requisito de separación de estribos en barras comprimidas.*		No procede(1)
Separación máxima armadura longitudinal: *Criterio de CYPE*	Máximo: 30 cm	
- Armadura superior:	Calculado: 7.3 cm	Cumple
- Armadura inferior:	Calculado: 7.3 cm	Cumple
- Armadura de piel:	Calculado: 17 cm	Cumple

Referencia: VC.S-1 [N25-N27] (Viga centradora)
-Dimensiones: 40.0 cm x 50.0 cm
-Armadura superior: 4Ø16
-Armadura de piel: 1x2Ø12
-Armadura inferior: 4Ø16
-Estribos: 1xØ8c/30

Comprobación	Valores	Estado
Cuantía mínima para los estribos: - Situaciones persistentes: *Norma Código Estructural. Artículo A19.9.2.2 (5)*	Mínimo: 3.2 cm²/m Calculado: 3.35 cm²/m	Cumple
Cuantía geométrica mínima armadura traccionada: *Norma Código Estructural. Artículo A19.9.2.1.1*	Calculado: 0.004	
- Armadura inferior (Situaciones persistentes):	Mínimo: 0.0012	Cumple
- Armadura superior (Situaciones persistentes):	Mínimo: 0.0012	Cumple
- Armadura inferior (Situaciones accidentales sísmicas):	Mínimo: 0.001	Cumple
- Armadura superior (Situaciones accidentales sísmicas):	Mínimo: 0.001	Cumple
Armadura mínima por cuantía mecánica de flexión compuesta: *Norma Código Estructural. Artículo A19.9.2.1.1*	Calculado: 8.04 cm²	
- Armadura inferior (Situaciones persistentes):	Mínimo: 2.45 cm²	Cumple
- Armadura superior (Situaciones persistentes):	Mínimo: 2.45 cm²	Cumple
- Armadura inferior (Situaciones accidentales sísmicas):	Mínimo: 2.13 cm²	Cumple
- Armadura superior (Situaciones accidentales sísmicas):	Mínimo: 2.13 cm²	Cumple
Armadura mínima por cuantía mecánica de esfuerzos axiles: - Armadura total (Situaciones accidentales sísmicas): *Criterio de CYPE basado en el Artículo 38.4 de la EH-91*	Mínimo: 5.33 cm² Calculado: 18.34 cm²	Cumple
Armadura necesaria por cálculo para el axil de compresión: - Situaciones accidentales sísmicas: *Criterio de CYPE, basado en: J. Calavera. "Cálculo de Estructuras de Cimentación". Capítulo 3.15*	Mínimo: 0 cm² Calculado: 18.34 cm²	Cumple
Armadura necesaria por cálculo para el axil de tracción: - Situaciones accidentales sísmicas: *Criterio de CYPE, basado en: J. Calavera. "Cálculo de Estructuras de Cimentación". Capítulo 3.15*	Mínimo: 0.06 cm² Calculado: 18.34 cm²	Cumple
Comprobación de armadura necesaria por cálculo a flexión compuesta: - Situaciones persistentes: - Situaciones accidentales sísmicas: *Ver listado de esfuerzos pésimos en 'Información adicional'.*	 Momento flector: 12.31 kN·m Axil: ± 0.00 kN Momento flector: -12.32 kN·m Axil: ± 0.00 kN	 Cumple Cumple Cumple
Longitud de anclaje barras superiores origen: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 24 cm	
- Situaciones persistentes:	Mínimo: 19 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 24 cm	Cumple
Longitud de anclaje barras inferiores origen: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 19 cm	
- Situaciones persistentes:	Mínimo: 16 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 19 cm	Cumple
Longitud de anclaje de las barras de piel origen: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 18 cm	
- Situaciones persistentes:	Mínimo: 15 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 18 cm	Cumple
Longitud de anclaje barras superiores extremo: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 24 cm	
- Situaciones persistentes:	Mínimo: 19 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 24 cm	Cumple
Longitud de anclaje barras inferiores extremo: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 19 cm	
- Situaciones persistentes:	Mínimo: 16 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 19 cm	Cumple
Longitud de anclaje de las barras de piel extremo: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 18 cm	
- Situaciones persistentes:	Mínimo: 15 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 18 cm	Cumple
Comprobación de cortante: - Situaciones persistentes:	Cortante: 3.79 kN	Cumple
Se cumplen todas las comprobaciones		

Información adicional:

Referencia: VC.S-1 [N25-N27] (Viga centradora)
-Dimensiones: 40.0 cm x 50.0 cm
-Armadura superior: 4Ø16
-Armadura de piel: 1x2Ø12
-Armadura inferior: 4Ø16
-Estribos: 1xØ8c/30

Comprobación	Valores	Estado
- Diámetro mínimo de la armadura longitudinal (Norma Código Estructural. Artículo A19.9.8.3): Mínimo: 12.0 mm, Calculado: 16.0 mm (Cumple)		
- Esfuerzos pésimos:		
- Situaciones accidentales sísmicas		
- Momento flector: 3.25 kN·m - Axil: ± 0.33 kN (Cumple)		
- Momento flector: -3.27 kN·m - Axil: ± 0.33 kN (Cumple)		
- Momento flector: 0.00 kN·m - Axil: ± 0.34 kN (Cumple)		

Referencia: VC.S-1 [N27-N29] (Viga centradora)
-Dimensiones: 40.0 cm x 50.0 cm
-Armadura superior: 4Ø16
-Armadura de piel: 1x2Ø12
-Armadura inferior: 4Ø16
-Estribos: 1xØ8c/30

Comprobación	Valores	Estado
Diámetro mínimo estribos:	Mínimo: 6 mm Calculado: 8 mm	Cumple
Separación mínima entre estribos: *Norma Código Estructural. Artículo A19.8.2 (2)*	Mínimo: 3.5 cm Calculado: 29.2 cm	Cumple
Separación mínima armadura longitudinal: *Norma Código Estructural. Artículo A19.8.2 (2)*	Mínimo: 3.5 cm	
- Armadura superior:	Calculado: 7.3 cm	Cumple
- Armadura inferior:	Calculado: 7.3 cm	Cumple
- Armadura de piel:	Calculado: 17 cm	Cumple
Separación máxima estribos: *Norma Código Estructural. Artículo A19.9.2.2 (6)*	Máximo: 32.5 cm	
- Situaciones persistentes:	Calculado: 30 cm	Cumple
- Situaciones accidentales sísmicas:	Calculado: 30 cm	Cumple
Recomendación para la separación máxima de estribos en vigas comprimidas por axiles en combinaciones sísmicas: *(1) Al no ser necesaria la armadura longitudinal en compresión, no se aplica el requisito de separación de estribos en barras comprimidas.*		No procede(1)
Separación máxima armadura longitudinal: *Criterio de CYPE*	Máximo: 30 cm	
- Armadura superior:	Calculado: 7.3 cm	Cumple
- Armadura inferior:	Calculado: 7.3 cm	Cumple
- Armadura de piel:	Calculado: 17 cm	Cumple
Cuantía mínima para los estribos: *Norma Código Estructural. Artículo A19.9.2.2 (5)*	Mínimo: 3.2 cm²/m	
- Situaciones persistentes:	Calculado: 3.35 cm²/m	Cumple
- Situaciones accidentales sísmicas:	Calculado: 3.35 cm²/m	Cumple
Cuantía geométrica mínima armadura traccionada: *Norma Código Estructural. Artículo A19.9.2.1.1*	Calculado: 0.004	
- Armadura inferior (Situaciones persistentes):	Mínimo: 0.0012	Cumple
- Armadura superior (Situaciones persistentes):	Mínimo: 0.0012	Cumple
- Armadura inferior (Situaciones accidentales sísmicas):	Mínimo: 0.001	Cumple
- Armadura superior (Situaciones accidentales sísmicas):	Mínimo: 0.001	Cumple
Armadura mínima por cuantía mecánica de flexión compuesta: *Norma Código Estructural. Artículo A19.9.2.1.1*	Calculado: 8.04 cm²	
- Armadura inferior (Situaciones persistentes):	Mínimo: 2.45 cm²	Cumple
- Armadura superior (Situaciones persistentes):	Mínimo: 2.45 cm²	Cumple
- Armadura inferior (Situaciones accidentales sísmicas):	Mínimo: 2.13 cm²	Cumple
- Armadura superior (Situaciones accidentales sísmicas):	Mínimo: 2.13 cm²	Cumple
Armadura mínima por cuantía mecánica de esfuerzos axiles: - Armadura total (Situaciones accidentales sísmicas): *Criterio de CYPE basado en el Artículo 38.4 de la EH-91*	Mínimo: 5.33 cm² Calculado: 18.34 cm²	Cumple
Armadura necesaria por cálculo para el axil de compresión: - Situaciones accidentales sísmicas: *Criterio de CYPE, basado en: J. Calavera. "Cálculo de Estructuras de Cimentación". Capítulo 3.15*	Mínimo: 0 cm² Calculado: 18.34 cm²	Cumple

Referencia: VC.S-1 [N27-N29] (Viga centradora)
-Dimensiones: 40.0 cm x 50.0 cm
-Armadura superior: 4Ø16
-Armadura de piel: 1x2Ø12
-Armadura inferior: 4Ø16
-Estribos: 1xØ8c/30

Comprobación	Valores	Estado
Armadura necesaria por cálculo para el axil de tracción: - Situaciones accidentales sísmicas: *Criterio de CYPE, basado en: J. Calavera. "Cálculo de Estructuras de Cimentación". Capítulo 3.15*	Mínimo: 0.05 cm² Calculado: 18.34 cm²	Cumple
Comprobación de armadura necesaria por cálculo a flexión compuesta:		
- Situaciones persistentes:	Momento flector: 11.79 kN·m Axil: ± 0.00 kN	Cumple
	Momento flector: -22.32 kN·m Axil: ± 0.00 kN	Cumple
- Situaciones accidentales sísmicas: *Ver listado de esfuerzos pésimos en 'Información adicional'.*		Cumple
Longitud de anclaje barras superiores origen: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 24 cm	
- Situaciones persistentes:	Mínimo: 19 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 24 cm	Cumple
Longitud de anclaje barras inferiores origen: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 19 cm	
- Situaciones persistentes:	Mínimo: 16 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 19 cm	Cumple
Longitud de anclaje de las barras de piel origen: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 18 cm	
- Situaciones persistentes:	Mínimo: 15 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 18 cm	Cumple
Longitud de anclaje barras superiores extremo: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 24 cm	
- Situaciones persistentes:	Mínimo: 19 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 24 cm	Cumple
Longitud de anclaje barras inferiores extremo: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 19 cm	
- Situaciones persistentes:	Mínimo: 16 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 19 cm	Cumple
Longitud de anclaje de las barras de piel extremo: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 18 cm	
- Situaciones persistentes:	Mínimo: 15 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 18 cm	Cumple
Comprobación de cortante:		
- Situaciones persistentes:	Cortante: 4.85 kN	Cumple
- Situaciones accidentales sísmicas:	Cortante: 1.14 kN	Cumple
Se cumplen todas las comprobaciones		

Información adicional:

- Diámetro mínimo de la armadura longitudinal (Norma Código Estructural. Artículo A19.9.8.3): Mínimo: 12.0 mm, Calculado: 16.0 mm (Cumple)
- Esfuerzos pésimos:
- Situaciones accidentales sísmicas
- Momento flector: 3.16 kN·m - Axil: ± 0.30 kN (Cumple)
- Momento flector: -7.42 kN·m - Axil: ± 0.30 kN (Cumple)
- Momento flector: 0.00 kN·m - Axil: ± 0.30 kN (Cumple)

Referencia: VC.S-1 [N29-N1695] (Viga centradora)
-Dimensiones: 40.0 cm x 50.0 cm
-Armadura superior: 4Ø16
-Armadura de piel: 1x2Ø12
-Armadura inferior: 4Ø16
-Estribos: 1xØ8c/30

Comprobación	Valores	Estado
Diámetro mínimo estribos:	Mínimo: 6 mm Calculado: 8 mm	Cumple
Separación mínima entre estribos: *Norma Código Estructural. Artículo A19.8.2 (2)*	Mínimo: 3.5 cm Calculado: 29.2 cm	Cumple

Referencia: VC.S-1 [N29-N1695] (Viga centradora)
-Dimensiones: 40.0 cm x 50.0 cm
-Armadura superior: 4Ø16
-Armadura de piel: 1x2Ø12
-Armadura inferior: 4Ø16
-Estribos: 1xØ8c/30

Comprobación	Valores	Estado
Separación mínima armadura longitudinal: *Norma Código Estructural. Artículo A19.8.2 (2)*	Mínimo: 3.5 cm	
- Armadura superior:	Calculado: 7.3 cm	Cumple
- Armadura inferior:	Calculado: 7.3 cm	Cumple
- Armadura de piel:	Calculado: 17 cm	Cumple
Separación máxima estribos: *Norma Código Estructural. Artículo A19.9.2.2 (6)*	Máximo: 32.5 cm	
- Situaciones persistentes:	Calculado: 30 cm	Cumple
- Situaciones accidentales sísmicas:	Calculado: 30 cm	Cumple
Recomendación para la separación máxima de estribos en vigas comprimidas por axiles en combinaciones sísmicas: *(1) Al no ser necesaria la armadura longitudinal en compresión, no se aplica el requisito de separación de estribos en barras comprimidas.*		No procede(1)
Separación máxima armadura longitudinal: *Criterio de CYPE*	Máximo: 30 cm	
- Armadura superior:	Calculado: 7.3 cm	Cumple
- Armadura inferior:	Calculado: 7.3 cm	Cumple
- Armadura de piel:	Calculado: 17 cm	Cumple
Cuantía mínima para los estribos: *Norma Código Estructural. Artículo A19.9.2.2 (5)*	Mínimo: 3.2 cm²/m	
- Situaciones persistentes:	Calculado: 3.35 cm²/m	Cumple
- Situaciones accidentales sísmicas:	Calculado: 3.35 cm²/m	Cumple
Cuantía geométrica mínima armadura traccionada: *Norma Código Estructural. Artículo A19.9.2.1.1*	Calculado: 0.004	
- Armadura inferior (Situaciones persistentes):	Mínimo: 0.0012	Cumple
- Armadura superior (Situaciones persistentes):	Mínimo: 0.0012	Cumple
- Armadura inferior (Situaciones accidentales sísmicas):	Mínimo: 0.001	Cumple
- Armadura superior (Situaciones accidentales sísmicas):	Mínimo: 0.001	Cumple
Armadura mínima por cuantía mecánica de flexión compuesta: *Norma Código Estructural. Artículo A19.9.2.1.1*	Calculado: 8.04 cm²	
- Armadura inferior (Situaciones persistentes):	Mínimo: 2.45 cm²	Cumple
- Armadura superior (Situaciones persistentes):	Mínimo: 2.45 cm²	Cumple
- Armadura inferior (Situaciones accidentales sísmicas):	Mínimo: 2.13 cm²	Cumple
- Armadura superior (Situaciones accidentales sísmicas):	Mínimo: 2.13 cm²	Cumple
Armadura mínima por cuantía mecánica de esfuerzos axiles: - Armadura total (Situaciones accidentales sísmicas): *Criterio de CYPE basado en el Artículo 38.4 de la EH-91*	Mínimo: 5.33 cm² Calculado: 18.34 cm²	Cumple
Armadura necesaria por cálculo para el axil de compresión: - Situaciones accidentales sísmicas: *Criterio de CYPE, basado en: J. Calavera. "Cálculo de Estructuras de Cimentación". Capítulo 3.15*	Mínimo: 0 cm² Calculado: 18.34 cm²	Cumple
Armadura necesaria por cálculo para el axil de tracción: - Situaciones accidentales sísmicas: *Criterio de CYPE, basado en: J. Calavera. "Cálculo de Estructuras de Cimentación". Capítulo 3.15*	Mínimo: 0.05 cm² Calculado: 18.34 cm²	Cumple
Comprobación de armadura necesaria por cálculo a flexión compuesta:		
- Situaciones persistentes:	Momento flector: 64.05 kN·m Axil: ± 0.00 kN Momento flector: -33.09 kN·m Axil: ± 0.00 kN	Cumple Cumple
- Situaciones accidentales sísmicas: *Ver listado de esfuerzos pésimos en 'Información adicional'.*		Cumple
Longitud de anclaje barras superiores origen: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 26 cm	
- Situaciones persistentes:	Mínimo: 25 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 24 cm	Cumple
Longitud de anclaje barras inferiores origen: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 19 cm	
- Situaciones persistentes:	Mínimo: 17 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 19 cm	Cumple

Referencia: VC.S-1 [N29-N1695] (Viga centradora)
-Dimensiones: 40.0 cm x 50.0 cm
-Armadura superior: 4Ø16
-Armadura de piel: 1x2Ø12
-Armadura inferior: 4Ø16
-Estribos: 1xØ8c/30

Comprobación	Valores	Estado
Longitud de anclaje de las barras de piel origen: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 20 cm	
- Situaciones persistentes:	Mínimo: 19 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 18 cm	Cumple
Longitud de anclaje barras superiores extremo: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 26 cm	
- Situaciones persistentes:	Mínimo: 25 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 24 cm	Cumple
Longitud de anclaje barras inferiores extremo: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 19 cm	
- Situaciones persistentes:	Mínimo: 17 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 19 cm	Cumple
Longitud de anclaje de las barras de piel extremo: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 20 cm	
- Situaciones persistentes:	Mínimo: 19 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 18 cm	Cumple
Comprobación de cortante:		
- Situaciones persistentes:	Cortante: 14.69 kN	Cumple
- Situaciones accidentales sísmicas:	Cortante: 3.06 kN	Cumple
Se cumplen todas las comprobaciones		

Información adicional:

- Diámetro mínimo de la armadura longitudinal (Norma Código Estructural. Artículo A19.9.8.3): Mínimo: 12.0 mm, Calculado: 16.0 mm (Cumple)
- Esfuerzos pésimos:
- Situaciones accidentales sísmicas
- Momento flector: 15.75 kN·m - Axil: ± 0.27 kN (Cumple)
- Momento flector: -5.91 kN·m - Axil: ± 0.19 kN (Cumple)
- Momento flector: 15.67 kN·m - Axil: ± 0.27 kN (Cumple)
- Momento flector: -2.73 kN·m - Axil: ± 0.27 kN (Cumple)

Referencia: VC.S-1 [N1695-N1704] (Viga centradora)
-Dimensiones: 40.0 cm x 50.0 cm
-Armadura superior: 4Ø16
-Armadura de piel: 1x2Ø12
-Armadura inferior: 4Ø16
-Estribos: 1xØ8c/30

Comprobación	Valores	Estado
Diámetro mínimo estribos:	Mínimo: 6 mm Calculado: 8 mm	Cumple
Separación mínima entre estribos: *Norma Código Estructural. Artículo A19.8.2 (2)*	Mínimo: 3.5 cm Calculado: 29.2 cm	Cumple
Separación mínima armadura longitudinal: *Norma Código Estructural. Artículo A19.8.2 (2)*	Mínimo: 3.5 cm	
- Armadura superior:	Calculado: 7.3 cm	Cumple
- Armadura inferior:	Calculado: 7.3 cm	Cumple
- Armadura de piel:	Calculado: 17 cm	Cumple
Separación máxima estribos: *Norma Código Estructural. Artículo A19.9.2.2 (6)*	Máximo: 32.5 cm	
- Situaciones persistentes:	Calculado: 30 cm	Cumple
- Situaciones accidentales sísmicas:	Calculado: 30 cm	Cumple
Recomendación para la separación máxima de estribos en vigas comprimidas por axiles en combinaciones sísmicas: *(1) Al no ser necesaria la armadura longitudinal en compresión, no se aplica el requisito de separación de estribos en barras comprimidas.*		No procede(1)
Separación máxima armadura longitudinal: *Criterio de CYPE*	Máximo: 30 cm	
- Armadura superior:	Calculado: 7.3 cm	Cumple
- Armadura inferior:	Calculado: 7.3 cm	Cumple
- Armadura de piel:	Calculado: 17 cm	Cumple

Referencia: VC.S-1 [N1695-N1704] (Viga centradora)
-Dimensiones: 40.0 cm x 50.0 cm
-Armadura superior: 4Ø16
-Armadura de piel: 1x2Ø12
-Armadura inferior: 4Ø16
-Estribos: 1xØ8c/30

Comprobación	Valores	Estado
Cuantía mínima para los estribos: *Norma Código Estructural. Artículo A19.9.2.2 (5)*	Mínimo: 3.2 cm²/m	
- Situaciones persistentes:	Calculado: 3.35 cm²/m	Cumple
- Situaciones accidentales sísmicas:	Calculado: 3.35 cm²/m	Cumple
Cuantía geométrica mínima armadura traccionada: *Norma Código Estructural. Artículo A19.9.2.1.1*	Calculado: 0.004	
- Armadura inferior (Situaciones persistentes):	Mínimo: 0.0012	Cumple
- Armadura superior (Situaciones persistentes):	Mínimo: 0.0012	Cumple
- Armadura inferior (Situaciones accidentales sísmicas):	Mínimo: 0.001	Cumple
- Armadura superior (Situaciones accidentales sísmicas):	Mínimo: 0.001	Cumple
Armadura mínima por cuantía mecánica de flexión compuesta: *Norma Código Estructural. Artículo A19.9.2.1.1*	Calculado: 8.04 cm²	
- Armadura inferior (Situaciones persistentes):	Mínimo: 2.45 cm²	Cumple
- Armadura superior (Situaciones persistentes):	Mínimo: 2.45 cm²	Cumple
- Armadura inferior (Situaciones accidentales sísmicas):	Mínimo: 2.13 cm²	Cumple
- Armadura superior (Situaciones accidentales sísmicas):	Mínimo: 2.13 cm²	Cumple
Armadura mínima por cuantía mecánica de esfuerzos axiles: - Armadura total (Situaciones accidentales sísmicas): *Criterio de CYPE basado en el Artículo 38.4 de la EH-91*	Mínimo: 5.33 cm² Calculado: 18.34 cm²	Cumple
Armadura necesaria por cálculo para el axil de compresión: - Situaciones accidentales sísmicas: *Criterio de CYPE, basado en: J. Calavera. "Cálculo de Estructuras de Cimentación". Capítulo 3.15*	Mínimo: 0 cm² Calculado: 18.34 cm²	Cumple
Armadura necesaria por cálculo para el axil de tracción: - Situaciones accidentales sísmicas: *Criterio de CYPE, basado en: J. Calavera. "Cálculo de Estructuras de Cimentación". Capítulo 3.15*	Mínimo: 0.03 cm² Calculado: 18.34 cm²	Cumple
Comprobación de armadura necesaria por cálculo a flexión compuesta:		
- Situaciones persistentes:	Momento flector: 70.22 kN·m Axil: ± 0.00 kN Momento flector: -54.96 kN·m Axil: ± 0.00 kN	Cumple Cumple
- Situaciones accidentales sísmicas: *Ver listado de esfuerzos pésimos en 'Información adicional'.*		Cumple
Longitud de anclaje barras superiores origen: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 28 cm	
- Situaciones persistentes:	Mínimo: 27 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 24 cm	Cumple
Longitud de anclaje barras inferiores origen: *El anclaje se realiza a partir del eje de los pilares*	Mínimo: 19 cm	
- Situaciones persistentes:	Calculado: 20 cm	Cumple
- Situaciones accidentales sísmicas:	Calculado: 20 cm	Cumple
Longitud de anclaje de las barras de piel origen: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 21 cm	
- Situaciones persistentes:	Mínimo: 20 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 18 cm	Cumple
Longitud de anclaje barras superiores extremo: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 28 cm	
- Situaciones persistentes:	Mínimo: 27 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 24 cm	Cumple
Longitud de anclaje barras inferiores extremo: *El anclaje se realiza a partir del eje de los pilares*	Mínimo: 19 cm	
- Situaciones persistentes:	Calculado: 20 cm	Cumple
- Situaciones accidentales sísmicas:	Calculado: 20 cm	Cumple
Longitud de anclaje de las barras de piel extremo: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 21 cm	
- Situaciones persistentes:	Mínimo: 20 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 18 cm	Cumple
Comprobación de cortante:		
- Situaciones persistentes:	Cortante: 21.62 kN	Cumple

Referencia: VC.S-1 [N1695-N1704] (Viga centradora)
-Dimensiones: 40.0 cm x 50.0 cm
-Armadura superior: 4Ø16
-Armadura de piel: 1x2Ø12
-Armadura inferior: 4Ø16
-Estribos: 1xØ8c/30

Comprobación	Valores	Estado
- Situaciones accidentales sísmicas:	Cortante: 3.13 kN	Cumple
Se cumplen todas las comprobaciones		

Información adicional:

- Diámetro mínimo de la armadura longitudinal (Norma Código Estructural. Artículo A19.9.8.3): Mínimo: 12.0 mm, Calculado: 16.0 mm (Cumple)
- Esfuerzos pésimos:
- Situaciones accidentales sísmicas
- Momento flector: 15.67 kN·m - Axil: ± 0.10 kN (Cumple)
- Momento flector: -7.76 kN·m - Axil: ± 0.16 kN (Cumple)
- Momento flector: 8.70 kN·m - Axil: ± 0.17 kN (Cumple)
- Momento flector: -7.33 kN·m - Axil: ± 0.17 kN (Cumple)

Referencia: VC.S-1 [N1704-N1701] (Viga centradora)
-Dimensiones: 40.0 cm x 50.0 cm
-Armadura superior: 4Ø16
-Armadura de piel: 1x2Ø12
-Armadura inferior: 4Ø16
-Estribos: 1xØ8c/30

Comprobación	Valores	Estado
Diámetro mínimo estribos:	Mínimo: 6 mm Calculado: 8 mm	Cumple
Separación mínima entre estribos: *Norma Código Estructural. Artículo A19.8.2 (2)*	Mínimo: 3.5 cm Calculado: 29.2 cm	Cumple
Separación mínima armadura longitudinal: *Norma Código Estructural. Artículo A19.8.2 (2)*	Mínimo: 3.5 cm	
- Armadura superior:	Calculado: 7.3 cm	Cumple
- Armadura inferior:	Calculado: 7.3 cm	Cumple
- Armadura de piel:	Calculado: 17 cm	Cumple
Separación máxima estribos: *Norma Código Estructural. Artículo A19.9.2.2 (6)*	Máximo: 32.5 cm	
- Situaciones persistentes:	Calculado: 30 cm	Cumple
- Situaciones accidentales sísmicas:	Calculado: 30 cm	Cumple
Recomendación para la separación máxima de estribos en vigas comprimidas por axiles en combinaciones sísmicas: *(1) Al no ser necesaria la armadura longitudinal en compresión, no se aplica el requisito de separación de estribos en barras comprimidas.*		No procede(1)
Separación máxima armadura longitudinal: *Criterio de CYPE*	Máximo: 30 cm	
- Armadura superior:	Calculado: 7.3 cm	Cumple
- Armadura inferior:	Calculado: 7.3 cm	Cumple
- Armadura de piel:	Calculado: 17 cm	Cumple
Cuantía mínima para los estribos: *Norma Código Estructural. Artículo A19.9.2.2 (5)*	Mínimo: 3.2 cm²/m	
- Situaciones persistentes:	Calculado: 3.35 cm²/m	Cumple
- Situaciones accidentales sísmicas:	Calculado: 3.35 cm²/m	Cumple
Cuantía geométrica mínima armadura traccionada: *Norma Código Estructural. Artículo A19.9.2.1.1*	Calculado: 0.004	
- Armadura inferior (Situaciones persistentes):	Mínimo: 0.0012	Cumple
- Armadura superior (Situaciones persistentes):	Mínimo: 0.0012	Cumple
- Armadura inferior (Situaciones accidentales sísmicas):	Mínimo: 0.001	Cumple
- Armadura superior (Situaciones accidentales sísmicas):	Mínimo: 0.001	Cumple
Armadura mínima por cuantía mecánica de flexión compuesta: *Norma Código Estructural. Artículo A19.9.2.1.1*	Calculado: 8.04 cm²	
- Armadura inferior (Situaciones persistentes):	Mínimo: 2.45 cm²	Cumple
- Armadura superior (Situaciones persistentes):	Mínimo: 2.45 cm²	Cumple
- Armadura inferior (Situaciones accidentales sísmicas):	Mínimo: 2.13 cm²	Cumple
- Armadura superior (Situaciones accidentales sísmicas):	Mínimo: 2.13 cm²	Cumple
Armadura mínima por cuantía mecánica de esfuerzos axiles: - Armadura total (Situaciones accidentales sísmicas): *Criterio de CYPE basado en el Artículo 38.4 de la EH-91*	Mínimo: 5.33 cm² Calculado: 18.34 cm²	Cumple

Referencia: VC.S-1 [N1704-N1701] (Viga centradora)
-Dimensiones: 40.0 cm x 50.0 cm
-Armadura superior: 4Ø16
-Armadura de piel: 1x2Ø12
-Armadura inferior: 4Ø16
-Estribos: 1xØ8c/30

Comprobación	Valores	Estado
Armadura necesaria por cálculo para el axil de compresión:		
- Situaciones accidentales sísmicas: *Criterio de CYPE, basado en: J. Calavera. "Cálculo de Estructuras de Cimentación". Capítulo 3.15*	Mínimo: 0 cm² Calculado: 18.34 cm²	Cumple
Armadura necesaria por cálculo para el axil de tracción:		
- Situaciones accidentales sísmicas: *Criterio de CYPE, basado en: J. Calavera. "Cálculo de Estructuras de Cimentación". Capítulo 3.15*	Mínimo: 0.02 cm² Calculado: 18.34 cm²	Cumple
Comprobación de armadura necesaria por cálculo a flexión compuesta:		
- Situaciones persistentes:	Momento flector: 27.23 kN·m Axil: ± 0.00 kN	Cumple
	Momento flector: -55.85 kN·m Axil: ± 0.00 kN	Cumple
- Situaciones accidentales sísmicas: *Ver listado de esfuerzos pésimos en 'Información adicional'.*		Cumple
Longitud de anclaje barras superiores origen: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 24 cm	
- Situaciones persistentes:	Mínimo: 22 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 24 cm	Cumple
Longitud de anclaje barras inferiores origen: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 19 cm	
- Situaciones persistentes:	Mínimo: 16 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 19 cm	Cumple
Longitud de anclaje de las barras de piel origen: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 18 cm	
- Situaciones persistentes:	Mínimo: 16 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 18 cm	Cumple
Longitud de anclaje barras superiores extremo: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 24 cm	
- Situaciones persistentes:	Mínimo: 22 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 24 cm	Cumple
Longitud de anclaje barras inferiores extremo: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 19 cm	
- Situaciones persistentes:	Mínimo: 16 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 19 cm	Cumple
Longitud de anclaje de las barras de piel extremo: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 18 cm	
- Situaciones persistentes:	Mínimo: 16 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 18 cm	Cumple
Comprobación de cortante:		
- Situaciones persistentes:	Cortante: 16.29 kN	Cumple
- Situaciones accidentales sísmicas:	Cortante: 1.71 kN	Cumple

Se cumplen todas las comprobaciones

Información adicional:

- Diámetro mínimo de la armadura longitudinal (Norma Código Estructural. Artículo A19.9.8.3): Mínimo: 12.0 mm, Calculado: 16.0 mm (Cumple)
- Esfuerzos pésimos:
- Situaciones accidentales sísmicas
- Momento flector: 4.68 kN·m - Axil: ± 0.13 kN (Cumple)
- Momento flector: -8.70 kN·m - Axil: ± 0.13 kN (Cumple)
- Momento flector: 4.15 kN·m - Axil: ± 0.15 kN (Cumple)

Referencia: VC.S-1 [N1701-N1698] (Viga centradora)
-Dimensiones: 40.0 cm x 50.0 cm
-Armadura superior: 4Ø16
-Armadura de piel: 1x2Ø12
-Armadura inferior: 4Ø16
-Estribos: 1xØ8c/30

Comprobación	Valores	Estado
Diámetro mínimo estribos:	Mínimo: 6 mm Calculado: 8 mm	Cumple

Referencia: VC.S-1 [N1701-N1698] (Viga centradora)
-Dimensiones: 40.0 cm x 50.0 cm
-Armadura superior: 4Ø16
-Armadura de piel: 1x2Ø12
-Armadura inferior: 4Ø16
-Estribos: 1xØ8c/30

Comprobación	Valores	Estado
Separación mínima entre estribos: *Norma Código Estructural. Artículo A19.8.2 (2)*	Mínimo: 3.5 cm Calculado: 29.2 cm	Cumple
Separación mínima armadura longitudinal: *Norma Código Estructural. Artículo A19.8.2 (2)*	Mínimo: 3.5 cm	
- Armadura superior:	Calculado: 7.3 cm	Cumple
- Armadura inferior:	Calculado: 7.3 cm	Cumple
- Armadura de piel:	Calculado: 17 cm	Cumple
Separación máxima estribos: *Norma Código Estructural. Artículo A19.9.2.2 (6)*	Máximo: 32.5 cm	
- Situaciones persistentes:	Calculado: 30 cm	Cumple
- Situaciones accidentales sísmicas:	Calculado: 30 cm	Cumple
Recomendación para la separación máxima de estribos en vigas comprimidas por axiles en combinaciones sísmicas: *(1) Al no ser necesaria la armadura longitudinal en compresión, no se aplica el requisito de separación de estribos en barras comprimidas.*		No procede(1)
Separación máxima armadura longitudinal: *Criterio de CYPE*	Máximo: 30 cm	
- Armadura superior:	Calculado: 7.3 cm	Cumple
- Armadura inferior:	Calculado: 7.3 cm	Cumple
- Armadura de piel:	Calculado: 17 cm	Cumple
Cuantía mínima para los estribos: *Norma Código Estructural. Artículo A19.9.2.2 (5)*	Mínimo: 3.2 cm²/m	
- Situaciones persistentes:	Calculado: 3.35 cm²/m	Cumple
- Situaciones accidentales sísmicas:	Calculado: 3.35 cm²/m	Cumple
Cuantía geométrica mínima armadura traccionada: *Norma Código Estructural. Artículo A19.9.2.1.1*	Calculado: 0.004	
- Armadura inferior (Situaciones persistentes):	Mínimo: 0.0012	Cumple
- Armadura superior (Situaciones persistentes):	Mínimo: 0.0012	Cumple
- Armadura inferior (Situaciones accidentales sísmicas):	Mínimo: 0.001	Cumple
- Armadura superior (Situaciones accidentales sísmicas):	Mínimo: 0.001	Cumple
Armadura mínima por cuantía mecánica de flexión compuesta: *Norma Código Estructural. Artículo A19.9.2.1.1*	Calculado: 8.04 cm²	
- Armadura inferior (Situaciones persistentes):	Mínimo: 2.45 cm²	Cumple
- Armadura superior (Situaciones persistentes):	Mínimo: 2.45 cm²	Cumple
- Armadura inferior (Situaciones accidentales sísmicas):	Mínimo: 2.13 cm²	Cumple
- Armadura superior (Situaciones accidentales sísmicas):	Mínimo: 2.13 cm²	Cumple
Armadura mínima por cuantía mecánica de esfuerzos axiles:		
- Armadura total (Situaciones accidentales sísmicas): *Criterio de CYPE basado en el Artículo 38.4 de la EH-91*	Mínimo: 5.33 cm² Calculado: 18.34 cm²	Cumple
Armadura necesaria por cálculo para el axil de compresión:		
- Situaciones accidentales sísmicas: *Criterio de CYPE, basado en: J. Calavera. "Cálculo de Estructuras de Cimentación". Capítulo 3.15*	Mínimo: 0 cm² Calculado: 18.34 cm²	Cumple
Armadura necesaria por cálculo para el axil de tracción:		
- Situaciones accidentales sísmicas: *Criterio de CYPE, basado en: J. Calavera. "Cálculo de Estructuras de Cimentación". Capítulo 3.15*	Mínimo: 0.02 cm² Calculado: 18.34 cm²	Cumple
Comprobación de armadura necesaria por cálculo a flexión compuesta:		
- Situaciones persistentes:	Momento flector: 26.48 kN·m Axil: ± 0.00 kN	Cumple
	Momento flector: -36.11 kN·m Axil: ± 0.00 kN	Cumple
- Situaciones accidentales sísmicas: *Ver listado de esfuerzos pésimos en 'Información adicional'.*		Cumple
Longitud de anclaje barras superiores origen: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 24 cm	
- Situaciones persistentes:	Mínimo: 19 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 24 cm	Cumple
Longitud de anclaje barras inferiores origen: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 19 cm	
- Situaciones persistentes:	Mínimo: 16 cm	Cumple

Referencia: VC.S-1 [N1701-N1698] (Viga centradora)
-Dimensiones: 40.0 cm x 50.0 cm
-Armadura superior: 4Ø16
-Armadura de piel: 1x2Ø12
-Armadura inferior: 4Ø16
-Estribos: 1xØ8c/30

Comprobación	Valores	Estado
- Situaciones accidentales sísmicas:	Mínimo: 19 cm	Cumple
Longitud de anclaje de las barras de piel origen: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 18 cm	
- Situaciones persistentes:	Mínimo: 15 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 18 cm	Cumple
Longitud de anclaje barras superiores extremo: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 24 cm	
- Situaciones persistentes:	Mínimo: 19 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 24 cm	Cumple
Longitud de anclaje barras inferiores extremo: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 19 cm	
- Situaciones persistentes:	Mínimo: 16 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 19 cm	Cumple
Longitud de anclaje de las barras de piel extremo: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 18 cm	
- Situaciones persistentes:	Mínimo: 15 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 18 cm	Cumple
Comprobación de cortante:		
- Situaciones persistentes:	Cortante: 10.57 kN	Cumple
- Situaciones accidentales sísmicas:	Cortante: 1.71 kN	Cumple
Se cumplen todas las comprobaciones		

Información adicional:

- Diámetro mínimo de la armadura longitudinal (Norma Código Estructural. Artículo A19.9.8.3): Mínimo: 12.0 mm, Calculado: 16.0 mm (Cumple)
- Esfuerzos pésimos:
- Situaciones accidentales sísmicas
- Momento flector: 4.65 kN·m - Axil: ± 0.13 kN (Cumple)
- Momento flector: -8.70 kN·m - Axil: ± 0.13 kN (Cumple)
- Momento flector: 4.15 kN·m - Axil: ± 0.15 kN (Cumple)

Referencia: VC.S-1 [N1698-N1692] (Viga centradora)
-Dimensiones: 40.0 cm x 50.0 cm
-Armadura superior: 4Ø16
-Armadura de piel: 1x2Ø12
-Armadura inferior: 4Ø16
-Estribos: 1xØ8c/30

Comprobación	Valores	Estado
Diámetro mínimo estribos:	Mínimo: 6 mm Calculado: 8 mm	Cumple
Separación mínima entre estribos: *Norma Código Estructural. Artículo A19.8.2 (2)*	Mínimo: 3.5 cm Calculado: 29.2 cm	Cumple
Separación mínima armadura longitudinal: *Norma Código Estructural. Artículo A19.8.2 (2)*	Mínimo: 3.5 cm	
- Armadura superior:	Calculado: 7.3 cm	Cumple
- Armadura inferior:	Calculado: 7.3 cm	Cumple
- Armadura de piel:	Calculado: 17 cm	Cumple
Separación máxima estribos: *Norma Código Estructural. Artículo A19.9.2.2 (6)*	Máximo: 32.5 cm	
- Situaciones persistentes:	Calculado: 30 cm	Cumple
- Situaciones accidentales sísmicas:	Calculado: 30 cm	Cumple
Recomendación para la separación máxima de estribos en vigas comprimidas por axiles en combinaciones sísmicas: *(1) Al no ser necesaria la armadura longitudinal en compresión, no se aplica el requisito de separación de estribos en barras comprimidas.*		No procede(1)
Separación máxima armadura longitudinal: *Criterio de CYPE*	Máximo: 30 cm	
- Armadura superior:	Calculado: 7.3 cm	Cumple
- Armadura inferior:	Calculado: 7.3 cm	Cumple
- Armadura de piel:	Calculado: 17 cm	Cumple

Referencia: VC.S-1 [N1698-N1692] (Viga centradora)
-Dimensiones: 40.0 cm x 50.0 cm
-Armadura superior: 4Ø16
-Armadura de piel: 1x2Ø12
-Armadura inferior: 4Ø16
-Estribos: 1xØ8c/30

Comprobación	Valores	Estado
Cuantía mínima para los estribos: *Norma Código Estructural. Artículo A19.9.2.2 (5)*	Mínimo: 3.2 cm²/m	
- Situaciones persistentes:	Calculado: 3.35 cm²/m	Cumple
- Situaciones accidentales sísmicas:	Calculado: 3.35 cm²/m	Cumple
Cuantía geométrica mínima armadura traccionada: *Norma Código Estructural. Artículo A19.9.2.1.1*	Calculado: 0.004	
- Armadura inferior (Situaciones persistentes):	Mínimo: 0.0012	Cumple
- Armadura superior (Situaciones persistentes):	Mínimo: 0.0012	Cumple
- Armadura inferior (Situaciones accidentales sísmicas):	Mínimo: 0.001	Cumple
- Armadura superior (Situaciones accidentales sísmicas):	Mínimo: 0.001	Cumple
Armadura mínima por cuantía mecánica de flexión compuesta: *Norma Código Estructural. Artículo A19.9.2.1.1*	Calculado: 8.04 cm²	
- Armadura inferior (Situaciones persistentes):	Mínimo: 2.45 cm²	Cumple
- Armadura superior (Situaciones persistentes):	Mínimo: 2.45 cm²	Cumple
- Armadura inferior (Situaciones accidentales sísmicas):	Mínimo: 2.13 cm²	Cumple
- Armadura superior (Situaciones accidentales sísmicas):	Mínimo: 2.13 cm²	Cumple
Armadura mínima por cuantía mecánica de esfuerzos axiles: - Armadura total (Situaciones accidentales sísmicas): *Criterio de CYPE basado en el Artículo 38.4 de la EH-91*	Mínimo: 5.33 cm² Calculado: 18.34 cm²	Cumple
Armadura necesaria por cálculo para el axil de compresión: - Situaciones accidentales sísmicas: *Criterio de CYPE, basado en: J. Calavera. "Cálculo de Estructuras de Cimentación". Capítulo 3.15*	Mínimo: 0 cm² Calculado: 18.34 cm²	Cumple
Armadura necesaria por cálculo para el axil de tracción: - Situaciones accidentales sísmicas: *Criterio de CYPE, basado en: J. Calavera. "Cálculo de Estructuras de Cimentación". Capítulo 3.15*	Mínimo: 0.03 cm² Calculado: 18.34 cm²	Cumple
Comprobación de armadura necesaria por cálculo a flexión compuesta:		
- Situaciones persistentes:	Momento flector: 102.32 kN·m Axil: ± 0.00 kN Momento flector: -33.35 kN·m Axil: ± 0.00 kN	Cumple Cumple
- Situaciones accidentales sísmicas: *Ver listado de esfuerzos pésimos en 'Información adicional'.*		Cumple
Longitud de anclaje barras superiores origen: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 41 cm	
- Situaciones persistentes:	Mínimo: 40 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 24 cm	Cumple
Longitud de anclaje barras inferiores origen: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 29 cm	
- Situaciones persistentes:	Mínimo: 28 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 19 cm	Cumple
Longitud de anclaje de las barras de piel origen: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 31 cm	
- Situaciones persistentes:	Mínimo: 30 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 18 cm	Cumple
Longitud de anclaje barras superiores extremo: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 41 cm	
- Situaciones persistentes:	Mínimo: 40 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 24 cm	Cumple
Longitud de anclaje barras inferiores extremo: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 29 cm	
- Situaciones persistentes:	Mínimo: 28 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 19 cm	Cumple
Longitud de anclaje de las barras de piel extremo: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 31 cm	
- Situaciones persistentes:	Mínimo: 30 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 18 cm	Cumple
Comprobación de cortante:		
- Situaciones persistentes:	Cortante: 25.05 kN	Cumple

Referencia: VC.S-1 [N1698-N1692] (Viga centradora)
-Dimensiones: 40.0 cm x 50.0 cm
-Armadura superior: 4Ø16
-Armadura de piel: 1x2Ø12
-Armadura inferior: 4Ø16
-Estribos: 1xØ8c/30

Comprobación	Valores	Estado
- Situaciones accidentales sísmicas:	Cortante: 3.13 kN	Cumple
Se cumplen todas las comprobaciones		

Información adicional:

- Diámetro mínimo de la armadura longitudinal (Norma Código Estructural. Artículo A19.9.8.3): Mínimo: 12.0 mm, Calculado: 16.0 mm (Cumple)
- Esfuerzos pésimos:
- Situaciones accidentales sísmicas
- Momento flector: 15.61 kN·m - Axil: ± 0.10 kN (Cumple)
- Momento flector: -7.72 kN·m - Axil: ± 0.16 kN (Cumple)
- Momento flector: 8.70 kN·m - Axil: ± 0.17 kN (Cumple)
- Momento flector: -7.32 kN·m - Axil: ± 0.17 kN (Cumple)

Referencia: VC.S-1 [N1692-N11] (Viga centradora)
-Dimensiones: 40.0 cm x 50.0 cm
-Armadura superior: 4Ø16
-Armadura de piel: 1x2Ø12
-Armadura inferior: 4Ø16
-Estribos: 1xØ8c/30

Comprobación	Valores	Estado
Diámetro mínimo estribos:	Mínimo: 6 mm Calculado: 8 mm	Cumple
Separación mínima entre estribos: *Norma Código Estructural. Artículo A19.8.2 (2)*	Mínimo: 3.5 cm Calculado: 29.2 cm	Cumple
Separación mínima armadura longitudinal: *Norma Código Estructural. Artículo A19.8.2 (2)*	Mínimo: 3.5 cm	
- Armadura superior:	Calculado: 7.3 cm	Cumple
- Armadura inferior:	Calculado: 7.3 cm	Cumple
- Armadura de piel:	Calculado: 17 cm	Cumple
Separación máxima estribos: *Norma Código Estructural. Artículo A19.9.2.2 (6)*	Máximo: 32.5 cm	
- Situaciones persistentes:	Calculado: 30 cm	Cumple
- Situaciones accidentales sísmicas:	Calculado: 30 cm	Cumple
Recomendación para la separación máxima de estribos en vigas comprimidas por axiles en combinaciones sísmicas: *(1) Al no ser necesaria la armadura longitudinal en compresión, no se aplica el requisito de separación de estribos en barras comprimidas.*		No procede(1)
Separación máxima armadura longitudinal: *Criterio de CYPE*	Máximo: 30 cm	
- Armadura superior:	Calculado: 7.3 cm	Cumple
- Armadura inferior:	Calculado: 7.3 cm	Cumple
- Armadura de piel:	Calculado: 17 cm	Cumple
Cuantía mínima para los estribos: *Norma Código Estructural. Artículo A19.9.2.2 (5)*	Mínimo: 3.2 cm²/m	
- Situaciones persistentes:	Calculado: 3.35 cm²/m	Cumple
- Situaciones accidentales sísmicas:	Calculado: 3.35 cm²/m	Cumple
Cuantía geométrica mínima armadura traccionada: *Norma Código Estructural. Artículo A19.9.2.1.1*	Calculado: 0.004	
- Armadura inferior (Situaciones persistentes):	Mínimo: 0.0012	Cumple
- Armadura superior (Situaciones persistentes):	Mínimo: 0.0012	Cumple
- Armadura inferior (Situaciones accidentales sísmicas):	Mínimo: 0.001	Cumple
- Armadura superior (Situaciones accidentales sísmicas):	Mínimo: 0.001	Cumple
Armadura mínima por cuantía mecánica de flexión compuesta: *Norma Código Estructural. Artículo A19.9.2.1.1*	Calculado: 8.04 cm²	
- Armadura inferior (Situaciones persistentes):	Mínimo: 2.45 cm²	Cumple
- Armadura superior (Situaciones persistentes):	Mínimo: 2.45 cm²	Cumple
- Armadura inferior (Situaciones accidentales sísmicas):	Mínimo: 2.13 cm²	Cumple
- Armadura superior (Situaciones accidentales sísmicas):	Mínimo: 2.13 cm²	Cumple
Armadura mínima por cuantía mecánica de esfuerzos axiles: - Armadura total (Situaciones accidentales sísmicas): *Criterio de CYPE basado en el Artículo 38.4 de la EH-91*	Mínimo: 5.33 cm² Calculado: 18.34 cm²	Cumple

Referencia: VC.S-1 [N1692-N11] (Viga centradora)
-Dimensiones: 40.0 cm x 50.0 cm
-Armadura superior: 4Ø16
-Armadura de piel: 1x2Ø12
-Armadura inferior: 4Ø16
-Estribos: 1xØ8c/30

Comprobación	Valores	Estado
Armadura necesaria por cálculo para el axil de compresión: - Situaciones accidentales sísmicas: *Criterio de CYPE, basado en: J. Calavera. "Cálculo de Estructuras de Cimentación". Capítulo 3.15*	Mínimo: 0 cm² Calculado: 18.34 cm²	Cumple
Armadura necesaria por cálculo para el axil de tracción: - Situaciones accidentales sísmicas: *Criterio de CYPE, basado en: J. Calavera. "Cálculo de Estructuras de Cimentación". Capítulo 3.15*	Mínimo: 0.05 cm² Calculado: 18.34 cm²	Cumple
Comprobación de armadura necesaria por cálculo a flexión compuesta:		
- Situaciones persistentes:	Momento flector: 56.79 kN·m Axil: ± 0.00 kN Momento flector: -30.40 kN·m Axil: ± 0.00 kN	Cumple Cumple
- Situaciones accidentales sísmicas: *Ver listado de esfuerzos pésimos en 'Información adicional'.*		Cumple
Longitud de anclaje barras superiores origen: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 24 cm	
- Situaciones persistentes:	Mínimo: 22 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 24 cm	Cumple
Longitud de anclaje barras inferiores origen: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 19 cm	
- Situaciones persistentes:	Mínimo: 16 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 19 cm	Cumple
Longitud de anclaje de las barras de piel origen: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 18 cm	
- Situaciones persistentes:	Mínimo: 16 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 18 cm	Cumple
Longitud de anclaje barras superiores extremo: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 24 cm	
- Situaciones persistentes:	Mínimo: 22 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 24 cm	Cumple
Longitud de anclaje barras inferiores extremo: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 19 cm	
- Situaciones persistentes:	Mínimo: 16 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 19 cm	Cumple
Longitud de anclaje de las barras de piel extremo: *El anclaje se realiza a partir del eje de los pilares*	Calculado: 18 cm	
- Situaciones persistentes:	Mínimo: 16 cm	Cumple
- Situaciones accidentales sísmicas:	Mínimo: 18 cm	Cumple
Comprobación de cortante:		
- Situaciones persistentes:	Cortante: 12.91 kN	Cumple
- Situaciones accidentales sísmicas:	Cortante: 3.07 kN	Cumple
Se cumplen todas las comprobaciones		

Información adicional:

- Diámetro mínimo de la armadura longitudinal (Norma Código Estructural. Artículo A19.9.8.3): Mínimo: 12.0 mm, Calculado: 16.0 mm (Cumple)
- Esfuerzos pésimos:
- Situaciones accidentales sísmicas
- Momento flector: 15.79 kN·m - Axil: ± 0.30 kN (Cumple)
- Momento flector: -5.96 kN·m - Axil: ± 0.21 kN (Cumple)
- Momento flector: 15.72 kN·m - Axil: ± 0.30 kN (Cumple)
- Momento flector: -2.73 kN·m - Axil: ± 0.30 kN (Cumple)

ANNEX 03 – ESTUDI LUMÍNIC

ÍNDEX

1. INTRODUCCIÓ 1

2. ESTUDI LUMÍNIC 1

1. INTRODUCCIÓ

En el present annex, s'especifica la proposta d'enllumenat per al projecte executiu d'instal·lació de coberta a les pistes poliesportives del pavelló del Temple.

2. ESTUDI LUMÍNIC

Tot seguit, es detalla la proposta d'estudi lumínic.

Schréder

ESTUDIO LUMÍNICO CANCHA DE BALONCESTO EN TORTOSA (TARRAGONA)

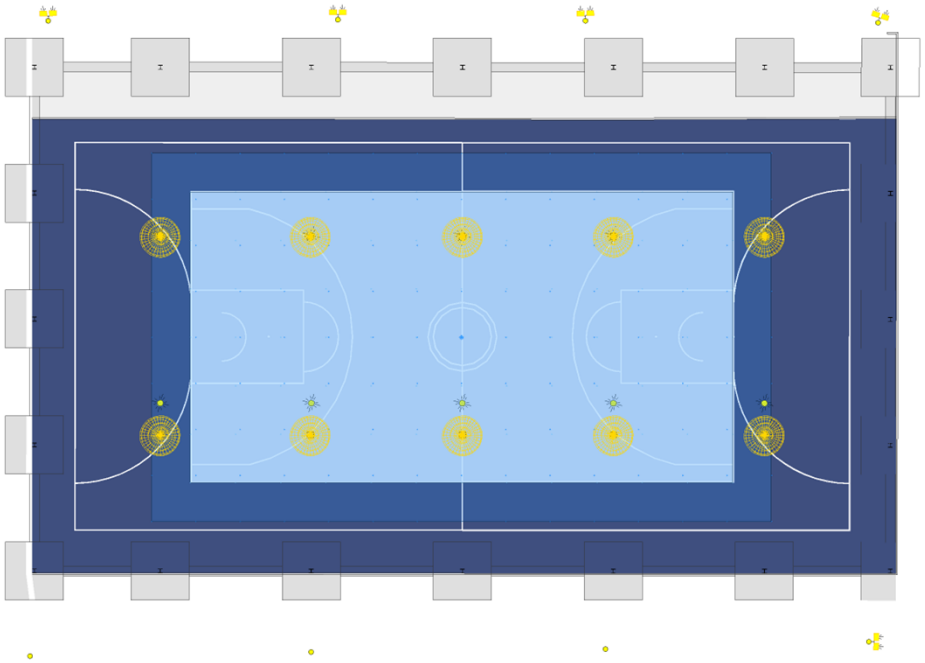
Diseñador	jpablo
N.º de proyecto	24PR1231
Fecha	13/11/2024
Aplicación	Ulysse 4.0.1
Archivo	CANCHA BALONCESTO TORTOSA ext.lp3

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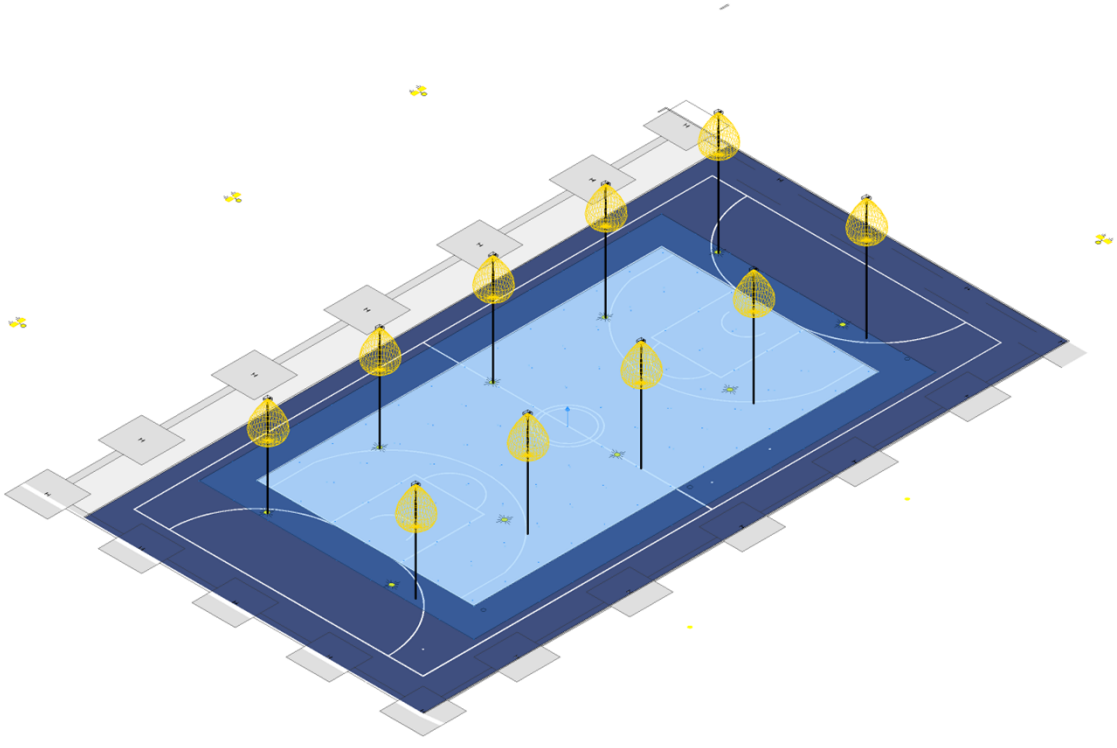
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1. Vistas

1.1. Elemento de instantánea



1.2. Elemento de instantánea (1)

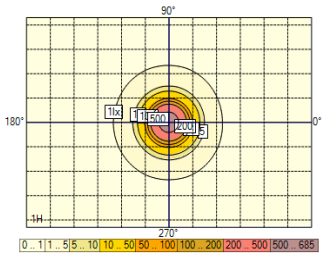


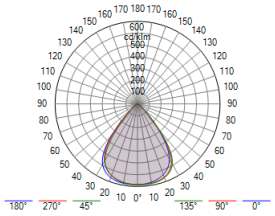
2. Dispositivos

2.1. INDU BAY GEN4 1 364 LEDs 18mA NW840 Integrated lenses 7095 E99342



Tipo	INDU BAY GEN4 1
Reflector	7095
Fuente	364 LEDs 18mA NW840
Protector	Integrated lenses
Flujo de la fuente	10.913 klm
Potencia de la luminaria	59.0 W
FM	0.90
Matriz	E99342
Flujo de luminaria	10.913 klm
Eficiencia	185 lm/W

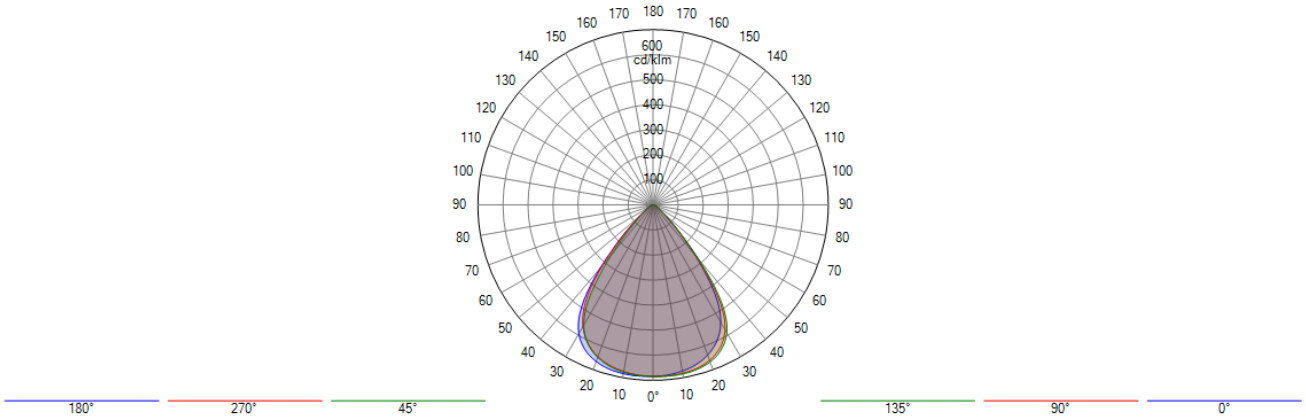




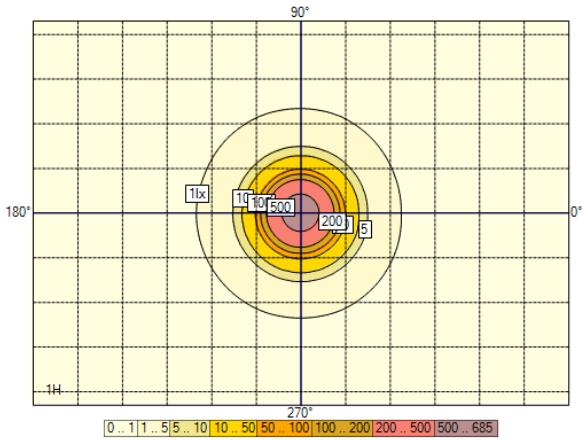
3. Documentos fotométricos

3.1. INDU BAY GEN4 1 364 LEDs 18mA NW840 Integrated lenses 7095 E99342

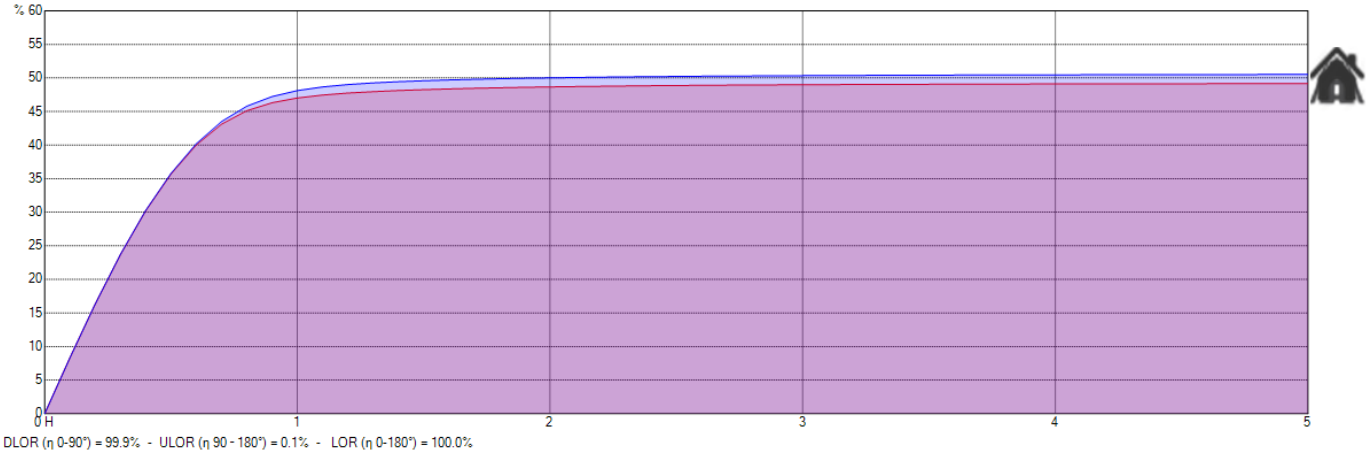
Diagrama polar/cartesiano



Isolux



Curva de utilización



DLOR (η 0-90°) = 99.9% - ULOR (η 90 - 180°) = 0.1% - LOR (η 0-180°) = 100.0%

4. Resultados

4.1. Resumen de malla

PA CANCHA BALONCESTO

1. Iluminancia normal	Med. (A) (lx)	Mín./Med. (%)	Mín./Máx. (%)	Mín. (lx)	Máx. (lx)	
Configuración	120.4	57	43	68.2	158.9	N/A

TA CANCHA BALONCESTO

1. Iluminancia normal	Med. (A) (lx)	Mín./Med. (%)	Mín./Máx. (%)	Mín. (lx)	Máx. (lx)	
Configuración	108.7	51	35	55.5	157.6	N/A

5. Consumo de potencia

5.1. Configuración

Dispositivo	Corriente [mA]	Cantidad	Regulación	Potencia/Dispositivo	Total
INDU BAY GEN4 1 364 LEDs 18mA NW840 Integrated lenses 7095 E99342	0	10	100 %	59 W	590 W
				Total	**590 W**

6. Configuración

6.1. Descripción de la matriz

Color	Descripción	Corriente [mA]	Flujo de lámpara [klm]	Flujo de luminaria [klm]	Potencia [W]	Eficiencia [lm/W]	FM	Altura [m]	Dispositivo
	INDU BAY GEN4 1 364 LEDs 18mA NW840 Integrated lenses 7095 E99342		10.913	10.913	59.0	185	0.900	2 x 6.82 2 x 7.21 2 x 7.61 2 x 7.99 2 x 8.38	

6.2. Posiciones de las luminarias

	Color	N°	Posición			Luminaria								Objetivo		
			X [m]	Y [m]	Z [m]	Nombre	Corriente [mA]	Az. [°]	Incl. [°]	Incl. (Imáx) [°]	Rot. [°]	Flujo [klm]	FM	X [m]	Y [m]	Z [m]
☑		1	17.58	16.55	6.82	INDU BAY GEN4 1 364 LEDs 18mA NW840 Integrated lenses 7095 E99342	-	-90.0	0.0	0.0	0.0	10.913	0.900	17.58	16.55	0.00
☑		2	17.59	26.80	6.82	INDU BAY GEN4 1 364 LEDs 18mA NW840 Integrated lenses 7095 E99342	-	-90.0	0.0	0.0	0.0	10.913	0.900	17.59	26.80	0.00
☑		3	25.33	16.55	7.21	INDU BAY GEN4 1 364 LEDs 18mA NW840 Integrated lenses 7095 E99342	-	-90.0	0.0	0.0	0.0	10.913	0.900	25.33	16.55	0.00
☑		4	25.34	26.80	7.21	INDU BAY GEN4 1 364 LEDs 18mA NW840 Integrated lenses 7095 E99342	-	-90.0	0.0	0.0	0.0	10.913	0.900	25.34	26.80	0.00
☑		5	33.19	16.55	7.61	INDU BAY GEN4 1 364 LEDs 18mA NW840 Integrated lenses 7095 E99342	-	-90.0	0.0	0.0	0.0	10.913	0.900	33.19	16.55	0.00
☑		6	33.19	26.80	7.61	INDU BAY GEN4 1 364 LEDs 18mA NW840 Integrated lenses 7095 E99342	-	-90.0	0.0	0.0	0.0	10.913	0.900	33.20	26.80	0.00

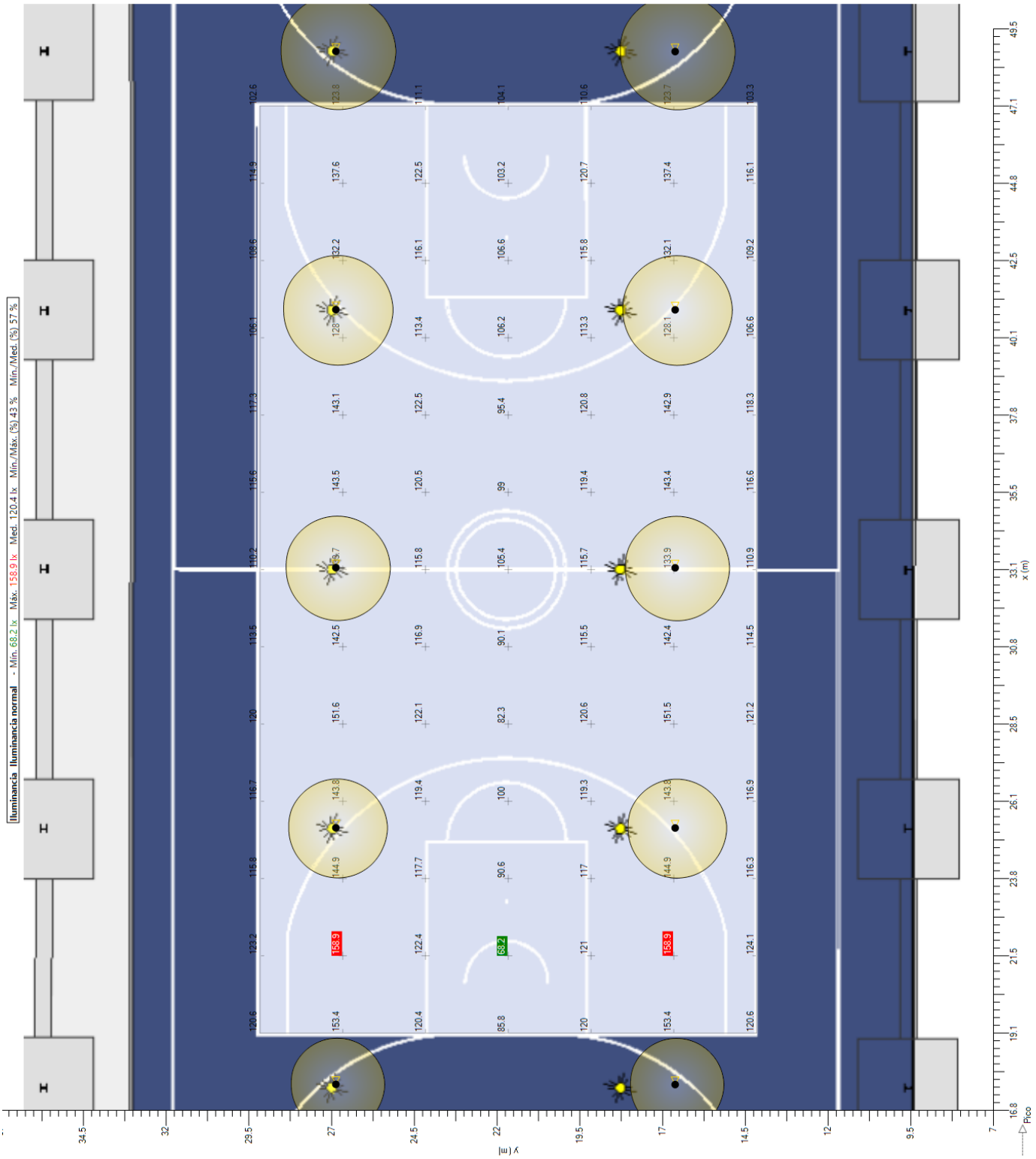
☑		7	40.98	16.55	7.99	INDU BAY GEN4 1 364 LEDs 18mA NW840 Integrated lenses 7095 E99342	-	-90.0	0.0	0.0	0.0	10.913	0.900	40.98	16.55	0.00
☑		8	40.99	26.80	7.99	INDU BAY GEN4 1 364 LEDs 18mA NW840 Integrated lenses 7095 E99342	-	-90.0	0.0	0.0	0.0	10.913	0.900	40.99	26.80	0.00
☑		9	48.78	16.55	8.38	INDU BAY GEN4 1 364 LEDs 18mA NW840 Integrated lenses 7095 E99342	-	-90.0	0.0	0.0	0.0	10.913	0.900	48.78	16.55	0.00
☑		10	48.79	26.80	8.38	INDU BAY GEN4 1 364 LEDs 18mA NW840 Integrated lenses 7095 E99342	-	-90.0	0.0	0.0	0.0	10.913	0.900	48.79	26.80	0.00

6.3. Grupos de luminarias

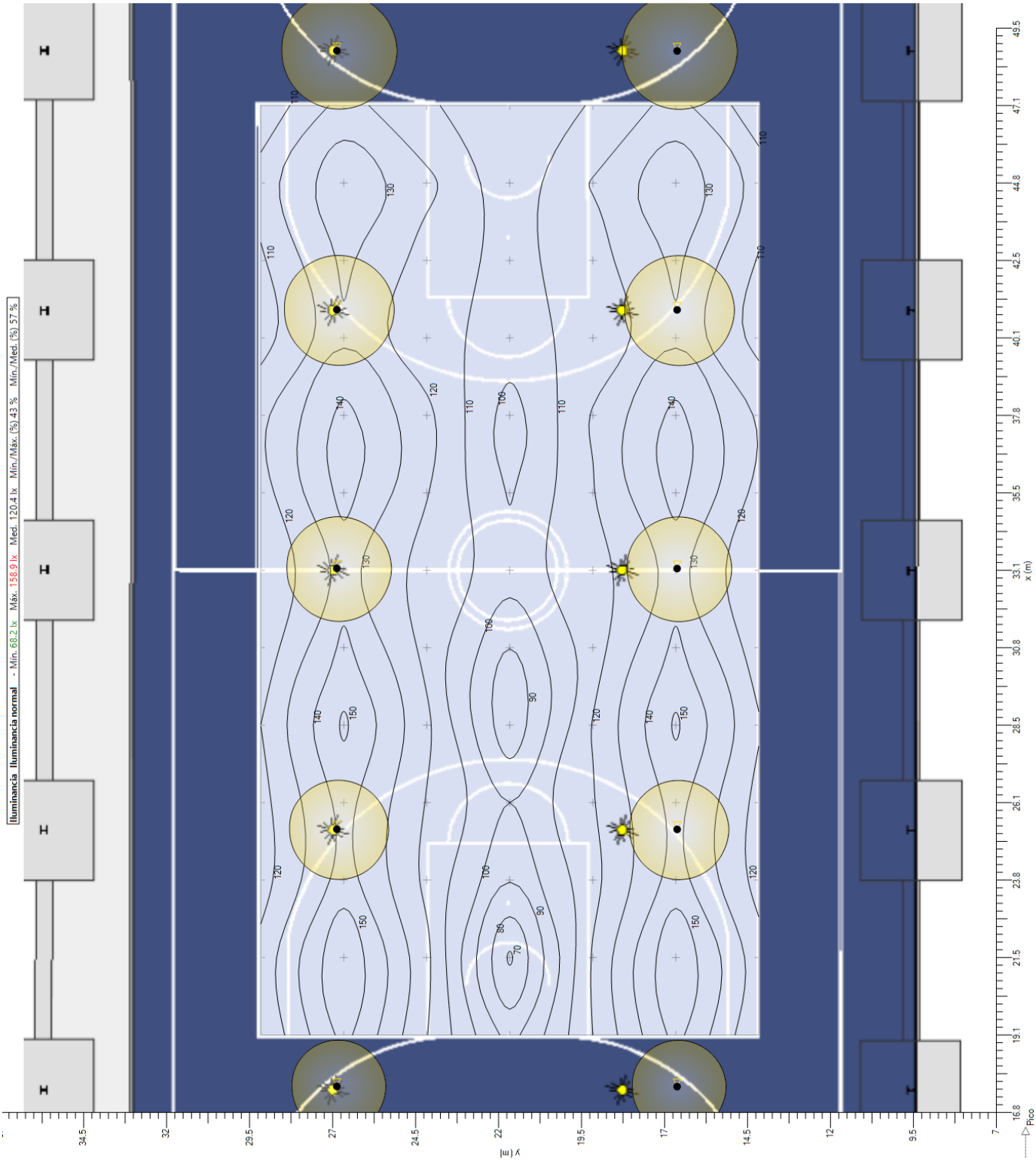
Lineal																
	Color	N°	Posición			Luminaria					Dimensión			Rotación		
			X [m]	Y [m]	Z [m]	Nombre	Az. [°]	Incl. [°]	Rot. [°]	Reg [%]	Cantidad	Interdistancia [m]	Tamaño [m]	X [°]	Y [°]	Z [°]
☑		1	17.58	16.55	6.82	Luminaria lineal	0.0	0.0	0.0	100	2	10.25	10.25	0.0	0.0	90.0
☑		2	25.33	16.55	7.21	Luminaria lineal (1)	0.0	0.0	0.0	100	2	10.25	10.25	0.0	0.0	90.0
☑		3	33.19	16.55	7.61	Luminaria lineal (2)	0.0	0.0	0.0	100	2	10.25	10.25	0.0	0.0	90.0
☑		4	40.98	16.55	7.99	Luminaria lineal (3)	0.0	0.0	0.0	100	2	10.25	10.25	0.0	0.0	90.0
☑		5	48.78	16.55	8.38	Luminaria lineal (4)	0.0	0.0	0.0	100	2	10.25	10.25	0.0	0.0	90.0

6.4. PA CANCHA BALONCESTO - Normal

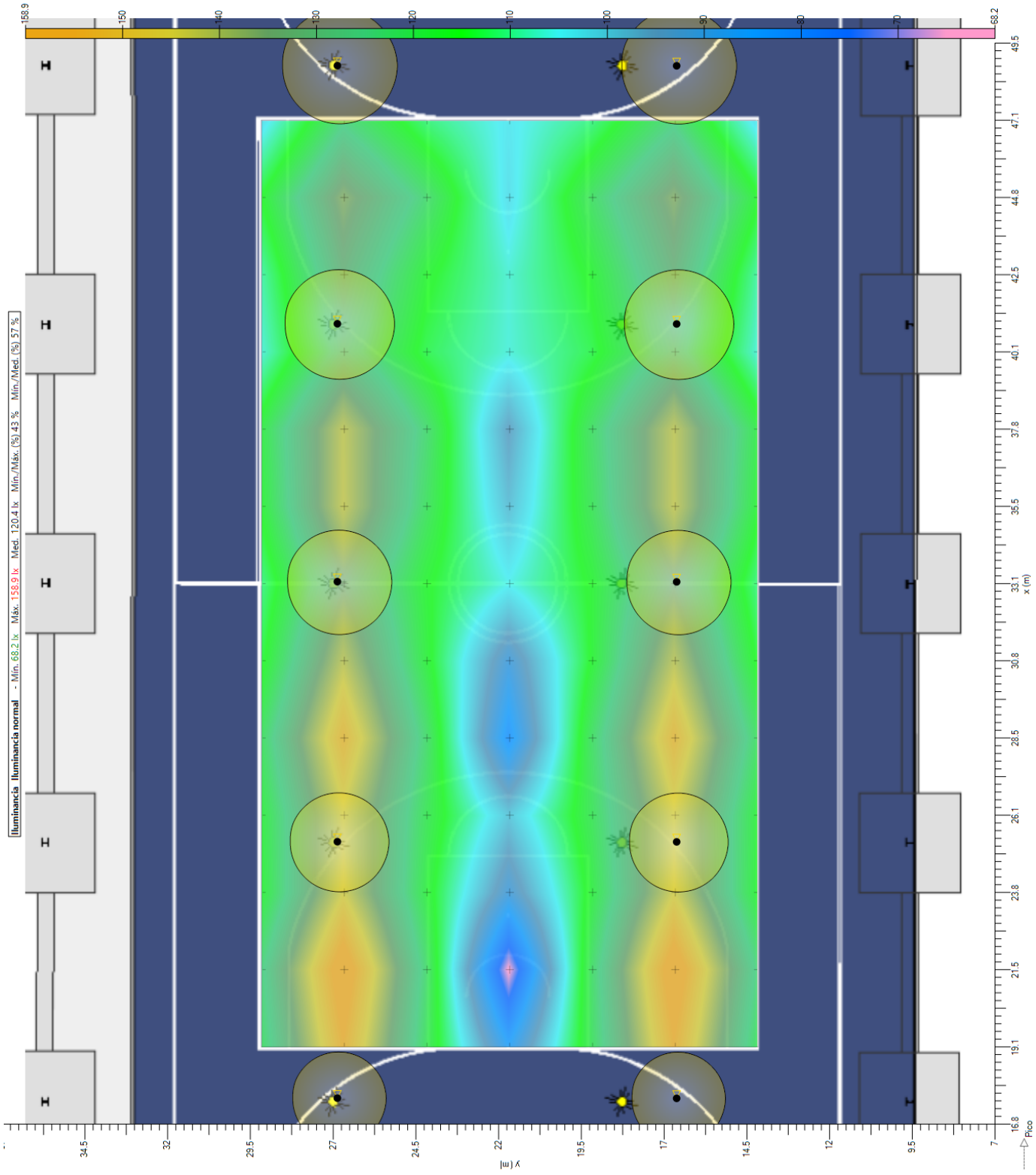
Valores



Niveles Isolux

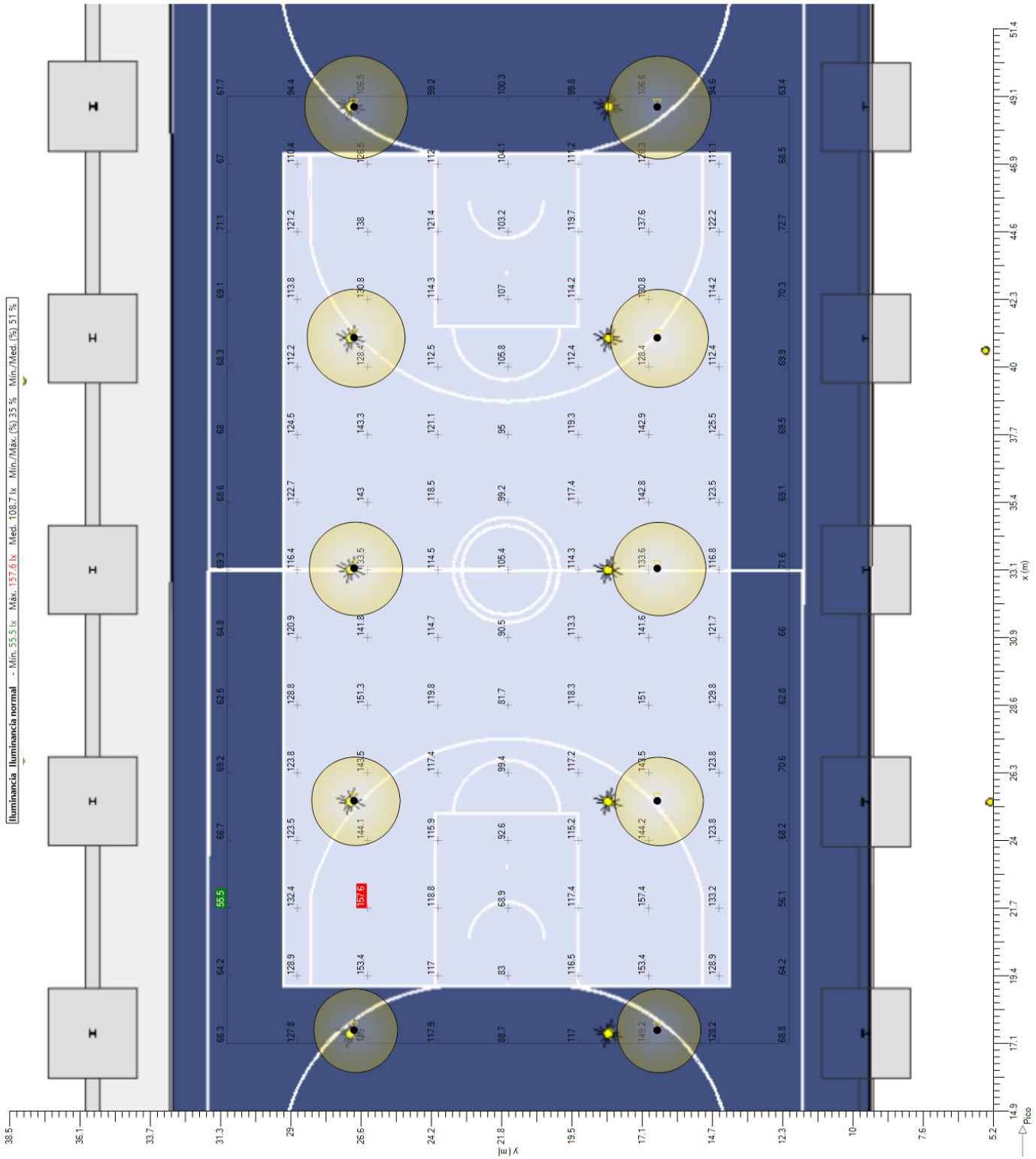


Sombreado

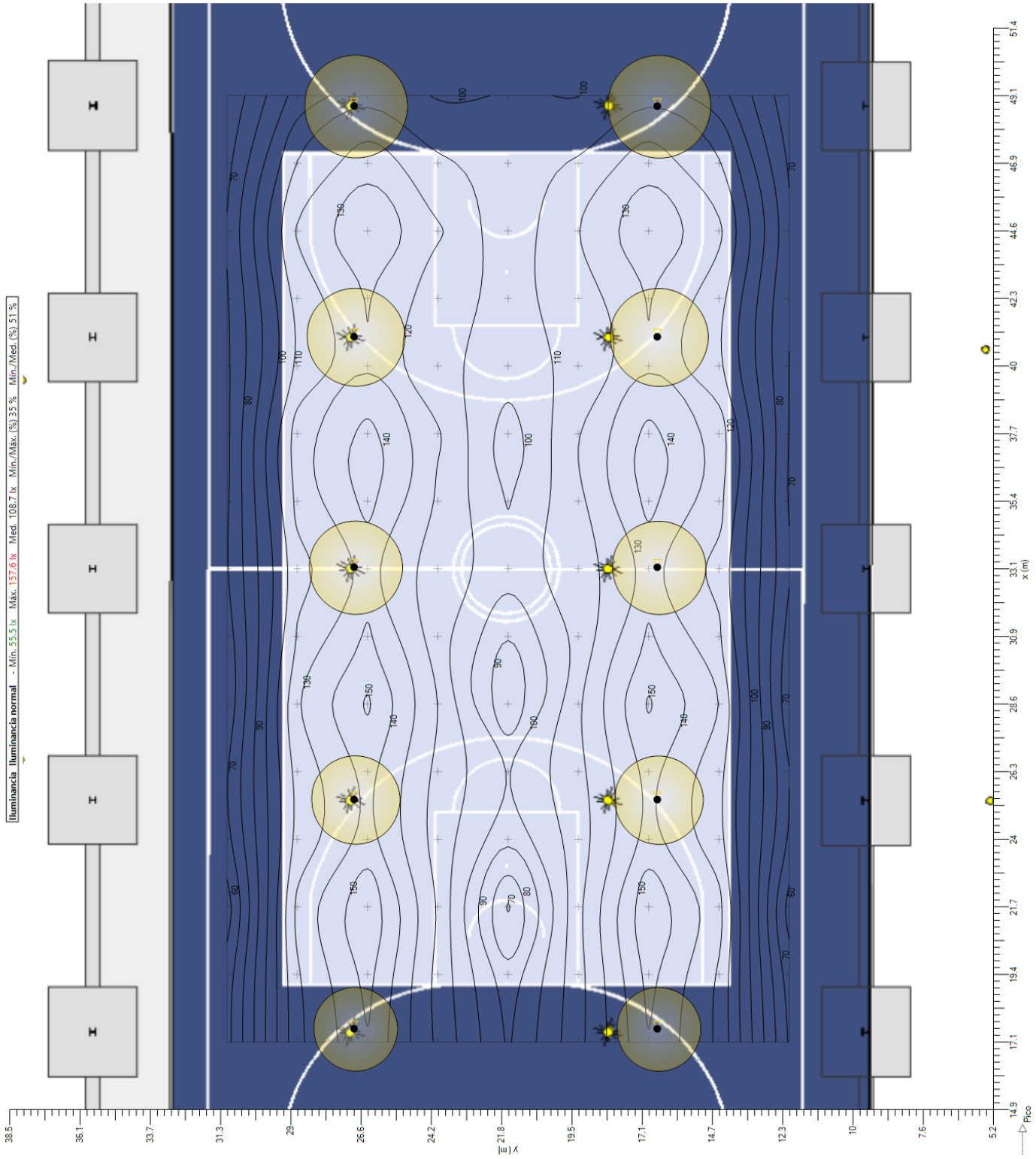

Iluminancia Iluminancia normal - Mín. 68.2 lx Máx. 158.9 lx Med. 120.4 lx Mín./Máx. (%) 43 % Mín./Med. (%) 57 %
158.9
150
140
130
120
110
100
90
80
70
68.2
49.5
47.1
44.8
42.5
40.1
37.8
35.5
33.1
30.8
28.5
26.1
23.8
21.5
19.1
16.8
x (m)
34.5
32
29.5
27
24.5
22
19.5
17
14.5
12
9.5
7
y (m)
Pico

6.5. TA CANCHA BALONCESTO - Normal

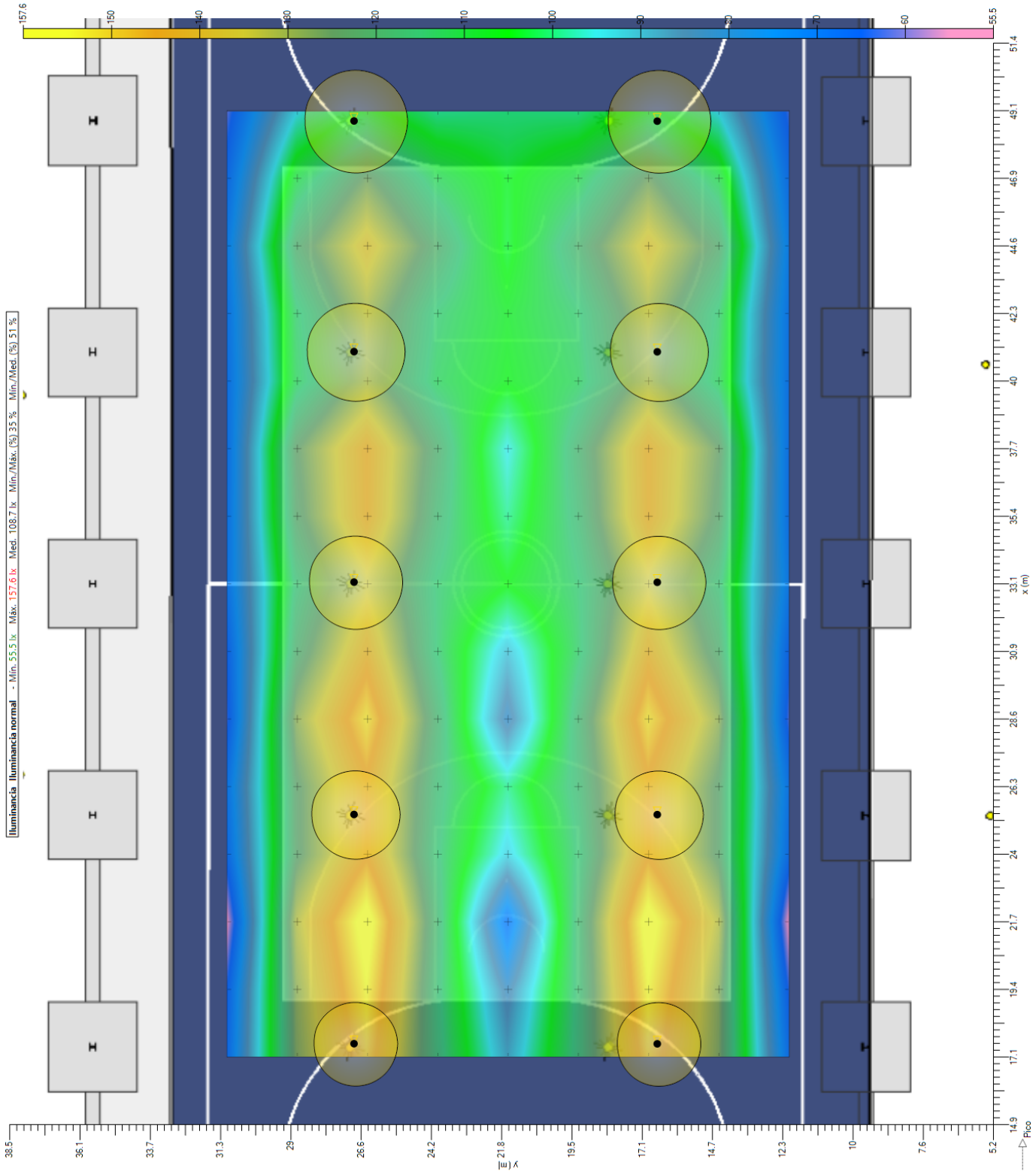
Valores



Niveles Isolux



Sombreado


Iluminancia Iluminancia normal - Mín. 55.5 lx Máx. 157.6 lx Med. 108.7 lx Mín./Máx. (%) 35 % Mín./Med. (%) 51 %
157.6
150
140
130
120
110
100
90
80
70
60
55.5
x (m)
y (m)
Pico

7. Mallas

7.1. PA CANCHA BALONCESTO

General		Geometría						
Tipo	Malla rectangular XY	**Origen**	**X**	19.14 m	**Y**	14.09 m	**Z**	0.00 m
Habilitado	☑	**Rotación**	**X**	0.0 °	**Y**	0.0 °	**Z**	0.0 °
Color		**Dimensión**	**Cantidad X**	13	**Cantidad Y**	7		
			Interdistancia X	2.33 m	**Interdistancia Y**	2.50 m		
			Tamaño X	28.00 m	**Tamaño Y**	15.00 m		

7.2. TA CANCHA BALONCESTO

CLASE III 75LX 0,5U

General		Geometría						
Tipo	Malla rectangular XY	**Origen**	**X**	17.14 m	**Y**	12.09 m	**Z**	0.00 m
Habilitado	☑	**Rotación**	**X**	0.0 °	**Y**	0.0 °	**Z**	0.0 °
Color		**Dimensión**	**Cantidad X**	15	**Cantidad Y**	9		
			Interdistancia X	2.29 m	**Interdistancia Y**	2.38 m		
			Tamaño X	32.00 m	**Tamaño Y**	19.00 m		

ANNEX 04 – PROGRAMA DE TREBALLS

ÍNDEX

1. INTRODUCCIÓ 1

2. PROGRAMA DE TREBALLS 1

1. INTRODUCCIÓ

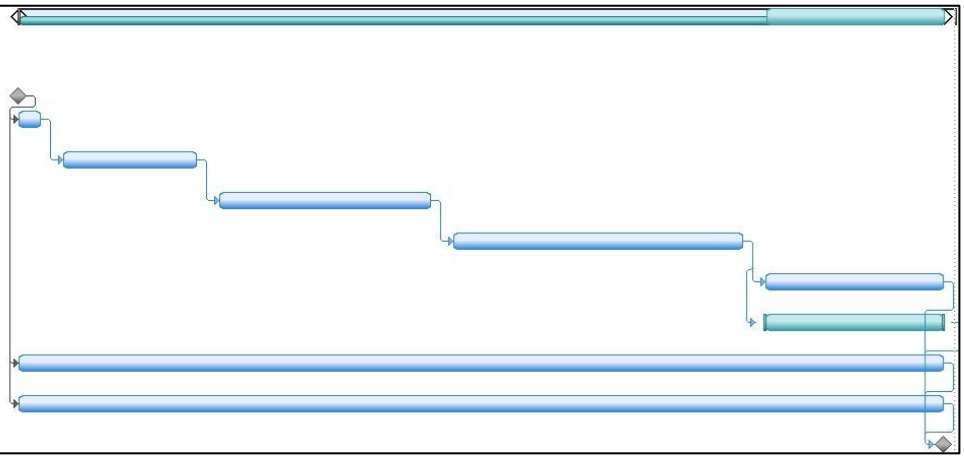
En el present annex s'adjunta el pla d'obra elaborat amb objectiu d'estimar la durada de les actuacions proposades en aquest projecte.

El Contractista haurà de presentar el seu programa de treballs d'acord amb els terminis calculats en funció dels rendiments dels processos constructius previstos.

2. PROGRAMA DE TREBALLS

El termini d'execució de les obres previstes en aquest projecte serà de **TRES (3) MESOS**, tal com es presenta al pla d'obra següent:

PROJECTE EXECUTIU D'INSTAL·LACIÓ DE COBERTA A LES PISTES POLIESPORTIVES DEL PAVELLÓ DEL TEMPLE	**60 días**
INICI	0 días
REPLANTEIG	2 días
ENDERROCS I DEMOLICIONS	10 días
MOVIMENTS DE TERRES I FONAMENTACIÓ	15 días
ESTRUCTURA I COBERTA	20 días
PAVIMENTS I TANCAMENTS	12 días
INSTAL·LACIONS	12 días
CONTROL DE QUALITAT	59 días
SEGURETAT I SALUT	59 días
FINAL	0 días



ANNEX 05 – ESTUDI DE GESTIÓ DE RESIDUS

ÍNDEX

1. MEMÒRIA 1
1.1. Objecte 1
1.2. Estimació i tipologia de residus 1
1.3. Mesures per a la prevenció de residus a l'obra 1
1.4. Operacions de gestió de residus 2
2. PLEC DE CONDICIONS 5
2.1. Elements que contempla el plec 5
2.2. Definició i condicions de les partides d'obra executades 6

1. MEMÒRIA

1.1. Objecte

El present estudi de gestió de residus del "Projecte executiu d'instal·lació de coberta a les pistes poliesportives del pavelló del Temple" té com objectiu fer una previsió dels residus que es generaran durant l'execució de les obres i la gestió que es realitzarà amb aquest residus, d'acord amb les exigències de la normativa vigent. Marc legal que estableix el règim jurídic de la producció i gestió de residus de construcció i demolició, amb el fi de fomentar, per aquest ordre, la seva prevenció, reutilització i reciclat o altres formes de valorització, i l'adequat tractament dels destinats a eliminació.

1.2. Estimació i tipologia de residus

L'estimació i tipologia dels residus està relacionada amb la naturalesa dels residus i amb la quantitat que es preveu generar per poder a planificar la seva correcta gestió. A continuació, es llisten la tipologia i l'estimació dels residus de construcció previstos en l'execució de les obres del present projecte:

Obra			01	Pressupost PRE_COBERTA TEMPLE			
Capítol			08	GESTIÓ DE RESIDUS			
NUM.	CODI	UA	DESCRIPCIÓ		PREU	AMIDAMENT	IMPORT
1	P2R6-4I5G	m3	Càrrega amb mitjans mecànics i transport de residus inerts o no especials a instal·lació autoritzada de gestió de residus, amb camió per a transport de 12 t, amb un recorregut de més de 10 i fins a 15 km (P - 18)		10,64	256,310	2.727,14
2	P2RA-EU2R	m3	Disposició controlada en dipòsit autoritzat inclòs el cànon sobre la deposició controlada dels residus de la construcció, segons la LLEI 8/2008, de residus de formigó inerts amb una densitat 1,45 t/m3, procedents de construcció o demolició, amb codi 17 01 01 segons la Llista Europea de Residus (P - 19)		15,57	53,850	838,44
3	P2RA-EU2T	m3	Disposició controlada en dipòsit autoritzat inclòs el cànon sobre la deposició controlada dels residus de la construcció, segons la LLEI 8/2008, de residus de terra inerts amb una densitat 1,6 t/m3, procedents d'excavació, amb codi 17 05 04 segons la Llista Europea de Residus (P - 20)		9,08	202,450	1.838,25
TOTAL	**Capitol**		**01.08**				**5.403,83**

1.3. Mesures per a la prevenció de residus a l'obra

A continuació s'adjunta la fitxa amb les accions de minimització i prevenció, o d'altres que poden ajudar a una millor gestió dels residus:

ACCIONS DE MINIMITZACIÓ I PREVENCIÓ DES DE LA FASE DE PROJECTE		Sí	No
1	Els sistemes constructius són sistemes industrialitzats i prefabricats que es munten a obra sense gairebé generar residus?	x	

1.4. Operacions de gestió de residus

Una obra té dos tipus de gestió, la de dintre de l'obra i la de fora de l'obra.

Es recomana que la gestió mínima de separació selectiva per a les obres civils estigui formada per la segregació dels residus inerts, dels No Especials i dels Especials (aquests sempre han d'anar separats de la resta).

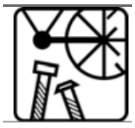
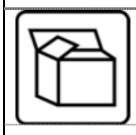
Es recomana que es realitzi una classificació en origen, ja que un contenidor que surt de l'obra amb residus heterogenis té menys opcions de ser valoritzat que un de net, carregat amb un residu homogeni que pot ser transportat directament cap a una central de reciclatge o, fins i tot, si compleix amb les característiques fisicoquímiques exigides, reutilitzat (en el cas de la runa neta) a mateixa obra on s'ha produït.

Quan no sigui viable la classificació selectiva en origen (a la mateixa obra) és obligatori derivar els residus barrejats (inerts i no especials) cap a instal·lacions on es faci un tractament previ i des don el residu pugui ser finalment tramés a un gestor autoritzat per la seva valorització o, en el cas més desfavorable, cap a l'abocament a dipòsit controlat.

En el cas del present projecte, en fase d'execució de les obres, Els residus inerts (terres) i els no especials procedents dels enderrocs, es carregaran directament a camió. Es col·locarà un sol contenidor a obra per als residus no especials barrejats, i un contenidor pels especials.

GESTIÓ DE RESIDUS DINTRE DE L'OBRA		
1	**Separació segons tipologia de residu**	Cal recordar que, segons el RD 105/2008, d'1 de febrer, s'ha de preveure una separació en obra de les següents fraccions, quan de forma individualitzada per cadascuna d'elles, la quantitat prevista de generació per al total de l'obra superi les següents quantitats indicades a continuació. - Formigó: 80 T - Maons, teules, ceràmics: 40 T - Metall: 2 T - Fusta: 1 T - Vidre: 1 T - Plàstic: 0,5 T - Paper i Cartró: 0,5 T.
	Especials	La legislació de Residus Especials obliga a tenir una zona adequada per a l'emmagatzematge d'aquest tipus de residu. Entre d'altres recomanacions, es destaquen les següents: - No tenir-los emmagatzemats a l'obra més de 6 mesos. - El contenidor de residus especials haurà de situar-se en un lloc pla i fora del trànsit habitual de la maquinària d'obra, per tal d'evitar vessaments accidentals

		- Senyalitzar correctament els diferents contenidors on s'hagin de situar els envasos dels productes Especials, tenint en compte les incompatibilitats segons els símbols de perillositat representats en les etiquetes. - Tapar els contenidors i protegir-los de la pluja, la radiació, etc. - Emmagatzemar els bidons que contenen líquids perillosos (olis, desencofra'ns, etc.) en posició vertical i sobre cubetes de retenció de líquids per tal d'evitar fuites. - Impermeabilitzar el terra on se situïn els contenidors de residus especials.
	Inerts	- Zona d'aplec per runes que van a abocador
	No Especials	- Contenidor per a metall. - Contenidor per a la resta de residus no especials barrejats.
	Inerts + No Especials	Inerts + No Especials: contenidor amb Inerts i No Especials barrejats (**) (**) Només quan sigui tècnicament inviable. En aquest ca, derivar-ho cap a un gestor que li faci un tractament previ.
2	**Reciclatge de residus petris inerts en la pròpia obra**	Indicar, si s'escau, la quantitat de residus petris que es preveu matxucar a l'obra per reutilitzar, posteriorment, en el mateix emplaçament. Quantitat de residus que es preveu reciclar i que s'evita portar a abocador: Quantitat d'àrid matxucat resultant: (cal tenir en compte que l'àrid resultant, una vegada matxucat serà, aproximadament, un 30% menor al volum inicial de residus petris) (kg): 0 (m3): 0
3	**Senyalització dels contenidors**	Els contenidors s'hauran de senyalitzar en funció del tipus de residu que continguin, d'acord amb la separació selectiva prevista.
	Inerts 	Residus admesos: ceràmica, formigó, pedres, etc. CODIS CER: 170107, 170504, ... (codis admesos en els dipòsits de terres i runes)

<table>
<tr><td></td><td>No especials barrejats
  </td><td colspan="3">Residus admesos: fusta, metall, plàstic, paper i cartró, cartró guix, etc.
CODIS CER: 170201, 170407, 150101, 170203, 170401, … (codis admesos en dipòsits de residus No Especials). Aquest símbol identifica als residus No Especials barrejats, no obstant, en cas d'optar per una separació selectiva més exigent, caldria un cartell específic per a cada tipus de residu:
<table>
<tr><td>Fusta</td><td>Ferralla</td><td>Paper i cartró</td><td>Plàstic</td><td>Cables elèctrics</td></tr>
<tr><td>  </td><td>  </td><td>  </td><td>  </td><td>  </td></tr>
</table></td></tr>
<tr><td></td><td>Especials
  </td><td colspan="3">CODIS CER: (els codis dependran dels tipus de residus). Aquest símbol identifica als residus
Especials de manera genèrica i pot servir per senyalitzar la zona d'aplec habilitada pels residus
Especials, no obstant, a l'hora d'emmagatzemar-los cal tenir en compte els símbols de perillositat que identifiquen a cadascun i senyalitzar els bidons o contenidors d'acord amb la legislació de residus Especials.</td></tr>
<tr><td>4</td><td>Destí dels residus segons tipologia</td><td colspan="3">Identificar els recicladors, plantes de transferència o dipòsits propers a l'entorn de l'obra on es proposa gestionar els residus de la construcció:</td></tr>
<tr><td></td><td rowspan="3">Dipòsit controlat de runes</td><td colspan="2">Quantitat estimada (m³)</td><td colspan="2">Gestor</td><td rowspan="2">T.M.</td></tr>
<tr><td>Residus de formigó inerts</td><td>Residus de terra inerts</td><td>Codi</td><td>Nom</td></tr>
<tr><td>53,85</td><td>202,45</td><td>E-1881.21</td><td>Consell Comarcal del Baix Ebre</td><td>L'Aldea</td></tr>
</table>

2. PLEC DE CONDICIONS

I - PARTIDES D'OBRA DE DESPESES INDIRECTES

I2 - DEMOLICIONS, ENDERROCS, MOVIMENTS DE TERRES I GESTIÓ DE RESIDUS

I2R - GESTIÓ DE RESIDUS

I2R2 - CLASSIFICACIÓ DE RESIDUS

2.1. Elements que contempla el plec

I2R24200.

1.- DEFINICIÓ I CONDICIONS DE LES PARTIDES D'OBRA EXECUTADES

Operacions de càrrega i transport, o de transport amb temps d'espera per a la càrrega, de terres, material d'excavació i residus de la construcció i operacions de tria dels materials sobrants i de rebuig que es generen a l'obra, o en un enderroc, per tal de classificar-los en funció del lloc on es dipositaran o es reutilitzaran.

S'han considerat els tipus següents:

- Classificació dels materials sobrants i de rebuig en funció del lloc on es dipositaran o es reutilitzaran.

RESIDUS ESPECIALS:

Els materials potencialment perillosos han d'estar separats per tipus compatibles i emmagatzemats en bidons o contenidors adequats, amb indicació del tipus de perillositat.

CLASSIFICACIÓ DE RESIDUS:

Han d'estar classificats en contenidors o espais separats els materials inerts, com ara restes de formigó, morters, ceràmica, etc.. els materials orgànics, com ara fustes, cartrons, etc., els metàl·lics, els plàstics i els materials potencialment perillosos, com ara pintures, dissolvents, etc.

2.- CONDICIONS DEL PROCÉS D'EXECUCIÓ

RESIDUS DE LA CONSTRUCCIÓ:

La manipulació dels materials s'ha de fer amb les proteccions adequades a la perillositat del mateix.

3.- UNITAT I CRITERIS D'AMIDAMENT

CLASSIFICACIÓ DE RESIDUS:

m^3 de volum realment classificat d'acord amb les especificacions de la DT.

4.- NORMATIVA DE COMPLIMENT OBLIGATORI

Ley 10/1998, de 21 de abril, de Residuos.

Decret 201/1994, de 26 de juliol, regulador dels enderrocs i altres residus de la construcció.

Real Decreto 108/1991, de 1 de febrero, sobre la prevención y reducción de la contaminación del medio ambiente producida por el amianto.

Decret 161/2001 de 12 de juny, de modificació del Decret 201/1994 de 26 de juliol, regulador dels enderrocs i altres residus de la construcció.

Decret 34/1996, de 9 de gener, pel qual s'aprova el Catàleg de residus de Catalunya.

Decret 92/1999, de 6 d'abril, de modificació del Decret 34/1996, de 9 de gener, pel qual s'aprova el catàleg de Residus de Catalunya.

Reial Decret 105/2008, d'1 de febrer, per el que es regula la producció i gestió dels residus de construcció i enderroc.

Orden MAM/304/2002, de 8 de febrero, por la cual se publican las operaciones de valorización y eliminación de residuos y la lista europea de residuos.

Correción de errores de la Orden MAM/304/2002, de 8 de febrero, por la cual se publican las operaciones de valorización y eliminación de residuos y la lista europea de residuos.

I2R5 - TRANSPORT DE RESIDUS A MONODIPÒSIT O CENTRE AUTORITZAT

0.- ELEMENTS QUE CONTEMPLA EL PLEC

I2R5PL00,I2R5K000.

2.2. Definició i condicions de les partides d'obra executades

Operacions de càrrega i transport, o de transport amb temps d'espera per a la càrrega, de terres, material d'excavació i residus de la construcció i operacions de tria dels materials sobrants i de rebuig que es generen a l'obra, o en un enderroc, per tal de classificar-los en funció del lloc on es dipositaran o es reutilitzaran.

S'han considerat els tipus següents:

- Transport o càrrega i transport de residus dins de l'obra amb camió o dúmper
- Transport o càrrega i transport de residus de la construcció a centre de reciclatge, a monodipòsit, a abocador específic o a centre de recollida i transferència, amb contenidor o amb camió
- Subministrament de bidó per a emmagatzemar residus potencialment perillosos.
- Càrrega i transport fins a centre de recollida o transferència de bidons amb residus potencialment perillosos.

CÀRREGA I TRANSPORT DE TERRES I RESIDUS:

L'operació de càrrega s'ha de fer amb les precaucions necessàries per a aconseguir unes condicions de seguretat suficients.

Els vehicles de transport han de portar els elements adequats a fi d'evitar alteracions perjudicials del material.

El trajecte que s'ha de recórrer ha de complir les condicions d'amplària lliure i de pendent adequades a la maquinària que s'utilitzi.

RESIDUS ESPECIALS:

Els materials potencialment perillosos han d'estar separats per tipus compatibles i emmagatzemats en bidons o contenidors adequats, amb indicació del tipus de perillositat.

A L'OBRA:

Transport de terres i material d'excavació o del rebaix, o residus de la construcció, entre dos punts de la mateixa obra o entre dues obres.

Les àrees d'abocada han de ser les que defineixi la DF.

L'abocada s'ha de fer al lloc i amb el gruix de capa indicats.

Les característiques de les terres han d'estar en funció del seu ús, han de complir les especificacions del seu plec de condicions i cal que tinguin l'aprovació de la DF.

A CENTRE DE RECICLATGE, A MONODIPÒSIT, A ABOCADOR ESPECÍFIC O A CENTRE DE RECOLLIDA I TRANSFERÈNCIA:

S'han de transportar a l'abocador autoritzat tots els materials procedents de l'excavació que la DF no accepti com a útils, o siguin sobrants.

El transportista ha de lliurar un certificat on s'indiqui el lloc d'abocament, la classificació del centre on s'ha fet l'abocament i la quantitat de material de cada tipus que s'ha abocat.

2.- CONDICIONS DEL PROCÉS D'EXECUCIÓ

El transport s'ha de realitzar en un vehicle adequat, per al material que es desitgi transportar, proveït dels elements que calen per al seu desplaçament correcte.

Durant el transport s'ha de protegir el material de manera que no es produeixin pèrdues en els trajectes utilitzats.

RESIDUS DE LA CONSTRUCCIÓ:

La manipulació dels materials s'ha de fer amb les proteccions adequades a la perillositat del mateix.

3.- UNITAT I CRITERIS D'AMIDAMENT

TRANSPORT DE TERRES O RESIDUS INERTS O NO ESPECIALS:

m3 de volum amidat amb el criteri de la partida d'obra d'excavació que li correspongui, incrementat amb el coeficient d'esponjament indicat en el plec de condicions tècniques, o qualsevol altre acceptat prèviament i expressament per la DF.

La unitat d'obra no inclou les despeses d'abocament ni de manteniment de l'abocador.

RESIDUS DE LA CONSTRUCCIÓ:

Es considera un increment per esponjament d'un 35%.

RESIDUS ESPECIALS:

Unitat de quantitat de bidons o contenidors subministrats i transportats al centre de recollida.

TRANSPORT DE RESIDUS ESPECIALS:

La unitat d'obra inclou tots els canons, taxes i despeses per la disposició de cada tipus de residu al centre corresponent.

4.- NORMATIVA DE COMPLIMENT OBLIGATORI

Ley 10/1998, de 21 de abril, de Residuos.

Decret 201/1994, de 26 de juliol, regulador dels enderrocs i altres residus de la construcció.

Real Decreto 108/1991, de 1 de febrero, sobre la prevención y reducción de la contaminación del medio ambiente producida por el amianto.

Decret 161/2001 de 12 de juny, de modificació del Decret 201/1994 de 26 de juliol, regulador dels enderrocs i altres residus de la construcció.

Decret 34/1996, de 9 de gener, pel qual s'aprova el Catàleg de residus de Catalunya.

Decret 92/1999, de 6 d'abril, de modificació del Decret 34/1996, de 9 de gener, pel qual s'aprova el catàleg de Residus de Catalunya.

Reial Decret 105/2008, d'1 de febrer, per el que es regula la producció i gestió dels residus de construcció i enderroc.

Orden MAM/304/2002, de 8 de febrero, por la cual se publican las operaciones de valorización y eliminación de residuos y la lista europea de residuos.

Correción de errores de la Orden MAM/304/2002, de 8 de febrero, por la cual se publican las operaciones de valorización y eliminación de residuos y la lista europea de residuos.

I2R6 - CÀRREGA I TRANSPORT DE RESIDUS A MONODIPÒSIT O CENTRE AUTORITZAT

0.- ELEMENTS QUE CONTEMPLA EL PLEC

I2R640G0.

1.- DEFINICIÓ I CONDICIONS DE LES PARTIDES D'OBRA EXECUTADES

Operacions de càrrega i transport, o de transport amb temps d'espera per a la càrrega, de terres, material d'excavació i residus de la construcció i operacions de tria dels materials sobrants i de rebuig que es generen a l'obra, o en un enderroc, per tal de classificar-los en funció del lloc on es dipositaran o es reutilitzaran.

S'han considerat els tipus següents:

- Transport o càrrega i transport de residus dins de l'obra amb camió o dúmper

- Transport o càrrega i transport de residus de la construcció a centre de reciclatge, a monodipòsit, a abocador específic o a centre de recollida i transferència, amb contenidor o amb camió

CÀRREGA I TRANSPORT DE TERRES I RESIDUS:

L'operació de càrrega s'ha de fer amb les precaucions necessàries per a aconseguir unes condicions de seguretat suficients.

Els vehicles de transport han de portar els elements adequats a fi d'evitar alteracions perjudicials del material.

El trajecte que s'ha de recórrer ha de complir les condicions d'amplària lliure i de pendent adequades a la maquinària que s'utilitzi.

A L'OBRA:

Transport de terres i material d'excavació o del rebaix, o residus de la construcció, entre dos punts de la mateixa obra o entre dues obres.

Les àrees d'abocada han de ser les que defineixi la DF.

L'abocada s'ha de fer al lloc i amb el gruix de capa indicats.

Les característiques de les terres han d'estar en funció del seu ús, han de complir les especificacions del seu plec de condicions i cal que tinguin l'aprovació de la DF.

A CENTRE DE RECICLATGE, A MONODIPÒSIT, A ABOCADOR ESPECÍFIC O A CENTRE DE RECOLLIDA I TRANSFERÈNCIA:

S'han de transportar a l'abocador autoritzat tots els materials procedents de l'excavació que la DF no accepti com a útils, o siguin sobrants.

El transportista ha de lliurar un certificat on s'indiqui el lloc d'abocament, la classificació del centre on s'ha fet l'abocament i la quantitat de material de cada tipus que s'ha abocat.

2.- CONDICIONS DEL PROCÉS D'EXECUCIÓ

El transport s'ha de realitzar en un vehicle adequat, per al material que es desitgi transportar, proveït dels elements que calen per al seu desplaçament correcte.

Durant el transport s'ha de protegir el material de manera que no es produeixin pèrdues en els trajectes utilitzats.

RESIDUS DE LA CONSTRUCCIÓ:

La manipulació dels materials s'ha de fer amb les proteccions adequades a la perillositat del mateix.

3.- UNITAT I CRITERIS D'AMIDAMENT

TRANSPORT DE TERRES O RESIDUS INERTS O NO ESPECIALS:

m3 de volum amidat amb el criteri de la partida d'obra d'excavació que li correspongui, incrementat amb el coeficient d'esponjament indicat en el plec de condicions tècniques, o qualsevol altre acceptat prèviament i expressament per la DF.

La unitat d'obra no inclou les despeses d'abocament ni de manteniment de l'abocador.

RESIDUS DE LA CONSTRUCCIÓ:

Es considera un increment per esponjament d'un 35%.

4.- NORMATIVA DE COMPLIMENT OBLIGATORI

Ley 10/1998, de 21 de abril, de Residuos.

Decret 201/1994, de 26 de juliol, regulador dels enderrocs i altres residus de la construcció.

Real Decreto 108/1991, de 1 de febrero, sobre la prevención y reducción de la contaminación del medio ambiente producida por el amianto.

Decret 161/2001 de 12 de juny, de modificació del Decret 201/1994 de 26 de juliol, regulador dels enderrocs i altres residus de la construcció.

Decret 34/1996, de 9 de gener, pel qual s'aprova el Catàleg de residus de Catalunya.

Decret 92/1999, de 6 d'abril, de modificació del Decret 34/1996, de 9 de gener, pel qual s'aprova el catàleg de Residus de Catalunya.

Reial Decret 105/2008, d'1 de febrer, per el que es regula la producció i gestió dels residus de construcció i enderroc.

Orden MAM/304/2002, de 8 de febrero, por la cual se publican las operaciones de valorización y eliminación de residuos y la lista europea de residuos.

Correción de errores de la Orden MAM/304/2002, de 8 de febrero, por la cual se publican las operaciones de valorización y eliminación de residuos y la lista europea de residuos.

I2RA - DISPOSICIÓ DE RESIDUS A MONODIPÒSIT O CENTRE AUTORITZAT

0.- ELEMENTS QUE CONTEMPLA EL PLEC

I2RA8500,I2RA8620,I2RA71H0.

1.- DEFINICIÓ I CONDICIONS DE LES PARTIDES D'OBRA EXECUTADES

Operacions de càrrega i transport, o de transport amb temps d'espera per a la càrrega, de terres, material d'excavació i residus de la construcció i operacions de tria dels materials sobrants i de rebuig que es generen a l'obra, o en un enderroc, per tal de classificar-los en funció del lloc on es dipositaran o es reutilitzaran.

S'han considerat els tipus següents:

- Descàrrega i emmagatzematge dels residus de l'obra en un lloc especialitzat, d'acord amb el tipus de residu.

DISPOSICIÓ DE RESIDUS:

Cada material, en funció de la seva classificació de tipus de residu, s'ha de disposar en un lloc adequat, legalment autoritzat per al tractament o emmagatzematge d'aquell tipus de residu.

2.- CONDICIONS DEL PROCÉS D'EXECUCIÓ

RESIDUS DE LA CONSTRUCCIÓ:

La manipulació dels materials s'ha de fer amb les proteccions adequades a la perillositat del mateix.

3.- UNITAT I CRITERIS D'AMIDAMENT

DISPOSICIÓ DE RUNA O RESIDUS INERTS:

m3 de volum de cada tipus de residu dipositat a l'abocador o centre de recollida corresponent.

DISPOSICIÓ DE RESIDUS NO ESPECIALS O ESPECIALS:

kg de pes de cada tipus de residu dipositat a l'abocador o centre de recollida corresponent.

DEPOSICIÓ DE RESIDUS:

La unitat d'obra inclou tots els canons, taxes i despeses per la disposició de cada tipus de residu al centre corresponent.

4.- NORMATIVA DE COMPLIMENT OBLIGATORI

Ley 10/1998, de 21 de abril, de Residuos.

Decret 201/1994, de 26 de juliol, regulador dels enderrocs i altres residus de la construcció.

Real Decreto 108/1991, de 1 de febrero, sobre la prevención y reducción de la contaminación del medio ambiente producida por el amianto.

Decret 161/2001 de 12 de juny, de modificació del Decret 201/1994 de 26 de juliol, regulador dels enderrocs i altres residus de la construcció.

Decret 34/1996, de 9 de gener, pel qual s'aprova el Catàleg de residus de Catalunya.

Decret 92/1999, de 6 d'abril, de modificació del Decret 34/1996, de 9 de gener, pel qual s'aprova el catàleg de Residus de Catalunya.

Reial Decret 105/2008, d'1 de febrer, per el que es regula la producció i gestió dels residus de construcció i enderroc.

Orden MAM/304/2002, de 8 de febrero, por la cual se publican las operaciones de valorización y eliminación de residuos y la lista europea de residuos.

Correción de errores de la Orden MAM/304/2002, de 8 de febrero, por la cual se publican las operaciones de valorización y eliminación de residuos y la lista europea de residuos.

ANNEX 06 – ESTUDI DE SEGURETAT I SALUT

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Plànols

Plec de condicions

Pressupost

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1. OBJECTE DE L'ESTUDI DE SEGURETAT I SALUT

1.1. Identificació de les obres

Projecte executiu d'instal·lació de coberta a les pistes poliesportives del pavelló del Temple.

1.2. Objecte

El present Estudi de Seguretat i Salut (E.S.S.) té com a objectiu establir les bases tècniques, per fixar els paràmetres de la prevenció de riscos professionals durant la realització dels treballs d'execució de les obres del Projecte objecte d'aquest estudi, així com complir amb les obligacions que es desprenen de la Llei 31 / 1995 i del RD 1627 / 1997, amb la finalitat de facilitar el control i el seguiment dels compromisos adquirits al respecte per part del/s Contractista/es.

En el present Estudi de Seguretat i Salut s'ha dut a terme un estudi aprofundit dels riscos inherents a l'execució de l'obra i de les mesures preventives i cautelars consegüents per garantir la seguretat de les persones en l'execució de les obres en compliment del que determina la Llei 3/2007 del 4 de juliol de l'obra pública en el seu article 18.3.h).

D'aquesta manera, s'integra en el Projecte Executiu/Constructiu, les premisses bàsiques per a les quals el/s Contractista/es constructor/s pugui/n preveure i planificar, els recursos tècnics i humans necessaris per a l'acompliment de les obligacions preventives en aquest centre de treball, de conformitat al seu Pla d'Acció Preventiva propi d'empresa, la seva organització funcional i els mitjans a utilitzar, havent de quedar tot allò recollit al Pla de Seguretat i Salut, que haurà/n de presentar-se al Coordinador de Seguretat i Salut en fase d'Execució, amb antelació a l'inici de les obres, per a la seva aprovació i l'inici dels tràmits de Declaració d'Obertura davant l'Autoritat Laboral.

En cas de què sigui necessari implementar mesures de seguretat no previstes en el present Estudi, a petició expressa del coordinador de seguretat i salut en fase d'execució de l'obra, el contractista elaborarà el corresponent annex al Pla de Seguretat i Salut de l'obra que desenvoluparà i determinarà les mesures de seguretat a dur a terme amb la memòria, plec de condicions, amidaments, preus i pressupost que li siguin d'aplicació si n'és el cas.

1.3. Descripció del projecte

Descripció general de l'obra

- Enderrocs i demolicions
- Moviments de terres
- Fonamentació
- Estructura i coberta
- Paviments i tancaments
- Instal·lacions.

2. PROMOTOR – PROPIETARI

Promotor:	Ajuntament de Tortosa
NIF:	P4315700G
Adreça:	Pl. Espanya, 1
Població:	43500 – Tortosa

3. AUTOR/S DE L'ESTUDI DE SEGURETAT I SALUT

Redactor E.S.S.:	Àngel Mulet Baubí – Alter Enginyeria Aplicada, SLP
Titulació:	Enginyer de camins, canals i ports
Col·legiat núm.:	31.205
Població:	43500 - Tortosa

4. DADES DEL PROJECTE

4.1. Autor del projecte

Autor del projecte:	Àngel Mulet Baubí – Alter Enginyeria Aplicada, SLP
Titulació:	Enginyer de camins, canals i ports
Col·legiat núm.:	31.205
Població:	Tortosa

4.2. Coordinador de Seguretat durant l'elaboració del projecte

Coordinador de S. i S. en fase de projecte:	Àngel Mulet Baubí – Alter Enginyeria Aplicada, SLP
Titulació:	Enginyer de camins, canals i ports
Col·legiat núm.:	31.205
Població:	Tortosa

4.3. Tipologia de l'obra

Les tipologies d'obra són:

- Enderrocs i demolicions
- Moviments de terres
- Fonamentació
- Estructura i coberta
- Paviments i tancaments
- Instal·lacions.

4.4. Situació

Emplaçament:	Pistes poliesportives adjacents al pavelló del Temple, a la zona coneguda com a Portals de Tortosa.
Població:	Tortosa (Baix Ebre)

4.5. Comunicacions

No s'inclouen en aquest projecte.

4.6. Subministraments i serveis

- L'enllumenat públic de l'àmbit afectat, amb aprofitament i recol·locació de lluminàries.

- La il·luminació de la nova pista esportiva sota de la coberta.

4.7. Localització de serveis assistencials, salvament i seguretat i mitjans d'evacuació

Als plànols del present estudi s'indiquen tots els punts d'assistència, seguretat i comunicacions pròxims a l'obra.

4.8. Pressupost d'execució material del projecte

El Pressupost d'Execució Material (PEM) estimat de referència per a aquest projecte, excloses les Despeses Generals i Benefici Industrial, és de: **229.991,34 €**.

4.9. Termini d'execució

El termini estimat de duració dels treballs d'execució de l'obra és de 3 mesos.

4.10. Mà d'obra prevista

L'estimació de mà d'obra en punta d'execució és de 8 persones.

4.11. Oficis que intervenen en el desenvolupament de l'obra

Cap de colla
Oficial 1a
Oficial 1a paleta
Oficial 1a muntador
Ajudant
Manobre

4.12. Tipologia dels materials a utilitzar a l'obra

ADDITIUS I ADDICIONS PER A FORMIGONS, MORTERS I BEURADES
BARRERES
CLAUS
FILFERROS
FORMIGONS SENSE ADDITIUS

GRANULATS PER A PAVIMENTS AMB LLIGANTS HIDROCARBONATS
LLIGANTS HIDROCARBONATS
MATERIALS AUXILIARS PER A DRENATGES
MATERIALS AUXILIARS PER A ENCOFRATS I APUNTALAMENTS
MATERIALS AUXILIARS PER A PROTECCIONS DE VIALITAT
MORTERS AMB ADDITIUS
NEUTRES
PEDRES PER A FORMACIÓ D'ESCULLERES
PINTURES, PASTES I ESMALTS
PLANXES I PERFILS D'ACER
PRODUCTES DE TRACTAMENT PER A FORMIGONS, MORTERS I BEURADES
PUNTALS
SENYALS
TACS I VISOS
TAULERS
TAULONS
TERRES
TOT-U
TUBS CIRCULARS DE FORMIGÓ

4.13. Maquinària prevista per a executar l'obra

Retroexcavadora de 74 hp, amb martell de 200 kg a 400 kg
Retroexcavadora de 95 hp, amb martell de 800 kg a 1500 kg
Compressor portàtil, amb dos martells pneumàtics de 20 kg a 30 kg
Equip de màquina de serra de disc de diamant per a tallar
Pala carregadora de 170 hp, tipus CAT-950 o equivalent
Excavadora-carregadora de 385 hp, tipus CAT-245 o equivalent
Retroexcavadora de 74 hp, tipus CAT-428 o equivalent
Motoanivelladora de 150 hp
Corró vibratori autopropulsat de 12 a 14 t
Picó vibrant dúplex de 1300 kg
Camió de 250 hp, de 20 t (9,6 m3)
Camió cisterna de 6000 l
Camió grua de 5 t
Grua autopropulsada de 12 t
Dúmper de 1500 Kg
Furgoneta de 3500 kg
Vibrador intern de formigó
Camió amb bomba de formigonar
Bituminadora automotriu per a reg asfàltic
Estenedora de granulat
Escombradora autopropulsada
Màquina tallajunts
Màquina per a clavar muntants metàl·lics
Regle vibratori per a formigonat de soleres
Equip i elements auxiliars per a soldadura elèctrica
Equip i elements auxiliars per a tall oxiacetilenic
Màquina per a doblegar rodó d'acer
Cisalla elèctrica
Grup electrògen de 45/60 kVA, amb consums inclosos
Compressor portàtil de 7/10 m3/min de cabal.

5. INSTAL·LACIONS PROVISIONALS

5.1. Instal·lació elèctrica provisional d'obra

Es preveu que el contractista realitzi l'obra mitjançant grup electrogen. En el Pla de Seguretat haurà d'especificar quin tipus i model, i s'haurà d'utilitzar grups electrògens amb el marcatge CE prioritàriament o adaptats al RD 1215/1997.

El grups electrògens es detecten els següents riscos:

- Cops contra objectes immòbils.
- Cops i contactes amb elements mòbils de la màquina.
- Contactes tèrmics i elèctrics.
- Inhalació o ingestió d'agents químics perillosos.
- Risc de danys a la salut derivats de l'exposició a agents físics: sorolls i vibracions.

Mesures preventives:

- Cal formació específica per a la utilització d'aquest equip.
- S'han de seguir les instruccions del fabricant.
- Cal mantenir les zones de treball netes i ordenades.
- Quan la potència del grup superi els 10 kilowatts, cal que un tècnic competent elabori un projecte d'instal·lació del grup electrogen.

Mesures d'ús i manteniment:

- Abans de començar a treballar, cal netejar els possibles vessaments d'oli o combustible que hi pugui haver.
- Cal proveir de combustible amb el motor aturat.
- Cal assegurar la connexió i comprovar periòdicament el funcionament correcte de la presa a terra i assegurar el correcte enfonsament de la piqueta.
- S'ha d'evitar la presència de cables elèctrics en les zones de pas.
- S'ha d'evitar respirar vapors de combustible.
- Han de ser reparats per personal autoritzat.
- La connexió o subministrament elèctric s'ha de realitzar amb mànega antihumitat.
- Les operacions de neteja i manteniment s'han d'efectuar després d'haver desconnectat prèviament la xarxa elèctrica.

- No es poden fer treballs a prop del seu tub d'escapament.
- No s'han de fer treballs de manteniment amb el grup en funcionament.
- Cal revisar periòdicament tots els punts d'escapament del motor.
- S'ha de situar el grup a una distància mínima de 2 m de les vores de coronació de les excavacions.
- Cal desconnectar aquest equip de la xarxa elèctrica quan no s'utilitzi.
- S'han de fer manteniments periòdics a aquests equips.

Els grups electrògens no són unitats d'abonament en l'obra. I s'han d'emprar en totes aquelles tasques on es necessiti d'energia elèctrica i no es disposi de cap més font de subministrament d'energia elèctrica.

5.2. Instal·lació d'aigua provisional d'obra

L'obra s'executa en terreny urbà amb de xarxa d'aigua propera.

El contractista sol·licitarà una escomesa d'aigua provisional a l'Ajuntament de Tortosa.

5.3. Instal·lació de sanejament

A l'obra es disposarà d'una cabina sanitària tipus PolyKlyn.

5.4. Altres instal·lacions. Prevenció i protecció contra incendis.

Per als treballs que comportin la introducció de flama o d'equip productor d'espurnes a zones amb risc d'incendi o d'explosió, caldrà tenir un permís de forma explícita, fet per una persona responsable, on al costat de les dates inicial i final, la naturalesa i la localització del treball, i l'equip a usar, s'indicaran les precaucions a adoptar respecte als combustibles presents (sòlids, líquids, gasos, vapors, pols), neteja prèvia de la zona i els mitjans addicionals d'extinció, vigilància i ventilació adequats.

Les precaucions generals per la prevenció i la protecció contra incendis seran les següents

- La instal·lació elèctrica haurà d'estar d'acord amb allò establert a la Instrucció M.I.B.T. 026 del vigent Reglament Electrotècnic de Baixa Tensió per a locals amb risc d'incendis o explosions.
- Es limitarà la presència de productes inflamables en els llocs de treball a les quantitats estrictament necessàries perquè el procés productiu no s'aturi. La resta es guardarà en locals diferents al de treball, i en el cas que això no fos possible es farà en recintes aïllats i condicionats. En tot cas, els locals i els recintes aïllats compliran allò especificat a la Norma Tècnica „MIE-APQ-001 Almacenamiento de líquidos inflamables y combustibles" del Reglament sobre Emmagatzematge de Productes Químics.

- S'instal·laran recipients contenidors hermètics i incombustibles en què s'hauran de dipositar els residus inflamables, retalls, etc.

- Es col·locaran vàlvules antirretorn de flama al bufador o a les mànegues de l'equip de soldadura oxiacetilènica.

- Els camins d'evacuació estaran lliures d'obstacles. Existirà una senyalització indicant els llocs de prohibició de fumar, situació d'extintors, camins d'evacuació, etc.

- Han de separar-se clarament els materials combustibles els uns dels altres, i tots ells han d'evitar qualsevol tipus de contacte amb equips i canalitzacions elèctriques.

- La maquinària, tant fixa com mòbil, accionada per energia elèctrica, ha de tenir les connexions de corrent ben realitzades, i en els emplaçaments fixos, se l'haurà de proveir d'aïllament al terra. Tots els devessalls, ensegellats i deixalles que es produeixin pel treball han de ser retirats amb regularitat, deixant nets diàriament els voltants de les màquines.

- Les operacions de transvasament de combustible han d'efectuar-se amb bona ventilació, fora de la influencia d'espurnes i fonts d'ignició. Han de preveure's també les conseqüències de possibles vessaments durant l'operació, pel que caldrà tenir a mà, terra o sorra.

- La prohibició de fumar o encendre qualsevol tipus de flama ha de formar part de la conducta a seguir en aquests treballs.

- Quan es transvasin líquids combustibles o s'omplin dipòsits hauran de parar-se els motors accionats amb el combustible que s'està transvasant.

- Quan es fan regates o forats per permetre el pas de canalitzacions, han d'obturar-se ràpidament per evitar el pas de fum o flama d'un recinte de l'edifici a un altre, evitant-se així la propagació de l'incendi. Si aquests forats s'han practicat en parets tallafocs o en sostres, la mencionada obturació haurà de realitzar-se de forma immediata i amb productes que assegurin l'estanquitat contra fum, calor i flames.

- En les situacions descrites anteriorment (magatzems, maquinària fixa o mòbil, transvasament de combustible, muntatge d'instal·lacions energètiques) i en aquelles, altres en què es manipuli una font d'ignició, cal col·locar extintors, la càrrega i capacitat dels quals estigui en consonància amb la naturalesa del material combustible i amb el seu volum, així com sorra i terra a on es maneguin líquids inflamables, amb l'eina pròpia per estendre-la. En el cas de grans quantitats d'aplecs, emmagatzement o concentració d'embalatges o devessalls, han de completar-se els mitjans de protecció amb mànegues de rec que proporcionin aigua abundant.

- **Emplaçament i distribució dels extintors a l'obra**

Els principis bàsics per l'emplaçament dels extintors, són:

- Els extintors manuals es col·locaran, dins a les casetes d'obra o prop dels fronts de treball i sempre visibles. El contractista realitzarà un plànol amb la distribució dels extintors i tenint en compte l'avanç de l'obra. Aquest plànol serà de coneixement per tot el personal que intervingui a l'obra.

- En àrees amb possibilitats de focs „A", la distància a recórrer horitzontalment, des de qualsevol punt de l'àrea protegida fins a aconseguir l'extintor adequat més pròxim, no excedirà de 25 m.
- En àrees amb possibilitats de focs „B", la distància a recórrer horitzontalment, des de qualsevol punt de l'àrea protegida fins a aconseguir l'extintor adequat més pròxim, no excedirà de 15 m.
- Els extintors mòbils hauran de col·locar-se en aquells punts on s'estimi que existeix una major probabilitat d'originar-se un incendi, a ser possible, pròxims als fronts de treball i sempre en llocs de fàcil visibilitat i accés. En obres a cel obert, tota la maquinària disposarà d'extintor, a més l'encarregat de l'obra en disposarà un a cada front de treball.

6. SERVEIS DE SALUBRITAT I CONFORT PERSONAL

Les instal·lacions provisionals d'obra s'adaptaran a les característiques especificades al R.D. 1627/97, de 24 d'octubre, relatiu a les DISPOSICIONS MÍNIMES DE SEGURETAT I SALUT A LES OBRES DE CONSTRUCCIÓ.

Per al servei de neteja d'aquestes instal·lacions higièniques, es responsabilitzarà a una persona o un equip, els quals podran alternar aquest treball amb altres propis de l'obra.

Per l'execució d'aquesta obra, es disposarà de les instal·lacions del personal que es defineixen i detallen tot seguit.

6.1. Serveis higiènics

S'instal·larà un mòdul sanitari en la zona d'aplec de materials, tipus PolyKlyn. S'anirà traslladant segons es desenvolupi l'obra.

6.2. Vestuaris

El mòdul de vestuaris s'instal·larà a la zona d'aplec de materials i terres, i anirà equipat amb tot el necessària per al confort dels treballadors.

6.3. Menjador

El mòdul de menjador s'instal·larà a la zona d'aplec de materials i terres, i anirà equipat amb tot el necessària per al confort dels treballadors.

6.4. Local d'assistència a accidentats

Al ser una obra amb un índex inferior d'ocupació de 25 persones, podrà ser suficient disposar d'una farmaciola portàtil. El manteniment i vigilància d'aquesta la realitzarà el recurs preventiu de l'obra.

El Servei de Prevenció de l'empresa contractista establirà els medis materials i humans addicionals per tal d'efectuar la Vigilància de la Salut d'acord al que estableix la llei 31/95.

A més, es disposarà d'una farmaciola portàtil amb el contingut següent:

- desinfectants i antisèptics autoritzats,
- gases estèrils,
- cotó hidròfil,
- benes,
- esparadrap,
- apòsits adhesius,
- estisores,
- pinces,
- guants d'un sol ús.

El material de primers auxilis es revisarà periòdicament, i es reposarà de manera immediata el material utilitzat o caducat, aquesta partida no es abonable en matèria de seguretat i salut. a les obres.

7. ÀREES AUXILIARS

7.1. Zones d'apilament. Magatzems

Els materials emmagatzemats a l'obra, hauran de ser els compresos entre els valors "mínims-màxims", segons una adequada planificació, que impedeixi estacionaments de materials i/o equips inactius que puguin ésser causa d'accident.

Els Mitjans Auxiliars d'Utilitat Preventiva, necessaris per a complementar la manipulació manual o mecànica dels materials apilats, hauran estat previstos en la planificació dels treballs.

Les zones d'apilament provisional estaran abalisades, senyalitzades i il·luminades adequadament.

De forma general el personal d'obra (tant propi com subcontractat) haurà rebut la formació adequada respecte als principis de manipulació manual de materials. De forma més singularitzada, els treballadors responsables de la realització de maniobres amb mitjans mecànics, tindran una formació qualificada de les seves comeses i responsabilitats durant les maniobres.

8. TRACTAMENT DE RESIDUS

El Contractista és responsable de gestionar els sobrants de l'obra de conformitat amb les directrius del D. 201/1994, de 26 de juliol, i del R.D. 105/2008, d'1 de febrer, regulador dels enderrocs i d'altres residus de construcció, a fi i efecte de minimitzar la producció de residus de construcció com a resultat de la previsió de determinats aspectes del procés, que cal considerar tant en la fase de projecte com en la d'execució material de l'obra i/o l'enderroc o desconstrucció.

Al projecte s'ha avaluat el volum i les característiques dels residus que previsiblement s'originaran i les instal·lacions de reciclatge més properes per tal que el Contractista triï el lloc on portarà els seus residus de construcció.

Els residus es lliuraran a un gestor autoritzat, finançant el contractista, els costos que això comporti.

Si a les excavacions i buidats de terres apareixen antics dipòsits o canonades, no detectades prèviament, que continguin o hagin pogut contenir productes tòxics i contaminants, es buidaran prèviament i s'aïllaran els productes corresponents de l'excavació per ser evacuats independentment de la resta i es lliuraran a un gestor autoritzat.

9. TRACTAMENT DE MATERIALS I/O SUBSTÀNCIES PERILLOSES

El Contractista es responsable d'assegurar-se per mediació de l'Àrea d'Higiene Industrial del seu Servei de Prevenció, la gestió del control dels possibles efectes contaminants dels residus o materials emprats a l'obra, que puguin generar potencialment malalties o patologies professionals als treballadors i/o tercers exposats al seu contacte i/o manipulació.

L'assessoria d'Higiene Industrial comprendrà la identificació, quantificació, valoració i propostes de correcció dels factors ambientals, físics, químics i biològics, dels materials i/o substàncies perilloses, per a fer-los compatibles amb les possibilitats d'adaptació de la majoria (gairebé totalitat) dels treballadors i/o tercers aliens exposats. Als efectes d'aquest projecte, els paràmetres de mesura s'establirà mitjançant la fixació dels valors límit TLV (Threshold Limits Values) que fan referència als nivells de contaminació d'agents físics o químics, per sota dels quals els treballadors poden estar exposats sense perill per a la seva salut. El TLV s'expressa amb un nivell de contaminació mitjana en el temps, per a 8 h/dia i 40 h/setmana.

9.1. Manipulació

En funció de l'agent contaminant, del seu TLV, dels nivells d'exposició i de les possibles vies d'entrada a l'organisme humà, el Contractista haurà de reflectir en el seu Pla de Seguretat i Salut les mesures correctores pertinents per a establir unes condicions de treball acceptables per als treballadors i el personal exposat, de forma singular a:

- Amiant.
- Plom. Crom, Mercuri, Níquel.
- Sílice.
- Vinil.

- Urea formol.
- Ciment.
- Soroll.
- Radiacions.
- Productes tixotròpics (bentonita)
- Pintures, dissolvents, hidrocarburs, coles, resines epoxi, greixos, olis.
- Gasos liquats del petroli.
- Baixos nivells d'oxigen respirable.
- Animals.
- Entorn de drogodependència habitual.

9.2. Delimitació / condicionament de zones d'apilament

Les substàncies i/o els preparats es rebran a l'obra etiquetats de forma clara, indeleble i com a mínim amb el text en idioma espanyol.

L'etiqueta ha de contenir:

- Denominació de la substància d'acord amb la legislació vigent o en el seu defecte nomenclatura de la IUPAC. Si és un preparat, la denominació o nom comercial.
- Nom comú, si és el cas.
- Concentració de la substància, si és el cas. Si és tracta d'un preparat, el nom químic de les substàncies presents.
- Nom, direcció i telèfon del fabricant, importador o distribuïdor de la substància o preparat perillós.
- Pictogrames i indicadors de perill, d'acord amb la legislació vigent.
- Riscos específics, d'acord amb la legislació vigent.
- Consells de prudència, d'acord amb la legislació vigent.
- El número CEE, si en té.
- La quantitat nominal del contingut (per preparats).

El fabricant, l'importador o el distribuïdor haurà de facilitar al Contractista destinatari, la fitxa de seguretat del material i/o la substància perillosa, abans o en el moment del primer lliurament.

Les condicions bàsiques d'emmagatzematge, apilament i manipulació d'aquests materials i/o substàncies perilloses, estaran adequadament desenvolupades en el Pla de Seguretat del Contractista, partint de les següents premisses:

- Comburents, extremadament inflamables i fàcilment inflamables

Emmagatzematge en lloc ben ventilat. Estarà adequadament senyalitzada la presència de comburents i la prohibició de fumar.

Estaran separats els productes inflamables dels comburents.

El possible punt d'ignició més pròxim estarà suficientment allunyat de la zona d'apilament.

- Tòxics, molt tòxics, nocius, carcinògens, mutagènics, tòxics per a la reproducció

Estarà adequadament senyalitzada la seva presència i disposarà de ventilació eficaç.

Es manipularà amb Equips de Protecció Individual adequats que assegurin l'estanquitat de l'usuari, en previsió de contactes amb la pell.

- Corrosius, Irritants, sensibilitzants.

Estarà adequadament senyalitzada la seva presència.

Es manipularan amb Equips de Protecció Individual adequats (especialment guants, ulleres i màscara de respiració) que assegurin l'estanquitat de l'usuari, en previsió de contactes amb la pell i les mucoses de les vies respiratòries.

10. CONDICIONS DE L'ENTORN

Ocupació del tancament de l'obra

S'entén per àmbit d'ocupació el realment afectat, incloent tanques, elements de protecció, baranes, bastides, contenidors, casetes, etc.

Cal tenir en compte que, en aquest tipus d'obres, l'àmbit pot ser permanent al llarg de tota l'obra o que pot ser necessari distingir entre l'**àmbit de l'obra** (el de projecte) i l'**àmbit dels treballs** en les seves diferents fases, a fi de permetre la circulació de vehicles i vianants o l'accés a edificis i guals.

En el PLA DE SEGURETAT I SALUT EN EL TREBALL s'especificarà la delimitació de l'àmbit d'ocupació de l'obra i es diferenciarà clarament si aquest canvia en les diferents fases de l'obra. L'àmbit o els àmbits d'ocupació quedaran clarament dibuixats en plànols per fases i interrelacionats amb el procés constructiu.

Situació de casetes i contenidors

Es col·locaran, preferentment, a l'interior de l'àmbit delimitat pel tancament de l'obra.

Si per les especials característiques de l'obra no és possible la ubicació de les casetes a l'interior de l'àmbit delimitat pel tancament de l'obra, ni és possible el seu trasllat dins d'aquest àmbit, ja sigui durant tota l'obra o durant alguna de les seves fases, s'indicaran al PLA DE SEGURETAT I SALUT les àrees previstes per aquest fi.

Les casetes, els contenidors, els tallers provisionals i l'aparcament de vehicles d'obra, es situaran segons s'indica en l'apartat "Àmbit d'ocupació de la via pública".

10.1. Serveis afectats

Els Plànols i l'altra documentació que el Projecte incorpora relatius a l'existència i la situació de serveis, cables, canonades, conduccions, arquetes, pous i en general, d'instal·lacions i estructures d'obra soterrades o aèries tenen un caràcter informatiu i no garanteixen l'exhaustivitat ni l'exactitud i per tant no seran objecte de reclamació per mancances i/o omissions. El Contractista ve obligat a la seva pròpia investigació per a la qual cosa sol·licitarà dels titulars d'obres i serveis, plànols de situació i localitzarà i descobrirà les conduccions i obres enterrades, per mitjà del detector de conduccions o per cales. Les adopcions de mesures de seguretat o la disminució dels rendiments es consideraran inclosos en els preus i, per tant, no seran objecte d'abonament independent.

10.2. Característiques meteorològiques

Els trets bàsics que caracteritzen la climatologia de la zona són:

- clima de tipus mediterrani.
- fortes oscil·lacions tèrmiques anuals.
- temperatura mitjana anual de 14,7 ºC.
- temperatures màximes estivals de fins a 40ºC que contrasten amb els
- 7,5ºC de mínima absoluta als mesos d'hivern amb gelades freqüents.
- humitat relativa mitjana anual és del 70%, amb boires persistents a l'hivern.
- sequera estival acusada amb dades de precipitació total acumulada d'uns 400 mm/any.

10.3. Característiques del terreny

Els trets bàsics que marquen les característiques geològiques principals de la zona són:

- zona geològica terciària.

10.4. Característiques de l'entorn

L'obra es desenvolupa al costat del pavelló esportiu del Temple, al barri de Tortosa que porta aquest mateix nom, a la zona d'accés a la ciutat coneguda com a Portals Nord.

11. UNITATS CONSTRUCTIVES

- ENDERROCS I DEMOLICIONS
- MOVIMENTS DE TERRES
- FONAMENTACIÓ
- ESTRUCTURA I COBERTA
- PAVIMENTS I TANCAMENTS
- INSTAL·LACIONS
    - Enllumenat
    - Il·luminació pista

12. DETERMINACIÓ DEL PROCÉS CONSTRUCTIU

El Contractista amb antelació suficient a l'inici de les activitats constructives haurà de perfilar l'anàlisi de cada una d'acord amb els "Principios de la Acción Preventiva" (Art. 15 L. 31/1995 de 8 de novembre) i els "Principios Aplicables durante la Ejecución de las Obras" (Art. 10 RD. 1627/1997 de 24 d'octubre).

12.1. Procediments d'execució

Tot i que els aspectes a examinar per a configurar cadascun dels procediments d'execució, hauran de ser desenvolupats pel Contractista i descrits en el Pla de Seguretat i Salut de l'obra, a continuació figuren, de forma esquemàtica i abreujada, els treballs a dur a terme.

- Enderrocs i demolicions
- Moviments de terres
- Fonamentació
- Estructura i coberta
- Paviments i tancaments
- Instal·lacions.

Els aspectes a examinar per a configurar cadascun dels procediments d'execució, hauran de ser desenvolupats pel Contractista i descrits en el Pla de Seguretat i Salut de l'obra.

12.2. Ordre d'execució dels treballs

Complementant els plantejaments previs realitzats en el mateix sentit per l'autor del projecte, a partir dels suposats teòrics en fase de projecte, el Contractista haurà d'ajustar, durant l'execució de l'obra, l'organització i planificació dels treballs a les seves especials característiques de gestió empresarial, de forma que resti garantida l'execució de les obres amb criteris de qualitat i de seguretat per a cadascuna de les activitats constructives a realitzar, en funció del lloc, la successió, la persona o els mitjans a emprar.

12.3. Determinació del temps efectiu de duració. Pla d'execució

Per a la programació del temps material, necessari per al desenvolupament dels distints talls de l'obra, s'han tingut en compte els següents aspectes:

LLISTA D'ACTIVITATS: Relació d'unitats d'obra.

RELACIONS DE DEPENDÈNCIA: Prelació temporal de realització material d'unes unitats respecte a altres.

DURADA DE LES ACTIVITATS: Mitjançant la fixació de terminis temporals per a l'execució de cadascuna de les unitats d'obra.

De les dades així obtingudes, s'ha establert, en fase de projecte, un programa general orientatiu, en el qual s'ha tingut en compte, en principi, tan sols les grans unitats (activitats significatives), i un cop encaixat el termini de durada, s'ha realitzat la programació previsible, reflectida en un cronograma de desenvolupament.

El Contractista en el seu Pla de Seguretat i Salut haurà de reflectir, les variacions introduïdes respecte, al procés constructiu inicialment previst en el Projecte Executiu/Constructiu i en el present Estudi de Seguretat i Salut.

13. SISTEMES I/O ELEMENTS DE SEGURETAT I SALUT INHERENTS O INCORPORATS AL MATEIX PROCÉS CONSTRUCTIU

Tot projecte constructiu o disseny d'equip, mitjà auxiliar, màquina o ferramenta a utilitzar a l'obra, objecte del present Estudi de Seguretat i Salut, s'integrarà en el procés constructiu, sempre d'acord amb els "Principios de la Acción Preventiva" (Art. 15 L. 31/1995 de 8 de novembre), els "Principios Aplicables durante la Ejecución de las Obras" (Art. 10 RD. 1627/1997 de 24 d'octubre) "Reglas generales de seguridad para màquines" (Art.18 RD. 1495/1986 de 26 de maig de 1986), i Normes Bàsiques de l'Edificació, entre altres reglaments connexos, i atenent les Normes Tecnològiques de l'Edificació, Instruccions Tècniques Complementàries i Normes UNE o Normes Europees, d'aplicació obligatòria i/o aconsellada.

14. MEDIAMBIENT LABORAL

14.1. Agents atmosfèrics

Els principals agents atmosfèrics que poden afectar a l'obra són la calor amb molta humitat, en època d'estiu, forts vents de nord-est i pluges en època de tardor i primavera, i bastant fred i gelades, en època d'hivern.

Per afrontar aquest agents els treballadors hauran de disposar del EPIs convenients per cada situació.

14.2. Il·luminació

Encara que la generalitat dels treballs de construcció es realitzen amb llum natural, hauran de tenir-se presents en el Pla de Seguretat i Salut algunes consideracions respecte a la utilització d'il·luminació artificial, necessària en talls, tallers, treballs nocturns o sota rasant.

Es procurarà que la intensitat lluminosa en cada zona de treball sigui uniforme, evitant els reflexos i enlluernaments al treballador així com les variacions brusques d'intensitat.

Les intensitats mínimes d'il·luminació artificial en la zona del pou atac de la perforació horitzonal seran els següents:

25-50 lux: En patis de llums, galeries i altres llocs de pas en funció de l'ús ocasional - habitual.

Els serveis de prevenció seran els encarregats d'estimar la magnitud o nivells del risc, les situacions en les que aquest es produeix, així com controlar periòdicament les condicions, l'organització dels mètodes de treball i la salut dels treballadors amb la finalitat de prendre les decisions per a eliminar, controlar o reduir el risc mitjançant mesures de prevenció a l'origen, organitzatives, de prevenció col·lectiva, de protecció individual, formatives i informatives.

14.3. Soroll

Per a facilitar el seu desenvolupament al Pla de Seguretat i Salut del contractista, es reprodueix un quadre sobre els nivells sonors generats habitualment en la indústria de la construcció:

Compressor	.....	82-94 dB
Equip de clavar pilots (a 15 m de distància)	.....	82 dB
Formigonera petita < 500 lts.	.....	72 dB
Formigonera mitjana > 500 lts.	.....	60 dB
Martell pneumàtic (en recinte angost)	.....	103 dB
Martell pneumàtic (a l'aire lliure)	.....	94 dB
Esmeriladora de peu	.....	60-75 dB
Camions i dumpers	.....	80 dB
Excavadora	.....	95 dB
Grua autoportant	.....	90 dB

Martell perforador	.....	110 dB
Mototrailla	.....	105 dB
Tractor d'orugues	.....	100 dB
Pala carregadora d'orugues	.....	95-100 dB
Pala carregadora de pneumàtics	.....	84-90 dB
Pistoles fixaclaus d'impacte	.....	150 dB
Esmeriladora radial portàtil	.....	105 dB
Tronçadora de taula per a fusta	.....	105 dB

Les mesures a adoptar, que hauran de ser adequadament tractades al Pla de Seguretat i Salut pel contractista, per a la prevenció dels riscos produïts pel soroll seran, en ordre d'eficàcia:

1er.- Supressió del risc en origen.

2on.- Aïllament de la part sonora.

3er.- Equip de Protecció Individual (EPI) mitjançant taps o orelleres.

Els serveis de prevenció seran els encarregats d'estimar la magnitud o els nivells de risc, les situacions en les que aquest es produeix, així com controlar periòdicament les condicions, l'organització dels mètodes de treball i la salut dels treballadors amb la finalitat de prendre les decisions per a eliminar, controlar o reduir el risc mitjançant mesures de prevenció a l'origen, organitzatives, de prevenció col·lectiva, de protecció individual, formatives i informatives

14.4. Pols

La permanència d'operaris en ambients polserígens, pot donar lloc a les següents afeccions:

- Rinitis
- Asma bronquial
- Bronquitis destructiva
- Bronquitis crònica
- Efisemes pulmonars
- Neumoconiosis
- Asbestosis (asbest – fibrociment - amiant)
- Càncer de pulmó (asbest – fibrociment - amiant)
- Mesotelioma (asbest – fibrociment - amiant)

La patologia serà d'un o d'altre tipus, segons la naturalesa de la pols, la seva concentració i el temps d'exposició.

En la construcció és freqüent l'existència de pols amb contingut de sílice lliure (Si O2) que és el component que ho fa especialment nociu, com a causant de la pneumoconiosis. El problema de presència massiva de fibres d'amiant en suspensió, necessitarà d'un Pla específic de desamiantat que excedeix a les competències del present Estudi de Seguretat i Salut, i que haurà de ser realitzat per empreses especialitzades.

La concentració de pols màxima admissible en un ambient al qual els operaris es trobin exposats durant 8 hores diàries, 5 dies a la setmana, és en funció del contingut de sílice en suspensió, el que ve donat per la fórmula:

$$C = \frac{10}{\%\ Si\ O2 + 2}\ mg / m3$$

Tenint en compte que la mostra recollida haurà de respondre a la denominada "fracció respirable", que correspon a la pols realment inhalada, ja que, de l'existent en l'ambient, les partícules més grosses són retingudes per la pituïtària i les més fines són expeses amb l'aire respirat, sense haver-se fixat en els pulmons.

Els treballs en els quals és habitual la producció de pols, són fonamentalment els següents:

- Escombrat i neteja de locals
- Manutenció de runes
- Demolicions
- Treballs de perforació
- Manipulació de ciment
- Raig de sorra
- Tall de materials ceràmics i lítics amb serra mecànica
- Pols i serradures per tronçat mecànic de fusta
- Esmerilat de materials
- Pols i fums amb partícules metàl·liques en suspensió, en treballs de soldadura
- Plantes de matxuqueix i classificació
- Moviments de terres
- Circulació de vehicles
- Polit de paraments
- Plantes asfàltiques

A més a més dels Equips de Protecció Individual necessaris, com màscares i ulleres contra la pols, convé adoptar les següents mesures preventives:

ACTIVITAT	MESURA PREVENTIVA
Neteja de locals	Ús d'aspiradora i regat previ
Manutenció de runes	Regat previ
Demolicions	Regat previ
Treballs de perforació	Captació localitzada en carros perforadors o injecció d'aigua
Manipulació de ciment	Filtres en sitges o instal·lacions confinades

Raig de sorra o granalla	Equips semiautònoms de respiració
Tall o polit de materials ceràmics o lítics	Addició d'aigua micronitzada sobre la zona de tall
Treballs de la fusta, desbarbat i soldadura elèctrica	Aspiració localitzada
Circulació de vehicles	Regat de pistes
Plantes de matxuqueix i plantes asfàltiques	Aspiració localitzada

Els serveis de prevenció seran els encarregats d'estimar la magnitud o nivells del risc, les situacions en les que aquest es produeix, així com controlar periòdicament les condicions, l'organització dels mètodes de treball i la salut dels treballadors amb la finalitat de prendre les decisions per a eliminar, controlar o reduir el risc mitjançant mesures de prevenció a l'origen, organitzatives, de prevenció col·lectiva, de protecció individual, formatives i informatives.

14.5. Ordre i neteja

El Pla de Seguretat i Salut del contractista haurà d'indicar com pensa fer front a les actuacions bàsiques d'ordre i neteja en la materialització d'aquest projecte, especialment pel que fa a:

1er.- Retirada dels objectes i coses innecessàries.

2on.- Emplaçament de les coses necessàries en el seu respectiu lloc d'apilament.

3er.- Normalització interna d'obra dels tipus de recipients i plataformes de transport de materials a granel. Pla de manutenció intern d'obra.

4art.- Ubicació dels baixants de runes i recipients per a apilament de residus i la seva utilització. Pla d'evacuació de residus.

5è.- Neteja de claus i restes de material d'encofrat.

6è.- Desallotjament de les zones de pas, de cables, mànegues, fleixos i restes de matèria. Il·luminació suficient.

7è.- Retirada d'equips i ferramentes, descansant simplement sobre superfícies de suport provisionals.

8è.- Drenatge de vessaments en forma de tolls de carburants o greixos.

9è.- Senyalització dels riscos puntuals per falta d'ordre i neteja.

10è.- Manteniment diari de les condicions d'ordre i neteja. Brigada de neteja.

11è.- Informació i formació exigible als gremis o als diferents participants en els treballs directes i indirectes de cada partida inclosa en el projecte en el que és relatiu al manteniment de l'ordre i neteja inherents a l'operació realitzada.

En els punts de radiacions el consultor hauria d'identificar els possibles treballs on es poden donar aquest tipus de radiacions i indicar les mesures protectores a prendre.

14.6. Radiacions no ionitzants

Són les radiacions amb la longitud d'ona compresa entre 10-6 cm i 10 cm, aproximadament.

Normalment, no provoquen la separació dels electrons dels àtoms dels que formen part, però no per això deixen de ser perilloses. Comprenen: Radiació ultraviolada (UV), infraroja (IR), làser, microones, ultrasònica i de freqüència de ràdio.

Les radiacions no ionitzants són aquelles regions de l'espectre electromagnètic on l'energia dels fotons emesos és insuficient. Es considera que el límit més baix de longitud d'ona per a aquestes radiacions no ionitzants és de 100 nm (nanòmetre) inclosos en aquesta categoria estan les regions comunament conegudes com bandes infraroja, visible i ultraviolada.

Els treballadors més freqüents i intensament sotmesos a aquests riscos són els soldadors, especialment els de soldadura elèctrica.

Radiacions infraroges

Aquest tipus de radiació és ràpidament absorbida per els teixits superficials, produint un efecte d'escalfament. En el cas dels ulls, a l'absorbir-se la calor pel cristal·lí i no dispersar-se ràpidament, pot produir cataractes. Aquest tipus de lesió s'ha considerat la malaltia professional més probable en ferrers, bufadors de vidre i operaris de forns.

Totes les fonts de radiació IR intensa hauran d'estar dotades de sistemes de protecció tant propers a la font com sigui possible, per aconseguir la màxima absorció de calor i prevenir que la radiació penetri als ulls dels operaris. En cas d'utilització d'ulleres normalitzades, haurà d'incrementar-se adequadament la il·luminació del recinte, de manera que s'eviti la dilatació de la pupil·la de l'ull.

A les obres de construcció, els treballadors que estan més freqüentment exposats a aquestes radiacions són els soldadors, especialment quan realitzen soldadures elèctriques. Així mateix, s'ha de considerar l'entorn de l'obra, com a possible font de les radiacions.

La resposta primària a aquestes absorcions d'energia és de tipus tèrmic, afectant principalment a la pell en forma de: cremades agudes, augment de la dilatació dels vasos capil·lars i un increment de la pigmentació que pot ser persistent.

De forma general, tots aquells processos industrials realitzats en calent fins a l'extrem de desprendre llum, generen aquest tipus de radiació.

Radiacions visibles

L'òrgan afectat més important és l'ull, sent transmeses aquestes longituds d'ona, a través dels mitjans oculars sense apreciable absorció abans d'aconseguir la retina.

Radiacions ultraviolades

La radiació UV és aquella que té una longitud d'ona entre els 400 nm (nanometres) i els 10 nm. Queda inclosa dins de la radiació solar, i es genera artificialment per a molts propòsits en indústries, laboratoris i hospitals. Es divideix convencionalment en tres regions:

UVA: 315 - 400 nm de longitud d'ona.

UVB: 280 - 315 nm de longitud d'ona.

UVC: 200 - 280 nm de longitud d'ona.

La radiació a la regió UVA, la més propera a l'espectre UV, és emprada àmpliament a la indústria i representa poc risc, pel contrari les radiacions UVB i UVC, són més perilloses. La norma més completa és nord americana i està, acceptada per la WHO (World Health Organization).

Les radiacions a les regions UVB i UVC tenen efectes biològics que varien marcadament amb la longitud d'ona, sent màxims entorn als 270 nm (la llàntia de quars amb vapor de mercuri a baixa pressió té una emissió a 254 nm aproximadament). També varien amb el temps d'exposició i amb la intensitat de la radiació. La exposició radiant d'ulls o pell no protegits, per a un període de vuit hores haurà d'estar limitada.

La protecció contra la sobreexposició de fonts potents que poden constituir riscos, haurà de dur-se a terme mitjançant la combinació de mesures organitzatives, d'apantallaments o resguards i de protecció personal. Sense oblidar que s'ha d'intentar substituir el que és perillós pel que comporta poc o cap risc, d'acord a la llei de prevenció de riscos laborals.

S'haurà de posar especial èmfasi en els apantallaments i en les mesures de substitució, per a minimitzar el tercer, que implica la necessitat de protecció personal. Tots els usuaris de l'equip generador de radiació UV han de conèixer perfectament la naturalesa dels riscos involucrats. En l'equip, o prop d'ell, s'han de disposar senyals d'advertència adequades al cas. La limitació d'accés a la instal·lació, la distància de l'usuari respecte a la font i la limitació del temps d'exposició, constitueixen mesures organitzatives a tenir en compte.

No es poden emetre de forma indiscriminada radiacions UV en l'espai de treball, per exemple realitzant l'operació en un recinte confinat o en una àrea adequadament protegida. Dins de l'àrea de protecció, s'ha de reduir la intensitat de la radiació reflexada, emprant pintures de color negre mate. En el cas de fonts potents, on se sospiti que sigui possible una exposició per sobre del valor límit admissible, haurà de disposar-se de mitjans de protecció que dificultin i facin impossible el flux radiant lliure, directe i reflexat. Quant la naturalesa del treball requereixi que l'usuari operi junt a una font de radiació UV no protegida, haurà de fer-se ús dels mitjans de protecció personal. Els ulls estaran protegits amb ulleres o màscara de protecció facial, de manera que s'absorbeixin les radiacions que sobre ells incideixin. Anàlogament, hauran de protegir-se les mans, utilitzant guants de cotó, i la cara, emprant qualsevol tipus de protecció facial.

L'exposició dels ulls i pell no protegits a la radiació UV pot conduir a una inflamació dels teixits, temporal o prolongada, amb riscos variables. En el cas de la pell, pot donar lloc a un eritema similar a una cremada solar i, en el cas dels ulls, a una conjuntivitis i queratitis (o inflamació de la còrnia), de resultats imprevisibles.

La font és bàsicament el sol però també es troben en les activitats industrials de la construcció: llums fluorescents, incandescents i de descàrrega gasosa, operacions de soldadura (TIG-MIG), bufador d'arc elèctric i làsers.

Les mesures de control per a prevenir exposicions indegudes a les radiacions no ionitzants se centren en l'emprament de pantalles, blindatges i Equips de Protecció Individual (per exemple pantalla de soldadura amb visor de cèl·lula fotosensible), procurant mantenir distàncies adequades per a reduir, tenint en compte l'efecte de proporcionalitat inversa al quadrat de la distància, la intensitat de l'energia radiant emesa des de fonts que es propaguen en diferent longitud d'ona.

Làser

La missió d'un làser és la de produir un raig d'alta densitat i s'ha emprat en camps tan diversos com cirurgia, topografia o comunicació. Es construeixen unitats amb força polsant o continua de radiació, tant visible com invisible. Aquestes unitats, si són suficientment potents, poden danyar la pell i, en particular, els ulls si estan exposats a la radiació. La unitat polsant d'alta energia és particularment perillosa quan el polze curt de radiació impacte en el teixit causant una amplia lesió al voltant del mateix. Els làsers d'ona continua també poden causar danys en els ulls i la pell. Els de radiació IR i V presentaran perill per a la retina, en forma de cremades; els de radiació UV e IR poden suposar un risc per a la còrnia i el cristal·lí. D'una manera general, la pell és menys sensible a la radiació làser i en el cas d'unitats de radiació V i IR de grans potències, poden ocasionar cremades.

Els làsers s'han classificat, d'acord amb els riscos associats al seu ús, en els dos grups i quatre classes següents:

Grup A: unitats intrínsecament segures i aquelles que cauen dins de les classes I y II.

- Classe I: els nivells d'exposició màxima permissible no poden ser excedits.
- Classe II: de risc baix; emissió limitada a 1 mW en menys de 0,25 s, entre 400 nm i 700 nml; es preveuen els riscos per desviament de la radiació reflexada incloent la resposta de centelles.

Grup B: tots els làsers presents o de ona continua amb potencia major d'1 mW, com es defineix a les classes IIIa, IIIb i IV respectivament.

- Classe IIIa: risc baix; emissió limitada a 5 vegades la corresponent a la classe II; l'ús d'instruments òptics pot resultar perillós.
- Classe IIIb: risc mitjà; major límit d'emissió; l'impacte sobre l'ull pot resultar perillós, però no respecte a la reflexió difusa.
- Classe IV: risc alt; major límit d'emissió; l'impacte per reflexió difusa pot ser perillós; poden causar foc i cremar la pell. El grau de protecció necessari depèn de la longitud d'ona i de l'energia emesa per la radiació. Qualsevol equip base s'ha de dissenyar d'acord amb mesures de seguretat apropiades, com per exemple, encaixonament protector, obturador d'emissió, senyal automàtica de emissió, etc.

Els làsers poden produir llum visible (400-700 nm), alguna radiació UV (200-400 nm), o comunament radiació IR (700 nm – 1 m).

A continuació, es presenta una guia de riscos associats amb unitats concretes de raigs làser:

- Amb làsers de la classe IIIa (< 5 mW), s'ha de prevenir únicament la visió directa del raig.

- Amb els de la classe IIIb i potències compreses entre 5 mW y 500 mW, s'ha de prevenir l'impacte de la radiació directa i de reflexió especular, en els ulls no protegits, que pot resultar perillós.

- Amb làsers de la classe IV i potències majors de 500 mW, s'ha de prevenir l'impacte de la radiació directa, de les reflexions secundaries i de les reflexions difuses, que pot resultar perillós.

A més dels riscos associats a aquest tipus de radiació, s'ha de tenir en compte els deguts a les unitats d'energia elèctrica emprats per a subministrar energia a l'equip làser. A continuació, es dóna un codi de pràctica que cobreix personal, àrea de treball, equip i operació, respectivament, en l'ús de làsers.

Tots els usuaris s'han de sotmetre a un examen oftalmològic periòdicament, fent èmfasi especial en les condicions de la retina. Les persones que treballen amb la classe IIIb i IV, tindran al mateix temps un examen mèdic d'inspecció de danys a la pell.

- Amb prioritat a qualsevol autorització, el contractista s'assegurarà que els operaris autoritzats estan degudament entrenats tant en procediment de treball segur com en el coneixement dels riscos potencials associats amb la radiació i equip que la genera.

- Qualsevol exposició accidental que suposi impacte en els ulls, haurà de ser registrada i comunicada al departament mèdic.

- La pràctica amb làser del grup B requereix la mesura general de protecció ocular, però que mai serà utilitzada per visió directa del raig.

- Àrea de treball:

  – L'equip làser s'instal·larà en una àrea o recinte degudament controlats. La il·luminació del recinte haurà de ser tal manera que eviti la dilatació de la pupil·la de l'ull i així disminuir la possibilitat de lesió.

  – Els raigs làser reflectits poden ser tant perillosos com els directes, i per tant, hauran d'eliminar-se les superfícies reflectants i polides.

  – A l'àrea de treball s'haurà d'investigar periòdicament la presència de qualsevol gas tòxic que pugui generar-se durant el treball, per exemple, l'ozó.

  – S'han de col·locar senyals lluminoses d'advertència en totes les zones d'entrada als recintes en els que els làsers funcionin. Quant la senyal estigui en acció, haurà de prohibir-se l'accés al mateix. L'equip de subministrament de potència al làser ha de disposar de protecció especial.

  – Allà on sigui necessari, s'ha de prevenir la possibilitat de desviament del raig fora de l'àrea de control, mitjançant proteccions i blindatges. En el cas de radiació IR, ha d'emprar-se materials no inflamables per a proporcionar aquestes barreres físiques al voltant del làser. En aquests casos, s'ha d'evitar la proximitat de materials inflamables o explosius.

- Equip:

- Qualsevol operació de manteniment haurà de dur-se solament si la força està desconnectada.
- Tots els làsers, hauran de disposar de rètols d'advertència que tindran en compte la classe de làser a que correspon i el tipus de radiació visible o invisible que genera l'aparell.
- Quan els aparells que pertanyen al grup B no s'utilitzin, s'hauran de treure les claus de control d'engegada, així com la de control de força, que quedaran custodiades per la persona responsable autoritzada per el treball amb làser en el laboratori.
- Les ulleres protectores normalitzats, hauran de comprovar-se regularment i han de seleccionar-se d'acord amb la longitud d'ona de la radiació emesa per el làser en ús.
- Qualsevol protector de pantalla que s'utilitzi, haurà de ser de material absorbent que previngui la reflexió especular.

- Operació:

- Únicament el mínim nombre de persones requerides en l'operació es trobaran dins de l'àrea de control; no obstant, en el cas de làser de la classe IV, al menys dos persones estaran sempre presents durant l'operació.
- Únicament personal autoritzat tindrà permís per a muntar, ajustar i operar l'equip de làser.
- L'equip de làser haurà d'operar el temps mínim requerit per a la realització dels treballs, no es deixarà en funcionament sense estar vigilat.
- Com a procediment de protecció general, hauran d'utilitzar-se ulleres que previnguin el risc de dany ocular.
- L'equip de làser haurà de ser muntat a una alçada que mai superi la corresponent al pit de l'operador.
- S'ha de tenir especial cura en la radiació làser invisible, essent essencial la utilització d'un escut protector al llarg de tota la trajectòria.
- Donat que els làsers polsants presenten un risc incrementat per l'operador, com a guia d'alineació del raig, han d'emprar-se làsers de baixa potència d'heli o neó que pertanyin a la classe II, i no conformar-se amb una indicació somera de la direcció que adoptarà el raig. En aquests casos, sempre s'ha d'utilitzar la protecció ocular.

Els serveis de prevenció seran els encarregats d'estimar la magnitud o nivells del risc, les situacions en les que aquest es produeix, així com controlar periòdicament les condicions, l'organització dels mètodes de treball i la salut dels treballadors amb la finalitat de prendre les decisions per a eliminar, controlar o reduir el risc mitjançant mesures de prevenció en l'origen, organitzatives, de prevenció col·lectiva, de protecció individual, formatives i informatives.

En construcció acostuma a emprar-se monogràficament en l'establiment d'alineacions i nivells topogràfics.

Per la seva extrema perillositat, quan el làser estigui enfocat paral·lel al sòl, l'àrea de perill s'haurà d'acordonar. L'Equip de Protecció Individual contra el làser són les ulleres de protecció completa, amb el visor dotat del filtre adequat al tipus de làser que es tracti.

14.7. Radiacions ionitzants

Dins de l'àmbit de la construcció existeixen pocs treballs propis en els que es generen aquests tipus de riscos, malgrat que si existeixen situacions on es puguin donar aquest tipus de radiació, com són:

- Detecció de defectes de soldadura o esquerdes en canonades, estructures i edificis.
- Control de densitats "in situ" pel mètode nuclear.
- Control d'irregularitats en el nivell d'emplenat de recipients o grans dipòsits.
- Identificació de trajectòries, emprant traçadors en corrents hidràuliques, sediments, moviment a dojo, etcètera.

Serà obligació del contractista amb la col·laboració del seu servei de prevenció determinar un procediment de treball segur per a realitzar les esmentades operacions.

També es pot considerar una possible generació de riscos en treballs realitzats dintre d'un entorn o en proximitat de determinades instal·lacions, com poden ser:

- Les instal·lacions on es realitzin exàmens de maletes i embalums en els aeroports; detecció de cartes bomba.
- Les instal·lacions mèdiques on es realitzin pràctiques de teràpia, mitjançant radiacions ionizants.
- Les instal·lacions mèdiques on es realitzen pràctiques de diagnòstic amb raigs X amb equips amb un potencial d'operació per disseny, sigui major de 70 Kilovolts.
- Les instal·lacions mèdiques on es manipula o es tracti material radioactiu, en forma de fonts no segellades, per a ús en teràpia o diagnòstic amb tècniques "in vivo".
- Les instal·lacions d'ús industrial on es tracti o manipuli material radioactiu.
- Els acceleradors de partícules o d'investigació o d'ús industrial.
- Les instal·lacions i equips per a gammagrafía o radiografia industrial, sigui mitjançant l'ús de fonts radioactius o equips emissors de raig X.
- Els dipòsits de residus radioactius, tant transitoris com definitius.
- Les instal·lacions on es produeixin, fabriqui, repari o es faci manutenció de fonts o equips generadors de radiacions ionitzants.
- Control d'irregularitats en l'espessor de blocs de paper, làmines de plàstic i fulles de metall o en el nivell d'omplenat de recipients o grans dipòsits.
- Estimació de l'antiguitat de substàncies, emprant el carboni-14 o altres isòtops, com l'argó-40 o el fòsfor-32.

- Il·luminació passiva de rellotges o de sortides d'emergència.

Les funcions de protecció radiològica són responsabilitat del titular de la instal·lació, essent el Consell de Seguretat Nuclear el qui decidirà si han de ser encomanades a un Servei de Protecció Radiològica propi del titular o a una Unitat Tècnica de Protecció Radiològica contractada a l'efecte.

La reacció d'un individu a l'exposició a les radiacions depèn de la dosi, del volum i del tipus dels teixits irradiats.

Encara que poden ocórrer en combinació, correntment es fa una distinció entre dues classes fonamentals d'accidents per radiació, és dir: a) Irradiació externa accidental (per exemple en treballs de radiografiat de soldadura). b) Contaminació radioactiva accidental.

Els nivells màxims de dosi permesa han estat fixats tenint en compte que el cos humà pot tolerar una certa quantitat de radiació sense perjudicar el funcionament del seu organisme en general. Aquests nivells són, per a persones que treballen en Zones Controlades (per exemple edifici de contenció de central nuclear) i tenint en compte l'efecte acumulatiu de les radiacions sobre l'organisme, 5 rems per any ó 300 milirems per setmana. Per a detectar i amidar els nivells de radiació, s'empren els comptadors Geiger.

Per al control de la dosi rebuda, s'ha de tenir en compte tres factors: a) temps de treball. b) distància de la font de radiació. c) Apantallament. El temps de treball permès s'obté dividint la dosi màxima autoritzada per la dosi rebuda en un moment donat. La dosi rebuda és inversament proporcional al quadrat de la distància a la font de radiació. Els materials que s'empren habitualment com barreres d'apantallament són el formigó i el plom, encara que també se n'usen d'altres com l'acer, totxos massissos de fang, granit, calcària, etc., en general, l'espessor necessari està en funció inversa de la densitat del material.

Per a verificar les dosis de radiació rebudes s'utilitzen dosímetres individuals, que poden consistir en una pel·lícula dosimètrica o un estildosímetre integrador de butxaca. Sempre que no s'especifiqui el contrari, el dosímetre individual es durà a la butxaca o davanter de la roba de treball, tenint especial cura en no col·locar els dosímetres sobre cap objecte que absorbeixi radiació (per exemple objectes metàl·lics).

Haurà de dur-se un Llibre de registre, on figurarà les dosis rebudes per cadascun dels treballadors professionalment exposats a radiacions.

15. MANIPULACIÓ DE MATERIALS

Tota manutenció de material comporta un risc, per tant, des del punt de vista preventiu, s'ha de tendir a evitar tota manipulació que no sigui estrictament necessària, en virtut del conegut axioma de seguretat que diu que "el treball més segur és aquell que no es realitza".

Per a manipular materials és preceptiu prendre les següents precaucions elementals:

- Començar per la càrrega o material que apareix més superficialment, és dir el primer i més accessible.

- Lliurar el material, no tirar-lo.

- Col·locar el material ordenat i en cas d'apilat estratificat, que aquest es realitzi en piles estables, lluny de passadissos o llocs on pugui rebre cops o desgastar-se.
- Utilitzar guants de treball i calçat de seguretat amb puntera metàl·lica i embuatada en empenya i turmells.
- En el manejament de càrregues llargues entre dues o més persones, la càrrega pot mantenir-se en la mà, amb el braç estirat al llarg del cos, o bé sobre l'espatlla.
- S'utilitzaran les ferramentes i mitjans auxiliars adequats per al transport de cada tipus de material.
- En les operacions de càrrega i descàrrega, es prohibirà col·locar-se entre la part posterior del camió i una plataforma, pal, pilar o estructura vertical fixa.
- Si durant la descàrrega s'utilitzen ferramentes, com braços de palanca, ungles, potes de cabra o similar, disposar la maniobra de tal manera que es garanteixi el que no es vingui la càrrega damunt i que no rellisqui.

En el relatiu a la manipulació de materials el contractista en l'elaboració del Pla de Seguretat i Salut haurà de tenir en comte les següents premisses:

Intentar evitar la manipulació manual de càrregues mitjançant:

- Automatització i mecanització dels processos.
- Mesures organitzatives que eliminin o minimitzin el transport.

Adoptar Mesures preventives quan no es pugui evitar la manipulació com:

- Utilització d'ajudes mecàniques.
- Reducció o redisseny de la càrrega.
- Actuació sobre l'organització del treball.
- Millora de l'entorn de treball.

Dotar als treballadors de la formació i informació en temes que incloguin:

- Ús correcte de les ajudes mecàniques.
- Ús correcte dels equips de protecció individual.
- Tècniques segures per a la manipulació de càrregues.
- Informació sobre el pes i centre de gravetat.

Els principis bàsics de la manutenció de materials

1er.- El temps dedicat a la manipulació de materials és directament proporcional a l'exposició al risc d'accident derivat de dita activitat.

2on.-Procurar que els diferents materials, així com la plataforma de suport i de treball de l'operari, estiguin a la mateixa alçada en què s'ha de treballar amb ells.

3er.- Evitar el dipositar els materials directament sobre el terra, fer-ho sempre sobre catúfols o contenidors que permetin el seu trasllat a dojo.

4art.-Escurçar tant com sigui possible les distàncies a recórrer pel material manipulat, evitant estacionaments intermedis entre el lloc de partida del material manipulat evitant estacionaments intermedis entre el lloc de partida del material i l'emplaçament definitiu de la seva posada en obra.

5è- Traginar sempre els materials a dojo, mitjançant palonniers, catúfols, contenidors o palets, en lloc de portar-los d'un en un.

6è.- No tractar de reduir el nombre d'ajudants que recullin i traginin els materials, si això comporta ocupar els oficials o caps d'equip en operacions de manutenció, coincidint en franges de temps perfectament aprofitables per l'avanç de la producció.

7è.- Mantenir esclarits, senyalitzats i enllumenats, els llocs de pas dels materials a manipular.

Manejament de càrregues sense mitjans mecànics

Per a l'hissat manual de càrregues la totalitat del personal d'obra haurà rebut la formació bàsica necessària, comprometent-se a seguir els següents passos:

1er.- Apropar-se el més possible a la càrrega.

2on.- Assentar els peus fermament.

3er.- Ajupir-se doblegant els genolls.

4art.- Mantenir l'esquena dreta.

5è.- Subjectar l'objecte fermament.

6è.- L'esforç d'aixecar l'han de realitzar els músculs de les cames.

7è.- Durant el transport, la càrrega haurà de romandre el més a prop possible del cos.

8è.- Per al manejament de peces llargues per una sola persona s'actuarà segons els següents criteris preventius:

- Durà la càrrega inclinada per un dels seus extrems, fins l'altura de l'espatlla.
- Avançarà desplaçant les mans al llarg de l'objecte, fins arribar al centre de gravetat de la càrrega.
- Es col·locarà la càrrega en equilibri sobre l'espatlla.
- Durant el transport, mantindrà la càrrega en posició inclinada, amb l'extrem davanter aixecat.

9è.- És obligatòria la inspecció visual de l'objecte pesat a aixecar, per a eliminar arestes afilades.

10è.- Està prohibit aixecar més de 50 kg de forma individual. El valor límit de 30 Kg per homes, pot superar-se puntualment a 50 Kg quan es tracti de descarregar un material per a col·locar-lo sobre un mitjà mecànic de manutenció. En el cas de tractar-se de dones, es redueixen aquests valors a 15 i 25 Kg respectivament.

11è.- És obligatori la utilització d'un codi de senyals quan s'ha d'aixecar un objecte entre uns quants, per a suportar l'esforç al mateix temps. Pot ser qualsevol sistema a condició que sigui conegut o convingut per l'equip.

16. MITJANS AUXILIARS D'UTILITAT PREVENTIVA (MAUP)

Als efectes del present Estudi de Seguretat i Salut, tindran la consideració de MAUP, tot Mitjà Auxiliar dotat de Protecció, Resguard, Dispositiu de Seguretat, Operació seqüencial, Seguretat positiva o Sistema de Protecció Col·lectiva, que originàriament ve integrat, de fàbrica, en l'equip, màquina o sistema, de forma solidària i indissociable, de tal manera que s'interposi, o apantalli els riscos d'abast o simultaneïtat de l'energia fora de control, i els treballadors, personal aliè a l'obra i/o materials, màquines, equips o ferramentes pròximes a la seva àrea d'influència, anul·lant o reduint les conseqüències d'accident. La seva operativitat resta garantida pel fabricant o distribuïdor de cadascun dels components, en les condicions d'utilització i manteniment per ell prescrites. El contractista resta obligat a la seva adequada elecció, seguiment i control d'ús.

Els MAUP més rellevants, previstos per a l'execució del present projecte són els indicats a continuació:

Codi	UA	Descripció
HX11X003	u	Bastida modular amb estructura tubular i sistema de seguretat amb tots els requisits reglamentaris en previsió de caigudes per a la realització d'estructures, tancaments, cobertes, i altres treballs en alçada
HX11X004	u	Barana definitiva, prevista en projecte, per a protecció de caigudes a diferent nivell
HX11X005	u	Escala modular d'estructura porticada, per accedir a cotes de diferent nivell, superiors a 7 m amb sistema de seguretat integrat

17. SISTEMES DE PROTECCIÓ COL·LECTIVA (SPC)

Als efectes del present Estudi de Seguretat i Salut, tindran la consideració de Sistemes de Protecció Col·lectiva, el conjunt d'elements associats, incorporats al sistema constructiu, de forma provisional i adaptada a l'absència de protecció integrada de major eficàcia (MAUP), destinats a apantallar o condonar la possibilitat de coincidència temporal de qualsevol tipus d'energia fora de control, present en l'ambient laboral, amb els treballadors, personal aliè a l'obra i/o materials, màquines, equips o ferramentes pròximes a la seva àrea d'influència, anul·lant o reduint les conseqüències d'accident. La seva operativitat garanteix la integritat de les persones o objectes protegits, sense necessitat d'una

participació per a assegurar la seva eficàcia. Aquest últim aspecte és el que estableix la seva diferència amb un Equip de Protecció Individual (EPI).

En absència d'homologació o certificació d'eficàcia preventiva del conjunt d'aquests Sistemes instal·lats, el contractista fixarà en el seu Pla de Seguretat i Salut, referència i relació dels Protocols d'Assaig, Certificats o Homologacions adoptades i/o requerits als instal·ladors, fabricants i/o proveïdors, per al conjunt dels esmentats Sistemes de Protecció Col·lectiva.

Els SPC més rellevants previstos per a l'execució del present projecte són els indicats en l'annex d'aquesta memòria que contindrà les fitxes amb RISC-AVALUACIÓ-MESURES.

18. CONDICIONS DELS EQUIPS DE PROTECCIÓ INDIVIDUAL (EPI)

Als efectes del present Estudi de Seguretat i Salut, tindran la consideració d'Equips de Protecció Individual, aquelles peces de treball que actuen a mode de coberta o pantalla portàtil, individualitzada per a cada usuari, destinats a reduir les conseqüències derivades del contacte de la zona del cos protegida, amb una energia fora de control, d'intensitat inferior a la previsible resistència física de l'EPI.

La seva utilització haurà de quedar restringida a l'absència de garanties preventives adequades, per inexistència de MAUP, o en el seu defecte SPC d'eficàcia equivalent.

Tots els equips de protecció individual estaran degudament certificats, segons normes harmonitzades CE. Sempre de conformitat als R.D. 1407/92, R.D.159/95 i R.D. 773/97.

El Contractista Principal portarà un control documental del seu lliurament individualitzat al personal (propi o subcontractat), amb el corresponent avís de recepció signat pel beneficiari.

En els casos en què no existeixin normes d'homologació oficial, els equips de protecció individual seran normalitzats pel constructor, per al seu ús en aquesta obra, triats d'entre els que existeixin en el mercat i que reuneixin una qualitat adequada a les respectives prestacions. Per aquesta normalització interna s'haurà de comptar amb el vistiplau del tècnic que supervisa el compliment del Pla de Seguretat i Salut per part de la Direcció d'Obra o Direcció Facultativa/Direcció d'Execució.

Al magatzem d'obra hi haurà permanentment una reserva d'aquests equips de protecció, de manera que pugui garantir el subministrament a tot el personal sense que se'n produeixi, raonablement, la seva carència.

En aquesta previsió cal tenir en compte la rotació del personal, la vida útil dels equips i la data de caducitat, la necessitat de facilitar-los a les visites d'obra, etc.

Els EPI més rellevants, previstos per a l'execució material del present projecte són els indicats en l'annex d'aquesta memòria que contindrà les fitxes amb RISC-AVALUACIÓ-MESURES

19. RECURSOS PREVENTIUS

La legislació que s'ha de complir respecte a la presència de recursos preventius a les obres de construcció està contemplada a la llei 54/2003. D'acord amb aquesta llei, la presència dels recursos preventius a les obres de construcció serà preceptiva en els següents casos:

a) *Quan els riscos es puguin veure agreujats o modificats en el desenvolupament del procés o l'activitat, per la concurrència d'operacions diverses que es desenvolupen successivament o simultàniament i que facin precís el control de la correcta aplicació dels mètodes de treball. La presència de recursos preventius de cada contractista serà necessari quan, durant l'obra, es desenvolupin treballs amb riscos especials, com es defineixen en el real decret 1627/97.*

b) *Quan es realitzin activitats o processos que reglamentàriament es considerin perillosos o amb riscos especials.*

c) *Quan la necessitat d'aquesta presència sigui requerida per la Inspecció de Treball i Seguretat Social, si les circumstàncies del cas ho exigissin degut a les condicions de treball detectades.*

Quan a les obres de construcció coexisteixen contractistes i subcontractistes que, de forma successiva o simultània, puguin constituir un risc especial per interferència d'activitats, la presència dels "*Recursos preventius*" és, en aquests casos, necessària.

Els recursos preventius són necessaris quan es desenvolupin treballs amb riscos especials, definits a l'annex II del RD 1627/97:

- *Treballs amb riscos especialment greus d'enterrament, enfonsament o caiguda d'altura, per les particulars característiques de l'activitat desenvolupada, els procediments aplicats, o l'entorn del lloc de treball.*
- *Treballs en els quals l'exposició a agents químics o biològics suposi un risc d'especial gravetat, o pels que la vigilància específica de la salut dels treballadors sigui legalment exigible.*
- *Treballs amb exposició a radiacions ionitzants pels que la normativa específica obliga a la delimitació de zones controlades o vigilades.*
- *Treballs a la proximitat de línies elèctriques d'alta tensió.*
- *Treballs que exposin a risc d'ofegament per immersió.*
- *Obres d'excavació de túnels, pous i altres treballs que suposin moviments de terra subterranis.*
- *Treballs realitzats en immersió amb equip subaquàtic.*
- *Treballs realitzats en caixons d'aire comprimit.*
- *Treballs que impliquin l'ús d'explosius.*

A continuació, es detallen, de forma orientativa, les activitats de l'obra del present estudi de seguretat i salut, en base a l'avaluació de riscos d'aquest, que requereixen la presència de recurs preventiu:

- Enderrocs i demolicions
- Moviments de terres
- Fonamentació
- Estructura i coberta

- Paviments i tancaments
- Instal·lacions.

20. SENYALITZACIÓ I ABALISAMENT

Quant a la senyalització de l'obra, és necessari distingir entre la que es refereix a la que demanda de l'atenció per part dels treballadors i aquella que correspon al trànsit exterior afectat per l'obra. En el primer cas són d'aplicació les prescripcions establertes per el Reial Decret 485/1997, de 14 d'abril. La senyalització i el abalisament de trànsit vénen regulats, entre altra normativa, per la Norma 8.3-I.C. de la Direcció General de Carreteres i no és objecte de l'Estudi de Seguretat i Salut. Aquesta distinció no exclou la possible complementació de la senyalització de tràfic durant l'obra quan aquesta mateixa es faci exigible per a la seguretat dels treballadors que treballin a la immediació d'aquest tràfic.

S'ha de tenir en compte que la senyalització per si mateixa no elimina els riscos, malgrat això la seva observació quan és l'apropiada i està ben col·locada, fa que l'individu adopti conductes segures. No és suficient amb col·locar un plafó a les entrades de les obres, si després en la pròpia obra no se senyalitza l'obligatorietat d'utilitzar cinturó de seguretat al col·locar les mires per a realitzar el tancament de façana. La senyalització abundant no garanteix una bona senyalització, ja que el treballador acaba fent cas omís de qualsevol tipus de senyal.

El R.D.485/97 estableix que la senyalització de seguretat i salut en el treball haurà d'utilitzar-se sempre que l'anàlisi dels riscos existents, les situacions d'emergència previsibles i les mesures preventives adoptades, posin de manifest la necessitat de:

- Cridar l'atenció dels treballadors sobre l'existència de determinats riscos, prohibicions o obligacions.
- Alertar als treballadors quan es produeixi una determinada situació d'emergència que requereixi mesures urgents de protecció o evacuació.
- Facilitar als treballadors la localització i identificació de determinats mitjans o instal·lacions de protecció, evacuació, emergència o primers auxilis.
- Orientar o guiar als treballadors que realitzin determinades maniobres perilloses.

La senyalització no haurà de considerar-se una mesura substitutiva de les mesures tècniques i organitzatives de protecció col·lectiva i haurà d'utilitzar-se quan, mitjançant aquestes últimes, no hagi estat possible eliminar els riscos o reduir-los suficientment.

Tampoc haurà de considerar-se una mesura substitutiva de la formació i informació dels treballadors en matèria de seguretat i salut en el treball.

Així mateix, segons s'estableix en el R.D. 1627/97, s'haurà de complir que:

1. Les vies i sortides específiques d'emergència hauran de senyalitzar-se conforme al R.D. 485/97, tenint en compte que aquesta senyalització haurà de fixar-se en els llocs adequats i tenir la resistència suficient.
2. Els dispositius no automàtics de lluita contra incendis hauran d'estar senyalitzats conforme al R.D. 485/97, tenint en compte que aquesta senyalització haurà de fixar-se en els llocs adequats i tenir la resistència suficient.

3. El color utilitzat per a la il·luminació artificial no podrà alterar o influir en la percepció de les senyals o panells de senyalització.
4. Les portes transparents hauran de tenir una senyalització a l'altura de la vista.
5. Quan existeixin línies d'estesa elèctrica àrees, en el cas que vehicles l'obra haguessin de circular sota l'estesa elèctrica s'utilitzarà una senyalització d'advertència.

La implantació de la senyalització i abalisament s'ha de definir en els plànols de l'Estudi de Seguretat i Salut i s'ha de tenir en compte en les fitxes d'activitats, al menys respecte els riscos que no s'hagin pogut eliminar.

21. CONDICIONS D'ACCÉS I AFECTACIONS DE LA VIA PÚBLICA

És obligatori comunicar l'inici, l'extensió, la naturalesa dels treballs i les modificacions de la circulació de vehicles provocades per les obres a la Guàrdia Municipal i/o a l'Autoritat que correspongui.

En la desviació o estrenyiment de passos per a vianants es col·locarà la senyalització corresponent.

No es podrà començar l'execució de les obres sense haver procedit a la implantació dels elements de senyalització i protecció que corresponguin, definits al PLA DE SEGURETAT aprovat i definits en el present ESTUDI DE SEGURETAT I SALUT.

El contractista de l'obra serà responsable del manteniment de la senyalització i elements de protecció implantats.

Els accessos de vianants i vehicles estaran clarament definits i senyalitzats.

21.1. Normes de Policia

- **Control d'accessos**

Una vegada establerta la delimitació del perímetre de l'obra, conformats els tancaments i accessos per els vianants i de vehicles, el contractista amb la col·laboració del seu servei de prevenció definirà, dins del Pla de Seguretat i Salut, el procés per al control d'entrada i sortida de vehicles en general (inclosa la maquinària com grues mòbils, retroexcavadores) i de personal de manera que garanteixi l'accés únicament a persones autoritzades.

Quan la delimitació de l'obra no es pugui portar a terme, per les pròpies circumstàncies de l'obra, el contractista, al menys haurà de garantir, l'accés controlat a les instal·lacions d'ús comú de l'obra, i haurà d'assegurar que les entrades a l'obra estiguin senyalitzades, i que quedin tancades les zones que puguin presentar riscos

- **Coordinació d'interferències i seguretat a peu d'obra**

El contractista, quan sigui necessari, donat el volum d'obra, el valor dels materials emmagatzemats i altres circumstàncies que així ho aconsellin, definirà un procés per garantir l'accés controlat a les

instal·lacions que suposin risc personal i/o comú per a l'obra i l'intrusisme a l'interior de l'obra en tallers, magatzems, vestuaris i d'altres instal·lacions d'ús comú o particular.

21.2. Àmbit d'ocupació de la via pública

L'ocupació del tancament de l'obra està definida al propi projecte.

21.3. Tancaments de l'obra que afecten l'àmbit públic

- **Tanques**

Situació	Delimitaran el perímetre de l'àmbit de l'obra o, en ordenació entre mitgeres, tancaran el front de l'obra o solar i els laterals de la part de vorera ocupada.
Tipus de tanques	Es formaran amb xapa metàl·lica opaca o a base de plafons prefabricats o d'obra de fàbrica arrebossada i pintada. Les empreses promotores podran presentar a l'Ajuntament per a la seva homologació, si s'escau, el seu propi model de tanca per tal d'emprar-lo en totes les obres que facin. Les tanques metàl·liques de 200 x 100 cm només s'admeten per a proteccions provisionals en operacions de càrrega, desviacions momentànies de trànsit o similars. En cap cas s'admet com a tanca el simple abalisat amb cinta de PVC, malla electrosoldada de ferrallista, xarxa tipus tenis de polipropilè (habitualment de color taronja), o elements tradicionals de delimitacions provisionals de zones de risc.
Complements	Totes les tanques tindran abalisament lluminós i elements reflectants en tot el seu perímetre.
Manteniment	El Contractista vetllarà pel correcte estat de la tanca, eliminant grafittis, publicitat il·legal i qualsevol altre element que deteriori el seu estat original.

- **Accés a l'obra**

Portes	Les tanques estaran dotades de portes d'accés independent per a vehicles i per al personal de l'obra. No s'admet com a solució permanent d'accés la retirada parcial del tancament.

21.4. Operacions que afecten l'àmbit públic

- **Entrades i sortides de vehicles i maquinària.**

Vigilància	Personal responsable de l'obra s'encarregarà de dirigir les operacions d'entrada i sortida, avisant els vianants a fi d'evitar accidents.
Aparcament	Fora de l'àmbit del tancament de l'obra no podran estacionar-se vehicles ni maquinària de l'obra, excepte a la reserva de càrrega i descàrrega de l'obra quan existeixi zona d'aparcament a la calçada.
Camions en espera	Si no hi ha espai suficient dins de l'àmbit del tancament de l'obra per acollir els camions en espera, caldrà preveure i habilitar un espai adequat a aquest fi fora de l'obra. El PLA DE SEGURETAT preveurà aquesta necessitat, d'acord amb la programació dels treballs i els mitjans de càrrega, descàrrega i transport interior de l'obra.

- **Càrrega i descàrrega**

Les operacions de càrrega i descàrrega s'executaran dintre l'àmbit del tancament de l'obra. Quan això no sigui possible, s'estacionarà el vehicle en el punt més proper a la tanca de l'obra, es desviaran els vianants fora de l'àmbit d'actuació, s'ampliarà el perímetre tancat de l'obra i es prendran les següents mesures:

- S'habilitarà un pas per als vianants. Es deixarà un pas mínim d'un metre i quaranta centímetres (1,40 m) d'ample per a la vorera o per a la zona d'aparcament de la calçada, sense envair cap carril de circulació. Si no és suficient i/o si cal envair el carril de circulació que correspongui i contactar prèviament amb la Guàrdia Urbana.
- Es protegirà el pas de vianants amb tanques metàl·liques de 200 x 100 cm, delimitant el camí pels dos costats i es col·locarà la senyalització que correspongui.
- La separació entre les tanques metàl·liques i l'àmbit d'operacions o el vehicle, formarà una franja de protecció l'amplada de la qual dependrà del tipus de productes a carregar o descarregar i que establirà el Cap d'Obra prèvia consulta al Coordinador de Seguretat de l'obra.
- Acabades les operacions de càrrega i descàrrega, es retiraran les tanques metàl·liques es netejarà el paviment.
- Es controlarà la descàrrega dels camions formigonera a fi d'evitar abocaments sobre la calçada.

a. **Descàrrega, apilament i evacuació de terres i runa**

Descàrrega	La descàrrega de runa des dels diferents nivells de l'obra, aprofitant la

força de la gravetat, serà per canonades (cotes superiors) o mecànicament (cotes sota rasant), fins els contenidors o tremuges, que hauran de ser cobertes amb lones o plàstics opacs a fi d'evitar pols. Les canonades o cintes d'elevació i transport de material es col·locaran sempre per l'interior del recinte de l'obra.

Apilament

No es poden acumular terres, runa i deixalles en l'àmbit de domini públic, excepte si és per a un termini curt i si s'ha obtingut un permís especial de l'Ajuntament, i sempre s'ha de dipositar en tremuges o en contenidors homologats.

Si no es disposa d'aquesta autorització ni d'espais adequats, les terres es carregaran directament sobre camions per a la seva evacuació immediata.

A manca d'espai per a col·locar els contenidors en l'àmbit del tancament de l'obra, es col·locaran sobre la vorera en el punt més proper a la tanca, deixant un pas per als vianants d'un metre i quaranta centímetres (1,40 m) d'amplada com a mínim.

S'evitarà que hi hagi productes que sobresurtin del contenidor.

Es netejarà diàriament la zona afectada i després de retirat el contenidor.

Els contenidors, quan no s'utilitzin, hauran de ser retirats.

Evacuació

Si la runa es carrega sobre camions, aquests hauran de portar la caixa tapada amb una lona o un plàstic opac a fi d'evitar la producció de pols, i el seu transport ho serà a un abocador autoritzat. El mateix es farà en els transports dels contenidors.

21.5. Neteja i incidència sobre l'ambient que afecten l'àmbit públic

a) **Neteja**

Els contractistes netejaran i regaran diàriament l'espai públic afectat per l'activitat de l'obra i especialment després d'haver efectuat càrregues i descàrregues o operacions productores de pols o deixalles.

Es vigilarà especialment l'emissió de partícules sòlides (pols, ciment, etc.).

Caldrà prendre les mesures pertinents per evitar les roderes de fang sobre la xarxa viària a la sortida dels camions de l'obra. A tal fi, es disposarà, abans de la sortida del tancament de l'obra, una solera de formigó o planxes de "relliga" de 2 x 1 m, com a mínim, sobre la qual s'aturaran els camions i es netejaran per reg amb mànega cada parella de rodes.

Està prohibit efectuar la neteja de formigoneres al clavegueram públic.

b) **Sorolls. Horari de treball**

Les obres es realitzaran entre les 8,00 i les 20,00 hores dels dies feiners.

Fora d'aquest horari, només es permet realitzar activitats que no produeixin sorolls més enllà d'allò que estableixen les OCAF. Les obres realitzades fora d'aquest horari hauran de ser específicament autoritzades per l'Ajuntament.

Excepcionalment i amb l'objecte de minimitzar les molèsties que determinades operacions poden produir sobre l'àmbit públic i la circulació o per motius de seguretat, l'Ajuntament podrà obligar que alguns treballs s'executin en dies no feiners o en un horari específic.

c) **Pols**

Es regaran les pistes de circulació de vehicles.

Es regaran els elements a enderrocar, la runa i tots els materials que puguin produir pols.

En el tall de peces amb disc s'hi afegirà aigua.

Les sitges de ciment estaran dotades de filtre.

21.6. Residus que afecten a l'àmbit públic

El contractista, dins del Pla de Seguretat i Salut, definirà amb la col·laboració del seu servei de prevenció, els procediments de treball per a l'emmagatzematge i retirada de cadascun dels diferents tipus de residus que es puguin generar a l'obra.

El contractista haurà de donar les oportunes instruccions als treballadors i subcontractistes, comprovant que ho comprenen i ho compleixen.

21.7. Circulació de vehicles i vianants que afecten l'àmbit públic

a) **Senyalització i protecció**

Si el pla d'implantació de l'obra comporta la desviació del trànsit rodat o la reducció de vials de circulació, s'aplicaran les mesures definides a la Norma de Senyalització d'Obres 8.3.

Està prohibida la col·locació de senyals no autoritzades pels Serveis Municipals.

b) **Dimensions mínimes d'itineraris i passos per a vianants**

Es respectaran les següents dimensions mínimes:

- En cas de restricció de la vorera, l'amplada de pas per a vianants no serà inferior a un terç (1/3) de l'amplada del voral existent del vial.

- L'amplada mínima d'itineraris o de passos per a vianants serà d'un metre i quaranta centímetres (1,40 m).

– **Elements de protecció**

Pas vianants	Tots els passos de vianants que s'hagin d'habilitar es protegiran, pels dos costats, amb tanques o baranes resistents, ancorades o enganxades a terra, d'una alçada mínima d'un metre (1 m) amb travesser intermedi i entornpeus de vint centímetres (0,20 m) a la base. L'alçada de la passarel·la no sobrepassarà els quinze centímetres (0,15 m). Els elements que formin les tanques o baranes seran preferentment continus. Si són calats, les separacions mínimes no podran ser superiors a quinze centímetres (015 m).
Forats i rases	Si els vianants han de passar per sobre els forats o les rases, es col·locaran xapes metàl·liques fixades, de resistència suficient, totalment planes i sense ressalts Si els forats o les rases han de ser evitats, les baranes o tanques de protecció del pas es col·locaran a 45º en el sentit de la marxa.

– **Enllumenat i abalisament lluminós**

Els senyals i els elements d'abalisament aniran degudament il·luminats encara que hi hagi enllumenat públic.

S'utilitzarà pintura i material reflectant o fotoluminiscent, tant per a la senyalització vertical i horitzontal, com per als elements d'abalisament.

Els itineraris i passos de vianants estaran convenientment il·luminats al llarg de tot el tram (intensitat mínima 20 lux).

Les bastides de paraments verticals que ocupin vorera o calçada tindran abalisament lluminós i elements reflectants a totes les potes en tot el seu perímetre exterior.

La delimitació d'itineraris o passos per a vianants formada amb tanques metàl·liques de 200 x 100 cm, tindran abalisament lluminós en tot el seu perímetre.

– **Abalisament i defensa**

Els elements d'abalisament i defensa a emprar per passos per a vehicles seran els designats com tipus TB, TL i TD a la Norma de carreteres 8.3 – IC. amb el següent criteri d'ubicació d'elements d'abalisament i defensa:

a) En la delimitació de la vora del carril de circulació de vehicles contigu al tancament de l'obra.

b) En la delimitació de vores de passos provisionals de circulació de vehicles contigus a passos provisionals per a vianants.

c) Per impedir la circulació de vehicles per una part d'un carril, per tot un carril o per diversos carrils, en estrenyiments de pas i/o disminució del número de carrils.

d) En la delimitació de vores en la desviació de carrils en el sentit de circulació, per salvar l'obstacle de les obres.

e) En la delimitació de vores de nous carrils de circulació per a passos provisionals o per a establir una nova ordenació de la circulació, diferent de la que hi havia abans de les obres.

Es col·locaran elements de defensa TD – 1 quan, en vies d'alta densitat de circulació, en vies ràpides, en corbes pronunciades, etc.., la possible desviació d'un vehicle de l'itinerari assenyalat pugui produir accidents a vianants o a treballadors (desplaçament o enderroc del tancament de l'obra o de baranes de protecció de pas de vianants, xoc contra objectes rígids, bolcar el vehicle per l'existència de desnivells, etc..,).

Quan l'espai disponible sigui mínim, s'admetrà la col·locació d'elements de defensa TD – 2.

- **Paviments provisionals**

El paviment serà dur, no lliscant i sense regruixos diferents dels propis del gravat de les peces. Si és de terres, tindrà una compactació del 90% PM (Pròctor Modificat).

Si cal ampliar la vorera per a pas de vianants per la calçada, es col·locarà un entarimat sobre la part ocupada de la calçada formant un pla horitzontal amb la vorera i una barana fixa de protecció.

21.8. Protecció i trasllat d'elements emplaçats a l'obra

- Arbres i jardins

Mentre durin les obres es protegirà l'arbrat, els jardins i les espècies vegetals que puguin quedar afectades, deixant al seu voltant una franja d'un (1) metre de zona no ocupada. El contractista vetllarà, perquè els escossells i les zones ajardinades estiguin sempre lliures d'elements estranys, deixalles, escombraries i runa. S'hauran de regar periòdicament, sempre que això no es pugui fer normalment des de l'exterior de la zona d'obres.

22. RISCOS DE DANYS A TERCERS I MESURES DE PROTECCIÓ

22.1. Riscos de danys a tercers

Els riscs que durant les successives fases d'execució de l'obra podrien afectar persones o objectes annexos que en depenguin són els següents:

a) Caiguda al mateix nivell.

b) Caiguda en alçada.

c) Atropellaments.

d) Col·lisions amb obstacles a la vorera.

e) Caiguda d'objectes.

22.2. Mesures de protecció a tercers

Es consideraran les següents mesures de protecció per a cobrir el risc de les persones que transiten pels voltants de l'obra:

1. Muntatge de tanca metàl·lica a base d'elements prefabricats de 2 m. d'alçada, separant el perímetre de l'obra, de les zones de trànsit exterior.

23. PREVENCIÓ DE RISCOS CATASTRÒFICS

Els principals riscos catastròfics considerats com remotament previsibles per aquesta obra són:

a) Incendi, explosió i/o deflagració.

b) Inundació.

c) Col·lapse estructural per maniobres fallides.

d) Atemptat patrimonial contra la Propietat i/o contractistes.

e) Enfosament de càrregues o aparells d'elevació.

Per a cobrir las eventualitats pertinents, el Contractista redactarà i inclourà com annex al seu Pla de Seguretat i Salut un Pla d'Emergència Interior, cobrin les següents mesures mínimes:

1. Ordre i neteja general.
2. Accessos i vies de circulació interna de l'obra.
3. Ubicació d'extintors i d'altres agents extintors.
4. Nomenament i formació de la Brigada de Primera Intervenció.
5. Punts de trobada.
6. Assistència Primers Auxilis.

24. PREVISIONS DE SEGURETAT PELS TREBALLS POSTERIORS

En el present projecte es defineixen una sèrie d'obres que hauran de ser objecte de manteniment per part del Servei de conservació de carreteres de la Generalitat de Catalunya. En particular les obres esmentades es refereixen a la neteja i manteniment dels sistema de drenatge executat.

A continuació es tabulen les activitats de manteniment associades als riscos que es deriven de la seva realització.

Activitats de Manteniment	Riscos
Neteja i manteniment drenatge	Afectació al trànsit
	Caiguda de persones al mateix nivell
	Caiguda de persones a diferent nivell
	Caiguda d'objectes
	Intoxicació
	Asfíxia

L'òrgan receptor de l'obra finalitzada i encarregada de la seva conservació, haurà de redactar un Pla de Seguretat i Salut en tasques de conservació, per tal d'identificar els riscos i prendre les mesures preventives necessàries per a disminuir-los o eliminar-los si es possible.

25. SIGNATURA

Tortosa, a la data de la signatura digital.

El redactor de l'ESS i autor del projecte,



Àngel Mulet Baubí
Enginyer de Camins, Canals i Ports
Col·legiat núm.: 31.205
Alter Enginyeria Aplicada, SLP

ANNEX 1. FITXES D'ACTIVITATS-RISC-AVALUACIÓ-MESURES

22. FITXES D'ACTIVITATS-RISC-AVALUACIÓ-MESURES

G01 ENDERROCS
G01.G01 ENDERROCS D'ELEMENTS SOTERRATS A POCA FONDÀRIA

ENDERROC PER MITJANS MANUALS, MECÀNICS I/O EXPLOSIUS, DE FONAMENTS, PAVIMENTS I ELEMENTS A POCA FONDARIA

Avaluació de riscos

Id	Risc	P	G	A
1	CAIGUDA DE PERSONES A DIFERENT NIVELL **Situació:** SOBRE ELEMENTS A ENDERROCAR PER DIFICULTAT ALS ACCESSOS	2	2	3
2	CAIGUDA DE PERSONES AL MATEIX NIVELL **Situació:** TERRENY IRREGULAR. MATERIAL MAL APLEGAT	2	1	2
4	CAIGUDA D'OBJECTES PER MANIPULACIÓ O DE MATERIALS TRANSPORTATS **Situació:** MANIPULACIÓ I MANTENIMENT DE MATERIALS I EINES	2	2	3
6	TREPITJADES SOBRE OBJECTES **Situació:** MATERIALS MAL APLEGATS	2	1	2
9	COPS AMB OBJECTES O EINES (TALLS) **Situació:** AMB EINES MANUALS O MECÀNIQUES	3	1	3
10	PROJECCIÓ DE FRAGMENTS O PARTÍCULES **Situació:** AMB DESTROSSA DE MATERIAL. TALL OXIACETILÈNIC. TALL PER RADIAL	2	2	3
12	ATRAPAMENT PER BOLCADA DE MÀQUINES, TRACTORS O VEHICLES **Situació:** TERRENY IRREGULAR	2	3	4
13	SOBREESFORÇOS **Situació:** MANIPULACIÓ MANUAL	2	2	3
14	EXPOSICIÓ A CONDICIONS AMBIENTALS EXTREMES **Situació:** TREBALLS A L'EXTERIOR	1	2	2
17	INHALACIÓ O INGESTIÓ DE SUBSTANCIES NOCIVES **Situació:** POLS	2	1	2
20	EXPLOSIONS **Situació:** OXIACETILÈ. EMANACIÓ DE GASOS	1	3	3
25	ATROPELLAMENTS O COPS AMB VEHICLES **Situació:** MOVIMENTS DE MAQUINARIA I CAMIONS DINS DE L'OBRA	2	2	3
26	EXPOSICIÓ A SOROLLS **Situació:** MAQUINÀRIA	3	1	3
27	EXPOSICIÓ A VIBRACIONS **Situació:** MAQUINÀRIA	2	1	2

P: Probabilitat (1,2,3) / G: Gravetat (1,2,3) / A: Avaluació (1,2,3,4,5)

EQUIPS PROTECCIÓ INDIVIDUAL

Codi	UA	Descripció	Riscos
H1411111	u	Casc de seguretat per a ús normal, contra cops, de polietilè amb un pes màxim de 400 g, homologat segons UNE-EN 812	1 /2 /4 /6 /9 /10 /12 /14 /20 /25
H1423230	u	Ulleres de seguretat per a tall oxiacetilènic, amb muntura universal de barnilla d'acer recoberta de PVC, amb visors circulars de 50 mm de D foscos de color DIN 5, homologades segons UNE-EN 175 i UNE-EN 169	10
H1431101	u	Protector auditiu de tap d'escuma, homologat segons UNE-EN 352-2 i UNE-EN 458	26
H1432012	u	Protector auditiu d'auricular, acoblat al cap amb arnès i orelleres antisoroll, homologat segons UNE-EN 352-1 i UNE-EN 458	26
H1445003	u	Mascareta de protecció respiratòria, homologada segons UNE-EN 140	17
H1465275	u	Parella de botes baixes de seguretat industrial per a treballs de construcció en general, resistents a la humitat, de pell rectificada, amb turmellera encoixinada, amb puntera metàl·lica, sola antilliscant, falca amortidora d'impactes al taló i sense plantilla metàl·lica, homologades segons UNE-EN ISO 20344, UNE-EN ISO 20345, UNE-EN ISO 20346 i UNE-EN ISO 20347	1 /2 /4 /6 /9 /10 /12 /14 /20 /25
H146J364	u	Parella de plantilles anticlaus de fleix d'acer de 0,4 mm de gruix, de 120 kg de resistència a la perforació, pintades amb pintures epoxi i folrades, homologades segons UNE-EN ISO 20344 i UNE-EN 12568	6
H1474600	u	Cinturó antivibració, ajustable i de teixit transpirable	27
H1485800	u	Armilla reflectant amb tires reflectants a la cintura, al pit i a l'esquena, homologada segons UNE-EN 471	4 /12 /25

SISTEMES DE PROTECCIÓ COL·LECTIVA

Codi	UA	Descripció	Riscos
H153A9F1	u	Topall per a descàrrega de camions en excavacions, de 4 m d'amplada amb tauló de fusta i perfils IPN 100 clavat al terreny i amb el desmuntatge inclòs	4 /12

HBBAA005	u	Senyal de prohibició, normalitzada amb pictograma negre sobre fons blanc, de forma circular amb cantells i banda transversal descendent d'esquerra a dreta a 45°, en color vermell, diàmetre 29 cm, amb cartell explicatiu rectangular, per ser vista fins 12 m, fixada i amb el desmuntatge inclòs	1 /2 /4 /6 /9 /10 /12 /13 /14 /17 /20 /25 /26 /27
HBBAB115	u	Senyal de obligació, normalitzada amb pictograma blanc sobre fons blau, de forma circular amb cantells en color blanc, diàmetre 29 cm, amb cartell explicatiu rectangular, per ser vista fins 12 m, fixada i amb el desmuntatge inclòs	1 /2 /4 /6 /9 /10 /12 /13 /14 /17 /20 /25 /26 /27
HBBAF004	u	Senyal d'advertència, normalitzada amb pictograma negre sobre fons groc, de forma triangular amb el cantell negre, costat major 41 cm, amb cartell explicatiu rectangular, per ser vista fins 12 m de distància, fixada i amb el desmuntatge inclòs	1 /2 /4 /6 /9 /10 /12 /13 /14 /17 /20 /25 /26 /27
HM31161J	u	Extintor de pols seca, de 6 kg de càrrega, amb pressió incorporada, pintat, amb suport a la paret i amb el desmuntatge inclòs	20

MESURES PREVENTIVES

Codi	Descripció	Riscos
I0000002	Planificar els treballs per a mantenir el màxim de temps possible les proteccions	1
I0000003	Itineraris preestablerts i balissats per al personal	1
I0000008	Personal qualificat per a treballs en alçada	1
I0000013	Ordre i neteja	2 /6 /17
I0000014	Preparació i manteniment de les superfícies de treball	2 /6
I0000015	Organització de les zones de pas i emmagatzematge	2 /6
I0000025	Planificació d'àrees i llocs de treball	4
I0000026	Planificació de recorreguts i maniobres per a màquines i camions	4
I0000027	Elecció dels mitjans auxiliars de manteniment	4
I0000028	Impedir l'accés de personal dins del radi d'acció de càrregues suspeses	4
I0000029	No balancejar les càrregues suspeses	4
I0000033	Solicitar habilitació professional del personal encarregat del manteniment de l'obra	4
I0000038	Substituir lo manual per lo mecànic	9 /10
I0000039	Planificació de compra i programa de manteniment d'eines	9
I0000040	Formació de l'operari en l'ús i manteniment d'eines	9
I0000042	Evitar processos de manipulació de materials a obra	9
I0000045	Formació	10 /12
I0000051	Adequació dels recorreguts de la maquinària	12
I0000053	Procediment d'utilització de la maquinària	12
I0000054	Ús de recolzaments hidràulics	12
I0000060	Suspensió de les feines en condicions extremes	14
I0000061	Rotació dels llocs de treball	14 /26 /27
I0000062	Planificar els treballs per a realitzar-los en zones protegides	14
I0000074	Reg de les zones de treball	17
I0000082	Aïllament del procés	17
I0000094	Revisió periòdica dels equips de treball	20
I0000095	Impedir el contacte de l'acetilè amb el coure	20
I0000096	No fumar	20
I0000099	Establir una zona de protecció de radi 10 m, en treballs de soldadura i tall amb serra radial	20
I0000108	Eliminar el soroll en origen	26
I0000110	Eliminar vibracions en origen	27
I0000154	Verificar nivell lumínic mínim (250 lux) a itineraris i llocs de treball	1 /2 /6 /9 /12 /25
I0000155	Controlar la temperatura i velocitat del vent als llocs de treball	14
I0000156	Detecció xarxes instal·lacions encastades o soterrades	20
I0000157	Control del nivell sonor amb sonómetre portàtil	26
I0000160	Traslladar materials amb la grua dins d'una caixa o sarcòfeg	4

G01.G03 ENDERROCS O ARRENCADA D'ELEMENTS

ENDERROCS PER MITJANS MANUALS I MECÀNICS D'ELEMENTS SUPERFICIALS (MOBILIARI URBÀ, DIVISÒRIES, SENYALITZACIÓ, PROTECCIONS VIÀRIES, LLUMINÀRIES...)

Avaluació de riscos

Id	Risc	P	G	A
2	CAIGUDA DE PERSONES AL MATEIX NIVELL **Situació:** ITINERARIS OBRA APLECS DE MATERIAL SUPERFÍCIES IRREGULARS DE TREBALL	2	1	2
4	CAIGUDA D'OBJECTES PER MANIPULACIÓ O DE MATERIALS TRANSPORTATS **Situació:** MANIPULACIÓ I TRANSPORT DE MATERIALS ENDERROCATS	2	2	3
9	COPS AMB OBJECTES O EINES (TALLS) **Situació:** MANIPULACIÓ D'EINES	3	1	3
10	PROJECCIÓ DE FRAGMENTS O PARTÍCULES	2	2	3

	Situació: INEXISTÈNCIA DE ZONES DE SEGURETAT ÚS DEL MARTELL PNEUMÀTIC			
13	SOBREESFORÇOS	2	2	3
	Situació: ELEVACIÓ I CARRETEIG DE MATERIAL, I ENDERROCS			
14	EXPOSICIÓ A CONDICIONS AMBIENTALS EXTREMES	1	2	2
	Situació: TREBALLS A L'EXTERIOR			
16	EXPOSICIÓ A CONTACTES ELÈCTRICS	1	3	3
	Situació: INSTAL·LACIONS ELÈCTRIQUES EXISTENTS			
17	INHALACIÓ O INGESTIÓ DE SUBSTANCIES NOCIVES	2	1	2
	Situació: POLS I PARTÍCULES GENERADES ALS ENDERROCS			
25	ATROPELLAMENTS O COPS AMB VEHICLES	3	2	4
	Situació: ITINERARIS DE VEHICLES PROPIS DE L'OBRA I TRANSPORT			
26	EXPOSICIÓ A SOROLLS	3	1	3
	Situació: MAQUINÀRIA ENDERROCS: MARTELL, COMPRESSOR			
27	EXPOSICIÓ A VIBRACIONS	2	1	2
	Situació: CABINA MÀQUINES MARTELL PNEUMÀTIC			

P: Probabilitat (1,2,3) / G: Gravetat (1,2,3) / A: Avaluació (1,2,3,4,5)

EQUIPS PROTECCIÓ INDIVIDUAL

Codi	UA	Descripció	Riscos
H1411111	u	Casc de seguretat per a ús normal, contra cops, de polietilè amb un pes màxim de 400 g, homologat segons UNE-EN 812	2 /4 /9 /10 /14 /16 /17 /25 /26
H1421110	u	Ulleres de seguretat antiimpactes estàndard, amb muntura universal, amb visor transparent i tractament contra l'entelament, homologades segons UNE-EN 167 i UNE-EN 168	10
H1431101	u	Protector auditiu de tap d'escuma, homologat segons UNE-EN 352-2 i UNE-EN 458	26
H1432012	u	Protector auditiu d'auricular, acoblat al cap amb arnès i orelleres antisoroll, homologat segons UNE-EN 352-1 i UNE-EN 458	14 /26
H1445003	u	Mascareta de protecció respiratòria, homologada segons UNE-EN 140	17
H1465275	u	Parella de botes baixes de seguretat industrial per a treballs de construcció en general, resistents a la humitat, de pell rectificada, amb turmellera encoixinada, amb puntera metàl·lica, sola antilliscant, falca amortidora d'impactes al taló i sense plantilla metàl·lica, homologades segons UNE-EN ISO 20344, UNE-EN ISO 20345, UNE-EN ISO 20346 i UNE-EN ISO 20347	2 /4 /9 /10 /14 /17 /25
H1474600	u	Cinturó antivibració, ajustable i de teixit transpirable	27
H1485800	u	Armilla reflectant amb tires reflectants a la cintura, al pit i a l'esquena, homologada segons UNE-EN 471	25

SISTEMES DE PROTECCIÓ COL·LECTIVA

Codi	UA	Descripció	Riscos
H153A9F1	u	Topall per a descàrrega de camions en excavacions, de 4 m d'amplada amb tauló de fusta i perfils IPN 100 clavat al terreny i amb el desmuntatge inclòs	25
H16C0003	dia	Detector de gasos portàtil, per a espais confinats, amb detector de gas combustible, O2, CO i H2S	17
HBBAA005	u	Senyal de prohibició, normalitzada amb pictograma negre sobre fons blanc, de forma circular amb cantells i banda transversal descendent d'esquerra a dreta a 45°, en color vermell, diàmetre 29 cm, amb cartell explicatiu rectangular, per ser vista fins 12 m, fixada i amb el desmuntatge inclòs	2 /4 /9 /10 /14 /16 /17 /25 /26 /27
HBBAB115	u	Senyal de obligació, normalitzada amb pictograma blanc sobre fons blau, de forma circular amb cantells en color blanc, diàmetre 29 cm, amb cartell explicatiu rectangular, per ser vista fins 12 m, fixada i amb el desmuntatge inclòs	2 /4 /9 /10 /14 /16 /17 /25 /26 /27
HBBAF004	u	Senyal d'advertència, normalitzada amb pictograma negre sobre fons groc, de forma triangular amb el cantell negre, costat major 41 cm, amb cartell explicatiu rectangular, per ser vista fins 12 m de distància, fixada i amb el desmuntatge inclòs	2 /4 /9 /10 /14 /16 /17 /25 /26 /27

MESURES PREVENTIVES

Codi	Descripció	Riscos
I0000002	Planificar els treballs per a mantenir el màxim de temps possible les proteccions	2
I0000003	Itineraris preestablerts i balissats per al personal	2
I0000004	Revisió i manteniment periòdic de SPC	2
I0000013	Ordre i neteja	17
I0000026	Planificació de recorreguts i maniobres per a màquines i camions	4
I0000027	Elecció dels mitjans auxiliars de manteniment	4
I0000028	Impedir l'accés de personal dins del radi d'acció de càrregues suspeses	4
I0000029	No balancejar les càrregues suspeses	4
I0000031	Per a la manipulació de materials voluminosos i/o pesats, solicitar un procediment de treball específic	4

I0000038	Substituir lo manual per lo mecànic	9 /10
I0000039	Planificació de compra i programa de manteniment d'eines	9
I0000040	Formació de l'operari en l'ús i manteniment d'eines	9 /13
I0000044	Evitar processos de tallat de materials a l'obra	10
I0000055	Elecció dels equips de manteniment	13
I0000056	Paletització i eines ergonòmiques	13
I0000058	Adaptar la feina a les característiques individuals de la persona que la realitza	13
I0000060	Suspensió de les feines en condicions extremes	14
I0000061	Rotació dels llocs de treball	14 /27
I0000062	Planificar els treballs per a realitzar-los en zones protegides	26
I0000063	En cas de vent, apuntalament i fixació de tots els elements inestables	14
I0000068	Elecció i manteniment de les eines elèctriques	16
I0000070	Compliment del REBT pel que fa a equips de protecció	16
I0000073	Disposar de quadres elèctrics secundaris	16
I0000074	Reg de les zones de treball	17
I0000076	Reconeixement dels materials a enderrocar	17
I0000078	Evitar processos de divissió de material en sec	17
I0000103	Planificació de les àrees de treball	25
I0000104	Accessos i circulació independents per a personal i maquinària	25
I0000105	Anivellar la maquinària per a la realització de l'activitat	25
I0000106	El personal no ha de descansar al costat de màquines aturades	25
I0000107	Limitació de la velocitat dels vehicles	25
I0000108	Eliminar el soroll en origen	26
I0000110	Eliminar vibracions en origen	27
I0000154	Verificar nivell lumínic mínim (250 lux) a itineraris i llocs de treball	2
I0000155	Controlar la temperatura i velocitat del vent als llocs de treball	14
I0000156	Detecció xarxes instal·lacions encastades o soterrades	16 /17
I0000157	Control del nivell sonor amb sonómetre portàtil	26
I0000161	Verificar que les connexions de les màquines es facin amb endolls reglamentaris	16

G02 MOVIMENTS DE TERRES
G02.G01 REBAIX DE TERRENY SENSE I AMB TALUSSOS, I PRETALL EN TALUSSOS I REPOSICIÓ EN DESMUNT

EXCAVACIÓ DE TERRENY MITJANÇANT LA FORMACIÓ O NO DE TALUSSOS ESTABLES

Avaluació de riscos

Id	Risc	P	G	A
1	CAIGUDA DE PERSONES A DIFERENT NIVELL **Situació:** REALITZACIÓ DE TALUSSOS I DESMUNTS DE MÉS DE 2 m. ACCÉS A LA ZONA DE TREBALL	2	1	2
2	CAIGUDA DE PERSONES AL MATEIX NIVELL **Situació:** ITINERARIS D'OBRA IRREGULARIDAD DEL ÀREA DE TREBALL ACCÉS A L'EXCAVACIÓ	2	1	2
3	CAIGUDA D'OBJECTES PER DESPLOM, ESFONDRAMENT O ENSORRAMENT **Situació:** INESTABILITAT EN TALUSSOS DE FORTA PENDENT TREBALLS EN RASES	2	2	3
6	TREPITJADES SOBRE OBJECTES **Situació:** IRREGULARITAT DE LA ZONA DE TREBALL ACCÉS ALS TALLS	2	1	2
10	PROJECCIÓ DE FRAGMENTS O PARTÍCULES **Situació:** MOBILITAT DE LA MAQUINÀRIA	2	2	3
12	ATRAPAMENT PER BOLCADA DE MÀQUINES, TRACTORS O VEHICLES **Situació:** IRREGULARITAT DE LA ZONA DE TREBALL, ZONES DE PAS BASES NIVELLADES PER RECOLZAMENTS HIDRÀULICS	1	3	3
13	SOBREESFORÇOS **Situació:** TREBALLS I MANIPULACIÓ MANUAL	1	2	2
14	EXPOSICIÓ A CONDICIONS AMBIENTALS EXTREMES **Situació:** TREBALLS ALS EXTERIORS	1	2	2
16	EXPOSICIÓ A CONTACTES ELÈCTRICS **Situació:** EXISTÈNCIA D'INSTAL.LACIONS ELÈCTRIQUES SOTERRADES	1	3	3
17	INHALACIÓ O INGESTIÓ DE SUBSTANCIES NOCIVES **Situació:** POLS GENERAT EN LA EXCAVACIÓ I EN LES ZONES DE PAS	2	1	2
25	ATROPELLAMENTS O COPS AMB VEHICLES **Situació:** MAQUINÀRIA PRESENT EN OBRA	2	2	3
26	EXPOSICIÓ A SOROLLS **Situació:** MAQUINÀRIA	2	1	2
27	EXPOSICIÓ A VIBRACIONS **Situació:** MAQUINÀRIA	2	1	2

P: Probabilitat (1,2,3) / G: Gravetat (1,2,3) / A: Avaluació (1,2,3,4,5)

EQUIPS PROTECCIÓ INDIVIDUAL

Codi	UA	Descripció	Riscos
H1411111	u	Casc de seguretat per a ús normal, contra cops, de polietilè amb un pes màxim de 400 g, homologat segons UNE-EN 812	1 /2 /3 /6 /10 /12 /14 /16 /25 /26
H1421110	u	Ulleres de seguretat antiimpactes estàndard, amb muntura universal, amb visor transparent i tractament contra l'entelament, homologades segons UNE-EN 167 i UNE-EN 168	10
H1431101	u	Protector auditiu de tap d'escuma, homologat segons UNE-EN 352-2 i UNE-EN 458	26
H1432012	u	Protector auditiu d'auricular, acoblat al cap amb arnès i orelleres antisoroll, homologat segons UNE-EN 352-1 i UNE-EN 458	26
H1445003	u	Mascareta de protecció respiratòria, homologada segons UNE-EN 140	17
H1465275	u	Parella de botes baixes de seguretat industrial per a treballs de construcció en general, resistents a la humitat, de pell rectificada, amb turmellera encoixinada, amb puntera metàl·lica, sola antilliscant, falca amortidora d'impactes al taló i sense plantilla metàl·lica, homologades segons UNE-EN ISO 20344, UNE-EN ISO 20345, UNE-EN ISO 20346 i UNE-EN ISO 20347	1 /2 /3 /6 /10 /12 /14 /25
H1474600	u	Cinturó antivibració, ajustable i de teixit transpirable	27
H1485800	u	Armilla reflectant amb tires reflectants a la cintura, al pit i a l'esquena, homologada segons UNE-EN 471	14 /25

SISTEMES DE PROTECCIÓ COL·LECTIVA

Codi	UA	Descripció	Riscos
H16C0003	dia	Detector de gasos portàtil, per a espais confinats, amb detector de gas combustible, O2, CO i H2S	17
HBBAA005	u	Senyal de prohibició, normalitzada amb pictograma negre sobre fons blanc, de forma circular amb cantells i banda transversal descendent d'esquerra a dreta a 45°, en color vermell, diàmetre 29 cm, amb cartell explicatiu rectangular, per ser vista fins 12 m, fixada i amb el desmuntatge inclòs	1 /2 /3 /6 /10 /12 /16 /17 /25 /26 /27
HBBAB115	u	Senyal de obligació, normalitzada amb pictograma blanc sobre fons blau, de forma circular amb cantells en color blanc, diàmetre 29 cm, amb cartell explicatiu rectangular, per ser vista fins 12 m, fixada i amb el desmuntatge inclòs	1 /2 /3 /6 /10 /12 /16 /17 /25 /26 /27
HBBAF004	u	Senyal d'advertència, normalitzada amb pictograma negre sobre fons groc, de forma triangular amb el cantell negre, costat major 41 cm, amb cartell explicatiu rectangular, per ser vista fins 12 m de distància, fixada i amb el desmuntatge inclòs	1 /2 /3 /6 /10 /12 /16 /17 /25 /26 /27

MESURES PREVENTIVES

Codi	Descripció	Riscos
I0000002	Planificar els treballs per a mantenir el màxim de temps possible les proteccions	1
I0000003	Itineraris preestablerts i balissats per al personal	1 /10 /12
I0000004	Revisió i manteniment periòdic de SPC	1
I0000013	Ordre i neteja	2 /6 /17
I0000014	Preparació i manteniment de les superfícies de treball	2 /6
I0000015	Organització de les zones de pas i emmagatzematge	2 /6
I0000023	Solicitar dades de les característiques físiques de les terres	3
I0000024	Execució de treballs a l'interior de rases per equips	3
I0000040	Formació de l'operari en l'ús i manteniment d'eines	12 /13
I0000044	Evitar processos de tallat de materials a l'obra	10
I0000045	Formació	10
I0000051	Adequació dels recorreguts de la maquinària	10 /12
I0000053	Procediment d'utilització de la maquinària	12
I0000054	Ús de recolzaments hidràulics	12
I0000056	Paletització i eines ergonòmiques	13
I0000058	Adaptar la feina a les característiques individuals de la persona que la realitza	13
I0000060	Suspensió de les feines en condicions extremes	14
I0000061	Rotació dels llocs de treball	14 /27
I0000062	Planificar els treballs per a realitzar-los en zones protegides	14 /26
I0000070	Compliment del REBT pel que fa a equips de protecció	16
I0000071	Revisió de la posta a terra	16
I0000073	Disposar de quadres elèctrics secundaris	16
I0000074	Reg de les zones de treball	17
I0000078	Evitar processos de divissió de material en sec	17
I0000103	Planificació de les àrees de treball	25
I0000104	Accessos i circulació independents per a personal i maquinària	25
I0000106	El personal no ha de descansar al costat de màquines aturades	25
I0000108	Eliminar el soroll en origen	26

I0000110	Eliminar vibracions en origen	27
I0000154	Verificar nivell lumínic mínim (250 lux) a itineraris i llocs de treball	1 /2 /12 /25
I0000155	Controlar la temperatura i velocitat del vent als llocs de treball	14
I0000156	Detecció xarxes instal·lacions encastades o soterrades	16 /17
I0000157	Control del nivell sonor amb sonómetre portàtil	26
I0000168	Mantenir lliure d'aigua, fang i llots excavació i rases	2

G02.G03 EXCAVACIÓ DE RASES I POUS

EXCAVACIÓ DE RASES I POUS MITJANÇANT MITJANS MANUALS I/O MECÀNICS AMB O SENSE ENTIBACIÓ

Avaluació de riscos

Id	Risc	P	G	A
1	CAIGUDA DE PERSONES A DIFERENT NIVELL **Situació:** ACCÉS FONS D'EXCAVACIÓ CIRCULACIÓ PERIMETRAL DE LA RASA	2	3	4
2	CAIGUDA DE PERSONES AL MATEIX NIVELL **Situació:** IRREGULARITAT DE LA ZONA DE TREBALL APLEC DE MATERIAL	2	2	3
3	CAIGUDA D'OBJECTES PER DESPLOM, ESFONDRAMENT O ENSORRAMENT **Situació:** ESTABILITAT DE L'EXCAVACIÓ COL·LOCACIÓ DE L'ESTINTOLAMENT	2	3	4
6	TREPITJADES SOBRE OBJECTES **Situació:** IRREGULARITAT SUPERFÍCIE DE TREBALL	2	1	2
9	COPS AMB OBJECTES O EINES (TALLS) **Situació:** EINES MANUALS I/O MECÀNIQUES	2	2	3
12	ATRAPAMENT PER BOLCADA DE MÀQUINES, TRACTORS O VEHICLES **Situació:** ESTABILITAT DE LA MAQUINÀRIA RECOLZAMENTS HIDRÀULICS ZONES DE PAS DELIMITADES	1	3	3
13	SOBREESFORÇOS **Situació:** TREBALLS MANUALS D'EXCAVACIÓ I EXTRACCIÓ DE TERRES	1	2	2
14	EXPOSICIÓ A CONDICIONS AMBIENTALS EXTREMES **Situació:** TREBALLS A L'EXTERIOR	1	2	2
16	EXPOSICIÓ A CONTACTES ELÈCTRICS **Situació:** EXISTÈNCIA D'INSTAL·LACIONS ELÈCTRIQUES SOTERRADES	1	3	3
17	INHALACIÓ O INGESTIÓ DE SUBSTANCIES NOCIVES **Situació:** POLS TERRES	2	1	2
25	ATROPELLAMENTS O COPS AMB VEHICLES **Situació:** CIRCULACIÓ INTERIOR D'OBRA	1	3	3
26	EXPOSICIÓ A SOROLLS **Situació:** MAQUINÀRIA	2	1	2
27	EXPOSICIÓ A VIBRACIONS **Situació:** MAQUINÀRIA	2	1	2

P: Probabilitat (1,2,3) / G: Gravetat (1,2,3) / A: Avaluació (1,2,3,4,5)

EQUIPS PROTECCIÓ INDIVIDUAL

Codi	UA	Descripció	Riscos
H1411111	u	Casc de seguretat per a ús normal, contra cops, de polietilè amb un pes màxim de 400 g, homologat segons UNE-EN 812	1 /2 /3 /6 /9 /12 /14 /16 /25 /26
H1431101	u	Protector auditiu de tap d'escuma, homologat segons UNE-EN 352-2 i UNE-EN 458	26
H1432012	u	Protector auditiu d'auricular, acoblat al cap amb arnès i orelleres antisoroll, homologat segons UNE-EN 352-1 i UNE-EN 458	26
H1445003	u	Mascareta de protecció respiratòria, homologada segons UNE-EN 140	17
H1465275	u	Parella de botes baixes de seguretat industrial per a treballs de construcció en general, resistents a la humitat, de pell rectificada, amb turmellera encoixinada, amb puntera metàl·lica, sola antilliscant, falca amortidora d'impactes al taló i sense plantilla metàl·lica, homologades segons UNE-EN ISO 20344, UNE-EN ISO 20345, UNE-EN ISO 20346 i UNE-EN ISO 20347	1 /2 /3 /6 /9 /12 /14 /25
H1474600	u	Cinturó antivibració, ajustable i de teixit transpirable	27
H147L015	u	Aparell d'ancoratge per a equip de protecció individual contra caiguda d'alçada, homologat segons UNE-EN 795, amb fixació amb tac mecànic	1 /3
H1481242	u	Granota de treball per a construcció, de polièster i cotó (65%-35%), color beix, trama 240, amb butxaques interiors, homologada segons UNE-EN 340	1 /2 /3 /6 /9 /12 /14 /16 /25
H1485800	u	Armilla reflectant amb tires reflectants a la cintura, al pit i a l'esquena, homologada segons UNE-EN 471	3 /9 /14 /25

SISTEMES DE PROTECCIÓ COL·LECTIVA

Codi	UA	Descripció	Riscos
HBBAA005	u	Senyal de prohibició, normalitzada amb pictograma negre sobre fons blanc, de forma circular amb cantells i banda transversal descendent d'esquerra a dreta a 45°, en color vermell, diàmetre 29 cm, amb cartell explicatiu rectangular, per ser vista fins 12 m, fixada i amb el desmuntatge inclòs	1 /2 /3 /6 /9 /12 /17 /25 /26 /27
HBBAB115	u	Senyal de obligació, normalitzada amb pictograma blanc sobre fons blau, de forma circular amb cantells en color blanc, diàmetre 29 cm, amb cartell explicatiu rectangular, per ser vista fins 12 m, fixada i amb el desmuntatge inclòs	1 /2 /3 /6 /9 /12 /17 /25 /26 /27
HBBAF004	u	Senyal d'advertència, normalitzada amb pictograma negre sobre fons groc, de forma triangular amb el cantell negre, costat major 41 cm, amb cartell explicatiu rectangular, per ser vista fins 12 m de distància, fixada i amb el desmuntatge inclòs	1 /2 /3 /6 /9 /12 /17 /25 /26 /27

MESURES PREVENTIVES

Codi	Descripció	Riscos
I0000002	Planificar els treballs per a mantenir el màxim de temps possible les proteccions	1
I0000003	Itineraris preestablerts i balissats per al personal	1
I0000004	Revisió i manteniment periòdic de SPC	1
I0000012	Assegurar les escales de mà	1
I0000013	Ordre i neteja	2 /6 /17
I0000014	Preparació i manteniment de les superfícies de treball	2 /6
I0000015	Organització de les zones de pas i emmagatzematge	2 /6
I0000020	No realitzar treballs a la mateixa vertical	3
I0000021	Establir punts de referència per a controlar els moviments de l'estructura	3
I0000023	Solicitar dades de les característiques físiques de les terres	3
I0000024	Execució de treballs a l'interior de rases per equips	3
I0000026	Planificació de recorreguts i maniobres per a màquines i camions	12
I0000038	Substituir lo manual per lo mecànic	9
I0000039	Planificació de compra i programa de manteniment d'eines	9
I0000040	Formació de l'operari en l'ús i manteniment d'eines	9 /12 /13
I0000051	Adequació dels recorreguts de la maquinària	12
I0000053	Procediment d'utilització de la maquinària	12
I0000055	Elecció dels equips de manteniment	13
I0000056	Paletització i eines ergonòmiques	13
I0000060	Suspensió de les feines en condicions extremes	14
I0000061	Rotació dels llocs de treball	27
I0000062	Planificar els treballs per a realitzar-los en zones protegides	26
I0000067	No treballar al costat de linies elèctriques amb cables nusos	16
I0000074	Reg de les zones de treball	17
I0000083	Dispositius d'alarma	16
I0000103	Planificació de les àrees de treball	25
I0000104	Accessos i circulació independents per a personal i maquinària	25
I0000105	Anivellar la maquinària per a la realització de l'activitat	25
I0000106	El personal no ha de descansar al costat de màquines aturades	25
I0000107	Limitació de la velocitat dels vehicles	25
I0000108	Eliminar el soroll en origen	26
I0000110	Eliminar vibracions en origen	27
I0000111	Revisar entibacions en començar jornada treball. Precaució per interrupcions >1día, pluges o gelada	3
I0000154	Verificar nivell lumínic mínim (250 lux) a itineraris i llocs de treball	2 /6 /12 /25
I0000155	Controlar la temperatura i velocitat del vent als llocs de treball	14
I0000156	Detecció xarxes instal·lacions encastades o soterrades	16
I0000157	Control del nivell sonor amb sonómetre portàtil	26
I0000168	Mantenir lliure d'aigua, fang i llots excavació i rases	2

G02.G04 REBLIMENTS SUPERFICIALS, TERRAPLENS / PEDRAPLENS

FORMACIÓ DE REBLERTS I TERRAPLENS AMB TERRES O PEDRES (PRÒPIES DE L'OBRA O NO) AMB MITJANS MECÀNICS

Avaluació de riscos

Id	Risc	P	G	A
1	CAIGUDA DE PERSONES A DIFERENT NIVELL	1	2	2
	Situació: CIRCULACIÓ EN VORES DE TERRAPLENAT ACCÉS A ZONES DE TREBALL			
2	CAIGUDA DE PERSONES AL MATEIX NIVELL	2	1	2
	Situació: IRREGULARITAT SUPERFÍCIE DE TREBALL ACCÉS A ZONES DE TREBALL APLEC DE TERRES			
3	CAIGUDA D'OBJECTES PER DESPLOM, ESFONDRAMENT O ENSORRAMENT	1	2	2

	Situació: INESTABILITAT DE TALUSSOS			
4	CAIGUDA D'OBJECTES PER MANIPULACIÓ O DE MATERIALS TRANSPORTATS	1	3	3
	Situació: MANUTENCIÓ DE TERRES O BLOCS DE PEDRA AL TALL NO RESPECTAR DISTÀNCIA DE SEGURETAT			
6	TREPITJADES SOBRE OBJECTES	2	1	2
	Situació: IRREGULARITAT SUPERFÍCIE DE TREBALL			
12	ATRAPAMENT PER BOLCADA DE MÀQUINES, TRACTORS O VEHICLES	1	3	3
	Situació: INESTABILITAT DEL VEHICLE: RECOLZAMENTS HIDRÀULICS ZONES DE CIRCULACIÓ EN CONDICIONS			
13	SOBREESFORÇOS	1	2	2
	Situació: TREBALLS MANUALS			
14	EXPOSICIÓ A CONDICIONS AMBIENTALS EXTREMES	1	2	2
	Situació: TREBALLS A L'EXTERIOR			
17	INHALACIÓ O INGESTIÓ DE SUBSTANCIES NOCIVES	2	1	2
	Situació: POLS			
25	ATROPELLAMENTS O COPS AMB VEHICLES	2	2	3
	Situació: CIRCULACIÓ INTERIOR DE VEHICLES			
26	EXPOSICIÓ A SOROLLS	2	1	2
	Situació: MAQUINÀRIA			
27	EXPOSICIÓ A VIBRACIONS	2	1	2
	Situació: MAQUINÀRIA			

P: Probabilitat (1,2,3) / G: Gravetat (1,2,3) / A: Avaluació (1,2,3,4,5)

EQUIPS PROTECCIÓ INDIVIDUAL

Codi	UA	Descripció	Riscos
H1411111	u	Casc de seguretat per a ús normal, contra cops, de polietilè amb un pes màxim de 400 g, homologat segons UNE-EN 812	1 /2 /3 /4 /6 /12 /14 /25 /26
H1431101	u	Protector auditiu de tap d'escuma, homologat segons UNE-EN 352-2 i UNE-EN 458	26
H1432012	u	Protector auditiu d'auricular, acoblat al cap amb arnès i orelleres antisoroll, homologat segons UNE-EN 352-1 i UNE-EN 458	26
H1445003	u	Mascareta de protecció respiratòria, homologada segons UNE-EN 140	17
H1465275	u	Parella de botes baixes de seguretat industrial per a treballs de construcció en general, resistents a la humitat, de pell rectificada, amb turmellera encoixinada, amb puntera metàl·lica, sola antilliscant, falca amortidora d'impactes al taló i sense plantilla metàl·lica, homologades segons UNE-EN ISO 20344, UNE-EN ISO 20345, UNE-EN ISO 20346 i UNE-EN ISO 20347	1 /2 /3 /4 /6 /12 /14 /25
H1474600	u	Cinturó antivibració, ajustable i de teixit transpirable	27
H1485800	u	Armilla reflectant amb tires reflectants a la cintura, al pit i a l'esquena, homologada segons UNE-EN 471	14 /25

SISTEMES DE PROTECCIÓ COL·LECTIVA

Codi	UA	Descripció	Riscos
H153A9F1	u	Topall per a descàrrega de camions en excavacions, de 4 m d'amplada amb tauló de fusta i perfils IPN 100 clavat al terreny i amb el desmuntatge inclòs	4 /12 /25
HBBAA005	u	Senyal de prohibició, normalitzada amb pictograma negre sobre fons blanc, de forma circular amb cantells i banda transversal descendent d'esquerra a dreta a 45°, en color vermell, diàmetre 29 cm, amb cartell explicatiu rectangular, per ser vista fins 12 m, fixada i amb el desmuntatge inclòs	1 /2 /3 /4 /6 /12 /25 /26 /27
HBBAB115	u	Senyal de obligació, normalitzada amb pictograma blanc sobre fons blau, de forma circular amb cantells en color blanc, diàmetre 29 cm, amb cartell explicatiu rectangular, per ser vista fins 12 m, fixada i amb el desmuntatge inclòs	1 /2 /3 /4 /6 /12 /25 /26 /27
HBBAF004	u	Senyal d'advertència, normalitzada amb pictograma negre sobre fons groc, de forma triangular amb el cantell negre, costat major 41 cm, amb cartell explicatiu rectangular, per ser vista fins 12 m de distància, fixada i amb el desmuntatge inclòs	1 /2 /3 /4 /6 /12 /25 /26 /27

MESURES PREVENTIVES

Codi	Descripció	Riscos
I0000002	Planificar els treballs per a mantenir el màxim de temps possible les proteccions	1
I0000003	Itineraris preestablerts i balissats per al personal	1 /4
I0000013	Ordre i neteja	2 /6 /17
I0000014	Preparació i manteniment de les superfícies de treball	2 /6
I0000015	Organització de les zones de pas i emmagatzematge	2
I0000020	No realitzar treballs a la mateixa vertical	3
I0000023	Solicitar dades de les característiques físiques de les terres	3
I0000025	Planificació d'àrees i llocs de treball	4
I0000026	Planificació de recorreguts i maniobres per a màquines i camions	4
I0000027	Elecció dels mitjans auxiliars de manteniment	4
I0000028	Impedir l'accés de personal dins del radi d'acció de càrregues suspeses	4

I0000040	Formació de l'operari en l'ús i manteniment d'eines	12 /13
I0000051	Adequació dels recorreguts de la maquinària	12
I0000053	Procediment d'utilització de la maquinària	12
I0000054	Ús de recolzaments hidràulics	12
I0000055	Elecció dels equips de manteniment	13
I0000060	Suspensió de les feines en condicions extremes	14
I0000061	Rotació dels llocs de treball	27
I0000062	Planificar els treballs per a realitzar-los en zones protegides	26
I0000074	Reg de les zones de treball	17
I0000103	Planificació de les àrees de treball	25
I0000104	Accessos i circulació independents per a personal i maquinària	25
I0000105	Anivellar la maquinària per a la realització de l'activitat	25
I0000106	El personal no ha de descansar al costat de màquines aturades	25
I0000107	Limitació de la velocitat dels vehicles	25
I0000108	Eliminar el soroll en origen	26
I0000110	Eliminar vibracions en origen	27
I0000154	Verificar nivell lumínic mínim (250 lux) a itineraris i llocs de treball	1 /2 /6 /12 /25
I0000155	Controlar la temperatura i velocitat del vent als llocs de treball	14
I0000157	Control del nivell sonor amb sonómetre portàtil	26
I0000168	Mantenir lliure d'aigua, fang i llots excavació i rases	2

G02.G05 CÀRREGA I TRANSPORT DE TERRES O RUNES

CÀRREGA MECÀNICA SOBRE CAMIÓ DE TERRES, PEDRES O RUNA PROCEDENTS DE L'EXCAVACIÓ EN OBRA PER A TRANSPORT POSTERIOR A LA MATEIXA OBRA O A ABOCADOR

Avaluació de riscos

Id	Risc	P	G	A
2	CAIGUDA DE PERSONES AL MATEIX NIVELL	2	1	2
	Situació: IRREGULARITAT ZONA DE TREBALL ACCÉS AL TALL			
4	CAIGUDA D'OBJECTES PER MANIPULACIÓ O DE MATERIALS TRANSPORTATS	2	2	3
	Situació: FEINES DE CÀRREGA DE CAMIONS CAMIONS SOBRECÀRREGATS MAQUINÀRIA NO ADIENT			
11	ATRAPAMENT PER O ENTRE OBJECTES	2	3	4
	Situació: MAQUINÀRIA NO ADIENT			
12	ATRAPAMENT PER BOLCADA DE MÀQUINES, TRACTORS O VEHICLES	2	3	4
	Situació: IRREGULARITAT DE SUPERFÍCIE DE TREBALL I ITINERARIS OBRA ESTABILITAT DELS RECOLZAMENTS HIDRÀULICS			
13	SOBREESFORÇOS	1	2	2
	Situació: TREBALLS MANUALS			
14	EXPOSICIÓ A CONDICIONS AMBIENTALS EXTREMES	2	1	2
	Situació: TREBALLS A L'EXTERIOR			
17	INHALACIÓ O INGESTIÓ DE SUBSTANCIES NOCIVES	2	2	3
	Situació: POLS DE L'EXCAVACIÓ, CÀRREGA I TRANSPORT DE TERRES			
25	ATROPELLAMENTS O COPS AMB VEHICLES	2	3	4
	Situació: CIRCULACIÓ INTERIOR D'OBRA			
26	EXPOSICIÓ A SOROLLS	2	1	2
	Situació: MAQUINÀRIA			
27	EXPOSICIÓ A VIBRACIONS	2	1	2
	Situació: MAQUINÀRIA			

P: Probabilitat (1,2,3) / G: Gravetat (1,2,3) / A: Avaluació (1,2,3,4,5)

EQUIPS PROTECCIÓ INDIVIDUAL

Codi	UA	Descripció	Riscos
H1411111	u	Casc de seguretat per a ús normal, contra cops, de polietilè amb un pes màxim de 400 g, homologat segons UNE-EN 812	2 /4 /11 /12 /14 /25 /26
H1431101	u	Protector auditiu de tap d'escuma, homologat segons UNE-EN 352-2 i UNE-EN 458	26
H1432012	u	Protector auditiu d'auricular, acoblat al cap amb arnès i orelleres antisoroll, homologat segons UNE-EN 352-1 i UNE-EN 458	26
H1445003	u	Mascareta de protecció respiratòria, homologada segons UNE-EN 140	17
H1465275	u	Parella de botes baixes de seguretat industrial per a treballs de construcció en general, resistents a la humitat, de pell rectificada, amb turmellera encoixinada, amb puntera metàl·lica, sola antilliscant, falca amortidora d'impactes al taló i sense plantilla metàl·lica, homologades segons UNE-EN ISO 20344, UNE-EN ISO 20345, UNE-EN ISO 20346 i UNE-EN ISO 20347	2 /4 /11 /12 /14 /25
H1474600	u	Cinturó antivibració, ajustable i de teixit transpirable	27
H1481242	u	Granota de treball per a construcció, de polièster i cotó (65%-35%), color beix, trama 240, amb butxaques interiors, homologada segons UNE-EN 340	2 /4 /11 /12 /14 /25

H1485800	u	Armilla reflectant amb tires reflectants a la cintura, al pit i a l'esquena, homologada segons UNE-EN 471	14 /25

SISTEMES DE PROTECCIÓ COL·LECTIVA

Codi	UA	Descripció	Riscos
H153A9F1	u	Topall per a descàrrega de camions en excavacions, de 4 m d'amplada amb tauló de fusta i perfils IPN 100 clavat al terreny i amb el desmuntatge inclòs	12 /25
HBBAA005	u	Senyal de prohibició, normalitzada amb pictograma negre sobre fons blanc, de forma circular amb cantells i banda transversal descendent d'esquerra a dreta a 45°, en color vermell, diàmetre 29 cm, amb cartell explicatiu rectangular, per ser vista fins 12 m, fixada i amb el desmuntatge inclòs	2 /4 /11 /12 /25 /26 /27
HBBAB115	u	Senyal de obligació, normalitzada amb pictograma blanc sobre fons blau, de forma circular amb cantells en color blanc, diàmetre 29 cm, amb cartell explicatiu rectangular, per ser vista fins 12 m, fixada i amb el desmuntatge inclòs	2 /4 /11 /12 /25 /26 /27
HBBAF004	u	Senyal d'advertència, normalitzada amb pictograma negre sobre fons groc, de forma triangular amb el cantell negre, costat major 41 cm, amb cartell explicatiu rectangular, per ser vista fins 12 m de distància, fixada i amb el desmuntatge inclòs	2 /4 /11 /12 /25 /26 /27

MESURES PREVENTIVES

Codi	Descripció	Riscos
I0000002	Planificar els treballs per a mantenir el màxim de temps possible les proteccions	2
I0000003	Itineraris preestablerts i balissats per al personal	2
I0000004	Revisió i manteniment periòdic de SPC	2
I0000025	Planificació d'àrees i llocs de treball	4
I0000026	Planificació de recorreguts i maniobres per a màquines i camions	4
I0000029	No balancejar les càrregues suspeses	4
I0000040	Formació de l'operari en l'ús i manteniment d'eines	12 /13
I0000047	Planificació i procediments per a la càrrega i descàrrega de materials	11
I0000048	No treballar al costat de paraments acabats de fer (< 48 h)	11
I0000050	No treballar ni estar al radi d'acció de les càrregues suspesses	11
I0000051	Adequació dels recorreguts de la maquinària	12
I0000053	Procediment d'utilització de la maquinària	12
I0000054	Ús de recolzaments hidràulics	12
I0000060	Suspensió de les feines en condicions extremes	14
I0000061	Rotació dels llocs de treball	27
I0000062	Planificar els treballs per a realitzar-los en zones protegides	26
I0000074	Reg de les zones de treball	17
I0000103	Planificació de les àrees de treball	25
I0000104	Accessos i circulació independents per a personal i maquinària	25
I0000105	Anivellar la maquinària per a la realització de l'activitat	25
I0000106	El personal no ha de descansar al costat de màquines aturades	25
I0000107	Limitació de la velocitat dels vehicles	25
I0000108	Eliminar el soroll en origen	26
I0000110	Eliminar vibracions en origen	27
I0000154	Verificar nivell lumínic mínim (250 lux) a itineraris i llocs de treball	2 /12 /25
I0000155	Controlar la temperatura i velocitat del vent als llocs de treball	14
I0000157	Control del nivell sonor amb sonómetre portàtil	26
I0000168	Mantenir lliure d'aigua, fang i llots excavació i rases	14

G03 FONAMENTS
G03.G01 SUPERFICIALS (RASES - POUS - LLOSES - ENCEPS - BIGUES DE LLIGAT - MURS GUIA)

EXECUCIÓ DE FONAMENTS SUPERFICIALS (EXCAVACIÓ, ARMAT, FORMIGONAT, CURAT) AMB MITJANS MECÀNICS I/O MANUALS

Avaluació de riscos

Id	Risc	P	G	A
1	CAIGUDA DE PERSONES A DIFERENT NIVELL **Situació:** CAIGUDES DINS DE RASES, POUS	1	1	1
2	CAIGUDA DE PERSONES AL MATEIX NIVELL **Situació:** CIRCULACIÓ INTERIOR OBRA MUNTATGE D'ENCOFRATS, ARMADURES, FORMIGONAT	2	1	2
4	CAIGUDA D'OBJECTES PER MANIPULACIÓ O DE MATERIALS TRANSPORTATS **Situació:** CAIGUDA D'ELEMENTS EN L'EXECUCIÓ D'ENCOFRAT , ARMAT , FORMIGONAT	2	2	3
6	TREPITJADES SOBRE OBJECTES **Situació:** COL·LOCACIÓ D'ARMADURES	2	2	3
9	COPS AMB OBJECTES O EINES (TALLS) **Situació:** TALLS AMB SERRA CIRCULAR: ENCOFRAT, ARMAT	2	2	3

10	PROJECCIÓ DE FRAGMENTS O PARTÍCULES **Situació:** MUNTATGE ENCOFRAT, ARMADURES ESCAPÇAT DE PILOTIS: UTILITZACIÓ DEL MARTELL PNEUMÀTIC	2	2	3
11	ATRAPAMENT PER O ENTRE OBJECTES **Situació:** MUNTATGE D'ENCOFRAT FORMIGONERA FEINES DE FORMIGONAT	1	2	2
13	SOBREESFORÇOS **Situació:** CARETEIG DE MATERIAL PER AL SEU TRACTAMENT: TALLERS FERRALLA, ENCOFRADORS	2	2	3
14	EXPOSICIÓ A CONDICIONS AMBIENTALS EXTREMES **Situació:** TREBALLS A L'EXTERIOR	1	2	2
16	EXPOSICIÓ A CONTACTES ELÈCTRICS **Situació:** ÚS DE MAQUINÀRIA CONTACTES DIRECTES I INDIRECTES	1	3	3
17	INHALACIÓ O INGESTIÓ DE SUBSTANCIES NOCIVES **Situació:** POLS (CENTRAL FORMIGONERA PRÒPIA A OBRA) POLS TERRA	2	1	2
18	CONTACTES AMB SUBSTANCIES NOCIVES (CÀUSTIQUES, CORROSIVES, IRRITANTS O AL·LERGÈNIQUES) **Situació:** CONTACTES AMB CIMENT (FORMIGÓ)	2	1	2
25	ATROPELLAMENTS O COPS AMB VEHICLES **Situació:** CIRCULACIÓ INTERIOR OBRA DE CAMIONS EN OPERACIONS DE COL·LOCACIÓ D'ARMADURES, FORMIGONAT, SUBMINISTRAMENT DE MATERIALS	1	3	3
26	EXPOSICIÓ A SOROLLS **Situació:** MAQUINÀRIA TALLERS (FERRALLA, ENCOFRATS...)	2	1	2
27	EXPOSICIÓ A VIBRACIONS **Situació:** MAQUINÀRIA	2	1	2

P: Probabilitat (1,2,3) / G: Gravetat (1,2,3) / A: Avaluació (1,2,3,4,5)

EQUIPS PROTECCIÓ INDIVIDUAL

Codi	UA	Descripció	Riscos
H1411111	u	Casc de seguretat per a ús normal, contra cops, de polietilè amb un pes màxim de 400 g, homologat segons UNE-EN 812	1 /2 /4 /6 /9 /10 /11 /14 /16 /18 /25 /26
H1431101	u	Protector auditiu de tap d'escuma, homologat segons UNE-EN 352-2 i UNE-EN 458	26
H1432012	u	Protector auditiu d'auricular, acoblat al cap amb arnès i orelleres antisoroll, homologat segons UNE-EN 352-1 i UNE-EN 458	26
H1445003	u	Mascareta de protecció respiratòria, homologada segons UNE-EN 140	17
H1465275	u	Parella de botes baixes de seguretat industrial per a treballs de construcció en general, resistents a la humitat, de pell rectificada, amb turmellera encoixinada, amb puntera metàl·lica, sola antilliscant, falca amortidora d'impactes al taló i sense plantilla metàl·lica, homologades segons UNE-EN ISO 20344, UNE-EN ISO 20345, UNE-EN ISO 20346 i UNE-EN ISO 20347	1 /2 /4 /6 /9 /10 /11 /14 /18 /25
H1474600	u	Cinturó antivibració, ajustable i de teixit transpirable	27

SISTEMES DE PROTECCIÓ COL·LECTIVA

Codi	UA	Descripció	Riscos
H1534001	u	Peça de plàstic en forma de bolet, de color vermell, per a protecció dels extrems de les armadures per a qualsevol diàmetre, amb desmuntatge inclòs	1 /2 /6
HBBAA005	u	Senyal de prohibició, normalitzada amb pictograma negre sobre fons blanc, de forma circular amb cantells i banda transversal descendent d'esquerra a dreta a 45°, en color vermell, diàmetre 29 cm, amb cartell explicatiu rectangular, per ser vista fins 12 m, fixada i amb el desmuntatge inclòs	1 /2 /4 /6 /9 /10 /11 /13 /14 /16 /17 /18 /25 /26 /27
HBBAB115	u	Senyal de obligació, normalitzada amb pictograma blanc sobre fons blau, de forma circular amb cantells en color blanc, diàmetre 29 cm, amb cartell explicatiu rectangular, per ser vista fins 12 m, fixada i amb el desmuntatge inclòs	1 /2 /4 /6 /9 /10 /11 /13 /14 /16 /17 /18 /25 /26 /27
HBBAF004	u	Senyal d'advertència, normalitzada amb pictograma negre sobre fons groc, de forma triangular amb el cantell negre, costat major 41 cm, amb cartell explicatiu rectangular, per ser vista fins 12 m de distància, fixada i amb el desmuntatge inclòs	1 /2 /4 /6 /9 /10 /11 /13 /14 /16 /17 /18 /25 /26 /27

MESURES PREVENTIVES

Codi	Descripció	Riscos
I0000002	Planificar els treballs per a mantenir el màxim de temps possible les proteccions	1 /2
I0000003	Itineraris preestablerts i balissats per al personal	1 /2

I0000004	Revisió i manteniment periòdic de SPC	1
I0000012	Assegurar les escales de mà	1 /2
I0000013	Ordre i neteja	1 /2 /6 /17
I0000014	Preparació i manteniment de les superfícies de treball	6
I0000015	Organització de les zones de pas i emmagatzematge	1 /2 /6
I0000025	Planificació d'àrees i llocs de treball	4
I0000026	Planificació de recorreguts i maniobres per a màquines i camions	4
I0000027	Elecció dels mitjans auxiliars de manteniment	4
I0000028	Impedir l'accés de personal dins del radi d'acció de càrregues suspeses	4
I0000029	No balancejar les càrregues suspeses	4
I0000030	Suspendre i aixecar les càrregues dins de l'envolcall o fleixos originals	4
I0000031	Per a la manipulació de materials voluminosos i/o pesats, solicitar un procediment de treball específic	4
I0000038	Substituir lo manual per lo mecànic	9 /10
I0000039	Planificació de compra i programa de manteniment d'eines	9
I0000040	Formació de l'operari en l'ús i manteniment d'eines	9 /13
I0000041	Substituir la fabricació a obra per la prefabricació a taller	9
I0000042	Evitar processos de manipulació de materials a obra	9
I0000044	Evitar processos de tallat de materials a l'obra	10
I0000045	Formació	10 /18
I0000046	Evitar processos d'ajust en obra	10
I0000047	Planificació i procediments per a la càrrega i descàrrega de materials	11
I0000048	No treballar al costat de paraments acabats de fer (< 48 h)	11
I0000055	Elecció dels equips de manteniment	13
I0000056	Paletització i eines ergonòmiques	13
I0000058	Adaptar la feina a les característiques individuals de la persona que la realitza	13
I0000060	Suspensió de les feines en condicions extremes	14
I0000061	Rotació dels llocs de treball	14 /27
I0000062	Planificar els treballs per a realitzar-los en zones protegides	14 /26
I0000068	Elecció i manteniment de les eines elèctriques	16
I0000069	Formació i habilitació específica per a cada eina	16
I0000070	Compliment del REBT pel que fa a equips de protecció	16
I0000071	Revisió de la posta a terra	16
I0000073	Disposar de quadres elèctrics secundaris	16
I0000074	Reg de les zones de treball	17
I0000103	Planificació de les àrees de treball	25
I0000104	Accessos i circulació independents per a personal i maquinària	25
I0000105	Anivellar la maquinària per a la realització de l'activitat	25
I0000106	El personal no ha de descansar al costat de màquines aturades	25
I0000107	Limitació de la velocitat dels vehicles	25
I0000108	Eliminar el soroll en origen	26
I0000110	Eliminar vibracions en origen	27
I0000154	Verificar nivell lumínic mínim (250 lux) a itineraris i llocs de treball	1 /2 /6 /25
I0000155	Controlar la temperatura i velocitat del vent als llocs de treball	14
I0000156	Detecció xarxes instal·lacions encastades o soterrades	16
I0000157	Control del nivell sonor amb sonómetre portàtil	26
I0000160	Traslladar materials amb la grua dins d'una caixa o sarcòfeg	4
I0000161	Verificar que les connexions de les màquines es facin amb endolls reglamentaris	16
I0000168	Mantenir lliure d'aigua, fang i llots excavació i rases	2

G03.G10 ESTREBADES I APUNTALAMENTS

REALITZACIÓ D'ELEMENTS PORTANTS TEMPORALS PER AL SOSTENIMENT DE TERRES O D'ELEMENTS CONTRUCTIUS VERTICALS O HORITZONTALS

Avaluació de riscos

Id	Risc	P	G	A
1	CAIGUDA DE PERSONES A DIFERENT NIVELL **Situació:** ITINERARIS D'OBRA TREBALLS EN ALÇADA PROCÉS DE COLOCACIÓ D'ESTREBS	2	3	4
2	CAIGUDA DE PERSONES AL MATEIX NIVELL **Situació:** ITINERARIS D'OBRA ÀREA DE TREBALL MANCA D'IL.LUMINACIÓ	1	1	1
4	CAIGUDA D'OBJECTES PER MANIPULACIÓ O DE MATERIALS TRANSPORTATS **Situació:** COL.LOCACIÓ, MANIPULACIÓ I AJUST DE PECES	2	3	4
6	TREPITJADES SOBRE OBJECTES **Situació:** ITINERARIS D'OBRA ÀREA DE TREBALL	1	1	1

	ELEMENTS PUNXANTS MANCA D'IL.LUMINACIÓ			
9	COPS AMB OBJECTES O EINES (TALLS) **Situació:** ÚS D'EINES MANUALS I/O MECÀNIQUES AMB ELEMENTS ESTRUCTURALS	2	1	2
10	PROJECCIÓ DE FRAGMENTS O PARTÍCULES **Situació:** PROCESSOS D'AJUSTAMENT DE PECES ÚS DEL MARTELL PNEUMÀTIC	2	2	3
11	ATRAPAMENT PER O ENTRE OBJECTES **Situació:** AMB ELEMENTS ESTRUCTURALS	2	3	4
13	SOBREESFORÇOS **Situació:** MANIPULACIÓ MANUAL D'EINES I MATERIAL	2	2	3
14	EXPOSICIÓ A CONDICIONS AMBIENTALS EXTREMES **Situació:** TREBALLS A L'EXTERIOR	1	2	2
25	ATROPELLAMENTS O COPS AMB VEHICLES **Situació:** INTERFERÈNCIA ÀREA DE TREBALL PROCESSOS DE MANUTENCIÓ, GUIAT DE MATERIALS	2	3	4

P: Probabilitat (1,2,3) / G: Gravetat (1,2,3) / A: Avaluació (1,2,3,4,5)

EQUIPS PROTECCIÓ INDIVIDUAL

Codi	UA	Descripció	Riscos
H1411111	u	Casc de seguretat per a ús normal, contra cops, de polietilè amb un pes màxim de 400 g, homologat segons UNE-EN 812	2 /4 /6 /9 /10 /11 /13 /14 /25
H1421110	u	Ulleres de seguretat antiimpactes estàndard, amb muntura universal, amb visor transparent i tractament contra l'entelament, homologades segons UNE-EN 167 i UNE-EN 168	14
H1432012	u	Protector auditiu d'auricular, acoblat al cap amb arnès i orelleres antisoroll, homologat segons UNE-EN 352-1 i UNE-EN 458	13
H1455710	u	Parella de guants d'alta resistència al tall i a l'abrassió per a ferrallista, amb dits i palmell de cautxú rugós sobre suport de cotó, i subjecció elàstica al canell, homologats segons UNE-EN 388 i UNE-EN 420	9
H1465275	u	Parella de botes baixes de seguretat industrial per a treballs de construcció en general, resistents a la humitat, de pell rectificada, amb turmellera encoixinada, amb puntera metàl·lica, sola antilliscant, falca amortidora d'impactes al taló i sense plantilla metàl·lica, homologades segons UNE-EN ISO 20344, UNE-EN ISO 20345, UNE-EN ISO 20346 i UNE-EN ISO 20347	1 /2 /4 /9 /10 /14 /25
H146J364	u	Parella de plantilles anticlaus de fleix d'acer de 0,4 mm de gruix, de 120 kg de resistència a la perforació, pintades amb pintures epoxi i folrades, homologades segons UNE-EN ISO 20344 i UNE-EN 12568	6
H147L015	u	Aparell d'ancoratge per a equip de protecció individual contra caiguda d'alçada, homologat segons UNE-EN 795, amb fixació amb tac mecànic	1
H1481242	u	Granota de treball per a construcció, de polièster i cotó (65%-35%), color beix, trama 240, amb butxaques interiors, homologada segons UNE-EN 340	25
H1485800	u	Armilla reflectant amb tires reflectants a la cintura, al pit i a l'esquena, homologada segons UNE-EN 471	4 /11 /25

SISTEMES DE PROTECCIÓ COL·LECTIVA

Codi	UA	Descripció	Riscos
H151A1K1	m2	Protecció col·lectiva horitzontal d'obertures amb xarxa per a proteccions superficials contra caigudes, de fil trenat de poliamida no regenerada, de tenacitat alta, de 4 mm de diàmetre, 80x80 mm de pas de malla, corda perimetral de poliamida de 12 mm de diàmetre nuada a la xarxa, fixada amb fleix i tacs d'expansió i amb el desmuntatge inclòs	1
H152J105	m	Cable fiador per al cinturó de seguretat, fixat en ancoratges de servei i amb el desmuntatge inclòs	1
HBBAA005	u	Senyal de prohibició, normalitzada amb pictograma negre sobre fons blanc, de forma circular amb cantells i banda transversal descendent d'esquerra a dreta a 45°, en color vermell, diàmetre 29 cm, amb cartell explicatiu rectangular, per ser vista fins 12 m, fixada i amb el desmuntatge inclòs	1 /2 /4 /6 /9 /10 /11 /13 /14 /25
HBBAB115	u	Senyal de obligació, normalitzada amb pictograma blanc sobre fons blau, de forma circular amb cantells en color blanc, diàmetre 29 cm, amb cartell explicatiu rectangular, per ser vista fins 12 m, fixada i amb el desmuntatge inclòs	1 /2 /4 /6 /9 /10 /11 /13 /14 /25
HBBAF004	u	Senyal d'advertència, normalitzada amb pictograma negre sobre fons groc, de forma triangular amb el cantell negre, costat major 41 cm, amb cartell explicatiu rectangular, per ser vista fins 12 m de distància, fixada i amb el desmuntatge inclòs	1 /2 /4 /6 /9 /10 /11 /13 /14 /25

MESURES PREVENTIVES

Codi	Descripció	Riscos
I0000003	Itineraris preestablerts i balissats per al personal	1

I0000004	Revisió i manteniment periòdic de SPC	1 /11
I0000005	Integrar la seguretat al disseny arquitectònic	1
I0000006	Disseny i estudi de les mesures preventives en fase de projecte	1
I0000008	Personal qualificat per a treballs en alçada	1
I0000010	Executar les escales a la vegada que el sostre de la planta a la que doni accés	1
I0000012	Assegurar les escales de mà	1
I0000013	Ordre i neteja	2 /6
I0000014	Preparació i manteniment de les superfícies de treball	2 /6
I0000015	Organització de les zones de pas i emmagatzematge	2 /6
I0000017	Als plans inclinats, treballar sobre superfícies rugoses i no lliscants	2
I0000020	No realitzar treballs a la mateixa vertical	4
I0000025	Planificació d'àrees i llocs de treball	4
I0000026	Planificació de recorreguts i maniobres per a màquines i camions	4
I0000027	Elecció dels mitjans auxiliars de manteniment	4
I0000028	Impedir l'accés de personal dins del radi d'acció de càrregues suspeses	4
I0000029	No balancejar les càrregues suspeses	4
I0000031	Per a la manipulació de materials voluminosos i/o pesats, solicitar un procediment de treball específic	4
I0000033	Solicitar habilitació professional del personal encarregat del manteniment de l'obra	4
I0000038	Substituir lo manual per lo mecànic	9 /10
I0000039	Planificació de compra i programa de manteniment d'eines	9
I0000040	Formació de l'operari en l'ús i manteniment d'eines	9
I0000041	Substituir la fabricació a obra per la prefabricació a taller	9
I0000042	Evitar processos de manipulació de materials a obra	9
I0000044	Evitar processos de tallat de materials a l'obra	10
I0000045	Formació	10 /13
I0000046	Evitar processos d'ajust en obra	10
I0000047	Planificació i procediments per a la càrrega i descàrrega de materials	11
I0000050	No treballar ni estar al radi d'acció de les càrregues suspesses	11
I0000055	Elecció dels equips de manteniment	13
I0000058	Adaptar la feina a les característiques individuals de la persona que la realitza	13
I0000059	Elecció dels materials alternatius poc pessats i més manegables	13
I0000060	Suspensió de les feines en condicions extremes	14
I0000061	Rotació dels llocs de treball	14
I0000062	Planificar els treballs per a realitzar-los en zones protegides	14
I0000063	En cas de vent, apuntalament i fixació de tots els elements inestables	14
I0000064	Suspensió de les feines a cobertes inclinades amb vent superior a 40 km/h	14
I0000103	Planificació de les àrees de treball	25
I0000104	Accessos i circulació independents per a personal i maquinària	25
I0000105	Anivellar la maquinària per a la realització de l'activitat	25
I0000106	El personal no ha de descansar al costat de màquines aturades	25
I0000107	Limitació de la velocitat dels vehicles	25
I0000111	Revisar entibacions en començar jornada treball. Precaució per interrupcions >1día, pluges o gelada	11
I0000152	Utilitzar mitjans mecànics(grues, transpalets, plataformes elevadores) per manipular càrregues	4 /13
I0000154	Verificar nivell lumínic mínim (250 lux) a itineraris i llocs de treball	1 /2 /6 /9
I0000155	Controlar la temperatura i velocitat del vent als llocs de treball	14

G04.G02 ESTRUCTURES DE FORMIGÓ IN SITU (ENCOFRATS/ARMADURES/FORMIGONAMENT/ANCORATGES I TESAT)

ESTRUCTURES DE FORMIGÓ ARMAT ELABORADES EN OBRA, ABOCAT AMB CUBILOT O BOMBA, ENCOFRAT METÀL.LIC O DE FUSTA

Avaluació de riscos

Id	Risc	P	G	A
1	CAIGUDA DE PERSONES A DIFERENT NIVELL **Situació:** MUNTATGE D'ENCOFRATS FORMIGONAT DE PILARS I JÀSSERES FORATS VERTICALS O HORIZONTALS	2	3	4
2	CAIGUDA DE PERSONES AL MATEIX NIVELL **Situació:** MATERIAL APLEGAT MATERIAL DE RUNES	2	1	2
3	CAIGUDA D'OBJECTES PER DESPLOM, ESFONDRAMENT O ENSORRAMENT **Situació:** FALLIDES D'APUNTALAMENTS, ENCOFRATS	1	3	3
4	CAIGUDA D'OBJECTES PER MANIPULACIÓ O DE MATERIALS TRANSPORTATS **Situació:** DESCÀRREGA DE MATERIALS A LA VORA DEL SOSTRE	2	3	4

	CAIGUDA D'EINES MANUALS			
6	TREPITJADES SOBRE OBJECTES **Situació:** APLECS DE MATERIAL TREPITJAR SOBRE FORMIGÓ FRESC, CASSETONS, ARMADURA	3	1	3
9	COPS AMB OBJECTES O EINES (TALLS) **Situació:** EINES MANUALS MANIPULACIÓ DE MATERIALS DIFERENTS TALLS	2	2	3
10	PROJECCIÓ DE FRAGMENTS O PARTÍCULES **Situació:** TREBALLS DE TALL DE MATERIALS ABOCAMENT DE FORMIGÓ	2	2	3
11	ATRAPAMENT PER O ENTRE OBJECTES **Situació:** TREBALLS DE COL·LOCACIÓ D'ENCOFRATS, ARMADURES PROCESSOS DE DESCÀRREGA DE MATERIALS	2	2	3
13	SOBREESFORÇOS **Situació:** TREBALLS MANUALS	2	2	3
14	EXPOSICIÓ A CONDICIONS AMBIENTALS EXTREMES **Situació:** TREBALLS A L'EXTERIOR	1	2	2
16	EXPOSICIÓ A CONTACTES ELÈCTRICS **Situació:** CONTACTES DIRECTES I INDIRECTES	1	3	3
18	CONTACTES AMB SUBSTANCIES NOCIVES (CÀUSTIQUES, CORROSIVES, IRRITANTS O AL·LERGÈNIQUES) **Situació:** CONTACTE AMB FORMIGÓ (CIMENT)	2	1	2
25	ATROPELLAMENTS O COPS AMB VEHICLES **Situació:** CIRCULACIÓ DE VEHICLES A OBRA	2	3	4

P: Probabilitat (1,2,3) / G: Gravetat (1,2,3) / A: Avaluació (1,2,3,4,5)

EQUIPS PROTECCIÓ INDIVIDUAL

Codi	UA	Descripció	Riscos
H1411111	u	Casc de seguretat per a ús normal, contra cops, de polietilè amb un pes màxim de 400 g, homologat segons UNE-EN 812	1 /2 /3 /4 /6 /9 /10 /11 /14 /16 /18 /25
H1421110	u	Ulleres de seguretat antiimpactes estàndard, amb muntura universal, amb visor transparent i tractament contra l'entelament, homologades segons UNE-EN 167 i UNE-EN 168	10 /14 /18
H1432012	u	Protector auditiu d'auricular, acoblat al cap amb arnès i orelleres antisoroll, homologat segons UNE-EN 352-1 i UNE-EN 458	14
H1455710	u	Parella de guants d'alta resistència al tall i a l'abrassió per a ferrallista, amb dits i palmell de cautxú rugós sobre suport de cotó, i subjecció elàstica al canell, homologats segons UNE-EN 388 i UNE-EN 420	9 /11
H1461164	u	Parella de botes d'aigua de PVC de canya alta, per posada en obra del formigó, amb plantilla metàl·lica, amb sola antilliscant i folrades de niló rentable, homologades segons UNE-EN ISO 20344, UNE-EN ISO 20345, UNE-EN ISO 20346 i UNE-EN ISO 20347	6
H1465275	u	Parella de botes baixes de seguretat industrial per a treballs de construcció en general, resistents a la humitat, de pell rectificada, amb turmellera encoixinada, amb puntera metàl·lica, sola antilliscant, falca amortidora d'impactes al taló i sense plantilla metàl·lica, homologades segons UNE-EN ISO 20344, UNE-EN ISO 20345, UNE-EN ISO 20346 i UNE-EN ISO 20347	1 /2 /3 /4 /6 /9 /10 /11 /14 /18 /25
H146J364	u	Parella de plantilles anticlaus de fleix d'acer de 0,4 mm de gruix, de 120 kg de resistència a la perforació, pintades amb pintures epoxi i folrades, homologades segons UNE-EN ISO 20344 i UNE-EN 12568	6
H1481242	u	Granota de treball per a construcció, de polièster i cotó (65%-35%), color beix, trama 240, amb butxaques interiors, homologada segons UNE-EN 340	1 /2 /3 /4 /6 /9 /10 /11 /14 /16 /18 /25
H1485800	u	Armilla reflectant amb tires reflectants a la cintura, al pit i a l'esquena, homologada segons UNE-EN 471	25

MITJANS AUXILIARS D'UTILITAT PREVENTIVA

Codi	UA	Descripció	Riscos
HX11X003	u	Bastida modular amb estructura tubular i sistema de seguretat amb tots els requisits reglamentaris en previsió de caigudes per a la realització d'estructures, tancaments, cobertes, i altres treballs en alçada	1
HX11X004	u	Barana definitiva, prevista en projecte, per a protecció de caigudes a diferent nivell	1
HX11X005	u	Escala modular d'estructura porticada, per accedir a cotes de diferent nivell, superiors a 7 m amb sistema de seguretat integrat	1

SISTEMES DE PROTECCIÓ COL·LECTIVA

Codi	UA	Descripció	Riscos
H1510001	m2	Protecció horitzontal sota l'encofrat de sostres amb xarxa de fil trenat de poliamida no regenerada, de tenacitat alta, de 4 mm de diàmetre i 80x80 mm de pas de malla, amb corda perimetral de poliamida de 12 mm de diàmetre nuada a la xarxa, unida a l'estructura de sotaponts de l'encofrat mitjançant ganxos metàl·lics cada metre, amb el desmuntatge inclòs	1
H151A1K1	m2	Protecció col·lectiva horitzontal d'obertures amb xarxa per a proteccions superficials contra caigudes, de fil trenat de poliamida no regenerada, de tenacitat alta, de 4 mm de diàmetre, 80x80 mm de pas de malla, corda perimetral de poliamida de 12 mm de diàmetre nuada a la xarxa, fixada amb fleix i tacs d'expansió i amb el desmuntatge inclòs	1
H15275A1	m	Plataforma d'1 m d'amplària, amb base i sòcol de planxa d'acer gofrada, reforços d'angulars, travessers de perfils d'acer IPN 100 i baranes metàl·liques d'1 m d'alçària amb travessers superior i intermedi i amb desmuntatge inclòs	1
H1534001	u	Peça de plàstic en forma de bolet, de color vermell, per a protecció dels extrems de les armadures per a qualsevol diàmetre, amb desmuntatge inclòs	1 /2 /6
HBBAA005	u	Senyal de prohibició, normalitzada amb pictograma negre sobre fons blanc, de forma circular amb cantells i banda transversal descendent d'esquerra a dreta a 45°, en color vermell, diàmetre 29 cm, amb cartell explicatiu rectangular, per ser vista fins 12 m, fixada i amb el desmuntatge inclòs	1 /2 /4 /6 /9 /10 /11 /13 /14 /16 /18 /25
HBBAB115	u	Senyal de obligació, normalitzada amb pictograma blanc sobre fons blau, de forma circular amb cantells en color blanc, diàmetre 29 cm, amb cartell explicatiu rectangular, per ser vista fins 12 m, fixada i amb el desmuntatge inclòs	1 /2 /4 /6 /9 /10 /11 /13 /14 /16 /18 /25
HBBAF004	u	Senyal d'advertència, normalitzada amb pictograma negre sobre fons groc, de forma triangular amb el cantell negre, costat major 41 cm, amb cartell explicatiu rectangular, per ser vista fins 12 m de distància, fixada i amb el desmuntatge inclòs	1 /2 /4 /6 /9 /10 /11 /13 /14 /16 /18 /25
HDS11411	m	Baixant de runes de tub de PVC, de 40 cm de diàmetre, amb boques de descàrrega, brides i acoblament, col·locat i amb el desmuntatge inclòs	10

MESURES PREVENTIVES

Codi	Descripció	Riscos
I0000002	Planificar els treballs per a mantenir el màxim de temps possible les proteccions	1
I0000003	Itineraris preestablerts i balissats per al personal	1
I0000004	Revisió i manteniment periòdic de SPC	1
I0000005	Integrar la seguretat al disseny arquitectònic	1
I0000006	Disseny i estudi de les mesures preventives en fase de projecte	1
I0000007	Adoptar les mesures preventives necessàries per al manteniment correcte posterior	1
I0000008	Personal qualificat per a treballs en alçada	1
I0000010	Executar les escales a la vegada que el sostre de la planta a la que doni accés	1
I0000013	Ordre i neteja	1 /2 /6
I0000014	Preparació i manteniment de les superfícies de treball	2 /6
I0000015	Organització de les zones de pas i emmagatzematge	2 /6
I0000020	No realitzar treballs a la mateixa vertical	3 /4
I0000022	Condena de la planta inferior en que s'ha de formigonar	3
I0000025	Planificació d'àrees i llocs de treball	3 /4
I0000026	Planificació de recorreguts i maniobres per a màquines i camions	4
I0000028	Impedir l'accés de personal dins del radi d'acció de càrregues suspeses	4
I0000029	No balancejar les càrregues suspeses	4
I0000030	Suspendre i aixecar les càrregues dins de l'envolcall o fleixos originals	4
I0000038	Substituir lo manual per lo mecànic	9
I0000039	Planificació de compra i programa de manteniment d'eines	9
I0000040	Formació de l'operari en l'ús i manteniment d'eines	9
I0000041	Substituir la fabricació a obra per la prefabricació a taller	9
I0000042	Evitar processos de manipulació de materials a obra	9
I0000044	Evitar processos de tallat de materials a l'obra	10
I0000045	Formació	9 /10 /11 /13 /18
I0000046	Evitar processos d'ajust en obra	10
I0000047	Planificació i procediments per a la càrrega i descàrrega de materials	11
I0000048	No treballar al costat de paraments acabats de fer (< 48 h)	11
I0000050	No treballar ni estar al radi d'acció de les càrregues suspesses	11
I0000060	Suspensió de les feines en condicions extremes	14
I0000061	Rotació dels llocs de treball	14
I0000062	Planificar els treballs per a realitzar-los en zones protegides	14
I0000068	Elecció i manteniment de les eines elèctriques	16
I0000069	Formació i habilitació específica per a cada eina	16
I0000070	Compliment del REBT pel que fa a equips de protecció	16
I0000071	Revisió de la posta a terra	16
I0000072	Realitzar els treballs sobre superfícies seques	16
I0000073	Disposar de quadres elèctrics secundaris	16
I0000103	Planificació de les àrees de treball	25

I0000104	Accessos i circulació independents per a personal i maquinària	25
I0000106	El personal no ha de descansar al costat de màquines aturades	25
I0000107	Limitació de la velocitat dels vehicles	25
I0000149	Realitzar treballs formigonament pilars amb plataforma amb proteccions reglamentaries	1
I0000150	No utilitzar escales de ma per formigonar pilars. Utilitzar plataformes de treball estables.	1
I0000152	Utilitzar mitjans mecànics(grues, transpalets, plataformes elevadores) per manipular càrregues	4
I0000154	Verificar nivell lumínic mínim (250 lux) a itineraris i llocs de treball	1 /2 /6 /9 /25
I0000155	Controlar la temperatura i velocitat del vent als llocs de treball	14
I0000159	Per manipular càrregues llargues amb grua, utilitzar biga de repartiment	4 /11
I0000160	Traslladar materials amb la grua dins d'una caixa o sarcòfeg	4 /11
I0000161	Verificar que les connexions de les màquines es facin amb endolls reglamentaris	16

G10 INSTAL.LACIONS DE DRENATGE, D'EVACUACIÓ I CANALITZACIONS

G10.G02 ELEMENTS SOTERRATS (CLAVEGUERONS, POUS, DRENATGES)

XARXA HORITZONTAL D'EVACUACIÓ SOTERRADA, DE POUS DE REGISTRE, DRENATGES I DESGUASSOS, DE MATERIAL PREFABRICAT

Avaluació de riscos

Id	Risc	P	G	A
1	CAIGUDA DE PERSONES A DIFERENT NIVELL **Situació:** CAIGUDES EN RASES I POUS	2	3	4
2	CAIGUDA DE PERSONES AL MATEIX NIVELL **Situació:** IRREGULARITAT DE LA ZONA DE TREBALL	2	1	2
3	CAIGUDA D'OBJECTES PER DESPLOM, ESFONDRAMENT O ENSORRAMENT **Situació:** CAIGUDA DE TERRA PROPERA A LA RASA O POU INESTABILITAT DEL TALÚS	2	3	4
4	CAIGUDA D'OBJECTES PER MANIPULACIÓ O DE MATERIALS TRANSPORTATS **Situació:** MANUTENCIÓ I COL·LOCACIÓ DE MATERIALS EN OBRA	2	2	3
6	TREPITJADES SOBRE OBJECTES **Situació:** APLECS DE MATERIAL IRREGULARITAT DE LA ZONA DE TREBALL	1	1	1
10	PROJECCIÓ DE FRAGMENTS O PARTÍCULES **Situació:** TREBALLS DE COL·LOCACIÓ Y AJUST DE MATERIALS	1	2	2
11	ATRAPAMENT PER O ENTRE OBJECTES **Situació:** TREBALLS DE COL·LOCACIÓ I AJUST DE MATERIALS	2	2	3
13	SOBREESFORÇOS **Situació:** MANIPULACIÓ DE MATERIALS PESATS	2	2	3
14	EXPOSICIÓ A CONDICIONS AMBIENTALS EXTREMES **Situació:** TREBALLS A L'EXTERIOR	2	2	3
15	CONTACTES TÈRMICS **Situació:** CONTACTES DIRECTES I INDIRECTES EXISTENCIA D'INSTAL·LACIONS SOTERRADES	1	2	2
17	INHALACIÓ O INGESTIÓ DE SUBSTANCIES NOCIVES **Situació:** POLS, GASOS DESPRESOS DE PROCESSOS DE COL·LOCACIÓ	1	2	2
18	CONTACTES AMB SUBSTANCIES NOCIVES (CÀUSTIQUES, CORROSIVES, IRRITANTS O AL·LERGÈNIQUES) **Situació:** CONTACTES AMB COLES, CIMENT	1	2	2
24	ACCIDENTS CAUSATS PER ÉSSERS VIUS **Situació:** MÚRIDS	1	2	2
25	ATROPELLAMENTS O COPS AMB VEHICLES **Situació:** VEHICLEOS PROPIS I ALIENS DE L'OBRA	2	3	4

P: Probabilitat (1,2,3) / G: Gravetat (1,2,3) / A: Avaluació (1,2,3,4,5)

EQUIPS PROTECCIÓ INDIVIDUAL

Codi	UA	Descripció	Riscos
H1411111	u	Casc de seguretat per a ús normal, contra cops, de polietilè amb un pes màxim de 400 g, homologat segons UNE-EN 812	1 /2 /3 /4 /6 /10 /11 /14 /15 /18 /24 /25
H1421110	u	Ulleres de seguretat antiimpactes estàndard, amb muntura universal, amb visor transparent i tractament contra l'entelament, homologades segons UNE-EN 167 i UNE-EN 168	10 /14 /18
H1431101	u	Protector auditiu de tap d'escuma, homologat segons UNE-EN 352-2 i UNE-EN 458	14
H1432012	u	Protector auditiu d'auricular, acoblat al cap amb arnès i orelleres antisoroll, homologat segons UNE-EN 352-1 i UNE-EN 458	14 /25
H1445003	u	Mascareta de protecció respiratòria, homologada segons UNE-EN 140	17
H1459630	u	Parella de guants per a soldador, amb palmell de pell, folre interior de cotó, i	15

		màniga llarga de serratge folrada de dril fort, homologats segons UNE-EN 407 i UNE-EN 420	
H1465275	u	Parella de botes baixes de seguretat industrial per a treballs de construcció en general, resistents a la humitat, de pell rectificada, amb turmellera encoixinada, amb puntera metàl·lica, sola antilliscant, falca amortidora d'impactes al taló i sense plantilla metàl·lica, homologades segons UNE-EN ISO 20344, UNE-EN ISO 20345, UNE-EN ISO 20346 i UNE-EN ISO 20347	1 /2 /3 /4 /6 /10 /11 /14 /15 /18 /24 /25
H1485800	u	Armilla reflectant amb tires reflectants a la cintura, al pit i a l'esquena, homologada segons UNE-EN 471	11 /25

SISTEMES DE PROTECCIÓ COL·LECTIVA

Codi	UA	Descripció	Riscos
HBBAA005	u	Senyal de prohibició, normalitzada amb pictograma negre sobre fons blanc, de forma circular amb cantells i banda transversal descendent d'esquerra a dreta a 45°, en color vermell, diàmetre 29 cm, amb cartell explicatiu rectangular, per ser vista fins 12 m, fixada i amb el desmuntatge inclòs	1 /2 /3 /4 /6 /10 /11 /13 /14 /15 /17 /18 /24 /25
HBBAB115	u	Senyal de obligació, normalitzada amb pictograma blanc sobre fons blau, de forma circular amb cantells en color blanc, diàmetre 29 cm, amb cartell explicatiu rectangular, per ser vista fins 12 m, fixada i amb el desmuntatge inclòs	1 /2 /3 /4 /6 /10 /11 /13 /14 /15 /17 /18 /24 /25
HBBAF004	u	Senyal d'advertència, normalitzada amb pictograma negre sobre fons groc, de forma triangular amb el cantell negre, costat major 41 cm, amb cartell explicatiu rectangular, per ser vista fins 12 m de distància, fixada i amb el desmuntatge inclòs	1 /2 /3 /4 /6 /10 /11 /13 /14 /15 /17 /18 /24 /25

MESURES PREVENTIVES

Codi	Descripció	Riscos
I0000002	Planificar els treballs per a mantenir el màxim de temps possible les proteccions	1
I0000003	Itineraris preestablerts i balissats per al personal	1
I0000004	Revisió i manteniment periòdic de SPC	1 /3 /25
I0000012	Assegurar les escales de mà	1
I0000013	Ordre i neteja	2 /6
I0000014	Preparació i manteniment de les superfícies de treball	1 /2 /6
I0000015	Organització de les zones de pas i emmagatzematge	2 /6
I0000020	No realitzar treballs a la mateixa vertical	3
I0000023	Solicitar dades de les característiques físiques de les terres	3
I0000024	Execució de treballs a l'interior de rases per equips	3
I0000025	Planificació d'àrees i llocs de treball	1 /3 /4 /25
I0000026	Planificació de recorreguts i maniobres per a màquines i camions	3 /4
I0000027	Elecció dels mitjans auxiliars de manteniment	4
I0000028	Impedir l'accés de personal dins del radi d'acció de càrregues suspeses	4
I0000029	No balancejar les càrregues suspeses	4
I0000030	Suspendre i aixecar les càrregues dins de l'envolcall o fleixos originals	4
I0000031	Per a la manipulació de materials voluminosos i/o pesats, solicitar un procediment de treball específic	4
I0000038	Substituir lo manual per lo mecànic	10
I0000039	Planificació de compra i programa de manteniment d'eines	11
I0000044	Evitar processos de tallat de materials a l'obra	10
I0000045	Formació	10 /11 /13 /18
I0000046	Evitar processos d'ajust en obra	10
I0000047	Planificació i procediments per a la càrrega i descàrrega de materials	11
I0000048	No treballar al costat de paraments acabats de fer (< 48 h)	11
I0000050	No treballar ni estar al radi d'acció de les càrregues suspesses	11
I0000056	Paletització i eines ergonòmiques	13
I0000059	Elecció dels materials alternatius poc pessats i més manegables	13
I0000060	Suspensió de les feines en condicions extremes	14
I0000061	Rotació dels llocs de treball	14
I0000062	Planificar els treballs per a realitzar-los en zones protegides	14
I0000067	No treballar al costat de linies elèctriques amb cables nusos	15
I0000068	Elecció i manteniment de les eines elèctriques	15
I0000069	Formació i habilitació específica per a cada eina	15
I0000070	Compliment del REBT pel que fa a equips de protecció	15
I0000071	Revisió de la posta a terra	15
I0000072	Realitzar els treballs sobre superfícies seques	15
I0000073	Disposar de quadres elèctrics secundaris	15
I0000074	Reg de les zones de treball	17
I0000078	Evitar processos de divissió de material en sec	17
I0000079	Realitzar els treballs a l´aire lliure, sempre a sotavent	17
I0000085	Ventilació de les zones de treball	17
I0000086	Substituir els materials amb substàncies nocives	17 /18

I0000101	Actuacions prèvies de desparasitació i desratització	24
I0000102	Procediment previ de treball	24
I0000103	Planificació de les àrees de treball	25
I0000104	Accessos i circulació independents per a personal i maquinària	25
I0000105	Anivellar la maquinària per a la realització de l'activitat	25
I0000106	El personal no ha de descansar al costat de màquines aturades	25
I0000107	Limitació de la velocitat dels vehicles	25
I0000152	Utilitzar mitjans mecànics(grues, transpalets, plataformes elevadores) per manipular càrregues	3 /4 /11 /13
I0000154	Verificar nivell lumínic mínim (250 lux) a itineraris i llocs de treball	1 /2 /6
I0000155	Controlar la temperatura i velocitat del vent als llocs de treball	14

G12 CANONADES PER A GASOS I FLUIDS

G12.G02 TUBS MUNTATS SOTERRATS

TUBS MUNTATS SOTERRATS

Avaluació de riscos

Id	Risc	P	G	A
1	CAIGUDA DE PERSONES A DIFERENT NIVELL **Situació:** TREBALLS EN ALÇADA PER AL MUNTATGE D'EQUIPS (DIPÒSITS, VÀLVULES,ETC.)	2	3	4
2	CAIGUDA DE PERSONES AL MATEIX NIVELL **Situació:** ITINERARIS A OBRA	1	2	2
4	CAIGUDA D'OBJECTES PER MANIPULACIÓ O DE MATERIALS TRANSPORTATS **Situació:** EN MANIPULACIÓ D'EINES I EQUIPS EN MANTENIMENT DE MATERIAL	1	3	3
6	TREPITJADES SOBRE OBJECTES **Situació:** EN ITINERARIS A OBRA	2	1	2
9	COPS AMB OBJECTES O EINES (TALLS) **Situació:** AMB EQUIPS, EINES EN PROCÉS DE DESEMBALATGE D'EQUIPS	3	1	3
10	PROJECCIÓ DE FRAGMENTS O PARTÍCULES **Situació:** PER ÚS DE RADIAL EN PROVES DE CÀRREGA FIXACIÓ DE SUPORTS SOLDADURA ELÈCTRICA	3	2	4
11	ATRAPAMENT PER O ENTRE OBJECTES **Situació:** EN LA COL.LOCACIÓ D'ELEMENTS PESANTS (DIPÒSITS)	2	2	3
12	ATRAPAMENT PER BOLCADA DE MÀQUINES, TRACTORS O VEHICLES **Situació:** EN LA COL.LOCACIÓ D'ELEMENTS PESANTS (DIPÒSITS)	1	3	3
13	SOBREESFORÇOS **Situació:** MANIPULACIÓ MANUAL	2	2	3
14	EXPOSICIÓ A CONDICIONS AMBIENTALS EXTREMES **Situació:** TREBALLS A L'EXTERIOR I LLOCS TANCATS	2	2	3
15	CONTACTES TÈRMICS **Situació:** SOLDADURES PER FLUIDS CALENTS	2	2	3
16	EXPOSICIÓ A CONTACTES ELÈCTRICS **Situació:** CONTACTES DIRECTES I INDIRECTES	1	3	3
17	INHALACIÓ O INGESTIÓ DE SUBSTANCIES NOCIVES **Situació:** GASOS SOLDADURA ELÈCTRICA FUITES DE GAS GASOS DE COMBUSTIÓ EN LLOCS TANCATS ÚS DE RADIAL	2	3	4
18	CONTACTES AMB SUBSTANCIES NOCIVES (CÀUSTIQUES, CORROSIVES, IRRITANTS O AL·LERGÈNIQUES) **Situació:** COLES LIQUATS DEL PETROLI	1	2	2
20	EXPLOSIONS **Situació:** OXIACETILÈ PROVES DE CÀRREGA RECIPIENTS A PRESSIÓ	1	3	3
21	INCENDIS **Situació:** PER ESPURNES EN PROCÉS DE PURGATGE PER FUITES DE COMBUSTIBLE PER TREBALLS DE SOLDADURA	1	3	3

P: Probabilitat (1,2,3) / G: Gravetat (1,2,3) / A: Avaluació (1,2,3,4,5)

EQUIPS PROTECCIÓ INDIVIDUAL

Codi	UA	Descripció	Riscos
H1411111	u	Casc de seguretat per a ús normal, contra cops, de polietilè amb un pes màxim de 400 g, homologat segons UNE-EN 812	1 /2 /4 /6 /9 /10 /11 /12 /14 /15 /16 /18 /20 /21
H1421110	u	Ulleres de seguretat antiimpactes estàndard, amb muntura universal, amb visor transparent i tractament contra l'entelament, homologades segons UNE-EN 167 i UNE-EN 168	10 /14 /18
H142AC60	u	Pantalla facial per a soldadura elèctrica, amb marc abatible de mà i suport de polièster reforçat amb fibra de vidre vulcanitzada d'1,35 mm de gruix, amb visor inactínic semifosc amb protecció DIN 12, homologada segons UNE-EN 175	10
H1431101	u	Protector auditiu de tap d'escuma, homologat segons UNE-EN 352-2 i UNE-EN 458	14
H1445003	u	Mascareta de protecció respiratòria, homologada segons UNE-EN 140	17
H1459630	u	Parella de guants per a soldador, amb palmell de pell, folre interior de cotó, i mànega llarga de serratge folrada de dril fort, homologats segons UNE-EN 407 i UNE-EN 420	10 /15
H1465275	u	Parella de botes baixes de seguretat industrial per a treballs de construcció en general, resistents a la humitat, de pell rectificada, amb turmellera encoixinada, amb puntera metàl·lica, sola antilliscant, falca amortidora d'impactes al taló i sense plantilla metàl·lica, homologades segons UNE-EN ISO 20344, UNE-EN ISO 20345, UNE-EN ISO 20346 i UNE-EN ISO 20347	1 /2 /4 /6 /9 /10 /11 /14 /15 /18 /20 /21
H147K602	u	Sistema de subjecció en posició de treball i prevenció de pèrdua d'equilibri, compost d'una banda de cintura, sivella, recolzament dorsal, elements d'enganxament, connector, element d'amarrament del sistema d'ajust de longitud, homologat segons UNE EN 358, UNE EN 362, UNE EN 354 i UNE EN 364	1
H1485800	u	Armilla reflectant amb tires reflectants a la cintura, al pit i a l'esquena, homologada segons UNE-EN 471	4 /11 /12

SISTEMES DE PROTECCIÓ COL·LECTIVA

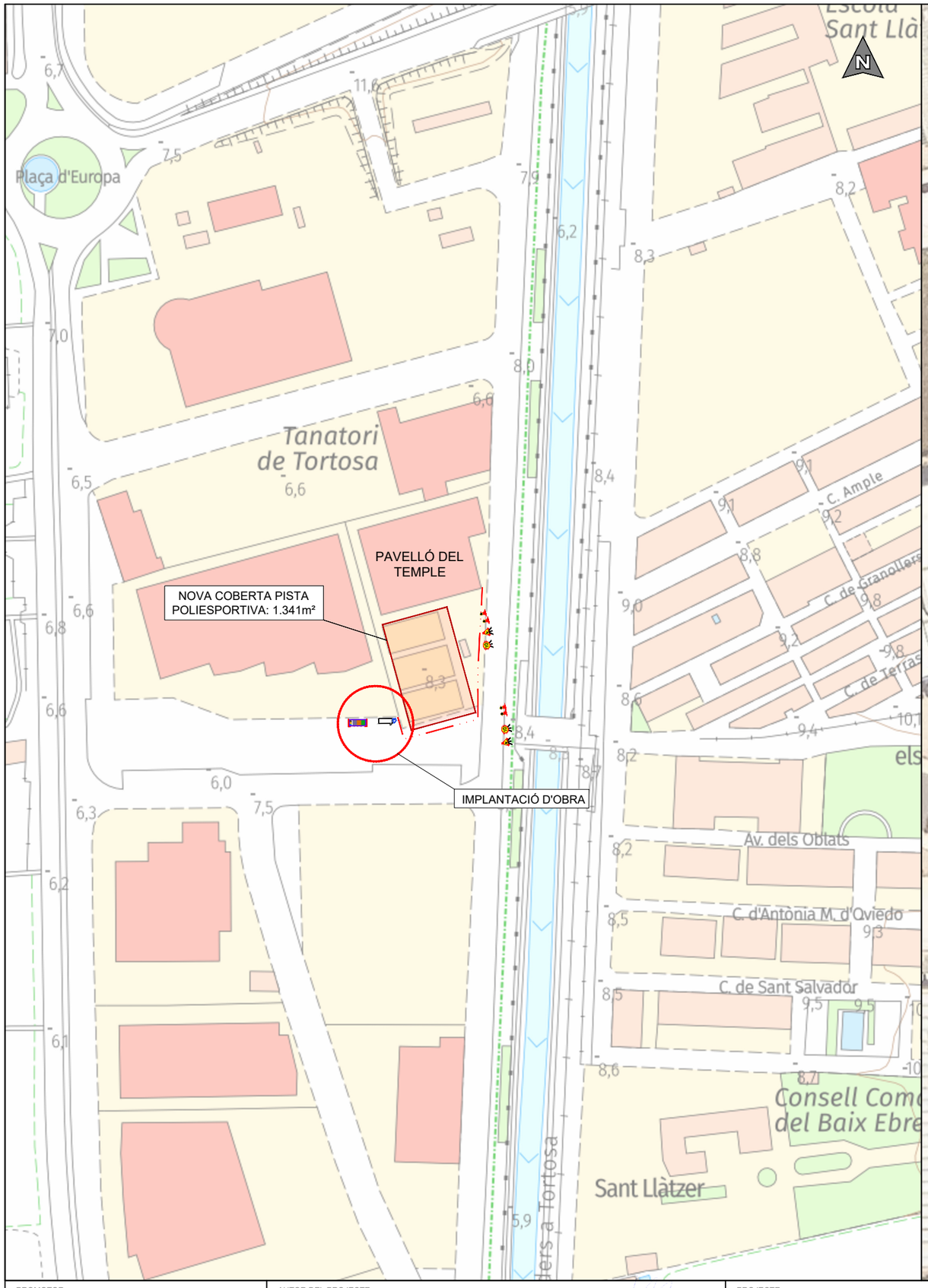
Codi	UA	Descripció	Riscos
H151A1K1	m2	Protecció col·lectiva horitzontal d'obertures amb xarxa per a proteccions superficials contra caigudes, de fil trenat de poliamida no regenerada, de tenacitat alta, de 4 mm de diàmetre, 80x80 mm de pas de malla, corda perimetral de poliamida de 12 mm de diàmetre nuada a la xarxa, fixada amb fleix i tacs d'expansió i amb el desmuntatge inclòs	1
H152J105	m	Cable fiador per al cinturó de seguretat, fixat en ancoratges de servei i amb el desmuntatge inclòs	1
H153A9F1	u	Topall per a descàrrega de camions en excavacions, de 4 m d'amplada amb tauló de fusta i perfils IPN 100 clavat al terreny i amb el desmuntatge inclòs	12
HBBAA005	u	Senyal de prohibició, normalitzada amb pictograma negre sobre fons blanc, de forma circular amb cantells i banda transversal descendent d'esquerra a dreta a 45°, en color vermell, diàmetre 29 cm, amb cartell explicatiu rectangular, per ser vista fins 12 m, fixada i amb el desmuntatge inclòs	1 /2 /4 /6 /9 /10 /11 /12 /13 /14 /15 /16 /17 /18 /20 /21
HBBAB115	u	Senyal de obligació, normalitzada amb pictograma blanc sobre fons blau, de forma circular amb cantells en color blanc, diàmetre 29 cm, amb cartell explicatiu rectangular, per ser vista fins 12 m, fixada i amb el desmuntatge inclòs	1 /2 /4 /6 /9 /10 /11 /12 /13 /14 /15 /16 /17 /18 /20 /21
HBBAF004	u	Senyal d'advertència, normalitzada amb pictograma negre sobre fons groc, de forma triangular amb el cantell negre, costat major 41 cm, amb cartell explicatiu rectangular, per ser vista fins 12 m de distància, fixada i amb el desmuntatge inclòs	1 /2 /4 /6 /9 /10 /11 /12 /13 /14 /15 /16 /17 /18 /20 /21
HM31161J	u	Extintor de pols seca, de 6 kg de càrrega, amb pressió incorporada, pintat, amb suport a la paret i amb el desmuntatge inclòs	10 /20 /21

MESURES PREVENTIVES

Codi	Descripció	Riscos
I0000003	Itineraris preestablerts i balissats per al personal	1
I0000004	Revisió i manteniment periòdic de SPC	1
I0000006	Disseny i estudi de les mesures preventives en fase de projecte	1
I0000007	Adoptar les mesures preventives necessàries per al manteniment correcte posterior	1
I0000012	Assegurar les escales de mà	1
I0000013	Ordre i neteja	2 /6 /17
I0000014	Preparació i manteniment de les superfícies de treball	2 /6
I0000015	Organització de les zones de pas i emmagatzematge	2 /6
I0000020	No realitzar treballs a la mateixa vertical	4
I0000025	Planificació d'àrees i llocs de treball	4

I0000026	Planificació de recorreguts i maniobres per a màquines i camions	4
I0000027	Elecció dels mitjans auxiliars de manteniment	4
I0000028	Impedir l'accés de personal dins del radi d'acció de càrregues suspeses	4
I0000029	No balancejar les càrregues suspeses	4
I0000030	Suspendre i aixecar les càrregues dins de l'envolcall o fleixos originals	4 /11
I0000031	Per a la manipulació de materials voluminosos i/o pesats, solicitar un procediment de treball específic	4
I0000033	Solicitar habilitació professional del personal encarregat del manteniment de l'obra	4
I0000038	Substituir lo manual per lo mecànic	9
I0000039	Planificació de compra i programa de manteniment d'eines	9 /11
I0000040	Formació de l'operari en l'ús i manteniment d'eines	9
I0000042	Evitar processos de manipulació de materials a obra	9
I0000044	Evitar processos de tallat de materials a l'obra	10
I0000045	Formació	10 /12 /13 /18 /21
I0000046	Evitar processos d'ajust en obra	10
I0000047	Planificació i procediments per a la càrrega i descàrrega de materials	11
I0000050	No treballar ni estar al radi d'acció de les càrregues suspesses	11
I0000051	Adequació dels recorreguts de la maquinària	12
I0000053	Procediment d'utilització de la maquinària	12
I0000054	Ús de recolzaments hidràulics	12
I0000055	Elecció dels equips de manteniment	13
I0000056	Paletització i eines ergonòmiques	13
I0000058	Adaptar la feina a les característiques individuals de la persona que la realitza	13
I0000059	Elecció dels materials alternatius poc pessats i més manegables	13
I0000060	Suspensió de les feines en condicions extremes	14
I0000061	Rotació dels llocs de treball	14 /17
I0000062	Planificar els treballs per a realitzar-los en zones protegides	14
I0000065	Evitar procés de soldadura a l'obra	15
I0000067	No treballar al costat de linies elèctriques amb cables nusos	16
I0000068	Elecció i manteniment de les eines elèctriques	16
I0000069	Formació i habilitació específica per a cada eina	16
I0000070	Compliment del REBT pel que fa a equips de protecció	16
I0000071	Revisió de la posta a terra	16
I0000072	Realitzar els treballs sobre superfícies seques	16
I0000073	Disposar de quadres elèctrics secundaris	16
I0000078	Evitar processos de divissió de material en sec	17
I0000079	Realitzar els treballs a l´aire lliure, sempre a sotavent	17
I0000080	Elecció dels materials al disseny del projecte	17
I0000082	Aïllament del procés	17
I0000083	Dispositius d'alarma	17
I0000085	Ventilació de les zones de treball	17
I0000086	Substituir els materials amb substàncies nocives	17 /18
I0000091	No soldar sobre contenidors de materials inflamables o explosius (pintures, dissolvents, etc)	20
I0000092	Utilitzar aigua sabonosa per a detectar fuites de gas	20
I0000093	Evitar unions de mangueres amb filferros	20
I0000094	Revisió periòdica dels equips de treball	20
I0000095	Impedir el contacte de l'acetilè amb el coure	20
I0000096	No fumar	20
I0000099	Establir una zona de protecció de radi 10 m, en treballs de soldadura i tall amb serra radial	20 /21
I0000152	Utilitzar mitjans mecànics(grues, transpalets, plataformes elevadores) per manipular càrregues	4 /11 /13
I0000154	Verificar nivell lumínic mínim (250 lux) a itineraris i llocs de treball	2 /6 /9
I0000155	Controlar la temperatura i velocitat del vent als llocs de treball	14
I0000156	Detecció xarxes instal·lacions encastades o soterrades	16
I0000161	Verificar que les connexions de les màquines es facin amb endolls reglamentaris	16
I0000165	En manipular sistemes elèctrics, connexions, etc, verificar que les línies no estan en tensió	21

PLÀNOLS



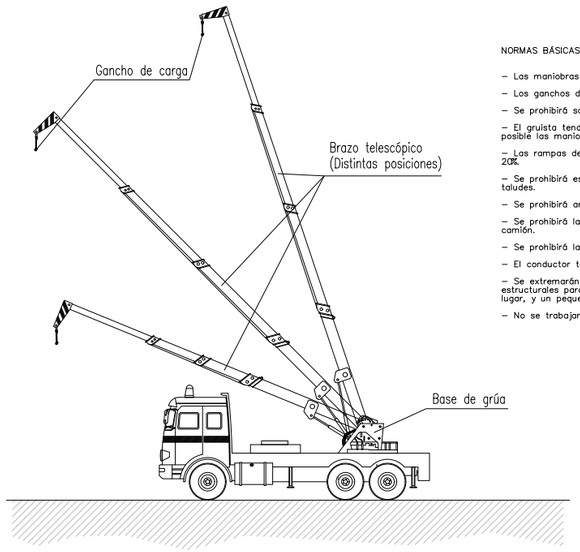


PROMOTOR Ajuntament de Tortosa	AUTOR DEL PROJECTE ALTER|ENGINYERIA ÀNGEL MULET BAUBÍ ENGINYER DE CAMINS, CANALS I PORTS COL·LEGIAT NÚM.: 31.205	PROJECTE PROJECTE EXECUTIU D'INSTAL·LACIÓ DE COBERTA A LES PISTES POLIESPORTIVES DEL PAVELLÓ DEL TEMPLE	TÍTOL DEL PLÀNOL ANNEX 07 - ESTUDI BÀSIC DE SEGURETAT I SALUT IMPLANTACIÓ D'OBRA	PLÀNOL NÚM. A06 1de7	ESCALA E = 1/2500 E = 1/1000 DATA FEBRER 2025



PROMOTOR Ajuntament de Tortosa	AUTOR DEL PROJECTE ALTERIENGINYERIA ÀNGEL MULET BAUBÍ ENGINYER DE CAMINS, CANALS I PORTS COL·LEGIAT NÚM.: 31.205	PROJECTE PROJECTE EXECUTIU D'INSTAL·LACIÓ DE COBERTA A LES PISTES POLIESPORTIVES DEL PAVELLÓ DEL TEMPLE	TÍTOL DEL PLÀNOL ANNEX 07 - ESTUDI BÀSIC DE SEGURETAT I SALUT IMPLANTACIÓ D'OBRA	PLÀNOL NÚM. A06 2de7	ESCALA E = 1/500 DATA FEBRER 2025

ELEMENTOS AUXILIARES Y MAQUINARIA
(Grúa hidráulica telescópica)



NORMAS BÁSICAS DE SEGURIDAD Y PROTECCIONES COLECTIVAS :

– Las maniobras en la grúa serán dirigidas por un especialista.

– Los ganchos de la grúa tendrán cerradura de seguridad.

– Se prohibirá sobrepasar la carga máxima admisible.

– El gruista tendrá en todo momento la carga suspendida a la vista. Si eso no es posible las maniobras serán dirigidas por un especialista.

– Las rampas de circulación no superarán en ningún caso una inclinación superior al 20%.

– Se prohibirá estacionar el camión a menos de 2 metros del borde superior de los taludes.

– Se prohibirá arrastrar cargas con el camión.

– Se prohibirá la permanencia de personas a distancias inferiores a los 5 metros del camión.

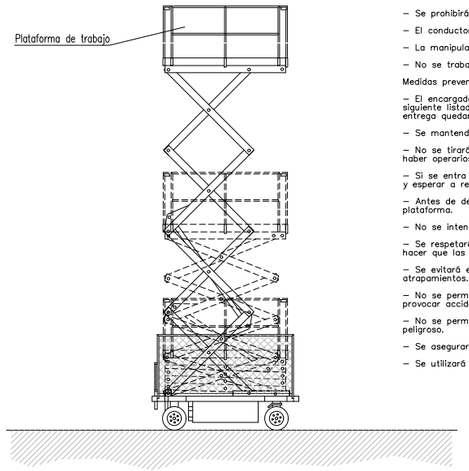
– Se prohibirá la permanencia de operarios bajo las cargas en suspensión.

– El conductor tendrá el certificado de capacitación correspondiente.

– Se extremarán las precauciones durante las maniobras de suspensión de objetos estructurales para su colocación en obra, ya que habrán operarios trabajando en el lugar, y un pequeño movimiento inesperado puede provocar graves accidentes.

– No se trabajará en ningún caso con vientos superiores a los 50 Km./h.

ELEMENTOS AUXILIARES Y MAQUINARIA
(Plataforma elevadora móvil de tijera)



NORMAS BÁSICAS DE SEGURIDAD Y PROTECCIONES COLECTIVAS :

– Se prohibirá sobrepasar la carga máxima admisible.

– El conductor tendrá el certificado de capacitación correspondiente.

– La manipuladora telescópica tendrá al día el libro de mantenimiento.

– No se trabajará en ningún caso con vientos superiores a los 50 Km./h.

Medidas preventivas a seguir por el conductor.

– El encargado de seguridad o el encargado de obra, entregará por escrito el siguiente listado de medidas preventivas al conductor del camión grúa. De esta entrega quedará constancia con la firma del conductor al pié de este escrito.

– Se mantendrá el vehículo alejado de terrenos inseguros.

– No se tirará marcha atrás sin la ayuda de un señalizador, detrás pueden haber operarios.

– Si se entra en contacto con una línea eléctrica, pedir auxilio con la bocina y esperar a recibir instrucciones, no tocar ninguna parte metálica del camión.

– Antes de desplazarse asegurarse de la inmovilización del brazo de la plataforma.

– No se intentará sobrepasar la carga máxima de la plataforma.

– Se respetará en todo momento las indicaciones adheridas a la máquina, y hacer que las respeten el resto de personal.

– Se evitará el contacto con el brazo telescópico en servicio, se pueden sufrir atrapamientos.

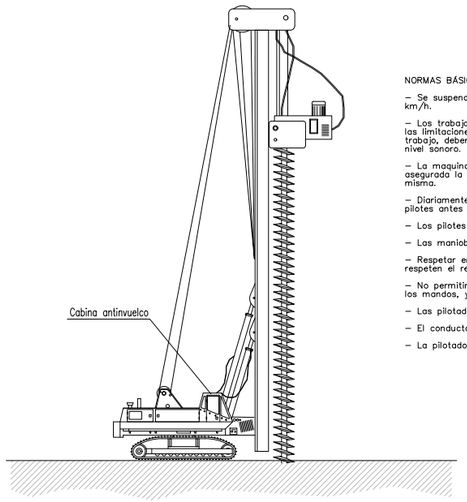
– No se permitirá que el resto de personal manipule los mandos, ya que pueden provocar accidentes.

– No se permitirá que se utilicen cables o soportes en mal estado, es muy peligroso.

– Se asegurará que todos los ganchos tengan pestillo de seguridad.

– Se utilizará siempre los elementos de seguridad indicados.

ELEMENTOS AUXILIARES Y MAQUINARIA
(Perforadora)



NORMAS BÁSICAS DE SEGURIDAD Y PROTECCIONES COLECTIVAS :

– Se suspenderán los trabajos cuando exista viento con una velocidad superior a 50 km/h.

– Los trabajadores sometidos a un nivel de ruido contínuo o de impacto, que supere las limitaciones establecidas por la Ordenanza General de Seguridad e Higiene en el trabajo, deberán estar provistos de tapones o auriculares de amortiguamiento del nivel sonoro.

– La maquinaria, cuando no esté en uso, debe mantenerse en posición tal que quede asegurada la imposibilidad de movimientos o caídas accidentales de elementos de la misma.

– Diariamente se revisará el estado de los dispositivos de manejo e hinca de los pilotes antes de comenzar los trabajos.

– Los pilotes se izarán suspendidos de forma que la carga sea estable y segura.

– Las maniobras de la pilotadora serán dirigidas por un especialista.

– Respetar en todo momento las indicaciones adheridas a la máquina, y hacer que las respeten el resto de personal.

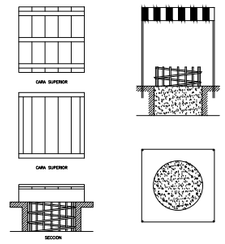
– No permitir que el resto de personal suba a la cabina de la pilotadora y maneje los mandos, ya que pueden provocar accidentes.

– Las pilotadoras cumplirán la normativa emanada de la Instrucción Técnica.

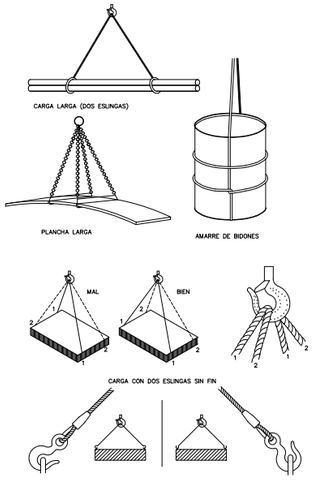
– El conductor tendrá el certificado de capacitación correspondiente.

– La pilotadora tendrá al dial libro de mantenimiento.

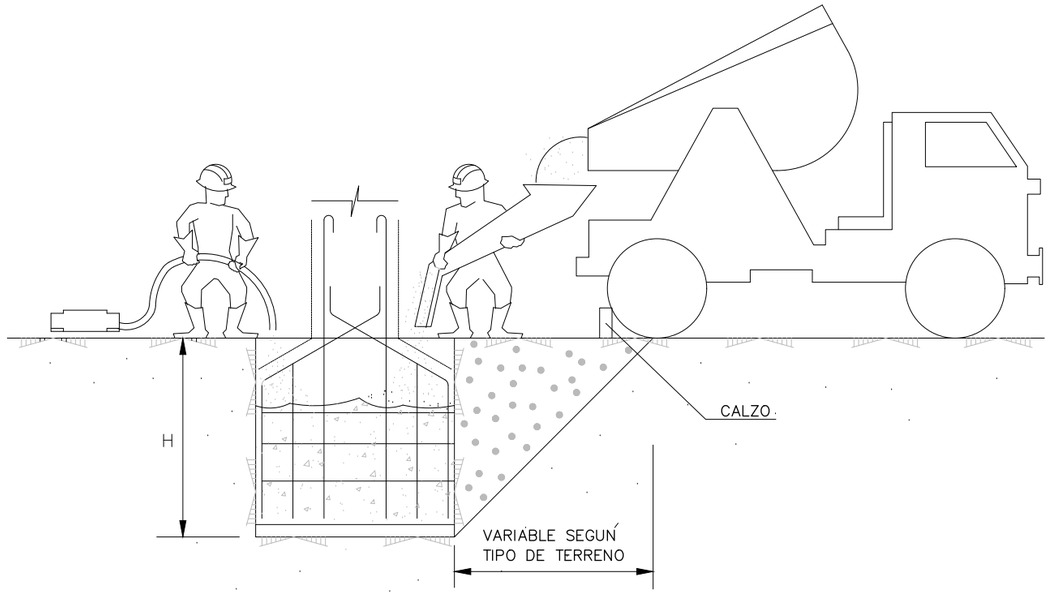
PROTECCION PARA PILOTES

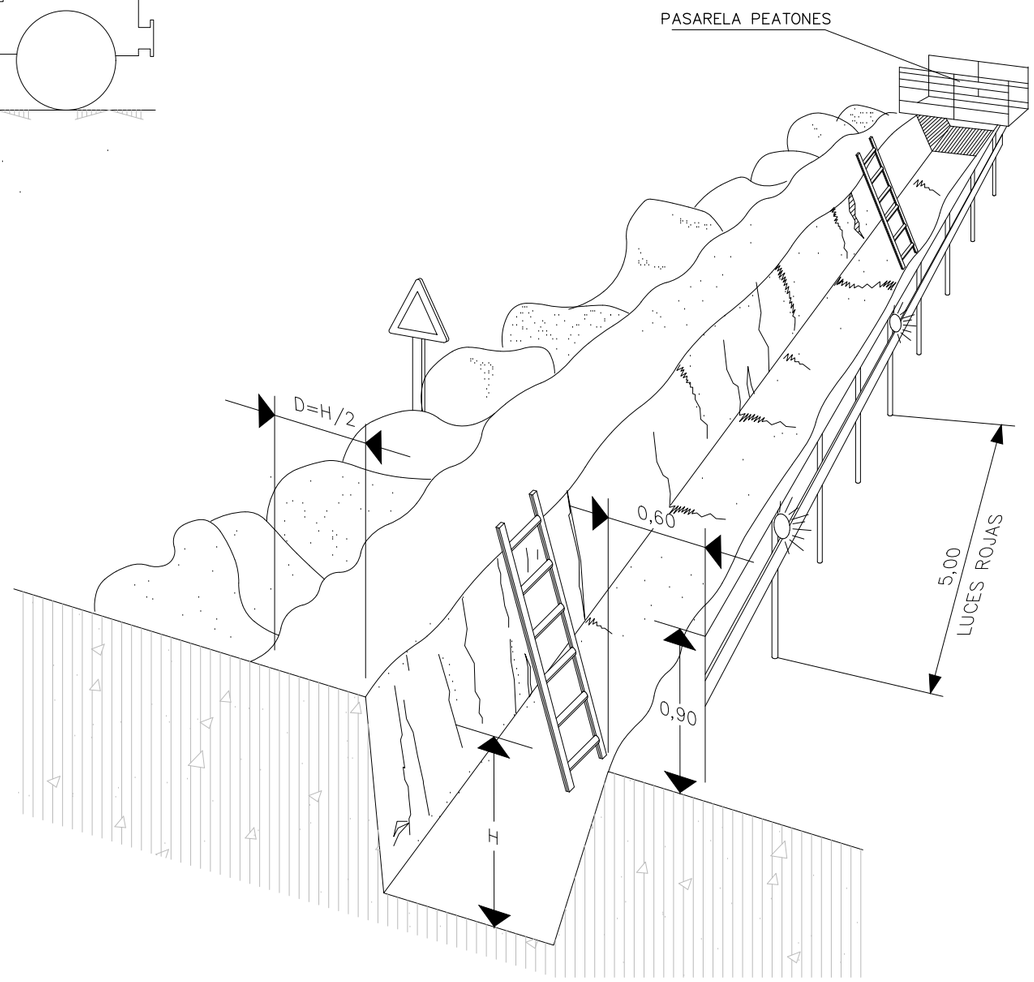


CARGAS CON ESLINGAS



PROMOTOR: Ajuntament de Tortosa	AUTOR DEL PROJECTE: ALTER|ENGINYERIA — ÀNGEL MULET BAUBÍ, ENGINYER DE CAMINS, CANALS I PORTS, COL·LEGIAT NÚM.: 31.205	PROJECTE: PROJECTE EXECUTIU D'INSTAL·LACIÓ DE COBERTA A LES PISTES POLIESPORTIVES DEL PAVELLÓ DEL TEMPLE	TÍTOL DEL PLÀNOL: ANNEX 07 - ESTUDI BÀSIC DE SEGURETAT I SALUT ELEVACIÓ DE CÀRREGUES I PERFORACIONS	PLÀNOL NÚM.: A06 3de7	ESCALA: E = S/E; DATA: FEBRER 2025





PROTECCION EN ZANJAS

PROMOTOR
Ajuntament de Tortosa

AUTOR DEL PROJECTE
ALTER|ENGINYERIA
ÀNGEL MULET BAUBÍ
ENGINYER DE CAMINS, CANALS I PORTS
COL·LEGIAT NÚM.: 31.205

PROJECTE
PROJECTE EXECUTIU D'INSTAL·LACIÓ DE COBERTA
A LES PISTES POLIESPORTIVES DEL PAVELLÓ DEL TEMPLE

TÍTOL DEL PLÀNOL
ANNEX 07 - ESTUDI BÀSIC DE SEGURETAT I SALUT
PROTECCIÓ DE RASES

PLÀNOL NÚM.
A06
4de7

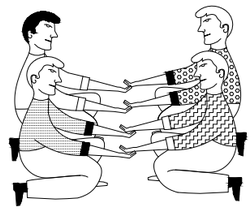
ESCALA
E = S/E

DATA
FEBRER 2025

PRIMERS AUXILIS (No traumatics)

PROCES	SIMPTOMES	GRAVETAT	NO FER	ES POT FER	
INDIGESTIONS	NAUSEAS–VOMITS COLICS–DIARREAS	POCA	NO DONAR RES	NO FER RES (Fer vomitar)	EN TOTS ELS CASOS REMITIR A S.S.
MAREJOS	ANGOIXA PERDUA CONEIXEMENT VERTIGEN	POCA O POT SER GREU	NO DONAR RES	ALLITAR CAP ABAIX AIRE FRESC DESCORDAR	
INTOXICACIONS	VERTIGENS–ABATIMENT NAUSEAS–VOMITS CALFRED–DELIRI	POT SER GREU	NO ALCOHOL NO DONAR RES	FER VOMITAR COBRIR AL LESIONAT	
INSOLACIO	MIGRANYES VERTIGENS NAUSEAS	PUEDE SER GRAVE	NO TAPAR DONAR SOLAMENT AIGUA	POSAR A L'OMBRA AIREJAR–DESCORDAR	
CRISI NERVIOSA	GESTICULA–GRIDA PLORA–PATALEA ES LLENÇA AL TERRA	NO GREU	NO ALCOHOL NO DONAR RES NO TRACTAR EN GRUP	AÏLLAR AL LESIONAT NO DEIXAR–SE IMPRESSIONAR	
EPILEPSIA	CAU SENSE CONEIXEMENT ES MOSSEGA LA LLENGUA ORINA	APARATOS NO ACOSTUMA A SER GREU	NO DONAR RES	APARTAR OBJECTES PROTEGIR EL CAP CUIDAR NO ES MOSSEGUI	
EMBRIAGUESA	EXCITACIO ACTUACIO ALOCADA OLOR A VI	NO GREU	NO DONAR RES	ACOMPANYAR A SERVEI MEDIC	

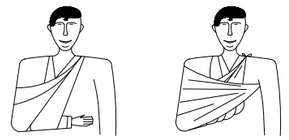
ABANS DEL TRASLLAT



POSICIO CORRECTA
PER A "RECOLLIR"
UN LESIONAT GREU

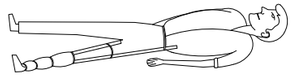
TRASLLAT

INMOVILIZACIO DE MEMBRES ABANS DEL TRASLLAT



MEMBRE SUPERIOR

MEMBRE INFERIOR



RECOMENACIONS BÀSIQUES
A TOTA ACCIÓ SOCORREDORA

FACILITAR RESPIRACIO i VENTILACIO
FOMENTAR AMBIENT DE SEGURETAT
FOMENTAR TRANQUILIYTAT i MESURA

ORGANITZAR ACTUACIO AMB CALMA
OBSERVAR CUIDADOSAMENT AL LESIONAT
ORGANITZAR TRASLLAT AMB EFICACIA

COMUNICAR AL SERVEI MEDIC
CONSIDERA NOUS POSSIBLES ACCIDENTS
CUIDAR A L'ACCIDENTAT SENSE ABANDONAR



EN CAS D' ACCIDENT ELECTRIC
"TALLAR FLUID ELECTRIC"

TENIR ELS EXTINTORS A PUNT



R E S U M

TIPUS D' ACCIDENT
- LLEUS (Molt frecuents)
- GREUS
- MORTALS
- CATASTROFES

(Poc frecuents)

ACCIO PREVISORA

MESURES PREVENTIVES DE SEGURITAT
BOTIQUIN–LLITERES–FLASSADES ETC.
A.T.S. SOCORRISTES–PERSONAL RESPONSABLE
CONEIXER CENTRES ASSISTENCIALS–TELEFONS

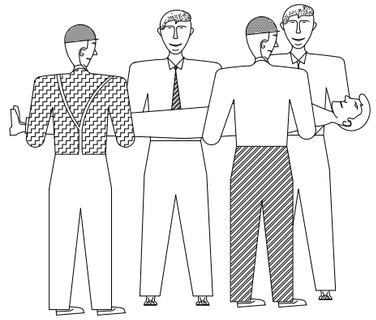
ACTUACIO LESIONS GREUS

NO DONAR RES
AFLUIXAR ROBES
NO MOVILITZAR
ABRIGAR
TRASLLAT RAPID A HOSPITAL

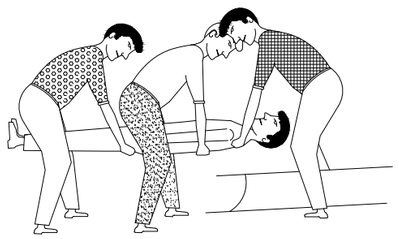
ACCIDENTS ELECTRICS

ABANS QUE RES
TANCAR PAS DE CORRENT
SI HI HA CABLES TRENCATS O SOLTS
APARTAR–LOS DEL LESIONAT
AMB UN OBJECTE DE FUSTA
SI SOLAMENT ES PRODUEIX LESIO LOCAL
TRACTAR COM CREMADA

TRASLLATS (Continuacio)



FORMA CORRECTA
D'AGAFAR
UN LESIONAT GREU



POSICION CORRECTA
DE COL.LOCAR UN
LESIONAT GREU
EN UNA LLITERA

PROMOTOR
Ajuntament de Tortosa

AUTOR DEL PROJECTE
ALTER|ENGINYERIA
ÀNGEL MULET BAUBÍ
ENGINYER DE CAMINS, CANALS I PORTS
COL·LEGIAT NÚM.: 31.205

PROJECTE
PROJECTE EXECUTIU D'INSTAL·LACIÓ DE COBERTA
A LES PISTES POLIESPORTIVES DEL PAVELLÓ DEL TEMPLE

TÍTOL DEL PLÀNOL
ANNEX 07 - ESTUDI BÀSIC DE SEGURETAT I SALUT
PRIMERS AUXILIS

PLÀNOL NÚM.
A06
5de7

ESCALA
E = S/E

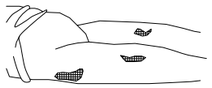
DATA
FEBRER 2025

CREMADES

PETITA CREMADA



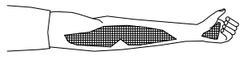
NO OBRIR BUTLLOFES
TAPAR AMB GASA
NO TOCAR
NO POSAR RES



TRASLLAT SENSE PRESA

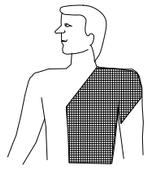
GRAN CREMAT

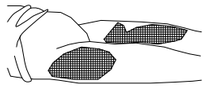
(EXTENSA)



NO TOCAR
NO POT BEURE
NO POSAR RES

DE POSA-GASA ESTERIL
TRASLLAT !! URGENT !!





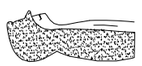
RESPIRACIO DIRIGIDA – BOCA A BOCA



NETEJAR CUIDADOSAMENT
EL INTERIOR DE LA BOCA

TREURE PROTESI DENTAL

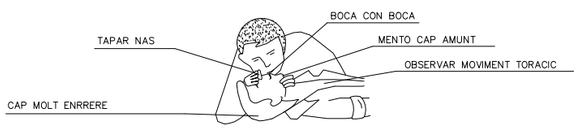
AFLUIXAR ROBES



FORÇAR L'HIPER EXTENSIO
(BARBETA CAP AMUNT) PER ACONSEGUIR
CONDUCTES OBERTS
TAPAR NAS



ADAPTAR RITME RESPIRATORI AL PROPI DEL QUE L'EXECUTA



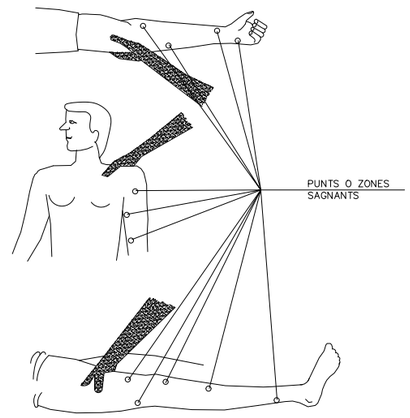
NO ABANDONAR LA TECNICA FINS ARRIBAR AL HOSPITAL

FERIDES SAGNANTS

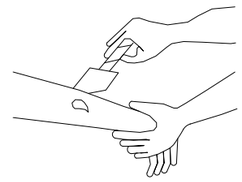
HEMORRAGIES

COMPRESIO ARTERIAL

LES MANS OMBREJADES EN FOSC
SON LES QUE PRESSIONEN I TALLEN L'HEMORRAGIA
EN ELS PUNTS I ZONES INDICADES

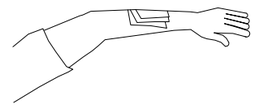


FERIDES



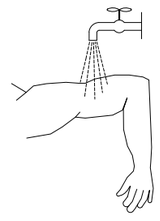
RENTAR AMB AIGUA
COBRIR AMB GASA

NO POMADES
NO LIQUIDS
NO MANIPULAR



TRASLLAT SENSE PRESA

LESIONS PER ACIDS O CAUSTICS



AIGUA ABUNDANT
(A CHORRO)

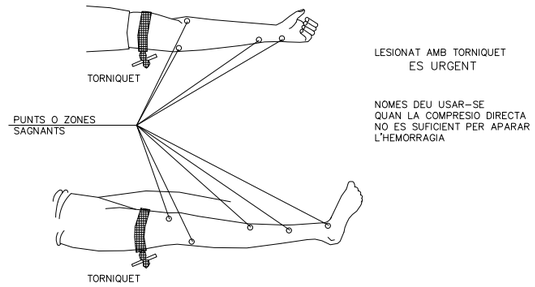
TAPAR SENSE COMPRIMIR

TRASLLAT SENSE PRESA

HEMORRAGIES (continucio)

Metode compresiu TORNIQUET

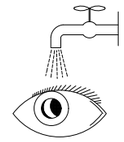
NO ES POT PORTAR MES
D'UNA HORA SENSE AFLUIXAR-LO



LESIONAT AMB TORNIQUET
ES URGENT

NOMES DEU USAR-SE
QUAN LA COMPRESIO DIRECTA
NO ES SUFICIENT PER APARAR
L'HEMORRAGIA

LESIONS OCULARS



RENTAR AMB AIGUA ABUNDANT

NO TOCAR
NO INTENTAR TREURE RES
NO POMADES

!! NO MANIPULAR !!



TAPAR SUAUMENT



TRASLLAT (A ser possible
a centre especialitzat)

LESIONS NAS OIDE

TAPONAR SUAUMENT – TRASLLAT
EPISTAXI (Nas sagnant) TAPONAR

PROMOTOR
Ajuntament de Tortosa

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ÀNGEL MULET BAUBÍ
ENGINYER DE CAMINS, CANALS I PORTS
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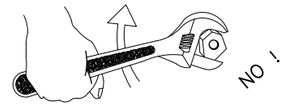
PLÀNOL NÚM.
A06
6de7

ESCALA
E = S/E

DATA
FEBRER 2025

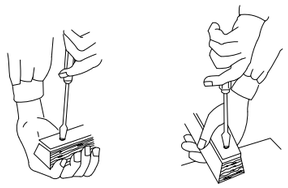
REVISAR I UTILIZAR

CORRECTAMENT LES EINES

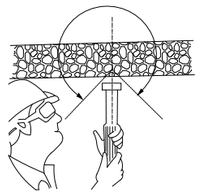




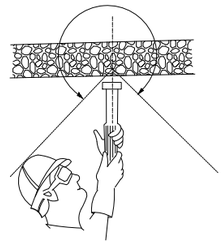
BÉ MALAMENT



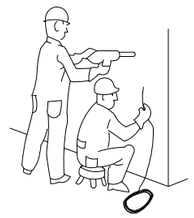
MALAMENT BÉ



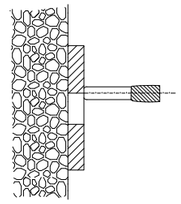
CON DE SEGURETAT



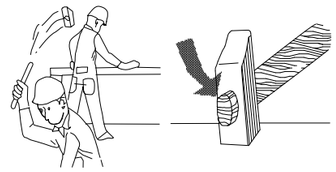
CON DE SEGURETAT



PERILLÓS



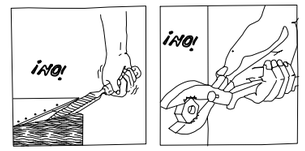
PERILL DE TIR A TRAVÉS DEL FORAT

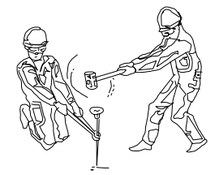




¡ ATENCIÓ !

REVISAR I UTILITZAR CORRECTAMENT LES EINES

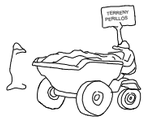




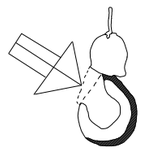
¡ ATENCIÓ !

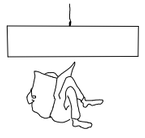
REVISAR I UTILITZAR CORRECTAMENT LES EINES

ACCIONS PERILLOSES

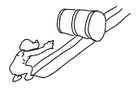




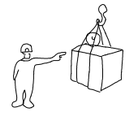


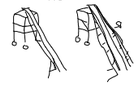




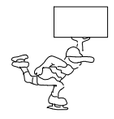


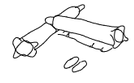
CONDICIONS PERILLOSES





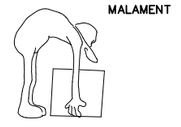




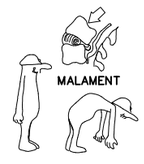


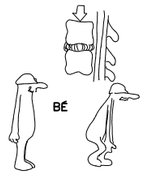


MANEIG DE CÀRREGUES









PROMOTOR Ajuntament de Tortosa	AUTOR DEL PROJECTE ALTER|ENGINYERIA ÀNGEL MULET BAUBÍ ENGINYER DE CAMINS, CANALS I PORTS COL·LEGIAT NÚM.: 31.205	PROJECTE PROJECTE EXECUTIU D'INSTAL·LACIÓ DE COBERTA A LES PISTES POLIESPORTIVES DEL PAVELLÓ DEL TEMPLE	TÍTOL DEL PLÀNOL ANNEX 07 - ESTUDI BÀSIC DE SEGURETAT I SALUT UTILITZACIÓ EINES	PLÀNOL NÚM. A06 7de7	ESCALA E = S/E DATA FEBRER 2025

PLEC DE CONDICIONS DE L'ESTUDI DE SEGURETAT I SALUT

ÍNDEX DEL PLEC DE CONDICIONS

1. DEFINICIÓ I ABAST DEL PLEC 1

2. DEFINICIONS I COMPETÈNCIES DELS AGENTS DEL FET CONSTRUCTIU 3

3. DOCUMENTACIÓ PREVENTIVA DE CARÀCTER CONTRACTUAL 14

4. NORMATIVA LEGAL D'APLICACIÓ 21

5. CONDICIONS ECONÒMIQUES 32

6. CONDICIONS TÈCNIQUES GENERALS DE SEGURETAT 33

7. PLEC DE CONDICIONS TÈCNIQUES ESPECÍFIQUES DE SEGURETAT DELS EQUIPS, MÀQUINES I/O MÀQUINES-FERRAMENTES 37

8. SIGNATURES 42

1. DEFINICIÓ I ABAST DEL PLEC

1.1. Identificació de les obres

Projecte executiu d'instal·lació de coberta a les pistes poliesportives del pavelló del Temple, al terme municipal de Tortosa.

1.2. Objecte

Aquest Plec de Condicions de l'Estudi de Seguretat i Salut comprèn el conjunt d'especificacions que hauran d'acomplir tant el Pla de Seguretat i Salut del Contractista com a document de Gestió Preventiva (Planificació, Organització, Execució i Control) de l'obra, les diferents proteccions a emprar per la reducció dels riscos (Mitjans Auxiliars d'Utilitat Preventiva, Sistemes de Protecció Col·lectiva, Equips de Protecció Individual), Implantacions provisionals per a la Salubritat i Confort dels treballadors, així com les tècniques de la seva implementació a l'obra i les que hauran de manar l'execució de qualsevol tipus d'instal·lacions i d'obres accessòries. Per a qualsevol tipus d'especificació no inclosa en aquest Plec, es tindran en compte les condicions tècniques que es derivin d'entendre com a normes d'aplicació:

- Tots aquells continguts al:

- Plec General de Condicions Tècniques de l'Edificació'', confeccionat pel Centre Experimental d'Arquitectura, aprovat pel Consell Superior de Col·legis d'Arquitectes i adaptat a les seves obres per la ''Direcció General d'Arquitectura''. (cas d'Edificació)
- ''Plec de Clàusules Administratives Generals, per a la Contractació d'Obres de l'Estat'' i adaptat a les seves obres per la ''Direcció de Política Territorial i Obres Públiques''. (cas d'Obra Pública)
- Les contingudes al Reglament General de Contractació de l'Estat, Normes Tecnològiques de l'Edificació publicades pel ''Ministerio de la Vivienda'' i posteriorment pel ''Ministerio de Obras Públicas y Urbanismo''.
- La normativa legislativa vigent d'obligat compliment i les condicionades per les companyies subministradores de serveis públics, totes elles al moment de l'oferta.

1.3. Documents que defineixen l'Estudi de Seguretat i Salut

Segons la normativa legal vigent, Art. 5, 2 del R.D. 1627/1997, de 24 d'octubre sobre ''DISPOSICIONS MÍNIMES DE SEGURETAT I DE SALUT A LES OBRES DE CONSTRUCCIÓ'', l'Estudi de Seguretat haurà de formar part del Projecte d'Execució d'Obra o, al seu defecte, del Projecte d'Obra, havent de ser coherent amb el contingut del mateix i recollir les mesures preventives adequades als riscos que comporta la realització de l'obra, contenint com a mínim els següents documents:

Memòria: Descriptiva dels procediments, equips tècnics i medis auxiliars que hagin d'utilitzar-se o que la seva utilització es pugui preveure; identificació dels riscos laborals que puguin ser evitats, indicant a l'efecte les mesures tècniques necessàries per fer-ho; relació dels riscos laborals que no es puguin

eliminar conforme als assenyalats anteriorment, especificant les mesures preventives i proteccions tècniques tendents a controlar i reduir els esmentats riscos i valorant la seva eficàcia, en especial quan es proposin mesures alternatives.

Plec: De condicions particulars en el que es tindran en compte les normes legals i reglamentaries aplicables a les especificacions tècniques pròpies de l'obra que es tracti, així com les prescripcions que s'hauran de complir en relació amb les característiques, l'ús i la conservació de les màquines, utensilis, eines, sistemes i equips preventius.

Plànols: On es desenvolupen els gràfics i esquemes necessaris per la millor definició i comprensió de les mesures preventives definides a la Memòria, amb expressió de les especificacions tècniques necessàries.

Amidaments: De totes les unitats o elements de seguretat i salut al treball que hagin estat definits o projectats.

Pressupost: Quantificació del conjunt de despeses previstes per l'aplicació i execució de l'Estudi de Seguretat i Salut.

1.4. Compatibilitat i relació entre els esmentats documents

L'estudi de Seguretat i Salut forma part del Projecte d'Execució d'obra, o en el seu cas, del Projecte d'Obra, havent de ser cadascun dels documents que l'integren, coherents amb el contingut del Projecte, i recollir les mesures preventives, de caràcter pal·liatiu, adequades als riscos, no eliminats o reduïts a la fase de disseny, que comporti la realització de l'obra, en els terminis i circumstàncies socio-tècniques on la mateixa es tingui que materialitzar.

El Plec de Condicions Particulars, els Plànols i Pressupost de l'Estudi de Seguretat i Salut són documents contractuals, que restaran incorporats al Contracte i, per tant, són d'obligat acompliment, llevat modificacions degudament autoritzades.

La resta de Documents o dades de l'Estudi de Seguretat i Salut són informatius, i estan constituïts per la Memòria Descriptiva, amb tots els seus Annexos, els Detalls Gràfics d'interpretació, els Amidaments i els Pressupostos Parcials.

Els esmentats documents informatius representen només una opinió fonamentada de l'Autor de l'Estudi de Seguretat i Salut, sense que això suposi que es responsabilitzi de la certesa de les dades que se subministren. Aquestes dades han de considerar-se, tant sols, com a complement d'informació que el Contractista ha d'adquirir directament i amb els seus propis mitjans.

Només els documents contractuals, constitueixen la base del Contracte; per tant el Contractista no podrà al·legar, ni introduir al seu Pla de Seguretat i Salut, cap modificació de les condicions del Contracte en base a les dades contingudes als documents informatius, llevat que aquestes dades apareguin a algun document contractual.

El Contractista serà, doncs, responsable de les errades que puguin derivar-se de no obtenir la suficient informació directa, que rectifiqui o ratifiqui la continguda als documents informatius de l'Estudi de Seguretat i Salut.

Si hi hagués contradicció entre els Plànols i les Prescripcions Tècniques Particulars, en cas d'incloure's aquestes com a document que complementi el Plec de Condicions Generals del Projecte, té prevalença el que s'ha prescrit en les Prescripcions Tècniques Particulars. En qualsevol cas, ambdós documents tenen prevalença sobre les Prescripcions Tècniques Generals.

El que s'ha esmentat al Plec de condicions i només als Plànols, o viceversa, haurà de ser executat com si hagués estat exposat a ambdós documents, sempre que, a criteri de l'Autor de l'Estudi de Seguretat i Salut, quedin suficientment definides les unitats de Seguretat i Salut corresponent, i aquestes tinguin preu al Contracte.

2. DEFINICIONS I COMPETÈNCIES DELS AGENTS DEL FET CONSTRUCTIU

Dins l'àmbit de la respectiva capacitat de decisió cadascun dels actors del fet constructiu, estan obligats a prendre decisions ajustant-se als Principis Generals de l'Acció Preventiva (Art. 15 a la L. 31/1995) :

- Evitar els riscos.
- Avaluar els riscos que no es poden evitar.
- Combatre els riscos en el seu origen.
- Adaptar la feina a la persona, en particular al que fa referència a la concepció dels llocs de treball, com també a l'elecció dels equips i els mètodes de treball i de producció, amb l'objectiu específic d'atenuar la feina monòtona i repetitiva i de reduir-ne els efectes a la salut.
- Tenir en compte l'evolució de la tècnica.
- Substituir el que sigui perillós pel que comporti poc perill o no en comporti cap.
- Planificar la prevenció, amb la recerca d'un conjunt coherent que hi integri la tècnica, l'organització de la feina, les condicions de treball, les relacions socials i la influència dels factors ambientals al treball.
- Adoptar mesures que donin prioritat a la protecció col·lectiva respecte de la individual.
- Facilitar les corresponents instruccions als treballadors.

2.1. Promotor

Als efectes del present Estudi de Seguretat i Salut, serà considerat Promotor qualsevol persona, física o jurídica, pública o privada, que, individual o col·lectivament, decideixi, impulsi, programi i financi, amb recursos propis o aliens, les obres de construcció per sí mateix, o per la seva posterior alienació, lliurament o cessió a tercers sota qualsevol títol.

Competències en matèria de Seguretat i Salut del Promotor:

- Designar al tècnic competent per la Coordinació de Seguretat i Salut en fase de Projecte, quan sigui necessari o es cregui convenient.
- Designar en fase de Projecte, la redacció de l'Estudi de Seguretat, facilitant al Projectista i al Coordinador respectivament, la documentació i informació prèvia necessària per l'elaboració del Projecte i redacció de l'Estudi de Seguretat i Salut, així com autoritzar als mateixos les modificacions pertinents.
- Facilitar que el Coordinador de Seguretat i Salut en la fase de projecte intervingui en totes les fases d'elaboració del projecte i de preparació de l'obra.
- Designar el Coordinador de Seguretat i Salut en fase d'Obra per l'aprovació del Pla de Seguretat i Salut, aportat pel contractista amb antelació a l'inici de les obres, el qual Coordinarà la Seguretat i Salut en fase d'execució material de les mateixes.
- La designació dels Coordinadors en matèria de Seguretat i Salut no eximeix al Promotor de les seves responsabilitats.
- Gestionar l'"Avís Previ" davant l'Administració Laboral i obtenir les preceptives llicències i autoritzacions administratives.
- El Promotor es responsabilitza que tots els agents del fet constructiu tinguin en compte les observacions del Coordinador de Seguretat i Salut, degudament justificades, o bé proposin unes mesures d'una eficàcia, pel cap baix, equivalents.

2.2. Coordinador de Seguretat i Salut

El Coordinador de Seguretat i Salut serà als efectes del present Estudi de Seguretat i Salut, qualsevol persona física legalment habilitada pels seus coneixements específics i que compti amb titulació acadèmica en Construcció.

És designat pel Promotor en qualitat de Coordinador de Seguretat: a) En fase de concepció, estudi i elaboració del Projecte o b) Durant l'Execució de l'obra.

El Coordinador de Seguretat i Salut i Salut forma part de la Direcció d'Obra o Direcció Facultativa/Direcció d'Execució.

Competències en matèria de Seguretat i Salut del Coordinador de Seguretat del Projecte:

El Coordinador de Seguretat i Salut en fase de projecte, és designat pel Promotor quan en l'elaboració del projecte d'obra intervinguin varis projectistes.

Les funcions del Coordinador en matèria de Seguretat i Salut durant l'elaboració del projecte, segons el R.D. 1627/1997, són les següents:

1. Vetllar per a què en fase de concepció, estudi i elaboració del Projecte, el Projectista tingui en consideració els "Principis Generals de la Prevenció en matèria de Seguretat i Salut" (Art. 15 a la L.31/1995), i en particular:

- Prendre les decisions constructives, tècniques i d'organització amb la finalitat de planificar les diferents feines o fases de treball que es desenvolupin simultània o successivament.

- Estimar la duració requerida per l'execució de les diferents feines o fases de treball.

2. Traslladar al Projectista tota la informació preventiva necessària que li cal per integrar la Seguretat i Salut a les diferents fases de concepció, estudi i elaboració del projecte d'obra.

Tenir en compte, cada vegada que sigui necessari, qualsevol estudi de seguretat i salut o estudi bàsic, així com les previsions i informacions útils per efectuar al seu dia, amb les degudes condicions de seguretat i salut, els previsibles treballs posteriors (manteniment).

Coordinar l'aplicació del que es disposa en els punts anteriors i redactar o fer redactar l'Estudi de Seguretat i Salut.

Competències en matèria de Seguretat i Salut del Coordinador de Seguretat i Salut d'Obra:

El Coordinador de Seguretat i Salut en fase d'execució d'obra, és designat pel Promotor en tots aquells casos en què intervé més d'una empresa i treballadors autònoms o diversos treballadors autònoms.

Les funcions del Coordinador en matèria de Seguretat i Salut durant l'execució de l'obra, segons el R.D. 1627/1997, són les següents:

- Coordinar l'aplicació dels Principis Generals de l'Acció Preventiva (Art. 15 L. 31/1995):

  - En el moment de prendre les decisions tècniques i d'organització amb el fi de planificar les diferents tasques o fases de treball que s'hagin de desenvolupar simultània o successivament.

  - En l'estimació de la durada requerida per a l'execució d'aquests treballs o fases de treball.

- Coordinar les activitats de l'obra per garantir que els Contractistes, i, si n'hi ha dels Subcontractistes i els treballadors autònoms, apliquin de manera coherent i responsable els Principis de l'Acció Preventiva que recull l'article 15 de la Llei de Prevenció de Riscos Laborals (L.31/1995 de 8 de novembre) durant l'execució de l'obra i, en particular, en les tasques o activitats al què es refereix l'article 10 del R.D. 1627/1997 de 24 d'octubre sobre Disposicions mínimes de Seguretat i Salut a les obres de construcció:

  - El manteniment de l'obra en bon estat d'ordre i neteja.

  - L'elecció de l'emplaçament dels llocs i àrees de treball, tenint en compte les seves condicions d'accés, i la determinació de les vies o zones de desplaçament o circulació.

  - La manipulació dels diferents materials i la utilització dels mitjans auxiliars.

- El manteniment, el control previ a la posta en servei i el control periòdic de les instal·lacions i dispositius necessaris per a l'execució de l'obra, a fi de corregir els defectes que pugin afectar a la seguretat i la salut dels treballadors.
- La delimitació i el condicionament de les zones d'emmagatzematge i dipòsit dels diferents materials, en particular si es tracta de matèries o substàncies perilloses.
- La recollida dels materials perillosos utilitzats.
- L'emmagatzematge i l'eliminació o evacuació dels residus i deixalles.
- L'adaptació, d'acord amb l'evolució de l'obra, del període de temps efectiu que haurà de dedicar-se als diferents treballs o fases de treball.
- La informació i coordinació entre els contractistes, subcontractistes i treballadors autònoms.
- Les interaccions i incompatibilitats amb qualsevol tipus de treball o activitat que es realitzi en l'obra o a prop del lloc de l'obra.

- Aprovar el Pla de Seguretat i Salut (PSS) elaborat pel contractista i, si s'escau, les modificacions que s'hi haguessin introduït. La Direcció Facultativa prendrà aquesta funció quan no calgui la designació de Coordinador.
- Organitzar la coordinació d'activitats empresarials prevista en l'article 24 de la Llei de Prevenció de Riscos Laborals.
- Coordinar les accions i funcions de control de l'aplicació correcta dels mètodes de treball.
- Adoptar les mesures necessàries perquè només puguin accedir a l'obra les persones autoritzades.

El Coordinador de Seguretat i Salut en la fase d'execució de l'obra respondrà davant del Promotor, del compliment de la seva funció com staff assessor especialitzat en Prevenció de la Sinistralitat Laboral, en col·laboració estricta amb els diferents agents que intervinguin a l'execució material de l'obra. Qualsevol divergència serà presentada al Promotor com a màxim patró i responsable de la gestió constructiva de la promoció de l'obra, a fi que aquest prengui, en funció de la seva autoritat, la decisió executiva que calgui.

Les responsabilitats del Coordinador no eximiran de les seves responsabilitats al Promotor, Fabricants i Subministradors d'equips, eines i mitjans auxiliars, Direcció d'Obra o Direcció Facultativa, Contractistes, Subcontractistes, treballadors autònoms i treballadors.

2.3. Projectista

És el tècnic habilitat professionalment que, per encàrrec del Promotor i amb subjecció a la normativa tècnica i urbanística corresponent, redacta el Projecte.

Podran redactar projectes parcials del Projecte, o parts que el complementin, altres tècnics, de forma coordinada amb l'autor d'aquest, contant en aquest cas, amb la col·laboració del Coordinador de Seguretat i Salut designat pel Promotor.

Quan el Projecte es desenvolupa o completa mitjançant projectes parcials o d'altres documents tècnics, cada projectista assumeix la titularitat del seu projecte.

Competències en matèria de Seguretat i Salut del Projectista:

- Tenir en consideració els suggeriments del Coordinador de Seguretat i Salut en fase de Projecte per integrar els Principis de l'Acció Preventiva (Art. 15 L. 31/1995), prendre les decisions constructives, tècniques i d'organització que puguin afectar a la planificació dels treballs o fases de treball durant l'execució de les obres.

- Acordar, en el seu cas, amb el promotor la contractació de col·laboracions parcials.

2.4. Director d'Obra

És el tècnic habilitat professionalment que, formant part de la Direcció d'Obra o Direcció Facultativa, dirigeix el desenvolupament de l'obra en els aspectes tècnics, estètics, urbanístics i mediambientals, de conformitat amb el Projecte que el defineix, la llicència constructiva i d'altres autoritzacions preceptives i les condicions del contracte, amb l'objecte d'assegurar l'adequació al fi proposat. En el cas que el Director d'Obra dirigeixi a més a més l'execució material de la mateixa, assumirà la funció tècnica de la seva realització i del control qualitatiu i quantitatiu de l'obra executada i de la seva qualitat.

Podran dirigir les obres dels projectes parcials altres tècnics, sota la coordinació del Director d'Obra, contant amb la col·laboració del Coordinador de Seguretat i Salut en fase d'Obra, nomenat pel Promotor.

Competències en matèria de Seguretat i Salut del Director d'Obra:

- Verificar el replanteig, l'adequació dels fonaments, estabilitat dels terrenys i de l'estructura projectada a les característiques geotècniques del terreny.

- Si dirigeix l'execució material de l'obra, verificar la recepció d'obra dels productes de construcció, ordenant la realització dels assaigs i proves precises; comprovar els nivells, desploms, influència de les condicions ambientals en la realització dels treballs, els materials, la correcta execució i disposició dels elements constructius, de les instal·lacions i dels Medis Auxiliars d'Utilitat Preventiva i la Senyalització, d'acord amb el Projecte i l'Estudi de Seguretat i Salut.

- Resoldre les contingències que es produeixin a l'obra i consignar en el Llibre d'Ordres i Assistència les instruccions necessàries per la correcta interpretació del Projecte i dels Medis Auxiliars d'Utilitat Preventiva i solucions de Seguretat i Salut Integrada previstes en el mateix.

- Elaborar a requeriment del Coordinador de Seguretat i Salut o amb la seva conformitat, eventuals modificacions del projecte, que vinguin exigides per la marxa de l'obra i que puguin afectar a la Seguretat i Salut dels treballs, sempre que les mateixes s'adeqüin a les disposicions normatives contemplades a la redacció del Projecte i del seu Estudi de Seguretat i Salut.

- Subscriure l'Acta de Replanteig o començament de l'obra, confrontant prèviament amb el Coordinador de Seguretat i Salut l'existència prèvia de l'Acta d'Aprovació del Pla de Seguretat i Salut del contractista.

- Certificar el final d'obra, simultàniament amb el Coordinador de Seguretat, amb els visats que siguin preceptius.

- Conformar les certificacions parcials i la liquidació final de les unitats d'obra i de Seguretat i Salut executades, simultàniament amb el Coordinador de Seguretat.

- Les instruccions i ordres que doni la Direcció d'Obra o Direcció Facultativa, seran normalment verbals, tenint força per obligar a tots els efectes. Els desviaments respecte al compliment del Pla de Seguretat i Salut, s'anotaran pel Coordinador al Llibre d'incidències

- Elaborar i subscriure conjuntament amb el Coordinador de Seguretat, la Memòria de Seguretat i Salut de l'obra finalitzada, per lliurar-la al promotor, amb els visats que foren perceptius.

2.5. Contractista o constructor (empresari principal) i Subcontractistes

Definició de Contractista:

És qualsevol persona, física o jurídica, que individual o col·lectivament, assumeix contractualment davant el Promotor, el compromís d'executar, en condicions de solvència i Seguretat, amb medis humans i materials, propis o aliens, les obres o part de les mateixes amb subjecció al contracte, el Projecte i el seu Estudi de Seguretat i Salut.

Definició de Subcontractista:

És qualsevol persona física o jurídica que assumeix contractualment davant el contractista, empresari principal, el compromís de realitzar determinades parts o instal·lacions de l'obra, amb subjecció al contracte, al Projecte i al Pla de Seguretat, del Contractista, pel que es regeix la seva execució.

Competències en matèria de Seguretat i Salut del Contractista i/o Subcontractista:

1. El Contractista haurà d'executar l'obra amb subjecció al Projecte, directrius de l'Estudi i compromisos del Pla de Seguretat i Salut, a la legislació aplicable i a les instruccions del Director d'Obra, i del Coordinador de Seguretat i Salut, amb la finalitat de dur a terme les condicions preventives de la sinistralitat laboral i l'assegurament de la qualitat, compromeses en el Pla de Seguretat i Salut i exigides en el Projecte

2. Tenir acreditació empresarial i la solvència i capacitació tècnica, professional i econòmica que l'habiliti per al compliment de les condicions exigibles per actuar com constructor (i/o subcontractista, en el seu cas), en condicions de Seguretat i Salut.

3. Designar al Cap d'Obra que assumirà la representació tècnica del Constructor (i/o Subcontractista, en el seu cas), a l'obra i que per la seva titulació o experiència haurà de tenir la capacitat adequada d'acord amb les característiques i complexitat de l'obra.

4. Assignar a l'obra els medis humans i materials que la seva importància ho requereixi.

5. Formalitzar les subcontractacions de determinades parts o instal·lacions de l'obra dins dels límits establerts en el Contracte.

6. Redactar i signar el Pla de Seguretat i Salut que desenvolupi l'Estudi de Seguretat i Salut del Projecte. El Subcontractista podrà incorporar els suggeriments de millora corresponents a la seva especialització, en el Pla de Seguretat i Salut del Contractista i presentar-los a l'aprovació del Coordinador de Seguretat.

7. El representant legal del Contractista signarà l'Acta d'Aprovació del Pla de Seguretat i Salut conjuntament amb el Coordinador de Seguretat.

8. Signar l'Acta de Replanteig o començament i l'Acta de Recepció de l'obra.

9. Aplicarà els Principis de l'Acció Preventiva que recull l'article 15 de la Llei de Prevenció de Riscos Laborals, en particular, en desenvolupar les tasques o activitats indicades en l'esmentat article 10 del R.D. 1627/1997:

    - Complir i fer complir al seu personal allò establert en el Pla de Seguretat i Salut (PSS).

    - Complir la normativa en matèria de prevenció de riscos laborals, tenint en compte, si s'escau, les obligacions que fan referència a la coordinació d'activitats empresarials previstes en l'article 24 de la Llei de Prevenció de Riscos Laborals, i en conseqüència complir el R.D. 171/2004, i també complir les disposicions mínimes establertes en l'annex IV del R.D. 1627/1997, durant l'execució de l'obra.

    - Informar i facilitar les instruccions adequades als treballadors autònoms sobre totes les mesures que s'hagin d'adoptar pel que fa a la seguretat i salut a l'obra.

    - Atendre les indicacions i complir les instruccions del Coordinador en matèria de seguretat i salut durant l'execució de l'obra, i si és el cas, de la Direcció Facultativa.

    - Els Contractistes i Subcontractistes seran responsables de l'execució correcta de les mesures preventives fixades en el Pla de Seguretat i Salut (PSS) en relació amb les obligacions que corresponen directament a ells o, si escau, als treballadors autònoms que hagin contractat.

    - A més, els Contractistes i Subcontractistes respondran solidàriament de les conseqüències que es derivin de l'incompliment de les mesures previstes al Pla, als termes de l'apartat 2 de l'article 42 de la Llei de Prevenció de Riscos Laborals.

    - El Contractista principal haurà de vigilar el compliment de la normativa de prevenció de riscos laborals per part de les empreses Subcontractistes.

- Abans de l'inici de l'activitat a l'obra, el Contractista principal exigirà als Subcontractistes que acreditin per escrit que han realitzat, per als treballs a realitzar, l'avaluació de riscos i la planificació de la seva activitat preventiva. Així mateix, el Contractista principal exigirà als Subcontractistes que acreditin per escrit que han complert les seves obligacions en matèria d'informació i formació respecte als treballadors que hagin de prestar servei a l'obra.

- El Contractista principal haurà de comprovar que els Subcontractistes que concorren a l'obra han establert entre ells els medis necessaris de coordinació.

- Les responsabilitats del Coordinador, de la Direcció Facultativa i del Promotor no eximiran de les seves responsabilitats als Contractistes i al Subcontractistes.

- El Constructor serà responsable de la correcta execució dels treballs mitjançant l'aplicació de Procediments i Mètodes de Treball intrínsecament segurs (SEGURETAT INTEGRADA), per assegurar la integritat de les persones, els materials i els mitjans auxiliars fets servir a l'obra.

- El Contractista principal facilitarà per escrit a l'inici de l'obra, el nom del Director Tècnic, que serà creditor de la conformitat del Coordinador i de la Direcció Facultativa. El Director Tècnic podrà exercir simultàniament el càrrec de Cap d'Obra, o bé, delegarà l'esmentada funció a altre tècnic, Cap d'Obra, amb coneixements contrastats i suficients de construcció a peu d'obra. El Director Tècnic, o en absència el Cap d'Obra o l'Encarregat General, ostentaran successivament la prelació de representació del Contractista a l'obra.

- El representant del Contractista a l'obra, assumirà la responsabilitat de l'execució de les activitats preventives incloses al present Plec i el seu nom figurarà al Llibre d'Incidències.

- Serà responsabilitat del Contractista i del Director Tècnic, o del Cap d'Obra i/o Encarregat en el seu cas, l'incompliment de les mesures preventives, a l'obra i entorn material, de conformitat a la normativa legal vigent.

- El Contractista també serà responsable de la realització del Pla de Seguretat i Salut (PSS), així com de l'específica vigilància i supervisió de seguretat, tant del personal propi com subcontractat, així com de facilitar les mesures sanitàries de caràcter preventiu laboral, formació, informació i capacitació del personal, conservació i reposició dels elements de protecció personal dels treballadors, càlcul i dimensions dels Sistemes de Proteccions Col·lectives i en especial, les baranes i passarel·les, condemna de forats verticals i horitzontals susceptibles de permetre la caiguda de persones o objectes, característiques de les escales i estabilitat dels esglaons i recolzadors, ordre i neteja de les zones de treball, enllumenat i ventilació dels llocs de treball, bastides, apuntalaments, encofrats i estintolaments, aplecs i emmagatzematges de materials, ordre d'execució dels treballs constructius, seguretat de les màquines, grues, aparells d'elevació, mesures auxiliars i equips de treball en general, distància i localització d'estesa i canalitzacions de les companyies subministradores, així com qualsevol altre mesura de caràcter general i d'obligat compliment, segons la normativa legal vigent i els costums del sector i que pugui afectar a aquest centre de treball.

- El Director Tècnic (o el Cap d'Obra), visitaran l'obra com a mínim amb una cadència diària i hauran de donar les instruccions pertinents a l'Encarregat General, que haurà de ser una persona de provada capacitat pel càrrec, haurà d'estar present a l'obra durant la realització de tot el treball que s'executi. Sempre que sigui preceptiu i no existeixi altra designada a l'efecte, s'entendrà que l'Encarregat General és al mateix temps el Supervisor General de Seguretat i Salut del Centre de Treball per part del Contractista, amb independència de qualsevol altre requisit formal.

- L'acceptació expressa o tàcita del Contractista pressuposa que aquest ha reconegut l'emplaçament del terreny, les comunicacions, accessos, afectació de serveis, característiques del terreny, mides de seguretats necessàries, etc. i no podrà al·legar en el futur ignorància d'aquestes circumstàncies.

- El Contractista haurà de disposar de les pòlisses d'assegurança necessària per a cobrir les responsabilitats que puguin esdevenir per motius de l'obra i el seu entorn, i serà responsable dels danys i prejudicis directes o indirectes que pugui ocasionar a tercers, tant per omissió com per negligència, imprudència o imperícia professional, del personal al seu càrrec, així com del Subcontractistes, industrials i/o treballadors autònoms que intervinguin a l'obra.

- Les instruccions i ordres que doni la Direcció d'Obra o Direcció Facultativa, seran normalment verbals, tenint força per obligar a tots els efectes. Els desviaments respecte al compliment del Pla de Seguretat i Salut, s'anotaran pel Coordinador al Llibre d'Incidències.

En cas d'incompliment reiterat dels compromisos del Pla de Seguretat i Salut (PSS), el Coordinador i Tècnics de la Direcció d'Obra o Direcció Facultativa, Constructor, Director Tècnic, Cap d'Obra, Encarregat, Supervisor de Seguretat, Delegat Sindical de Prevenció o els representants del Servei de Prevenció (propi o concertat) del Contractista i/o Subcontractistes, tenen el dret a fer constar al Llibre d'Incidències, tot allò que consideri d'interès per a reconduir la situació als àmbits previstos al Pla de Seguretat i Salut de l'obra.

- Les condicions de seguretat i salut del personal, dins de l'obra i els seus desplaçaments a/o des del seu domicili particular, seran responsabilitat dels Contractistes i/o Subcontractistes així com dels propis treballadors Autònoms.

- També serà responsabilitat del Contractista, el tancament perimetral del recinte de l'obra i protecció de la mateixa, el control i reglament intern de policia a l'entrada, per a evitar la intromissió incontrolada de tercers aliens i curiosos, la protecció d'accessos i l'organització de zones de pas amb destinació als visitants de les oficines d'obra.

- El Contractista haurà de disposar d'un senzill, però efectiu, Pla d'Emergència per a l'obra, en previsió d'incendis, pluges, glaçades, vent, etc. que puguin posar en situació de risc al personal d'obra, a tercers o als medis e instal·lacions de la pròpia obra o limítrofs.

- El Contractista i/o Subcontractistes tenen absolutament prohibit l'ús d'explosius sense autorització escrita de la Direcció d'Obra o Direcció Facultativa.

- La utilització de grues, elevadors o d'altres màquines especials, es realitzarà per operaris especialitzats i posseïdors del carnet de grua torre, del títol d'operador de grua

mòbil i en altres casos l'acreditació que correspongui, sota la supervisió d'un tècnic especialitzat i competent a càrrec del Contractista. El Coordinador rebrà una copia de cada títol d'habilitació signat per l'operador de la màquina i del responsable tècnic que autoritza l'habilitació avalant-hi la idoneïtat d'aquell per a realitzar la seva feina, en aquesta obra en concret.

- Tot operador de grua mòbil haurà d'estar en possessió del carnet de gruista segons l'Instrucció Tècnica Complementaria "MIE-AEM-4" aprovada per RD 837/2003 expedit pel òrgan competent o en el seu defecte certificat de formació com a operador de grua de l'Institut Gaudí de la Construcció o entitat similar; tot ell per garantir el total coneixement dels equips de treballs de forma que es pugui garantir el màxim de seguretat a les tasques a desenvolupar.

- El delegat del contractista haurà de certificar que tot operador de grua mòbil es troba en possessió del carnet de gruista segons especificacions del paràgraf anterior, així mateix haurà de certificar que totes les grues mòbils que s'utilitzin a l'obra compleixen totes i cadascunes de l'especificacions establertes a l'ITC "MIE-AEM-4".

2.6. Treballadors Autònoms

Persona física diferent al Contractista i/o Subcontractista que realitzarà de forma personal i directa una activitat professional, sense cap subjecció a un contracte de treball, i que assumeix contractualment davant el Promotor, el Contractista o el Subcontractista el compromís de realitzar determinades parts o instal·lacions de l'obra.

Competències en matèria de Seguretat i Salut del Treballador Autònom:

- Aplicar els Principis de l'Acció Preventiva que es recullen en l'article 15 de la Llei de Prevenció de Riscos Laborals, en particular, en desenvolupar les tasques o activitats indicades en l'article 10 del R.D. 1627/1997.

- Complir les disposicions mínimes de seguretat i salut, que estableix l'annex IV del R.D. 1627/1997, durant l'execució de l'obra.

- Complir les obligacions en matèria de prevenció de riscos que estableix pels treballadors l'article 29, 1,2, de la Llei de Prevenció de Riscos Laborals.

- Ajustar la seva actuació en l'obra conforme als deures de coordinació d'activitats empresarials establerts en l'article 24 de la Llei de Prevenció de Riscos Laborals, participant, en particular, en qualsevol mesura d'actuació coordinada que s'hagi establert.

- Utilitzar els equips de treball d'acord amb allò disposat en el R.D. 1215/1997, de 18 de juliol, pel qual s'estableixen les disposicions mínimes de seguretat i salut per a la utilització dels equips de treball per part dels treballadors.

- Escollir i utilitzar els equips de protecció individual, segons preveu el R.D. 773/1997, de 30 de maig, sobre disposicions mínimes de seguretat i salut relativa a la utilització dels equips de protecció individual per part dels treballadors.

- Atendre les indicacions i complir les instruccions del Coordinador en matèria de seguretat i de salut durant l'execució de l'obra i de la Direcció d'Obra o Direcció Facultativa, si n'hi ha.
- Els treballadors autònoms hauran de complir allò establert en el Pla de Seguretat i Salut (PSS):
- La maquinària, els aparells i les eines que s'utilitzen a l'obra, han de respondre a les prescripcions de seguretat i salut, equivalents i pròpies, dels equipaments de treball que l'empresari Contractista posa a disposició dels seus treballadors.
- Els autònoms i els empresaris que exerceixen personalment una activitat a l'obra, han d'utilitzar equipament de protecció individual apropiat, i respectar el manteniment en condicions d'eficàcia dels diferents sistemes de protecció col·lectiva instal·lats a l'obra, segons el risc que s'ha de prevenir i l'entorn del treball.

2.7. Treballadors

Persona física diferent al Contractista, Subcontractista i/o Treballador Autònom que realitzarà de forma personal i directa una activitat professional remunerada per compte aliè, amb subjecció a un contracte laboral, i que assumeix contractualment davant l'empresari el compromís de desenvolupar a l'obra les activitats corresponents a la seva categoria i especialitat professional, seguint les instruccions d'aquell.

Competències en matèria de Seguretat i Salut del Treballador:

- El deure d'obeir les instruccions del Contractista en allò relatiu a Seguretat i Salut.
- El deure d'indicar els perills potencials.
- Té responsabilitat dels actes personals.
- Té el dret a rebre informació adequada i comprensible i a formular propostes, en relació a la seguretat i salut, en especial sobre el Pla de Seguretat i Salut (PSS).
- Té el dret a la consulta i participació, d'acord amb l'article 18, 2 de la Llei de Prevenció de Riscos Laborals.
- Té el dret a adreçar-se a l'autoritat competent.
- Té el dret a interrompre el treball en cas de perill imminent i seriós per a la seva integritat i la dels seus companys o tercers aliens a l'obra.
- Té el dret de fer us i el fruit d'unes instal·lacions provisionals de Salubritat i Confort, previstes especialment pel personal d'obra, suficients, adequades i dignes, durant el temps que duri la seva permanència a l'obra.

3. DOCUMENTACIÓ PREVENTIVA DE CARÀCTER CONTRACTUAL

3.1. Interpretació dels documents vinculants en matèria de Seguretat i Salut

Excepte en el cas que l'escriptura del Contracte o Document de Conveni Contractual ho indiqui específicament d'altra manera, l'ordre de prelació dels Documents contractuals en matèria de Seguretat i Salut per aquesta obra serà el següent:

- Escriptura del Contracte o Document del Conveni Contractual.
- Bases del Concurs.
- Plec de Prescripcions per la Redacció dels Estudis de Seguretat i Salut i la Coordinació de Seguretat i salut en fases de Projecte i/o d'Obra.
- Plec de Condicions Generals del Projecte i de l'Estudi de Seguretat i Salut.
- Plec de Condicions Facultatives i Econòmiques del Projecte i de l'Estudi de Seguretat i Salut.
- Procediments Operatius de Seguretat i Salut i/o Procediments de control Administratiu de Seguretat, redactats durant la redacció del Projecte i/o durant l'Execució material de l'Obra, pel Coordinador de Seguretat.
- Plànols i Detalls Gràfics de l'Estudi de Seguretat i Salut.
- Pla d'Acció Preventiva de l'empresari-contractista.
- Pla de Seguretat i Salut de desenvolupament de l'Estudi de Seguretat i Salut del Contractista per l'obra en qüestió.
- Protocols, procediments, manuals i/o Normes de Seguretat i Salut interna del Contractista i/o Subcontractistes, d'aplicació en l'obra.

Feta aquesta excepció, els diferents documents que constitueixen el Contracte seran considerats com mútuament explicatius, però en el cas d'ambigüitats o discrepàncies interpretatives de temes relacionats amb la Seguretat, seran aclarides i corregides pel Director d'Obra qui, després de consultar amb el Coordinador de Seguretat, farà l'ús de la seva facultat d'aclarir al Contractista les interpretacions pertinents.

Si en el mateix sentit, el Contractista descobreix errades, omissions, discrepàncies o contradiccions tindrà que notificar-ho immediatament per escrit al Director d'Obra qui després de consultar amb el Coordinador de Seguretat, aclarirà ràpidament tots els assumptes, notificant la seva resolució al Contractista. Qualsevol treball relacionat amb temes de Seguretat i Salut, que hagués estat executat pel Contractista sense prèvia autorització del Director d'Obra o del Coordinador de Seguretat, serà responsabilitat del Contractista, restant el Director d'Obra i el Coordinador de Seguretat, eximits de qualsevol responsabilitat derivada de les conseqüències de les mesures preventives, tècnicament inadequades, que hagin pogut adoptar el Contractista pel seu compte.

En el cas que el contractista no notifiqui per escrit el descobriment d'errades, omissions, discrepàncies o contradiccions, això, no tan sols no l'eximeix de l'obligació d'aplicar les mesures de Seguretat i Salut raonablement exigibles per la reglamentació vigent, els usos i la praxi habitual de la Seguretat Integrada en la construcció, que siguin manifestament indispensables per dur a terme l'esperit o la intenció posada en el Projecte i l'Estudi de Seguretat i Salut, si no que hauran de ser materialitzats com si haguessin estat completes i correctament especificades en el Projecte i el corresponent Estudi de Seguretat i Salut.

Totes les parts del contracte s'entenen complementàries entre si, per la qual cosa qualsevol treball requerit en un sol document, encara que no estigui esmentat en cap altre, tindrà el mateix caràcter contractual que si s'hagués recollit en tots.

3.2. Vigència de l'Estudi de Seguretat i Salut

El Coordinador de Seguretat, a la vista dels continguts del Pla de Seguretat i Salut aportat pel Contractista, com document de gestió preventiva d'adaptació de la seva pròpia ''cultura preventiva interna d'empresa'' el desenvolupament dels continguts del Projecte i l'Estudi de Seguretat i Salut per l'execució material de l'obra, podrà indicar en l'Acta d'Aprovació del Pla de Seguretat, la declaració expressa de subsistència, d'aquells aspectes que puguin estar, a criteri del Coordinador, millor desenvolupats en l'Estudi de Seguretat, com ampliadors i complementaris dels continguts del Pla de Seguretat i Salut del Contractista.

Els Procediments Operatius i/o Administratius de Seguretat, que pugessin redactar el Coordinador de Seguretat i Salut amb posterioritat a l'Aprovació del Pla de Seguretat i Salut, tindrà la consideració de document de desenvolupament de l'Estudi i Pla de Seguretat, essent, per tant, vinculants per les parts contractants.

3.3. Pla de Seguretat i Salut del Contractista

D'acord al que es disposa el R.D. 1627 / 1997, cada contractista està obligat a redactar, abans de l'inici dels seus treballs a l'obra, un Pla de Seguretat i Salut adaptant aquest E.S.S. als seus medis, mètodes d'execució i al ''PLA D'ACCIÓ PREVENTIVA INTERNA D'EMPRESA'', realitzat de conformitat al R.D.39 / 1997 ''LLEI DE PREVENCIÓ DE RISCOS LABORALS'' (Arts. 1, 2 ap. 1, 8 i 9) .

El Contractista en el seu Pla de Seguretat i Salut està obligat a incloure els requisits formals establerts a l'Art. 7 del R.D. 1627/ 1997, no obstant, el Contractista té plena llibertat per estructurar formalment aquest Pla de Seguretat i Salut .

El Contractista, en el seu Pla de Seguretat i Salut, adjuntarà, com a mínim, els plànols següents amb els continguts que en cada cas s'indiquen.

Plànol o Plànols de situació amb les característiques de l'entorn. Indicant:

- Ubicació dels serveis públics.
- Electricitat.
- Clavegueram.

- Aigua potable.
- Gas.
- Oleoductes.
- Altres.
- Situació i amplada dels carrers (reals i previstos).
- Accessos al recinte.
- Garites de control d'accessos.
- Acotat del perímetre del solar.
- Distàncies de l'edifici amb els límits del solar.
- Edificacions veïnes existents.
- Servituds.

Plànols en planta d'ordenació general de l'obra, segons les diverses fases previstes en funció del seu pla d'execució real. Indicant:

- Tancament del solar.
- Murs de contenció, atalussats, pous, talls del terreny i desnivells.
- Nivells definitius dels diferents accessos al solar i rasants de vials colindants.
- Ubicació d'instal·lacions d'implantació provisional per al personal d'obra:
- Banys: Equipament (lavabos, retretes, dutxes, escalfador..,).
- Vestuaris del personal: Equipament (taquilles, bancs correguts, estufes..,).
- Refectori o Menjador: Equipament (taules, seients, escalfaplats, frigorífic..,).
- Farmaciola: Equipament.
- Altres.
- Llocs destinats a apilaments.
- Àrids i materials ensitjats.
- Armadures, barres, tubs i biguetes.
- Materials paletitzats.
- Fusta.

- Materials ensacats.
- Materials en caixes.
- Materials en bidons.
- Materials solts.
- Runes i residus.
- Ferralla.
- Aigua.
- Combustibles.
- Substàncies tòxiques.
- Substàncies explosives i/o deflagrants.
- Ubicació de maquinària fixa i àmbit d'influència previst.
- Aparells de manutenció mecànica: grues torre, muntacàrregues, cabrestants, maquinetes, baixants de runes, cintes transportadores, bomba d'extracció de fluids.
- Estació de formigonat.
- Sitja de morter.
- Planta de piconament i/o selecció d'àrids.
- Circuits de circulació interna de vehicles, límits de circulació i zones d'aparcament. Senyalització de circulació.
- Circuits de circulació interna del personal d'obra. Senyalització de Seguretat.
- Esquema d'instal·lació elèctrica provisional.
- Esquema d'instal·lació d'il·luminació provisional.
- Esquema d'instal·lació provisional de subministrament d'aigua.

Plànols en planta i seccions d'instal·lació de Sistemes de Protecció Col·lectiva.

(*) Representació cronològica per fases d'execució.

- Protecció en previsió de caigudes de persones o objectes des de buits verticals de façanes:
- Ubicació de bastida porticada d'estructura tubular cobrint la totalitat dels fronts de façana en avançament simultani a l'execució d'estructura fins l'acabament de tancaments i coberta (*).

(*) Sistema de Protecció Col·lectiva preferent

- Ubicació i replanteig del conjunt de forques metàl·liques i xarxes de seguretat.(*).

  (*) En cas de no realitzar-se seguretat integrada amb bastides tubulars, prèvia justificació en l'ESS.

- Ubicació i replanteig de xarxes de desencofrat.

- Ubicació i replanteig de baranes de seguretat (*).

(*) En cas de no realitzar-se seguretat integrada amb bastides tubulars, prèvia justificació en l'ESS.

- Ubicació i replanteig de marquesines en voladís de seguretat (*).

(*) En cas de no realitzar-se seguretat integrada amb bastides tubulars, prèvia justificació en l'ESS.

- Protecció en previsió de caigudes de persones o objectes des de buits verticals d'escales:

- Ubicació i replanteig de xarxes verticals de seguretat en perímetre i buit de travessers d'escales (*).

(*) Sistema de Protecció Col·lectiva preferent.

- Ubicació i replanteig de baranes de seguretat en perímetre i buit de travessers d'escales.

- Protecció en previsió de caigudes de persones o objectes des de buits horitzontals de patis de llums, xemeneies, buits d'instal·lacions i encofrats.

- Ubicació i replanteig de condemna amb malla electrosoldada enjovat en el cèrcol perimetral (*).

(*) Sistema de Protecció Col·lectiva preferent en forjat

- Ubicació i replanteig de xarxes horitzontals de seguretat en patis interiors.

- Planta d'estructura amb ubicació i replanteig de xarxes horitzontals de seguretat sota taulers i sotaponts d'encofrats horitzontals recuperables.

- Ubicació i replanteig d'entarimat horitzontal de fusta colada en passos d'instal·lacions, arquetes i registres provisionals.

- Ubicació i replanteig de barana perimetral de seguretat.

Plànols de proteccions en plataformes i zones de pas. Contingut:

- Passarel·les (ubicació i elements constitutius).

- Escales provisionals.

- Detalls de tapes provisionals d'arquetes o de buits.
- Abalisament i senyalització de zones de pas.
- Condemna d'accessos i proteccions en contenció d'estabilitat de terrenys.
- Ubicació de bastides penjades: Projecte i replanteig dels pescants i les guindoles.
- Sàgola de cable per a ancoratge i lliscament de cinturó de seguretat en perímetres exteriors amb risc de caigudes d'altura.

Plànol o plànols de distribució d'elements de seguretat per a l'ús i manteniment posterior de l'obra executada (*).

- Bastides suspeses sobre guindoles carrileres per a neteja de façana.
- Plataformes lliscants sobre carrils per a manteniment de paraments verticals.
- Bastides especials.
- Plataformes en voladís i moll de descàrrega escamotejables per a introducció i evacuació d'equips.
- Baranes perimetrals escamotejables per a treballs de manteniment en cobertes no transitables.
- Escales de gat amb enclavament d'accessos i equipament de Sistema de Protecció Col·lectiva.
- Replanteig d'ancoratges i sàgoles per a cinturons en façanes, xemeneies, finestrals i patis.
- Replanteig de pescants escamotejables o bigues retràctils.
- Escala d'incendis i/o mànega tèxtil ignífuga d'evacuació.
- Altres.

(*) Tant sols en cas que estiguin contemplats en el Projecte Executiu.

Plànol d'evacuació interna d'accidentats (*).

- Plànol de carrers per a evacuació d'accidentats en obres urbanes.
- Plànol de carreteres per a evacuació d'accidentats en obres aïllades.

(*) Tant sols per a obres complexes o especials.

Altres.

3.4. El "Llibre d'Incidències"

A l'obra existirà, adequadament protocolitzat, el document oficial ‘‘LLIBRE D'INCIDÈNCIES’‘, facilitat per la Direcció d'Obra o Direcció Facultativa, visat pel Col·legi Professional corresponent (O. Departament de Treball 22 Gener de 1998 D.O.G.C. 2565 -27.1.1998).

Segons l'article 13 del Real Decret 1627/97 de 24 d'Octubre, aquest llibre haurà d'estar permanentment a l'obra, en poder del Coordinador de Seguretat i Salut, i a disposició de la Direcció d'Obra o Direcció Facultativa, Contractistes, Subcontractistes i Treballadors Autònoms, Tècnics dels Centres Provincials de Seguretat i Salut i del Vigilant (Supervisor) de Seguretat, o en el seu cas, del representat dels treballadors, els quals podran realitzar-li les anotacions que considerin adient respecte a les desviacions en el compliment del Pla de Seguretat i Salut, per a que el Contractista procedeixi a la seva notificació a l'Autoritat Laboral, en un termini inferior a 24 hores.

3.5. Caràcter vinculant del Contracte o document del "Conveni de Prevenció i Coordinació" i documentació contractual annexa en matèria de Seguretat

El CONVENI DE PREVENCIÓ i COORDINACIÓ subscrit entre el Promotor (o el seu representant), Contractista, Projectista, Coordinador de Seguretat, Direcció d'Obra o Direcció Facultativa i Representant Sindical Delegat de Prevenció, podrà ésser elevat a escriptura pública a requeriment de les parts atorgants del mateix, essent de compte exclusiva del Contractista totes les despeses notarials i fiscals que es derivin.

El Promotor podrà prèvia notificació escrita al Contractista, assignar totes o part de les seves facultats assumides contractualment, a la persona física, jurídica o corporació que tingues a be designar a l'efecte, segons procedeixi.

Els terminis i provisions de la documentació contractual contemplada en l'apartat 2.1. del present Plec, junt amb els terminis i provisions de tots els documents aquí incorporats per referència, constitueixen l'acord ple i total entre les parts i no durà a terme cap acord o enteniment de cap naturalesa, ni el Promotor farà cap endossament o representacions al Contractista, excepte les que s'estableixin expressament mitjançant contracte. Cap modificació verbal als mateixos tindrà validesa o força o efecte algun.

El Promotor i el Contractista s'obligaran a si mateixos i als seus successors, representants legals i/o concessionaris, amb respecte al pactat en la documentació contractual vinculant en matèria de Seguretat. El Contractista no es agent o representant legal del Promotor, pel que aquest no serà responsable de cap manera de les obligacions o responsabilitats en què incorri o assumeixi el Contractista.

No es considerarà que alguna de les parts hagi renunciat a algun dret, poder o privilegi atorgat per qualsevol dels documents contractuals vinculants en matèria de Seguretat, o provisió dels mateixos, llevat que tal renúncia hagi estat degudament expressada per escrit i reconeguda per les parts afectades.

Tots els recursos o remeis brindats per la documentació contractual vinculant en matèria de Seguretat, hauran de ser presos i interpretats com acumulatius, és a dir, addicionals a qualsevol altre recurs prescrit per la llei.

Les controvèrsies que puguin sorgir entre les parts, respecte a la interpretació de la documentació contractual vinculant en matèria de Seguretat, serà competència de la jurisdicció civil. No obstant, es consideraran actes jurídics separables els que es dicten en relació amb la preparació i adjudicació del Contracte i, en conseqüència, podran ser impugnats davant l'ordre jurisdiccional contenciós-administratiu d'acord amb la normativa reguladora de l'esmentada jurisdicció.

4. NORMATIVA LEGAL D'APLICACIÓ

Per a la realització del Pla de Seguretat i Salut, el Contractista tindrà en compte la normativa existent i vigent en el decurs de la redacció de l'ESS (o EBSS), obligatòria o no, que pugui ésser d'aplicació.

A títol orientatiu, i sense caràcter limitatiu, s'adjunta una relació de normativa aplicable. El Contractista, no obstant, afegirà al llistat general de la normativa aplicable a la seva obra les esmenes de caràcter tècnic particular que no siguin a la relació i correspongui aplicar al seu Pla.

4.1. Textos generals

- Convenis col·lectius.
- "Reglamento de seguridad e higiene en el trabajo en la industria de la construcción. OM 20 de mayo de 1952 (BOE 15 de junio de 1958)". Modificada per "Orden 10 de diciembre de 1953 (BOE 2 de febrero de 1956)" i "Orden 23 de de septiembre 1966 (BOE 1 de octubre de 1966)". Derogada parcialment per "Orden 20 de enero de 1956 (BOE 2 de febrero de 1956)" i "R.D. 2177/2004 (BOE 13 de noviembre de 2004)".
- "Ordenanza laboral de la construcción, vidrio y cerámica. OM 28 de agosto de 1970 (BOE 5, 7, 8, 9 de septiembre de 1970)", en vigor capítols VI i XVI i les modificacions "Orden 22 de marzo de 1972 (BOE 31 de marzo de 1972)", "Orden 28 de julio (BOE 10 de agosto de 1972)" i "Orden 27 de julio de 1973 (BOE 31 de julio de 1973)". Derogada parcialment per "Orden 28 de diciembre (BOE 29 de diciembre de 1994)".
- "Ordenanza general de seguridad e higiene en el trabajo. OM 9 de marzo de 1971 (BOE 16 de marzo de 1971)", en vigor parts del títol II. Derogada parcialment per "R.D. 1316/1989 (BOE 2 de noviembre de 1989)", "Ley 31/1995 (BOE 10 de noviembre de 1995)", R.D. 486/1997 (BOE 23 de abril de 1997)", "R.D. 664/1997 (BOE 24 de mayo de 1997)", "R.D. 665/1997 (BOE 24 de mayo de 1997)", "R.D. 773/1997 (BOE 12 de junio de 1997)", "R.D. 1215/1997 (BOE 7 de agosto de 1997)", "R.D. 614/2001 (BOE 21 de junio de 2001)" i "R.D. 349/2003 (BOE 5 de abril de 2003)".
- "Cuadro de enfermedades profesionales. R.D. 1995/1978 (BOE 25 de agosto de 1978)". Modificada per "R.D. 2821/1981 de 27 de noviembre (BOE 1 de diciembre de 1981)".

- "Regulación de la jornada de trabajo, jornadas especiales y descanso. R.D. 2001/1983 de 28 de julio (BOE 29 de julio de 1983)". Modificada per "R.D. 2403/1985 (BOE 30 de diciembre de 1985)", "R.D. 1346/1989 (BOE 7 de noviembre 1989)" i anul·lada parcialment per "R.D. 1561/1995 de 21 de septiembre (BOE 26 de septiembre de 1995)".

- "Orden de 20 de septiembre de 1986, por la que se establece el modelo de libro de incidencias correspondiente a las obras en las que sea obligatorio un estudio de Seguridad e Higiene en el trabajo (BOE de 13 de octubre de 1986)".

- "Establecimiento de modelos de notificación de accidentes de trabajo. OM 16 de diciembre de 1987 (BOE 29 de diciembre de 1987)".

- "Instrumento de ratificación de 17 de julio de 1990 del Convenio de 24 de junio de 1986 sobre Utilización del asbesto en condiciones de seguridad (número 162 de la OIT), adoptado en Ginebra (BOE de 23 de noviembre de 1990)".

- "Ley de prevención de riesgos laborales. Ley 31/1995 de noviembre (BOE 10 de noviembre de 1995)". Complementada per "R.D. 614/2001 de 8 de junio (BOE 21 de junio de 2001)".

- "Real Decreto 363/1995, de 10 de marzo, por la que se aprueba el reglamento sobre notificación de sustancias nuevas y clasificación, envasado y etiquetado de sustancias peligrosas (BOE de 5 de junio de 1995)".

- "Real Decreto 1561/1995, de 21 de septiembre, sobre jornadas especiales de trabajo (BOE de 26 de septiembre de 1995)".

- "Reglamento de los servicios de prevención. R.D. 39/1997 de 17 de enero (BOE 31 de enero de 1997)". Complementat per "Orden de 22 de abril de 1997 (BOE 24 de abril de 1997)" i "R.D. 688/2005 (BOE 11 de junio de 2006)". Modificat per "R.D. 780/1998 de 30 de abril (BOE 1 de mayo de 1998)" i "R.D. 604/2006 (BOE 29 de mayo de 2006)".

- "Disposiciones mínimas de seguridad y salud en los lugares de trabajo. R.D. 486/1997 de 14 de abril de 1997 (BOE 23 de abril de 1997)". Complementat per "Orden TAS/2947/2007 (BOE 11 de octubre de 2007)" i modificat per "R.D. 2177/2004 (BOE 13 de noviembre de 2004)".

- "Disposiciones mínimas de seguridad y salud relativas a la manipulación manual de cargas que comporten riesgos, en particular dorsolumbares, para los trabajadores. R.D. 487/1997 de 14 de abril de 1997 (BOE 23 de abril de 1997)".

- "Disposiciones mínimas de seguridad y salud para la utilización por los trabajadores de los equipos de trabajo. R.D. 1215/1997 de 18 de julio (BOE 7 de agosto de 1997)".

- "Disposiciones mínimas destinadas a proteger la seguridad y la salud de los trabajadores en las actividades mineras. R.D. 1389/1997 de 5 de septiembre (BOE 7 de octubre de 1997)".

- "Disposiciones mínimas de seguridad y salud en las obras de construcción. R.D. 1627/1997 de 24 de octubre (BOE 25 de octubre de 1997)". Modificat per "R.D. 2177/2004 (BOE 13 de noviembre 2004)" i "R.D. 604/2006 (BOE 29 de mayo de 2006)". Complementat per "R.D. 1109/2007 (BOE 25 de agosto de 2007)".

- Ordre de 12 de gener de 1998, per la qual s'aprova el model de Llibre d'Incidències en les obres de construcció (DOGC Diari Oficial de la Generalitat de Catalunya de 27 de gener de 1998).

- "Disposiciones mínimas de seguridad y salud en el trabajo en el ámbito de las empresas de trabajo temporal. R.D. 216/1999 de 5 de febrero (BOE 24 de febrero de 1999)".

- "Ley 38/1999, de 5 de noviembre, de Ordenación de la Edificación (BOE de 6 de noviembre de 1999)".

- "Protección de la seguridad y la salud de los trabajadores contra los riesgos relacionados con los agentes químicos durante el trabajo. R.D. 374/2001 de 6 de abril (BOE 1 de mayo de 2001)".

- "Real Decreto 379/2001, de 6 de abril, por el que se aprueba el Reglamento de almacenamiento de productos químicos y sus instrucciones técnicas complementarias MIE APQ-1, MIE APQ-2, MIE APQ-3, MIE APQ-4, MIE APQ-5, MIE APQ-6 y MIE APQ-7 (BOE 112 de 10 de mayo de 2001)". Complementat per "R.D. 2016/2004 (BOE 23 de octubre de 2004)".

- "Real Decreto 783/2001, de 6 de julio, por el que se aprueba el Reglamento sobre protección sanitaria contra radiaciones ionizantes (BOE de 26 de julio de 2001)".

- "Ley 54/2003, de 12 de diciembre, de reforma del marco normativo de la prevención de riesgos laborales (BOE de 13 de diciembre de 2003)".

- "Real Decreto 1801/2003, de 26 de diciembre, sobre seguridad general de los productos (BOE 10 de enero de 2004)".

- Real Decreto 171/2004, por el que se desarrolla el artículo 24 de la Ley 31/1995 de prevención de laborales, en materia de coordinación de actividades empresariales (BOE 31 de enero de 2004).

- Decret 399/2004, de 5 d'octubre de 2004, pel qual es crea el registre de delegats i delegades de prevenció i el registre de comitès de seguretat i salut, i es regula el dipòsit de les comunicacions de designació de delegats i delegades de prevenció i de constitució dels comitès de seguretat i salut (DOGC Diari Oficial de la Generalitat de Catalunya de 7 d'octubre de 2004).

- "Real Decreto 2177/2004, de 12 de noviembre, por el que se modifica el R.D. 1215/1997, de 18 de julio, en el que se establecen las disposiciones mínimas de seguridad y salud para la utilización por parte de los trabajadores de los equipos de trabajo, en materia de trabajos temporales en altura (BOE de 13 de noviembre de 2004)".

- "Real Decreto 312/2005, de 18 de marzo, por el que se aprueba la clasificación de los productos de construcción y de los elementos constructivos en función de sus propiedades de reacción y de resistencia frente al fuego".

- "Real Decreto 1311/2005, de 4 de noviembre, sobre la protección de la salud y seguridad de los trabajadores frente a los riesgos derivados o que puedan derivarse de la exposición a vibraciones mecánicas".

- "Real Decreto 551/2006, de 5 de mayo, por el que se regulan las operaciones de transporte de mercancías peligrosas por carretera en territorio español (BOE 113 de 12 de mayo)".

- "Real Decreto 604/2006, de 19 de mayo, por el que se modifican el R.D. 39/1997, de 17 de enero, por el que se aprueba el Reglamento de los Servicios de Prevención, y el R.D. 1627/1997, de 24 de octubre, por el que se establecen las disposiciones mínimas de seguridad y salud en las obras de construcción (BOE 127 de 29 de mayo)".

- "Real Decreto 635/2006, de 26 de mayo, sobre requisitos mínimos de seguridad en los túneles de carreteras del Estado".

- "Ley ordinaria 32/2006 reguladora de la subcontratación en el Sector de la Construcción (BOE 250 de 19 de octubre)".

- "Ley orgánica 3/2007, de 22 de marzo, para la igualdad efectiva de mujeres y hombres (BOE 23 de marzo de 2007)".

- "Real Decreto 1109/2007, de 24 de agosto, por el que se desarrolla la Ley 32/2006, de 18 de octubre, reguladora de la subcontratación en el Sector de la Construcción (BOE 204 de 25 de agosto)".

- Decret 102/2008, de 6 de maig, de creació del Registre d'Empreses Acreditades de Catalunya per intervenir en el procés de contractació en el sector de la construcció (DOGC Diari Oficial de la Generalitat de Catalunya de 08 de maig de 2008).

- "Real Decreto 1802/2008, de 3 de noviembre, por el que se modifica el Reglamento sobre notificación de sustancias nuevas y clasificación, envasado y etiquetado de sustancias peligrosas, aprobado por R.D. 363/1995, de 10 de marzo, con la finalidad de adaptar sus disposiciones al Reglamento (CE) n.º 1907/2006 del Parlamento Europeo y del Consejo (Reglamento REACH)".

- Decret 10/2009, de 27 de gener. Decret de creació del Registre d'empreses sancionades per infraccions molt greus en matèria de prevenció de riscos laborals i del procediment per a la seva publicació (DOGC Diari Oficial de la Generalitat de Catalunya de 03 de febrer de 2009).

- "Real Decreto 298/2009, de 6 de marzo, por el que se modifica el Real Decreto 39/1997, de 17 de enero, por el que se aprueba el Reglamento de los Servicios de Prevención, en relación con la aplicación de medidas para promover la mejora de la seguridad y de la salud en el trabajo de la trabajadora embarazada, que haya dado a luz o en período de lactancia".

- "Real Decreto 330/2009, de 13 de marzo, por el que se modifica el Real Decreto 1311/2005, de 4 de noviembre, sobre la protección de la salud y la seguridad de los trabajadores frente a los riesgos derivados o que puedan derivarse de la exposición a vibraciones mecànicas".

- "Real Decreto 327/2009 de 13 de marzo, por el que se modifica el Real Decreto 1109/2007, de 24 de agosto, por el que se desarrolla la Ley 32/2006, de 18 de octubre,

reguladora de la subcontratación en el sector de la construcción (BOE 63 de 14 de marzo de 2009)".

- "Instrumento de Ratificación del Convenio número 187 de la OIT, sobre el marco promocional para la seguridad y salud en el trabajo, hecho en Ginebra el 31 de mayo de 2006 (BOE 187 de 4 de agosto de 2009)".

- "Real Decreto 337/2010, de 19 de marzo, por el que se modifican el Real Decreto 39/1997, de 17 de enero, por el que se aprueba el Reglamento de los Servicios de Prevención; el Real Decreto 1109/2007, de 24 de agosto, por el que se desarrolla la Ley 32/2006, de 18 de octubre, reguladora de la subcontratación en el sector de la construcción y el Real Decreto 1627/1997, de 24 de octubre, por el que se establecen disposiciones mínimas de seguridad y salud en obras de construcción (BOE 71 de 23 de marzo de 2010)."

- "Reglamento (UE) nº 276/2010 de la Comisión, de 31 de marzo de 2010, por el que se modifica el Reglamento (CE) nº 1907/2006 del Parlamento Europeo y del Consejo, relativo al registro, la evaluación, la autorización y la restricción de las sustancias y preparados químicos (REACH), en lo que respecta a su anexo XVII (diclorometano, aceites para lámparas y líquidos encendedores de barbacoa y compuestos organoestánnicos)."

- "Real Decreto 486/2010, de 23 de abril, sobre la protección de la salud y la seguridad de los trabajadores contra los riesgos relacionados con la exposición a radiaciones ópticas artificiales (BOE 99 de 24 de abril de 2010)."

- "Real Decreto 717/2010, de 28 de mayo, por el que se modifican el Real Decreto 363/1995, de 10 de marzo, por el que se aprueba el Reglamento sobre clasificación, envasado y etiquetado de sustancias peligrosas y el Real Decreto 255/2003, de 28 de febrero, por el que se aprueba el Reglamento sobre clasificación, envasado y etiquetado de preparados peligrosos (BOE 139 de 8 de junio de 2010)."

- "Real Decreto 795/2010, de 16 de junio, por el que se regula la comercialización y manipulación de gases fluorados y equipos basados en los mismos, así como la certificación de los profesionales que los utilizan (BOE 154 de 25 de junio de 2010)."

- "Real Decreto 1439/2010, de 5 de noviembre, por el que se modifica el Reglamento sobre protección sanitaria contra radiaciones ionizantes, aprobado por Real Decreto 783/2001, de 6 de julio (BOE 279 de 18 de novimebre de 2010)."

- "Real Decreto 843/2011, de 17 de junio, por el que se establecen los criterios básicos sobre la organización de recursos para desarrollar la actividad sanitaria de los servicios de prevención."

- "Ley 22/2011, de 28 de julio, de residuos y suelos contaminados."

- "Ley 33/2011, de 4 de octubre, General de Salud Pública."

- "Real Decreto Legislativo 3/2011, de 14 de noviembre, por el que se aprueba el texto refundido de la Ley de Contratos del Sector Público."

4.2. Condicions ambientals

- Ordre de 27 de juny de 1985, sobre inscripció d'empreses amb risc per amiant (DOGC Diari Oficial de la Generalitat de Catalunya de 05 d'agost de 1985).

- Ordre de 30 de juny de 1987, sobre registre de dades de control de l'ambient laboral i vigilància mèdica en empreses amb risc d'amiant (DOGC Diari Oficial de la Generalitat de Catalunya de 10 de juliol de 1987).

- "Real Decreto 108/1991, de 1 de febrero, sobre la prevención y reducción de la contaminación del medio ambiente producida por el amianto (BOE de 6 de febrero de 1991)".

- "Real Decreto 664/1997, de 12 de mayo, sobre la protección de los trabajadores contra los riesgos relacionados con la exposición a agentes biológicos durante el trabajo (BOE de 24 de mayo de 1997)". Modificat per "Orden de 25 de marzo de 1998".

- "Real Decreto 665/1997, de 12 de mayo, sobre la protección de los trabajadores contra los riesgos relacionados con la exposición a agentes cancerígenos durante el trabajo (BOE de 24 de mayo de 1997)". Modificat per "Real Decreto 1124/2000 (BOE de 17 de junio de 2000)" i "Real Decreto 349/2003 (BOE de 5 de abril de 2003)".

- "Real decreto 212/2002, de 22 de febrero de 2002, por el que se regulan las emisiones sonoras en el entorno debidas a determinadas máquinas de uso al aire libre (BOE de 1 de marzo de 2002)". Modificat per "Real Decreto 524/2006 (BOE de 4 de mayo de 2006)".

- "Real Decreto 681/2003, de 12 de junio, sobre la protección de la salud y la seguridad de los trabajadores expuestos a los riesgos derivados de atmósferas explosivas en el lugar de trabajo (BOE de 18 de junio de 2003).

- "Ley ordinaria 37/2003 del Ruido de 17 de noviembre (BOE de 18 noviembre de2003)". Desenvolupada per "Real Decreto 1513/2005 (BOE de 17 de diciembre de 2005)" i "Real Decreto 1367/2007 (BOE de 23 de octubre 2007)".

- "Protección de los trabajadores ante los riesgos derivados de la exposición al ruido durante el trabajo. Real Decreto 286/2006, de 10 de marzo, sobre la protección de la salud y seguridad de los trabajadores contra los riesgos relacionados con la exposición al ruido. (BOE 11 de marzo de 2006)".

- "Real decreto 1367/2007, de 19 de octubre, por el que se desarrolla la Ley 37/2003, de 17 de noviembre, del Ruido, en lo referente a zonificación acústica, objetivos de calidad y emisiones acústicas (BOE de 23 de octubre de 2007)".

- "Ley 34/2007, de 15 de noviembre, de calidad del aire y protección de la atmósfera (BOE de 16 de noviembre de 2007)".

4.3. Incendis

- Ordenances municipals.
- "Real Decreto 1942/1993, de 5 de noviembre, por el que se aprueba el Reglamento de Instalaciones de Protección Contra Incendios (RIPCI) (BOE de 14 de diciembre de 1993)". Complementat per "Orden de 16 de abril de 1998 (BOE de 28 de abril de 1998)" i "Orden de 27 de julio de 1999 (BOE de 5 de agosto de 1999)".
- Decret 64/1995, de 7 de març, pel qual s'estableixen mesures de prevenció d'incendis forestals (DOGC Diari Oficial de la Generalitat de Catalunya de 10 de març de 1995) i desenvolupada per Ordre MAB/62/2003 (DOGC Diari Oficial de la Generalitat de Catalunya de 24 de Febrer de 2003).
- "Real decreto 110/2008, de 1 de febrero, por el que se modifica el Real Decreto 312/2005 de 18 de marzo, por el que se aprueba la clasificación de los productos de construcción y de los elementos constructivos en función de sus propiedades de reacción y de resistencia frente al fuego. BOE núm. 37 de 12 de febrero".

4.4. Instal·lacions elèctriques

- "Reglamento de líneas aéreas de alta tensión. R.D. 3151/1968 de 28 de noviembre (BOE 27de diciembre de 1968)". Rectificat: "BOE 8 de marzo de 1969". Es deroga amb efectes de 19 de setembre de 2010, per "R.D. 223/2008 (BOE 19 de marzo de 2008)".
- "Orden de 18 de julio de 1978, por la que se aprueba la Norma Tecnológica NTE-IEE/1978, "Instalaciones de electricidad: alumbrado exterior" (BOE de 12 de agosto de 1978)".
- Resolució de 4 de novembre de 1988, per la qual s'estableix un certificat sobre compliment de les distàncies reglamentàries d'obres i construccions a línies elèctriques (DOGC Diari Oficial de la Generalitat de Catalunya de 30 de novembre de 1988).
- "Ley 54/1997, de 27 de noviembre de 1997, del Sector Eléctrico (BOE de 28 de noviembre de 1997)". Complementada per "Real Decreto 1955/2000 (BOE de 27 de diciembre de 2000)".
- Llei 6/2001, de 31 de maig, d'ordenació ambiental de l'enllumenament per a la protecció del medi nocturn (DOGC Diari Oficial de la Generalitat de Catalunya de 12 de juny de 2001).
- "Real Decreto 614/2001, de 8 de junio, sobre disposiciones mínimas para la protección de la salud y seguridad de los trabajadores frente al riesgo eléctrico (BOE de 21 de junio de 2001)".
- Decret 329/2001, de 4 de desembre, pel qual s'aprova el Reglament del subministrament elèctric (DOGC Diari Oficial de la Generalitat de Catalunya de 18 de desembre de 2001).
- "Reglamento electrotécnico de baja tensión. R.D. 842/2002 de 2 de agosto (BOE de 18 de septiembre de 2002)".

- "Sentencia de 17 de febrero de 2004, de la Sala Tercera del Tribunal Supremo, por la que se anula el inciso 4.2.c.2 de la ITC-BT-03 anexa al Reglamento Electrónico para baja tensión, aprobado por Real Decreto 842/2002, de 2 de agosto".

- "Real decreto 223/2008, de 15 de febrero, del Ministerio de Industria, Turismo y Comercio por el que se aprueban el Reglamento sobre condiciones técnicas y garantías de seguridad en líneas eléctricas de alta tensión y sus instrucciones técnicas complementarias ITC-LAT 01 a 09 (BOE de 19 de marzo de 2008)".

- "Instrucciones Técnicas Complementarias del Reglamento electrotécnico de baja tensión: ITC-BT-09 Instalaciones de alumbrado exterior e ITC-BT-33 Instalaciones provisionales y temporales de obras".

4.5. Equips i maquinària

- "Orden de 30 de julio de 1974, por la que se determinan las condiciones que deben reunir los aparatos elevadores de propulsión hidráulica y las normas para la aprobación de sus equipos impulsores (BOE de 9 de agosto de 1974)".

- "Orden de 23 de mayo de 1977, por la que se aprueba el Reglamento de Aparatos Elevadores para obras (BOE de 14 de junio de 1977". Modificada per "Orden de 7 de marzo de 1981 (BOE de 14 de marzo de 1981)". Es deroga amb efectes de 29 de desembre de 2009, per "Real Decreto 1644/2008 (BOE de 11 de octubre de 2008)".

- "Reglamento de recipientes a presión. R.D. 1244/1979 de 4 de abril (BOE de 29 de mayo de 1979)". Modificat per "R.D. 507/1982 (BOE de 12 de marzo de 1982)" i "R.D. 1504/1990 (BOE de 28 de noviembre de 1990)".

- "Reglamento de aparatos de elevación y su mantenimiento. R.D. 2291/1985 de 8 de noviembre (BOE de 11 de diciembre de 1985)". Derogat parcialment per "R.D. 1314/1997 (BOE de 30 de septiembre de 1997)".

- "Real Decreto 474/1988, de 30 de marzo, por el que se dictan las disposiciones de aplicación de la Directiva del Consejo de las Comunidades Europeas 84/528/CEE sobre aparatos elevadores y de manejo mecánico (BOE de 20 de mayo de 1988)".

- "Real Decreto 1435/1992, de 27 de noviembre, por el que se dictan las disposiciones de aplicación de la Directiva del Consejo 89/392/CEE, relativa a la aproximación de las legislaciones de los estados miembros sobre maquinas (BOE de 11 de diciembre de 1992)". Modificat per "Real Decreto 56/1995 (BOE de 8 de febrero de 1995)". Es deroga amb efecte de 29 de desembre de 2009, per "Real Decreto 1644/2008 (BOE de 11 de octubre de 2008)".

- "Resolución de 3 abril de 1997, de la Dirección General de Tecnología y Seguridad Industrial por la que se autoriza la instalación de ascensores sin cuarto de máquinas (BOE de 23 de abril de 1997)".

- "Real Decreto 488/1997, de 14 de abril, sobre disposiciones mínimas de seguridad y salud relativas al trabajo con equipos que incluyen pantallas de visualización (BOE de 23 de abril de 1997)".

- "Disposiciones mínimas de seguridad y salud relativas a la utilización por los trabajadores de equipos de protección Individual. RD 773/1997 de 30 de mayo (BOE 12 de junio de 1997)".

- "Real Decreto 1215/1997, de 18 de julio por el que se establecen las disposiciones mínimas de seguridad y salud para la utilización por los trabajadores de los equipos de trabajo (BOE de 7 de agosto de 1997)". Modificat per "Real Decreto 2177/2004 (BOE de 13 de noviembre de 2004)".

- "Real Decreto 1314/1997, de 1 de agosto, por el que se dictan las disposiciones de aplicación de la Directiva del Parlamento Europeo y del Consejo 95/16/CE, sobre ascensores (BOE de 30 de septiembre de 1997)". Complementat per "Real Decreto 1644/2008 (BOE de 11 de octubre de 2008)".

- "Resolución de 10 de septiembre de 1998, de la Dirección General de Tecnología y Seguridad Industrial, por la que se autoriza la Instalación de ascensores con máquinas en foso (BOE de 25 septiembre de 1998)".

- "Real decreto 769/1999, de 7 de mayo, por el cual se dictan las disposiciones de aplicación de la Directiva del Parlamento Europeo y del Consejo, 97/23/CE, relativa a los equipos de presión, y se modifica el Real decreto 1244/1979, de 4 de abril, que aprobó el Reglamento de aparatos de presión (BOE de 31 de mayo de 1999)".

- "Real Decreto 1849/2000, de 10 de noviembre, del Reglamento de seguridad en las máquinas, por el que se derogan diferentes disposiciones en materia de normalización y homologación de productos industriales (BOE de 2 de diciembre de 2000)".

- "Real Decreto 2177/2004, de 12 de noviembre, por el que se modifica el Real Decreto 1215/1997, de 18 de julio, por el que se establecen las disposiciones mínimas de seguridad y salud para la utilización por los trabajadores de los equipos de trabajo, en materia de trabajos temporales en altura (BOE de 13 de noviembre de 2004)".

- "Real Decreto 1311/2005, de 4 de noviembre de 2005, sobre la protección de la salud y la seguridad de los trabajadores frente a los riesgos derivados o que puedan derivarse de la exposición a vibraciones mecánicas (BOE de 5 de noviembre de 2005)".

- "Real Decreto 1388/2011, de 14 de octubre, por el que se dictan las disposiciones de aplicación de la Directiva 2010/35/UE del Parlamento Europeo y del Consejo de 16 de junio de 2010 sobre equipos a presión transportables y por la que se derogan las Directivas 76/767/CEE, 84/525/CEE, 84/526/CEE, 84/527/CEE y 1999/36/CE."

- Instruccions Tècniques Complementàries:

"ITC – MIE - AP5 del Reglamento de Aparatos a Presión "Extintores de incendio" Orden de 31 de mayo de 1982 (BOE de 23 de junio de 1982)". Modificació: "Orden de 26 de octubre de 1983 (BOE de 7 de noviembre de 1983)", "Orden de 31 de mayo de 1985 (BOE de 20 de junio de 1985)", "Orden de 15 de

noviembre de 1989 (BOE de 28 de noviembre de 1989)" i "Orden de 10 de marzo de 1998 (BOE de 28 de abril de 1998)".

"ITC – MIE – AEM1: Ascensores electromecánicos. OM 23 de septiembre de 1987 (BOE 6 de octubre de 1987)". Modificació: "Orden de 11 de octubre de 1988 (BOE 21 de octubre de 1988)". "Autorización de instalación de ascensores con máquina en foso. Resolución de 10 de septiembre de 1998 (BOE 25 de septiembre de 1998)". "Autorización de la instalación de ascensores sin cuarto de máquinas. Resolución de 3 de abril de 1997 (BOE de 23 de abril de 1997)".

"ITC – MIE – AEM2: Grúas torre desmontables para obras. RD 836/2003 de 27 de mayo de 2003 (BOE 17 de julio de 2003)".

"ITC – MIE – AEM3: Carretas automotrices de manutención. OM. 26 de mayo de 1989 (BOE 9 de junio de 1989)".

"ITC – MIE – AEM4: Reglamento de aparatos de elevación y manutención, referentes a grúas móviles autopropulsadas. RD 837/2003 de 27 de mayo de 2003 (BOE 17 de julio de 2003)".

"ITC - MIE - MSG1: Máquinas, elementos de máquinas o sistemas de protección utilizados. OM. 8 de abril de 1991 (BOE 11 de abril de 1991)".

"Norma UNE-58921-IN Instrucciones para la instalación, manejo, mantenimiento, revisiones e inspecciones de las plataformas elevadoras móviles de personal (PEMP)".

4.6. Equips de protecció individual

- "Comercialización y libre circulación intracomunitaria de los equipos de protección individual. R.D. 1407/1992 de 20 de noviembre (BOE 28 de diciembre de 1992)". Modificat per "OM de 16 de mayo de 1994", per "R.D. 159/1995 de 3 de febrero (BOE 8 de marzo de 1995)" i per la "Resolución de 27 de mayo de 2002 (BOE 4 de julio de 2002)". Complementat per la "Resolución de 25 de abril de 1996 (BOE de 28 de mayo de 1996)", "Resolución de 18 de marzo de 1998 (BOE de 22 de abril de 1998)", "Resolución de 29 de abril de 1999 (BOE de 29 de junio de 1999)", "Resolución de 28 de julio de 2000 (BOE de 8 de septiembre de 2000)" i "Resolución de 7 de septiembre de 2001 (BOE de 27 de septiembre de 2001)".

- "Real Decreto 159/1995, de 3 de febrero , por el que se modifica el Real Decreto 1407/1992, de 20 de noviembre, por el que se regula las condiciones para la comercialización y libre circulación intracomunitaria de los equipos de protección individual (BOE de 8 de marzo de 1995) modificado por Orden de 20 de febrero de 1997 (BOE de 6 de marzo de 1997)".

- "R.D. 773/1997 de 30 de mayo, sobre disposiciones mínimas de seguridad y salud relativas a la utilización por los trabajadores de equipos de protección individual".

- "Decisión de la Comisión, de 16 de marzo de 2006, relativa a la publicación de las referencias de la norma EN 143:2000, Equipos de protección respiratoria. Filtros contra partículas. Requisitos, ensayos, marcado, de conformidad con la Directiva 89/686/CEE del Consejo (equipos de protección individual) [notificada con el número C(2006) 777]".

- Normes Tècniques Reglamentàries.

4.7. Senyalització

- "Disposiciones mínimas en materia de señalización de seguridad y salud en el trabajo. R.D. 485/1997 (BOE 23 de abril de 1997)".
- "Orden de 31 de agosto de 1987 sobre Señalización, balizamiento, defensa, limpieza y terminación de obras fijas en vías fuera de poblado (BOE de 18 de septiembre de 1987)".
- Normes sobre senyalització d'obres en carreteres. "Instrucción 8.3. IC del MOPU".

4.8. Diversos

- "Orden de 20 de marzo de 1986 por la que se aprueban determinadas Instrucciones técnicas complementarias, relativas a los capítulos IV, V, IX y X del Reglamento General de Normas Básicas de Seguridad Minera (BOE de 11 de abril de 1986)". Modificada per "Orden de 29 de abril de 1987 (BOE de 13 de mayo de 1987)" i "Orden de 29 de julio de 1994 (BOE de 16 de agosto de 1994)".
- "Orden de 20 de junio de 1986 sobre Catalogación y Homologación de los explosivos, productos explosivos y sus accesorios (BOE de 1 de julio de 1986)".
- "Real Decreto 230/1998, de 16 de febrero, por el que se aprueba el Reglamento de explosivos (BOE de 12 de marzo de 1998)". Modificat per "Real Decreto 277/2005 (BOE de 12 de marzo de 2005)" i "Orden INT/3543/2007 (BOE núm. 292 de 6 de diciembre de 2007)". Complementada per la "Resolución de 24 de agosto de 2005 (BOE de 13 de septiembre de 2005)", "Orden PRE/252/2006 (BOE de 9 de febrero de 2006)", "Orden PRE/672/2006 (BOE de 11 de marzo de 2006)" i "Orden PRE/174/2007 (BOE de 3 de febrero de 2007)".
- "Orden de 16 de diciembre de 1987 por la que se establecen nuevos modelos para la notificación de accidentes de trabajo y se dan instrucciones para su cumplimentación y tramitación (BOE de 29 de diciembre de 1987)". Modificada per "Orden TAS/2926/2002 (BOE de 21 de noviembre de 2002)".
- "Orden de 6 de mayo de 1988, por la que se modifica (i deroga) la Orden de 6 de octubre de 1986 sobre los requisitos y datos que deben reunir las comunicaciones de apertura previa o reanudacion de actividades en los centros de trabajo, dictada en desarrollo del Real Decreto-Ley 1/1986, de 14 de marzo (BOE de 16 de mayo de 1988)". Modificada per la "Orden de 29 de abril de 1999 (BOE de 25 de mayo de 1999)".
- "Real Decreto 1299/2006, de 10 de noviembre por el que se aprueba el cuadro de enfermedades profesionales en el sistema de la Seguridad Social y se establecen criterios para su notificación y registro (BOE de 19 de diciembre de 2006)". Complementat per "Orden TAS/1/2007 (BOE de 4 de enero de 2007)".

- "Resolución de 1 de agosto de 2007, de la Dirección General de Trabajo, por la que se inscribe en el registro y publica el IV Convenio Colectivo General del Sector de la Construcción (BOE de 17 de agosto de 2007)".
- Convenis col·lectius.
- "Real Decreto 1591/2009, de 16 de octubre, por el que se regulan los productos sanitarios (BOE 268 de 6 de noviembre de 2009)."
- "Real Decreto 248/2010, de 5 de marzo, por el que se modifica el Reglamento de explosivos, aprobados por Real Decreto 230/1998, de 16 de febrero, para adaptarlo a lo dispuesto en la Ley 17/2009, de 23 de noviembre, sobre el libre acceso a las actividades de servicios y su ejercicio (BOE 67 de 18 de marzo de 2010)."

5. CONDICIONS ECONÒMIQUES

5.1. Criteris d'aplicació

L' Art. 5, 4 del R.D. 1627 / 1997, de 24 d'octubre, manté per al sector de la construcció, la necessitat d'estimar l'aplicació de la Seguretat i Salut com un cost ''afegit'' a l'Estudi de Seguretat i Salut, i per conseqüent, incorporat al Projecte.

El pressupost per a l'aplicació i execució de l'estudi de Seguretat i Salut, haurà de quantificar el conjunt de ''despeses'' previstes, tant pel que es refereix a la suma total com a la valoració unitària d'elements, amb referència al quadre de preus sobre el que es calcula. Sols podran figurar partides alçades en els casos d'elements o operacions de difícil previsió.

Els amidaments, qualitats i valoració recollides en el pressupost de l'Estudi de Seguretat i Salut podran ser modificades o substituïdes per alternatives proposades pel Contractista en el seu Pla de Seguretat i Salut, prèvia justificació tècnica degudament motivada, sempre que això no suposi disminució de l'import total ni dels nivells de protecció continguts en l'Estudi de Seguretat i Salut. A aquests efectes, el pressupost del E.S.S. haurà d'anar incorporant al pressupost general de l'obra com un capítol més del mateix.

La tendència a integrar la Seguretat i Salut (pressupost de Seguretat i Salut = 0), es contempla en el mateix cos legal quan el legislador indica que, no s'inclouran en el pressupost de l'Estudi de Seguretat i Salut els costos exigits per la correcta execució professional dels treballs, conforme a les normes reglamentàries en vigor i els criteris tècnics generalment admesos, emanats dels organismes especialitzats. Aquest criteri es l'aplicat en el present E.S.S. en l'apartat relatiu a Medis Auxiliars d'Utilitat Preventiva (MAUP).

5.2. Certificació del pressupost del Pla de Seguretat i Salut

Si bé el Pressupost de Seguretat, amb criteris de ''Seguretat Integrada'' hauria d'estar inclòs en les partides del Projecte, de forma no segregable, per les obres de Construcció, es precisa l'establiment d'un criteri respecte a la certificació de les partides contemplades en el pressupost del Pla de Seguretat i Salut del Contractista per cada obra.

El pressupost de seguretat i salut s'abonarà d'acord amb el que indiqui el corresponent contracte d'obra.

5.3. Revisió de preus del Pla de Seguretat i Salut

Els preus aprovats pel Coordinador de Seguretat i Salut continguts en el Pla de Seguretat i Salut del Contractista, es mantindrà durant la totalitat de l'execució material de les obres.

Excepcionalment, quan el contracte s'hagi executat en un 20% i transcorregut com a mínim un any des de la seva adjudicació, podrà contemplar-se la possibilitat de revisió de preus del pressupost de Seguretat, mitjançant els índexs o fórmules de caràcter oficial que determini l'òrgan de contractació, en els terminis contemplats en el Títol IV del R.D. Legislatiu 2 / 2002, de 16 de juny, pel que s'aprova el text refós de la Llei de Contractes de les Administracions Públiques.

5.4. Penalitzacions per incompliment en matèria de Seguretat

La reiteració d'incompliments en l'aplicació dels compromisos adquirits en el Pla de Seguretat i Salut, a criteri per unanimitat del Coordinador de Seguretat i Salut i dels restants components de la Direcció d'Obra o Direcció Facultativa, per acció u omissió del personal propi i/o Subcontractistes i Treballadors Autònoms contractats per ell, duran aparellats conseqüentment per el Contractista, les següents Penalitzacions:

1.-	MOLT LLEU	:	3% del Benefici Industrial de l'obra contractada
2.-	LLEU	:	20% del Benefici Industrial de l'obra contractada
3.-	GREU	:	75% del Benefici Industrial de l'obra contractada
4.-	MOLT GREU	:	75% del Benefici Industrial de l'obra contractada
5.-	GRAVÍSSIM	:	Paralització dels treballadors +100% del Benefici Industrial de l'obra contractada + Pèrdua d'homologació com Contractista, per la mateixa Propietat, durant 2 anys.

6. CONDICIONS TÈCNIQUES GENERALS DE SEGURETAT

6.1. Previsions del Contractista a l'aplicació de les Tècniques de Seguretat

La Prevenció de la Sinistralitat Laboral, pretén aconseguir uns objectius concrets, en el nostre cas, detectar i corregir els riscos d'accidents laborals.

El Contractista Principal haurà de reflectir al seu Pla de Seguretat i Salut la manera concreta de desenvolupar les Tècniques de Seguretat i Salut i com les aplicarà en aquesta obra.

Tot seguit s'anomenen a títol orientatiu una sèrie de descripcions de les diferents Tècniques Analítiques i Operatives de Seguretat:

– **Tècniques analítiques de seguretat**

Les Tècniques Analítiques de Seguretat i Salut tenen com a objectiu exclusiu la detecció de riscos i la recerca de les causes.

Prèvies als accidents.-

- Inspeccions de seguretat.
- Anàlisi de treball.
- Anàlisi Estadística de la sinistralitat.
- Anàlisi del entorn de treball.

Posteriors als accidents.-

- Notificació d'accidents.
- Registre d'accidents
    - Investigació Tècnica d'Accidents.

– **Tècniques operatives de seguretat.**

Les Tècniques Operatives de Seguretat i Salut pretenen eliminar les Causes i a través d'aquestes corregir el Risc

Segons que l'objectiu de l'acció correctora hagi d'operar sobre la conducta humana o sobre els factors perillosos mesurats, el Contractista haurà de demostrar al seu Pla de Seguretat i Salut i Higiene que té desenvolupat un sistema d'aplicació de Tècniques Operatives sobre

El Factor Tècnic:

- Sistemes de Seguretat
- Proteccions col·lectives i Resguards
- Manteniment Preventiu
- Proteccions Personals

- Normes
- Senyalització

El Factor Humà:

- Test de Selecció prelaboral del personal.
- Reconeixements Mèdics prelaborals.
- Formació
- Aprenentatge
- Propaganda
- Acció de grup
- Disciplina
- Incentius

6.2. Condicions Tècniques del Control de Qualitat de la Prevenció

El Contractista inclourà a les Empreses Subcontractades i treballadors Autònoms, lligats amb ell contractualment, en el desenvolupament del seu Pla de Seguretat i Salut; haurà d'incloure els documents tipus en el seu format real, així com els procediments de complimentació fets servir a la seva estructura empresarial, per a controlar la qualitat de la Prevenció de la Sinistralitat Laboral. Aportem al present Estudi de Seguretat, a títol de guia, l'enunciat dels més importants:

- Programa implantat a l'empresa, de Qualitat Total o el reglamentari Pla d'Acció Preventiva.
- Programa Bàsic de Formació Preventiva estandarditzat pel Contractista Principal
- Formats documentals i procediments de complimentació, integrats a l'estructura de gestió empresarial, relatius al Control Administratiu de la Prevenció.
- Comitè i/o Comissions vinculats a la Prevenció
- Documents vinculants, actes i/o memoràndums.
- Manuals i/o Procediments Segurs de Treball, d'ordre intern d'empresa
- Control de Qualitat de Seguretat del Producte.

6.3. Condicions Tècniques dels Òrgans de l'Empresa Contractista competents en matèria de Seguretat i Salut

El comitè o les persones encarregades de la promoció, coordinació i vigilància de la Seguretat i Salut de l'obra seran almenys els mínims establerts per la normativa vigent pel cas concret de l'obra de referència, assenyalant-se específicament al Pla de Seguretat, la seva relació amb l'organigrama general de Seguretat i Salut de l'empresa adjudicatària de les obres.

El Contractista acreditarà l'existència d'un Servei Tècnic de Seguretat i Salut (propi o concertat) com a departament staff depenent de l'Alta Direcció de l'Empresa Contractista, dotat dels recursos, medis i qualificació necessària conforme al R.D. 39 /1997 ''Reglamento de los Servicios de Prevención''. En tot cas el constructor comptarà amb l'ajut del Departament Tècnic de Seguretat i Salut de la Mútua d'Accidents de Treball amb la que tingui establerta pòlissa.

El Coordinador de Seguretat i Salut podrà vedar la participació en aquesta obra del Delegat Sindical de Prevenció que no reuneixi, al seu criteri, la capacitació tècnica preventiva pel correcte compliment de la seva important missió.

L'empresari Contractista com a màxim responsable de la Seguretat i Salut de la seva empresa, haurà de fixar els àmbits de competència funcional dels Delegats Sindicals de Prevenció en aquesta obra.

L'obra disposarà de Tècnic de Seguretat i Salut (propi o concertat) a temps parcial, que assessori als responsables tècnics (i conseqüentment de seguretat) de l'empresa constructora en matèria preventiva, així com una Brigada de reposició i manteniment de les proteccions de seguretat, amb indicació de la seva composició i temps de dedicació a aquestes funcions.

6.4. Obligacions de l'Empresa Contractista competent en matèria de Medicina del Treball

El Servei de Medicina del Treball integrat en el Servei de Prevenció, o en el seu cas, el Quadre Facultatiu competent, d'acord amb la reglamentació oficial, serà l'encarregat de vetllar per les condicions higièniques que haurà de reunir el centre de treball.

Respecte a les instal·lacions mèdiques a l'obra existiran almenys una farmaciola d'urgència, que estarà degudament assenyalada i contindrà allò disposat a la normativa vigent i es revisarà periòdicament el control d'existències.

Al Pla de Seguretat i Salut i Higiene el contractista principal desenvoluparà l'organigrama així com les funcions i competències de la seva estructura en Medicina Preventiva.

Tot el personal de l'obra (Propi, Subcontractat o Autònom), amb independència del termini de durada de les condicions particulars de la seva contractació, haurà d'haver passat un reconeixement mèdic d'ingrés i estar classificat d'acord amb les seves condicions psicofísiques.

Independentment del reconeixement d'ingrés, s'haurà de fer a tots els treballadors del Centre de Treball (propis i Subcontractats), segons ve assenyalat a la vigent reglamentació al respecte, com a mínim un reconeixement periòdic anual.

Paral·lelament l'equip mèdic del Servei de Prevenció de l'empresa (Propi, Mancomunat, o assistit per Mútua d'Accidents) haurà d'establir al Pla de Seguretat i Salut un programa d'actuació cronològica a les matèries de la seva competència:

- Higiene i Prevenció al treball.
- Medicina preventiva dels treballadors.
- Assistència Mèdica.
- Educació sanitària i preventiva dels treballadors.
- Participació en comitè de Seguretat i Salut.
- Organització i posta al dia del fitxer i arxiu de medicina d'Empresa.

6.5. Competències dels Col·laboradors Prevencionistes a l'obra

D'acord amb les necessitats de disposar d'un interlocutor alternatiu en absència del Cap d'Obra es nomenarà un Supervisor de Seguretat i Salut (equivalent a l'antic Vigilant de Seguretat), considerant-se en principi l'Encarregat General de l'obra, com a persona més adient per a complir-ho, en absència d'un altre treballador més qualificat en aquests treballs a criteri del Contractista. El seu nomenament es formalitzarà per escrit i es notificarà al Coordinador de Seguretat.

S'anomenarà un Socorrista, preferiblement amb coneixements en Primers Auxilis, amb la missió de realitzar petites cures i organitzar l'evacuació dels accidentats als centres assistencials que correspongui que a més a més serà l'encarregat del control de la dotació de la farmaciola.

A efectes pràctics, i amb independència del Comitè de Seguretat i Salut, si la importància de l'obra ho aconsella, es constituirà a peu d'obra una ‘‘Comissió Tècnica Interempresarial de Responsables de Seguretat‘‘, integrat pels màxims Responsables Tècnics de les Empreses participants a cada fase d'obra, aquesta ‘‘comissió‘‘ es reunirà com a mínim mensualment, i serà presidida pel Cap d'Obra del Contractista, amb l'assessorament del seu Servei de Prevenció (propi o concertat).

6.6. Competències de Formació en Seguretat a l'obra

El Contractista haurà d'establir al Pla de Seguretat i Salut un programa d'actuació que reflecteixi un sistema d'entrenament inicial bàsic de tots els treballadors nous. El mateix criteri es seguirà si són traslladats a un nou lloc de treball, o ingressin com a operadors de màquines, vehicles o aparells d'elevació.

S'efectuarà entre el personal la formació adequada per assegurar el correcte ús dels medis posats al seu abast per millorar el seu rendiment, qualitat i seguretat del seu treball.

7. PLEC DE CONDICIONS TÈCNIQUES ESPECÍFIQUES DE SEGURETAT DELS EQUIPS, MÀQUINES I/O MÀQUINES-FERRAMENTES

7.1. Definició i característiques dels Equips, Màquines i/o Màquines-Ferramentes

- **Definició**

És un conjunt de peces o òrgans units entre si, dels quals un al menys és mòbil i, en el seu cas, d'òrgans d'accionament, circuits de comandament i de potència, etc., associats de forma solidària per a una aplicació determinada, en particular destinada a la transformació, tractament, desplaçament i accionament d'un material.

El terme equip i/o màquina també cobreix:

- Un conjunt de màquines que estiguin disposades i siguin accionades per a funcionar solidàriament.
- Un mateix equip intercanviable, que modifiqui la funció d'una màquina, que es comercialitza en condicions que permetin al propi operador, acoblar a una màquina, a una sèrie d'elles o a un tractor, sempre que aquest equip no sigui una peça de recanvi o una ferramenta.

Quan l'equip, màquina i/o màquina ferramenta disposi de components de seguretat que es comercialitzin per separat per a garantir una funció de seguretat en el seu ús normal, aquests adquireixen als efectes del present Estudi de Seguretat i Salut la consideració de Mitjà Auxiliar d'Utilitat Preventiva (MAUP).

- **Característiques**

Els equips de treball i màquines aniran acompanyats d'unes instruccions d'utilització, esteses pel fabricant o importador, en les quals figuraran les especificacions de manutenció, instal·lació i utilització, així con les normes de seguretat i qualsevol altra instrucció que de forma específica siguin exigides en les corresponents Instruccions Tècniques Complementàries (ITC), les quals inclouran els plànols i esquemes necessaris per al manteniment i verificació tècnica, estant ajustats a les normes UNE que li siguin d'aplicació. Portaran a més a més, una placa de material durador i fixada amb solidesa en lloc ben visible, en la qual figuraran, com a mínim, les següents dades:

- Nom del fabricant.
- Any de fabricació, importació i/o subministrament.
- Tipus i número de fabricació.
- Potència en Kw.
- Contrasenya d'homologació CE i certificat de seguretat d'ús d'entitat acreditada, si procedeix.

7.2. Condicions d'elecció, utilització, emmagatzematge i manteniment dels Equips, Màquines i/o Màquines-Ferramentes

- **Elecció d'un Equip**

Els Equips, Màquines i/o Màquines Ferramentes hauran de seleccionar-se en base a uns criteris de garanties de Seguretat per als seus operadors i respecte al seu Medi Ambient de Treball.

- **Condicions d'utilització dels Equips, Màquines i/o Màquines ferramentes**

Són les contemplades en l'Annex II del R.D. 1215, de 18 de juliol sobre ''Disposicions mínimes de Seguretat i Salut per a la utilització pels treballadors dels Equips de treball'':

- **Emmagatzematge i manteniment**

  - Se seguiran escrupolosament les recomanacions d'emmagatzematge i esment, fixats pel fabricant i contingudes en la seva ''Guia de manteniment preventiu''.
  - Es reemplaçaran els elements, es netejaran, engreixaran, pintaran, ajustaran i es col·locaran en el lloc assignat, seguint les instruccions del fabricant.
  - S'emmagatzemaran en compartiments amplis i secs, amb temperatures compreses entre 15 i 25ºC.
  - L'emmagatzematge, control d'estat d'utilització i els lliuraments d'Equips estaran documentades i custodiades, amb justificant de recepció de conformitat, lliurament i rebut, per un responsable tècnic, delegat per l'usuari.

7.3. Normativa aplicable

- **Directives comunitàries relatives a la seguretat de les màquines, transposicions i dates d'entrada en vigor**

Sobre comercialització i/o posada en servei en la Unió Europea

Directiva fonamental.

- Directiva del Consell 89/392/CEE, de 14/06/89, relativa a l'aproximació de les legislacions dels Estats membres sobre màquines (D.O.C.E. Núm. L 183, de 29/6/89), modificada per les Directives del Consell 91/368/CEE, de 20/6/91 (D.O.C.E. Núm. L 198, de 22/7/91), 93/44/CEE, de 14/6/93 (D.O.C.E. Núm. L 175, de 19/7/93) i 93/68/CEE, de 22/7/93 (D.O.C.E. Núm. L 220, de 30/8/93). Aquestes 4 directives s'han codificat en un sols text mitjançant la Directiva 98/37/CE (D.O.C.E. Núm. L 207, de 23/7/98).

Transposada pel Reial Decret 1435/1992, de 27 de novembre (B.O.E. d'11/12/92), modificat pel Reial Decret 56/1995, de 20 de gener (B.O.E. de 8/2/95).

Entrada en vigor del R.D. 1435/1992: l'1/1/93, amb període transitori fins l'1/1/95.

Entrada en vigor del R.D. 56/1995: el 9/2/95.

Excepcions:

- Carretons automotors de manutenció: l'1/7/95, amb període transitori fins l'1/1/96.
- Màquines per a elevació o desplaçament de persones: el 9/2/95, amb període transitori fins l'1/1/97.

- Components de seguretat (inclou ROPS i FOPS, vegeu la Comunicació de la Comissió 94/C253/03 -D.O.C.E. ISP C253, de 10/9/94): el 9/2/95, amb període transitori fins l'1/1/97.

- Marcat: el 9/2/95, amb període transitori fins l'1/1/97.

Altres Directives.

- Directiva del Consell 73/23/CEE, de 19/2/73, relativa a l'aproximació de les legislacions dels Estats membres sobre el material elèctric destinat a utilitzar-se amb determinats límits de tensió (D.O.C.E. Núm. L 77, de 26/3/73), modificada per la Directiva del Consell 93/68/CEE.

Transposada pel Reial Decret 7/1988, de 8 de gener (B.O.E. de 14/1/88), modificat pel Reial Decret 154/1995 de 3 de febrer (B.O.E. de 3/3/95).

Entrada en vigor del R.D. 7/1988: l'1/12/88.

Entrada en vigor del R.D. 154/1995: el 4/3/95, amb període transitori fins l'1/1/97.

A aquest respecte veure també la Resolució d'11/6/98 de la Direcció General de Tecnologia i Seguretat Industrial (B.O.E. de 13/7/98).

- Directiva del Consell 87/404/CEE, de 25/6/87, relativa a l'aproximació de les legislacions dels Estats membres sobre recipients a pressió simple (D.O.C.E. Núm. L 270 de 8/8/87), modificada per les Directives del Consell 90/488/CEE, de 17/9/90 (D.O.C.E. Núm. L 270 de 2/10/90) i 93/68/CEE.

Transposades pel Reial Decret 1495/1991, d'11 d'octubre (B.O.E. de 15/10/91), modificat pel Reial Decret 2486/1994, de 23 de desembre (B.O.E. de 24/1/95).

Entrada en vigor del R.D. 1495/1991: el 16/10/91.

Entrada en vigor del R.D. 2486/1994: l'1/1/95 amb període transitori fins l'1/1/97.

- Directiva del Consell 89/336/CEE, de 3/5/89, relativa a l'aproximació de les legislacions dels Estats membres sobre comptabilitat electromagnètica (D.O.C.E. Núm. L 139, de 23/5/89), modificada per les Directives del Consell 93/68/CEE i 93/97/CEE, de 29/10/93 (D.O.C.E. Núm. L 290, de 24/11/93); 92/31/CEE, de 28/4/92 (D.O.C.E. Núm. L 126, de 12/5/92); 99/5/CE, de 9/3/99 (D.O.C.E. Núm. L 091, de 7/4/1999).

Transposades pel Reial Decret 444/1994, d'11 de març (B.O.E. d'1/4/94), modificat pel Reial Decret 1950/1995, d'1 de desembre (B.O.E. de 28/12/95) i Ordre Ministerial de 26/3/96 (B.O.E. de 3/4/96).

Entrada en vigor del R.D. 444/1994: el 2/4/94 amb període transitori fins l'1/1/96. Entrada en vigor del R.D. 1950/1995: el 29/12/95. Entrada en vigor de l'Ordre de 26/03/1996: el 4/4/96.

- Directiva del Consell 90/396/CEE, de 29/6/90, relativa a l'aproximació de les legislacions dels Estats membres sobre aparells de gas (D.O.C.E. Núm. L 196, de 26/7/90), modificada per la Directiva del Consell 93/68/CEE.

Transposada pel Reial Decret 1428/1992, de 27 de novembre (B.O.E. de 5/12/92), modificat pel Reial Decret 276/1995, de 24 de febrer (B.O.E. de 27/3/95).

Entrada en vigor del R.D. 1428/1992: el 25/12/92 amb període transitori fins l'1/1/96. Entrada en vigor del R.D. 276/1995: el 28/3/95.

- Directiva del Parlament Europeu i del Consell 94/9/CE, de 23/3/94, relativa a l'aproximació de legislacions dels Estats membres sobre els aparells i sistemes de protecció per a ús en atmosferes potencialment explosives (D.O.C.E. Núm. L 100, de 19/4/94).

Transposada pel Reial Decret 400/1996, d'1 de març (B.O.E. de 8/4/96).

Entrada en vigor: l'1/3/96 amb període transitori fins l'1/7/03.

- Directiva del Parlament Europeu i del Consell 97/23/CE, de 29/5/97, relativa a l'aproximació de les legislacions dels Estats membres sobre equips a pressió (D.O.C.E. Núm. L 181, de 9/7/97).

Entrada en vigor: 29/11/99 amb període transitori fins el 30/5/02.

- Onze Directives, amb les seves corresponents modificacions i adaptacions al progrés tècnic, relatives a l'aproximació de les legislacions dels Estats membres sobre determinació de l'emissió sonora de màquines i materials utilitzats en les obres de construcció.

Transposades pel Reial Decret 212/2002, de 22 de febrer (B.O.E. d'1/3/02); Ordre Ministerial de 18/7/1991 (B.O.E. de 26/7/91), Reial Decret 71/1992, de 31 de gener (B.O.E. de 6/2/92) i Ordre Ministerial de 29/3/1996 (B.O.E. de 12/4/96).

Entrada en vigor: En funció de cada directiva.

Sobre utilització de màquines i equips per al treball:

- Directiva del Consell 89/655/CEE, de 30/11/89, relativa a les disposicions mínimes de seguretat i de salut per a la utilització pels treballadors en el treball dels equips de treball (D.O.C.E. Núm. L 393, de 30/12/89), modificada per la Directiva del Consell 95/63/CE, de 5/12/95 (D.O.C.E. Núm. L 335/28, de 30/12/95).

Transposades pel Reial Decret 1215/1997, de 18 de juliol (B.O.E. de 7/8/97).

Entrada en vigor: el 27/8/97 excepte per l'apartat 2 de l'Annex I i els apartats 2 i 3 de l'Annex II, que entren en vigor el 5/12/98.

- **Normativa d'aplicació restringida**

a. Reial Decret 1849/2000, de 10 de Novembre, pel qual es deroguen diferents disposicions en matèria de normalització i homologació de productes industrials (B.O.E. de 2/12/2000), i Ordre Ministerial de 8/4/1991, per la qual s'aprova la Instrucció Tècnica Complementària

MSG-SM-1 del Reglament de Seguretat de les Màquines, referent a màquines, elements de màquines o sistemes de protecció, usats (B.O.E. d'11/5/91).

b. Ordre Ministerial, de 26/5/1989, per la qual s'aprova la Instrucció Tècnica Complementària MIE-AEM-3 del Reglament d'Aparells d'Elevació i Manutenció referent a Carretons automotors de manutenció (B.O.E. de 9/6/89).

c. Ordre de 23/5/1977 per la qual s'aprova el Reglament d'Aparells elevadors per a obres (B.O.E. de 14/6/77), modificada per dues Ordres de 7/3/1981 (B.O.E. de 14/3/81) i complementada per l'Ordre de 31/3/1981 (B.O.E 20/4/1981)

d. Reial Decret 836/2003, de 27 de juny, per la qual s'aprova la nova Instrucció Tècnica Complementària MIE-AEM-2 del Reglament d'Aparells d'elevació i Manutenció, referent a Grues Torre desmuntables per a obres (B.O.E. de 17/7/03).

e. Reial Decret 837/2003, de 27 de juny, pel qual s'aprova el nou text modificat i refós de la Instrucció Tècnica Complementària MIE-AEM-4 del Reglament d'Aparells d'elevació i Manutenció, referent a Grues mòbils autopropulsades usades (B.O.E. de 17/7/03).

f. Reial Decret 1849/2000, de 10 de novembre, pel qual es deroguen diferents disposicions en matèria de normalització i homologació de productes industrials (B.O.E. de 2/12/00).

g. Ordre Ministerial, de 9/3/1971, per la qual s'aprova l'Ordenança General de Seguretat i Higiene en el Treball (B.O.E. de 16/3/71; B.O.E. de 17/3/71 i B.O.E. de 6/4/71). Anul·lada parcialment per R.D 614/2001 de 8 de juny. BOE de 21 de juny de 2001.

8. SIGNATURA

Tortosa, a la data de la signatura digital.

El redactor de l'ESS i autor del projecte,



Àngel Mulet Baubí

Enginyer de Camins, Canals i Ports

Col·legiat núm.: 31.205

Alter Enginyeria Aplicada, SLP

PRESSUPOST DE L'ESTUDI DE SEGURETAT I SALUT

PRESSUPOST

Data: 07/02/25 Pàg.: 1

Obra 01 Pressupost ESTUDI SEGURETAT I SALUT COBERTA TEMPLE TORTOSA
Capítol 01 SEGURETAT I SALUT

NUM.	CODI	UA	DESCRIPCIÓ	PREU	AMIDAMENT	IMPORT
1	PB70-HC71	m	Cable d'acer galvanitzat, de 10 mm de diàmetre i composició 7x19+0, homologat per a línia de vida horitzontal segons UNE_EN 795/A1, fixat als terminals i als elements de suport intermig (separació < 15 m) i tesat (P - 7)	1,10	50,000	55,00
2	PB70-HC75	u	Conjunt d'elements per als dos extrems d'una línia de vida horitzontal fixa, formats per dos terminals d'acer inoxidable, els dos amb element amortidor de caigudes, fixats amb cargols d'acer inoxidable, un tensor de forqueta per a regulació del cable i dos terminals de cable amb elements protector, segons UNE_EN 795/A1 (P - 8)	249,96	2,000	499,92
3	PB70-HC76	u	Element de suport intermedi per a línia de vida horitzontal fixa, d'alumini, fixat amb cargols d'acer inoxidable, segons UNE_EN 795/A1 (P - 9)	19,99	4,000	79,96
4	P1474-65MZ	u	Parella de botes de seguretat resistents a la humitat, de pell rectificada, amb turmellera encoixinada sola antilliscant i antiestàtica, falca amortidora per al taló, llengüeta de manxa, de despreniment ràpid, amb puntera metàl·lica (P - 1)	10,75	8,000	86,00
5	P1477-65LJ	u	Casc de seguretat de protecció per a la indústria, tipus escalador sense visera, homologat segons UNE-EN 397 (P - 2)	9,19	8,000	73,52
6	P147L-EQD8	u	Parella de guants d'alta resistència al tall i a l'abrassió per a ferrallista, amb dits i palmell de cautxú rugós sobre suport de cotó, i subjecció elàstica al canell, homologats segons UNE-EN 388 i UNE-EN 420 (P - 3)	1,03	8,000	8,24
7	P147Z-FITJ	u	Ulleres de seguretat per a tall oxiacetilènic, amb muntura universal de barnilla d'acer recoberta de PVC, amb visors circulars de 50 mm de D foscos de color DIN 5, homologades segons UNE-EN 175 i UNE-EN 169 (P - 6)	1,91	8,000	15,28
8	P147W-65NG	u	Sistema anticaiguda compost per un arnès anticaiguda amb tirants, bandes secundàries, bandes subglúties, bandes de cuixa, recolzament dorsal per a subjecció, elements d'ajust, element dorsal d'enganxament d'arnès anticaiguda i sivella, incorporat a un element d'amarrament composat per un terminal manufacturat, homologat segons UNE-EN 361, UNE-EN 362, UNE-EN 364/AC, UNE-EN 365 i UNE-EN 354 (P - 5)	16,91	8,000	135,28
9	P147P-EPWV	u	Protector auditiu tipus orellera acoplable a casc industrial de seguretat, homologat segons UNE-EN 352-8, UNE-EN 397/A1 i UNE-EN 458 (P - 4)	5,85	8,000	46,80
TOTAL	**Capítol**		**01.01**			**1.000,00**

ANNEX 07 – PRESSUPOST CONEIXEMENT ADMINISTRACIÓ

ÍNDEX

1. INTRODUCCIÓ 1

2. PRESSUPOST 1

1. INTRODUCCIÓ

En el present annex es defineix el Pressupost per Coneixement de l'Administració, que inclou el Pressupost d'Execució de les Obres per Contracte amb IVA, i a més a més, si cal, l'existència de costos complementaris necessaris per l'execució de les mateixes i definides en el aquest projecte, titulat "PROJECTE EXECUTIU D'INSTAL·LACIÓ DE COBERTA A LES PISTES POLIESPORTIVES DEL PAVELLÓ DEL TEMPLE".

També s'hi inclouen els següents documents:

- QUADRE DE PREUS NÚM. 1
- QUADRE DE PREUS NÚM. 2
- JUSTIFICACIÓ DE PREUS
- AMIDAMENTS
- PRESSUPOST
- RESUM DE PRESSUPOST
- ÚLTIM FULL.

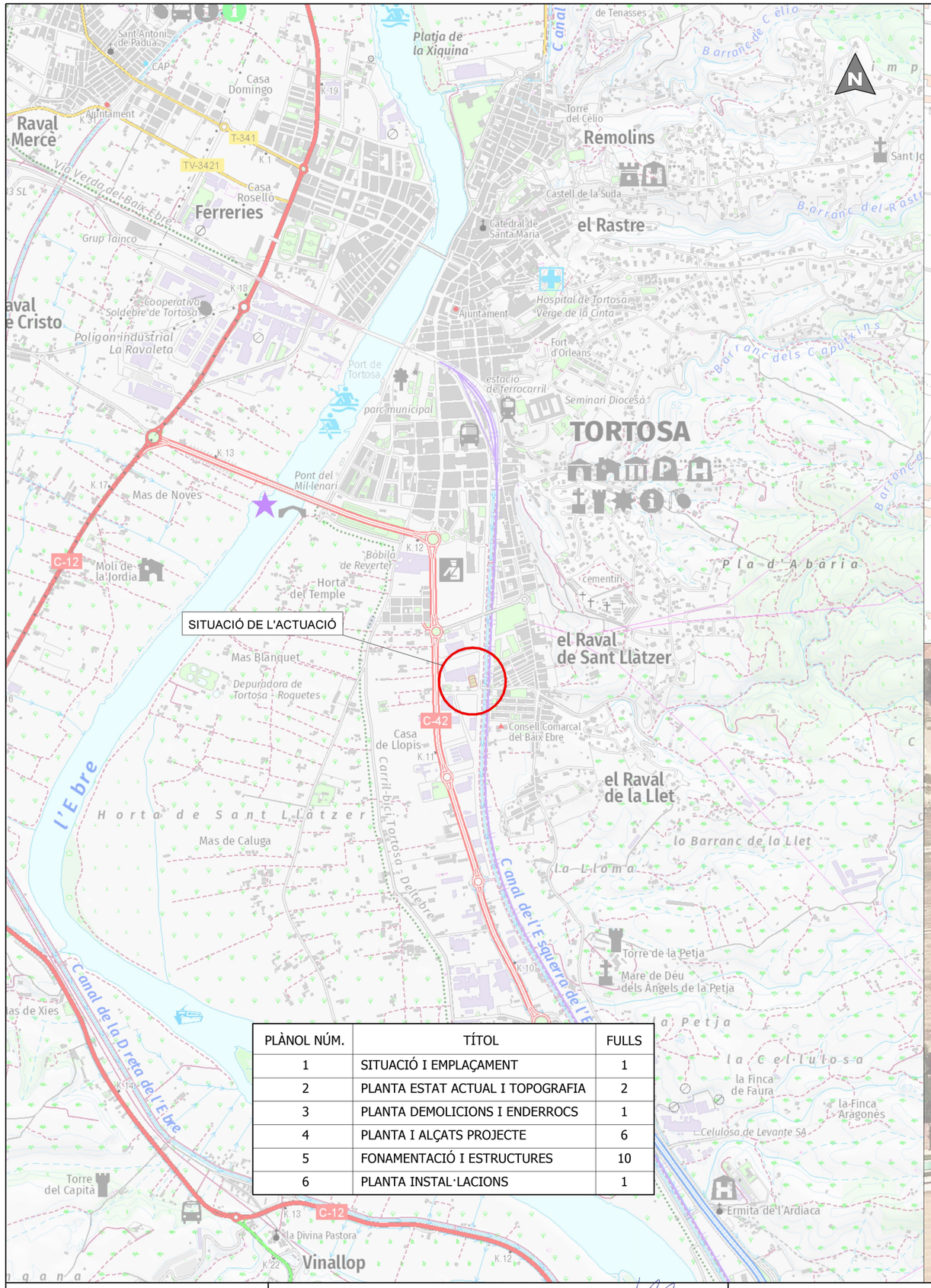
2. PRESSUPOST

Aquest pressupost inclou totes les despeses corresponents a l'execució de les actuacions proposades en aquest projecte. Tenint en compte l'exposat, el Pressupost per Coneixement de l'Administració, queda desglossat de la manera següent:

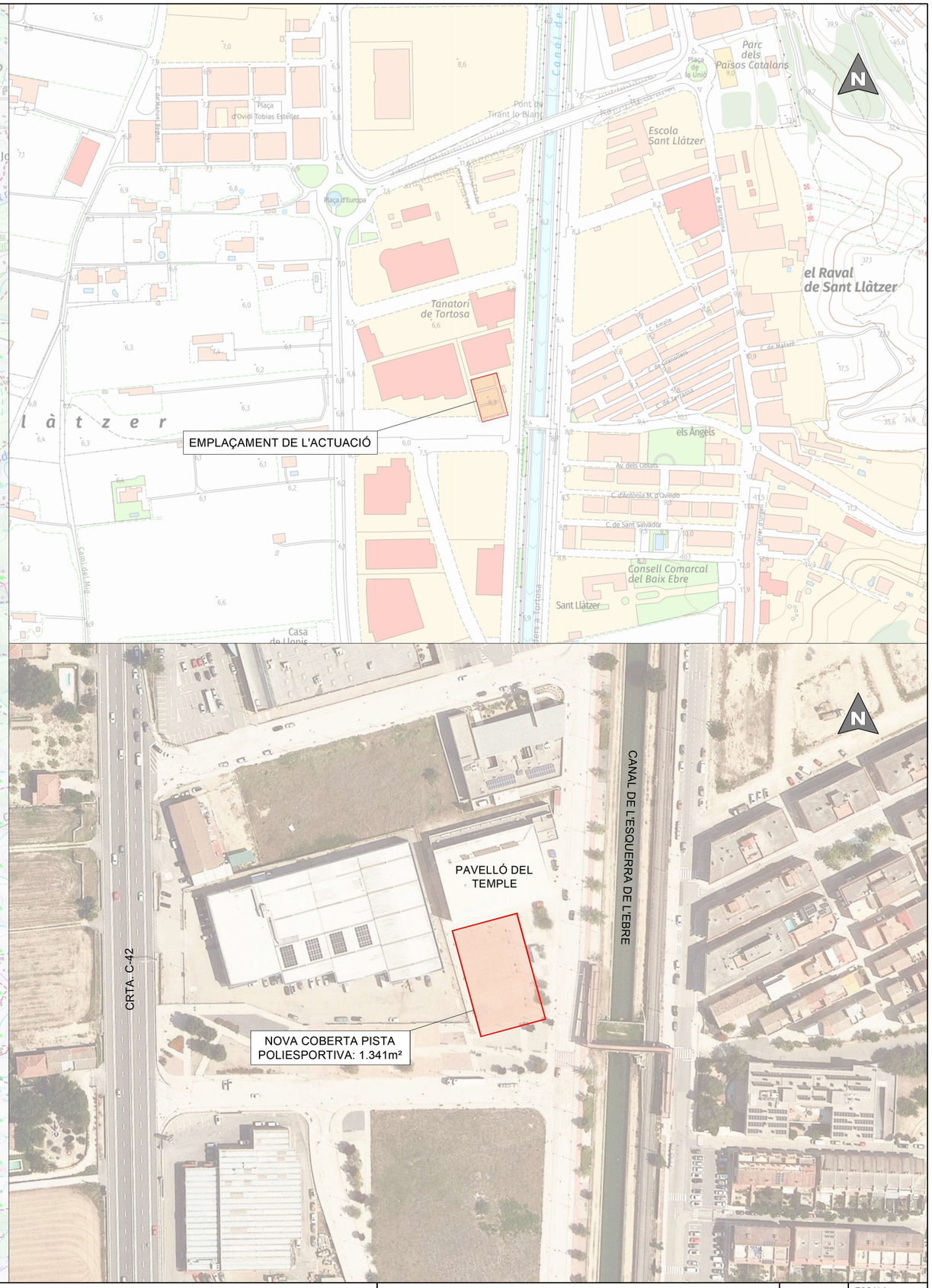
PRESSUPOST D'EXECUCIÓ MATERIAL.....		229.991,34
13 % DESPESES GENERALS SOBRE 229.991,34.....		29.898,87
6 % BENEFICI INDUSTRIAL SOBRE 229.991,34.....		13.799,48
	Subtotal	273.689,69
21 % IVA SOBRE 273.689,69.....		57.474,83
TOTAL PRESSUPOST PER CONTRACTE	€	331.164,52

Per tant, el total del Pressupost d'Execució per Contracte és de **TRES-CENTS TRENTA-UN MIL CENT SEIXANTA-QUATRE EUROS AMB CINQUANTA-DOS CÈNTIMS (331.164,52 €)**.

DOCUMENT 2 – PLÀNOLS



PLÀNOL NÚM.	TÍTOL	FULLS
1	SITUACIÓ I EMPLAÇAMENT	1
2	PLANTA ESTAT ACTUAL I TOPOGRAFIA	2
3	PLANTA DEMOLICIONS I ENDERROCS	1
4	PLANTA I ALÇATS PROJECTE	6
5	FONAMENTACIÓ I ESTRUCTURES	10
6	PLANTA INSTAL·LACIONS	1



PROMOTOR
Ajuntament de Tortosa

AUTOR DEL PROJECTE
ALTER|ENGINYERIA
ÀNGEL MULET BAUBÍ
ENGINYER DE CAMINS, CANALS I PORTS
COL·LEGIAT NÚM.: 31.205

PROJECTE
PROJECTE EXECUTIU D'INSTAL·LACIÓ DE COBERTA
A LES PISTES POLIESPORTIVES DEL PAVELLÓ DEL TEMPLE

TÍTOL DEL PLÀNOL
SITUACIÓ I EMPLAÇAMENT

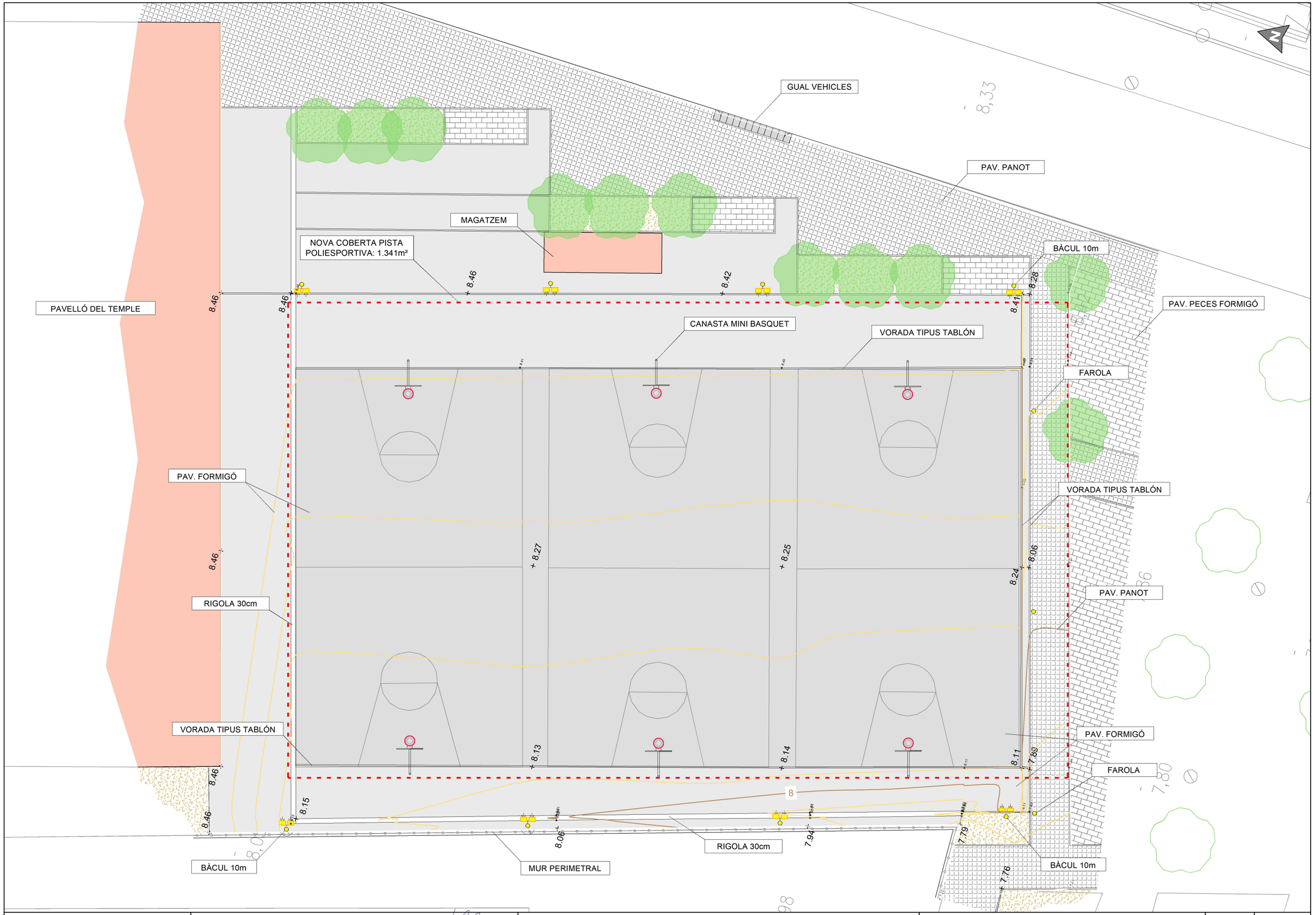
PLÀNOL NÚM.
1
1 de 1

ESCALA
E = 1/20000
E = 1/5000, 1/2000

DATA
MARÇ 2025



PROMOTOR Ajuntament de Tortosa	AUTOR DEL PROJECTE ALTER|ENGINYERIA ÀNGEL MULET BAUBÍ ENGINYER DE CAMINS, CANALS I PORTS COL·LEGIAT NÚM.: 31.205	PROJECTE PROJECTE EXECUTIU D'INSTAL·LACIÓ DE COBERTA A LES PISTES POLIESPORTIVES DEL PAVELLÓ DEL TEMPLE	TÍTOL DEL PLÀNOL ESTAT ACTUAL I TOPOGRAFIA	PLÀNOL NÚM. 2 1 de 2	ESCALA E = 1/300 DATA MARÇ 2025



PROMOTOR Ajuntament de Tortosa	AUTOR DEL PROJECTE ALTER|ENGINYERIA ÀNGEL MULET BAUBÍ ENGINYER DE CAMINS, CANALS I PORTS COL·LEGIAT NÚM.: 31.205	PROJECTE PROJECTE EXECUTIU D'INSTAL·LACIÓ DE COBERTA A LES PISTES POLIESPORTIVES DEL PAVELLÓ DEL TEMPLE	TÍTOL DEL PLÀNOL ESTAT ACTUAL I TOPOGRAFIA	PLÀNOL NÚM. 2 2 de 2	ESCALA E = 1/200 DATA MARÇ 2025



PROMOTOR Ajuntament de Tortosa	AUTOR DEL PROJECTE ALTER|ENGINYERIA ÀNGEL MULET BAUBÍ ENGINYER DE CAMINS, CANALS I PORTS COL·LEGIAT NÚM.: 31.205	PROJECTE PROJECTE EXECUTIU D'INSTAL·LACIÓ DE COBERTA A LES PISTES POLIESPORTIVES DEL PAVELLÓ DEL TEMPLE	TÍTOL DEL PLÀNOL DEMOLICIONS I ENDERROCS	PLÀNOL NÚM. 3	ESCALA E = 1/200 DATA MARÇ 2025

ORIENTACIÓ PROJECTOR

ORIENTACIÓ PROJECTOR

ORIENTACIÓ PROJECTOR

ORIENTACIÓ PROJECTOR

REPOSICIÓ VORADA TIPUS TABLÓN

PORTA CORREDISSA

PORTA CORREDISSA

4.04

TANCAMENT AMB XAPA ONDULADA

REPOSICIÓ PAV. FORMIGÓ DE CARACTERÍSTIQUES SIMILARS - 15cm

PROJECCIÓ COBERTA

PROJECCIÓ COBERTA

NOVA RIGOLA 30cm

REPOSCIÓ PAV. PANOT

TANCAMENT AMB XAPA ONDULADA

4.04

4.00

4.45

REPOSICIÓ FAROLA 6m

REPOSICIÓ PAV. FORMIGÓ DE CARACTERÍSTIQUES SIMILARS - 15cm

4.03

REPOSICIÓ VORADA TIPUS TABLÓN

REPOSICIÓ FAROLA 6m

REPOSICIÓ FAROLA 6m

ORIENTACIÓ PROJECTOR

PROMOTOR Ajuntament de Tortosa	AUTOR DEL PROJECTE ALTER|ENGINYERIA ÀNGEL MULET BAUBÍ ENGINYER DE CAMINS, CANALS I PORTS COL·LEGIAT NÚM.: 31.205	PROJECTE PROJECTE EXECUTIU D'INSTAL·LACIÓ DE COBERTA A LES PISTES POLIESPORTIVES DEL PAVELLÓ DEL TEMPLE	TÍTOL DEL PLÀNOL PLANTA I ALÇATS PROJECTE DETALL PLANTA	PLÀNOL NÚM. 4 1 de 6	ESCALA E = 1/150	DATA MARÇ 2025



PROMOTOR

Ajuntament de Tortosa

AUTOR DEL PROJECTE

ALTER|ENGINYERIA

ÀNGEL MULET BAUBÍ
ENGINYER DE CAMINS, CANALS I PORTS
COL·LEGIAT NÚM.: 31.205

PROJECTE

PROJECTE EXECUTIU D'INSTAL·LACIÓ DE COBERTA
A LES PISTES POLIESPORTIVES DEL PAVELLÓ DEL TEMPLE

TÍTOL DEL PLÀNOL

PLANTA I ALÇATS PROJECTE
DETALL COBERTA

PLÀNOL NÚM.

4
2 de 6

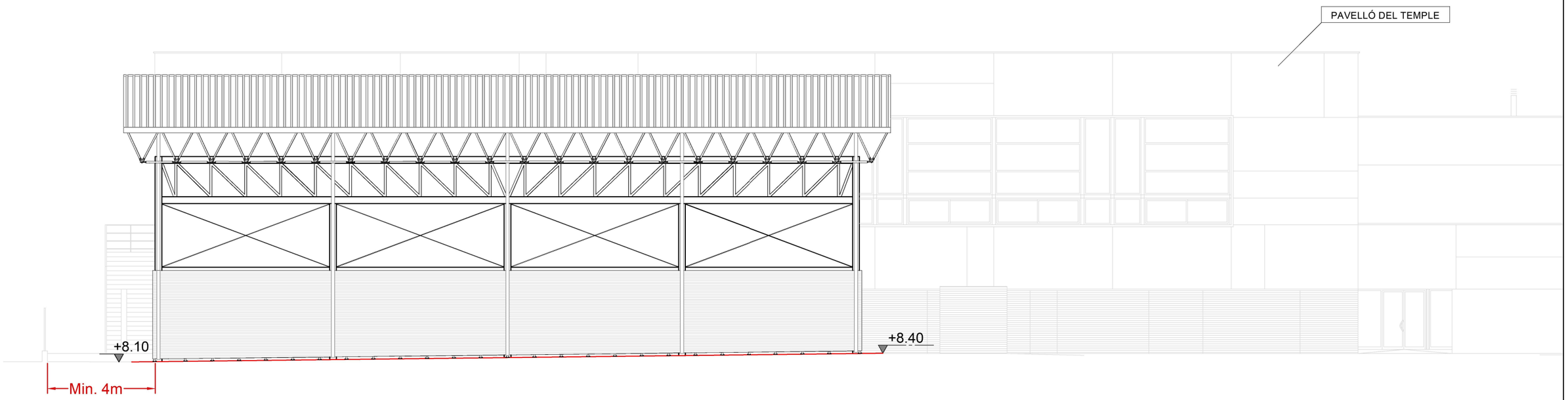
ESCALA

E = 1/200

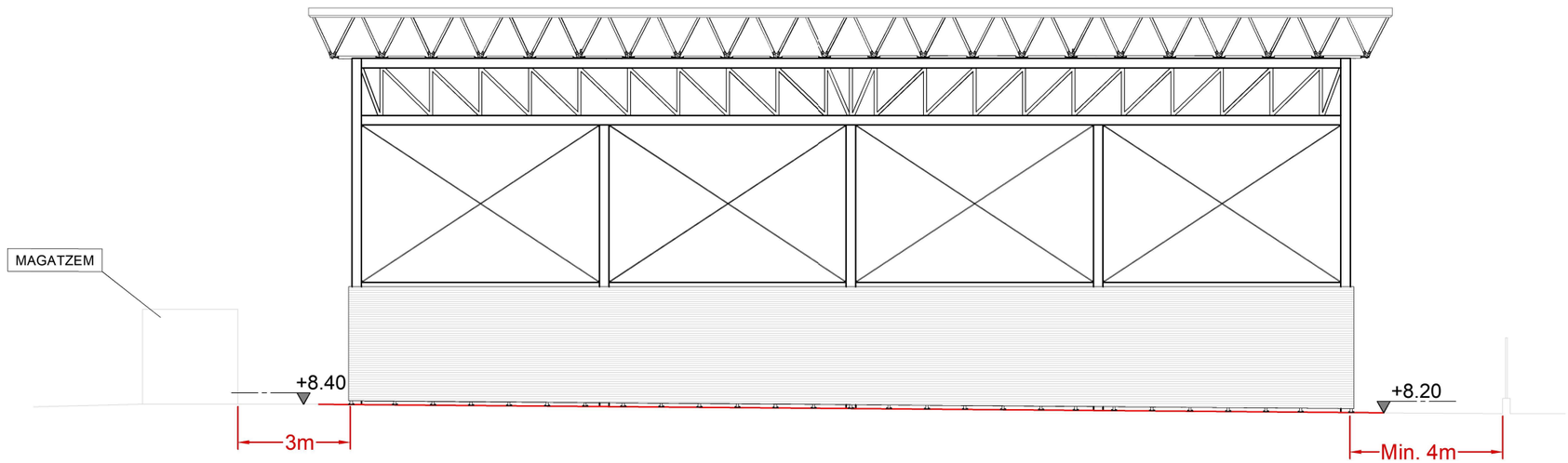
DATA

MARÇ 2025

ALÇAT SUD

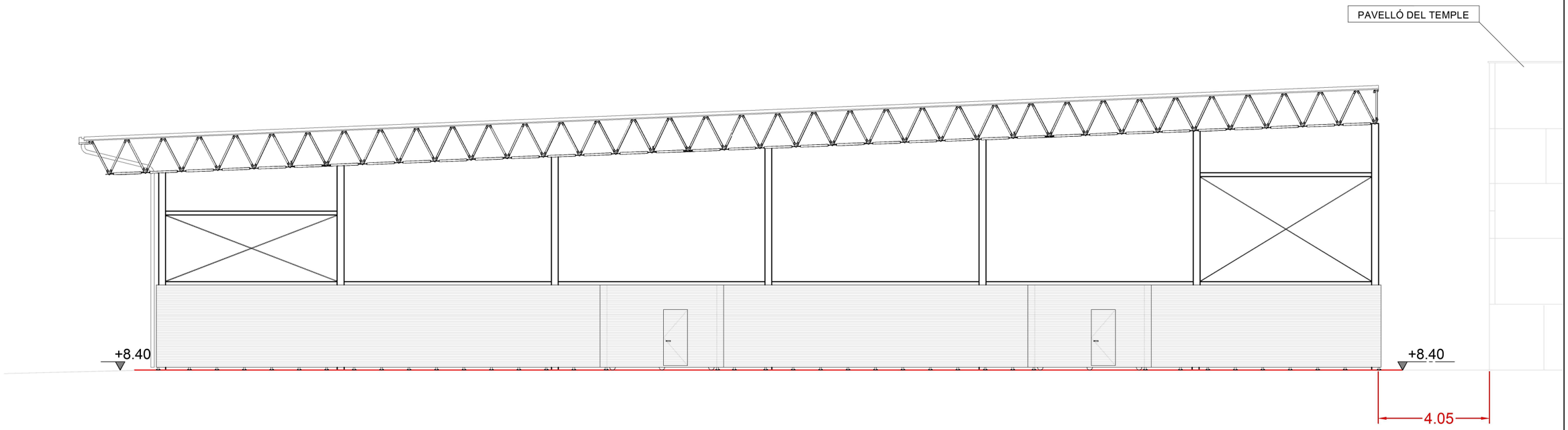


ALÇAT NORD

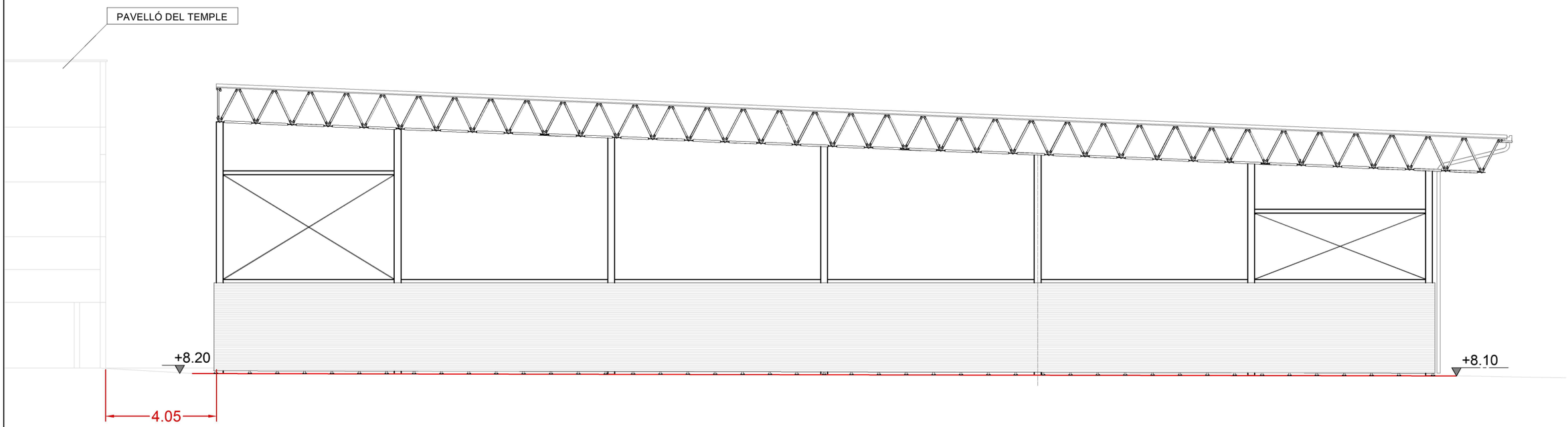


PROMOTOR Ajuntament de Tortosa	AUTOR DEL PROJECTE ALTER|ENGINYERIA ÀNGEL MULET BAUBÍ ENGINYER DE CAMINS, CANALS I PORTS COL·LEGIAT NÚM.: 31.205	PROJECTE PROJECTE EXECUTIU D'INSTAL·LACIÓ DE COBERTA A LES PISTES POLIESPORTIVES DEL PAVELLÓ DEL TEMPLE	TÍTOL DEL PLÀNOL PLANTA I ALÇATS PROJECTE ALÇATS SUD I NORD	PLÀNOL NÚM. 4 3 de 6	ESCALA E = 1/150 DATA MARÇ 2025

ALÇAT EST

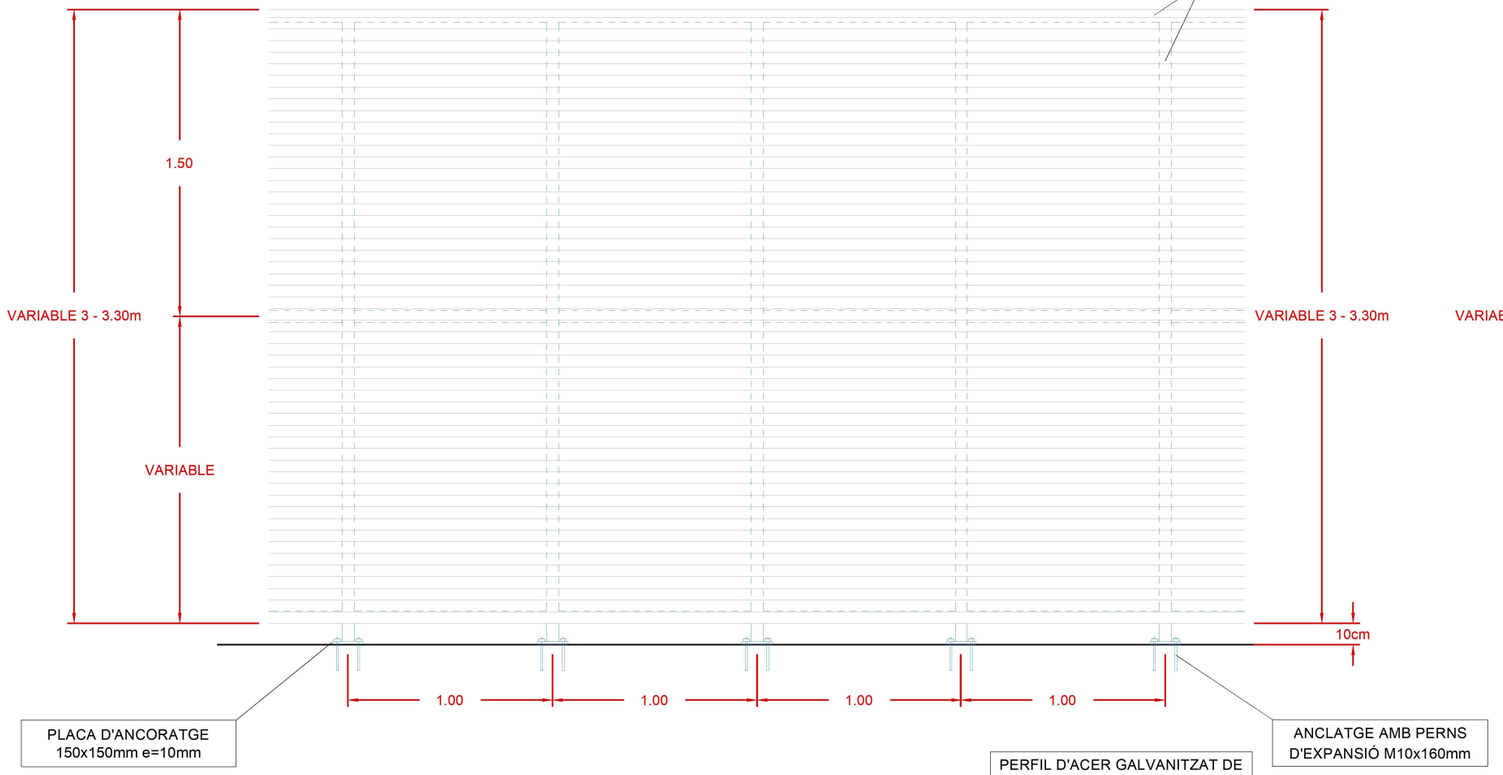


ALÇAT OEST

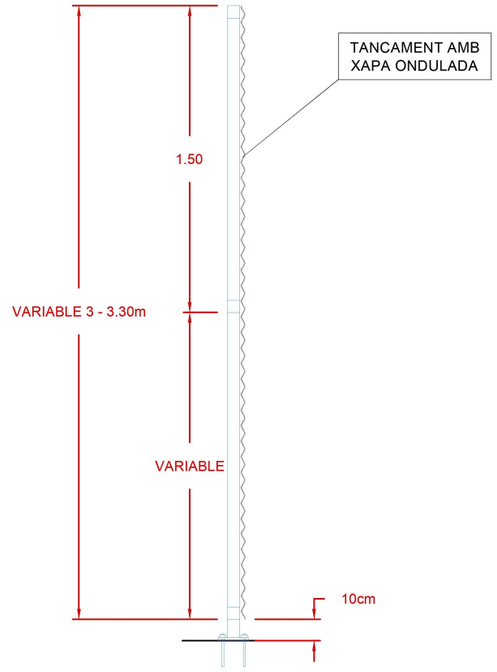


PROMOTOR Ajuntament de Tortosa	AUTOR DEL PROJECTE ALTER|ENGINYERIA ÀNGEL MULET BAUBÍ ENGINYER DE CAMINS, CANALS I PORTS COL·LEGIAT NÚM.: 31.205	PROJECTE PROJECTE EXECUTIU D'INSTAL·LACIÓ DE COBERTA A LES PISTES POLIESPORTIVES DEL PAVELLÓ DEL TEMPLE	TÍTOL DEL PLÀNOL PLANTA I ALÇATS PROJECTE ALÇATS EST I OEST	PLÀNOL NÚM. 4 4 de 6	ESCALA E = 1/150 DATA MARÇ 2025

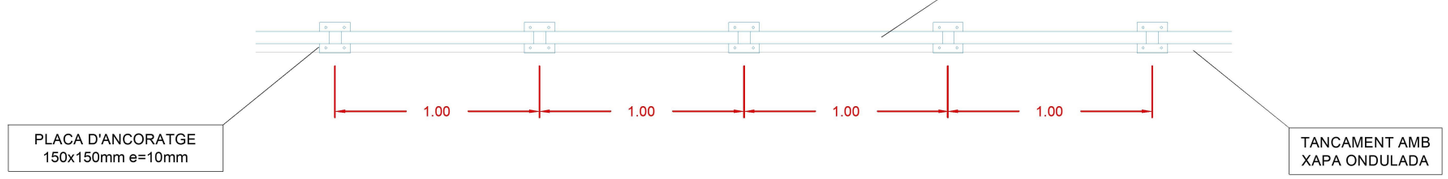
ALÇAT TANCAMENT



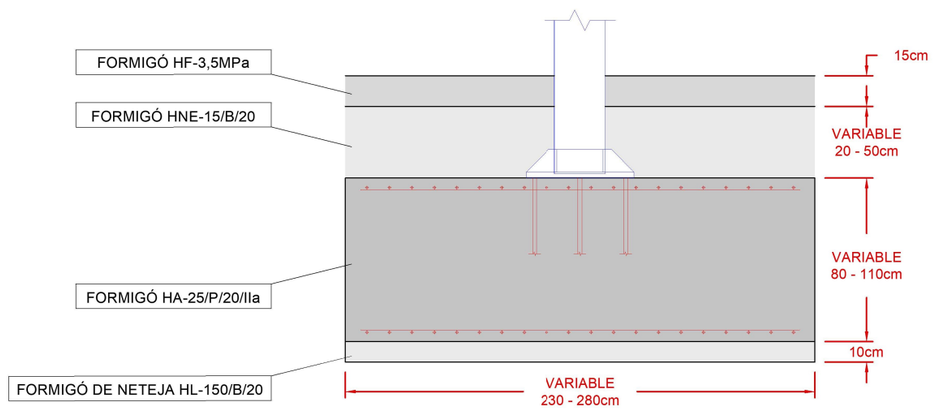
SECCIÓ TANCAMENT



PLANTA TANCAMENT

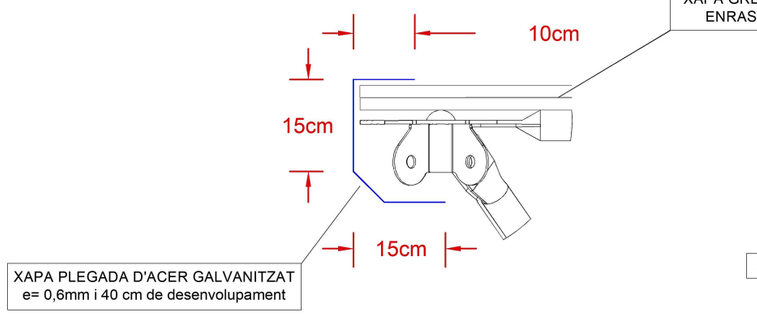


DETALL PAVIMENTACIÓ

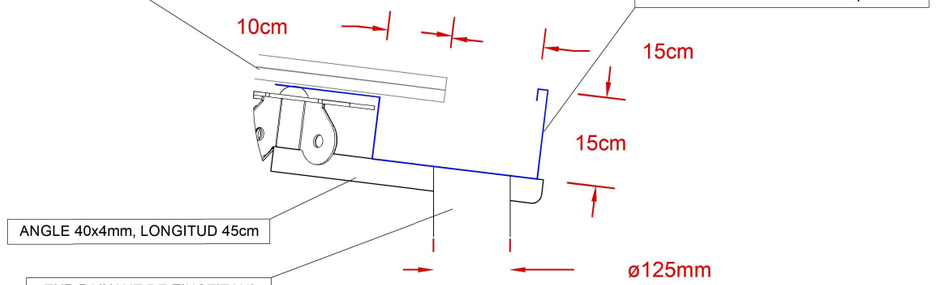


PROMOTOR Ajuntament de Tortosa	AUTOR DEL PROJECTE ALTER|ENGINYERIA ÀNGEL MULET BAUBÍ ENGINYER DE CAMINS, CANALS I PORTS COL·LEGIAT NÚM.: 31.205	PROJECTE PROJECTE EXECUTIU D'INSTAL·LACIÓ DE COBERTA A LES PISTES POLIESPORTIVES DEL PAVELLÓ DEL TEMPLE	TÍTOL DEL PLÀNOL PLANTA I ALÇATS PROJECTE DETALLS CONSTRUCTIUS TANCAMENT	PLÀNOL NÚM. 4 5 de 6	ESCALA E = 1/30 DATA MARÇ 2025

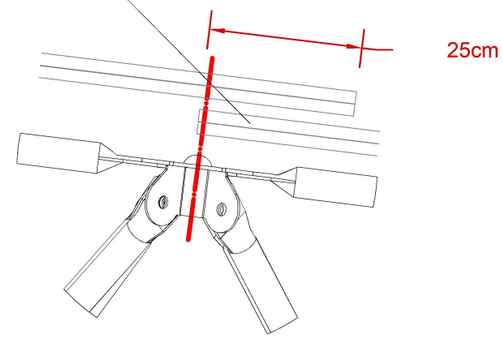
DETALL VORA LATERAL



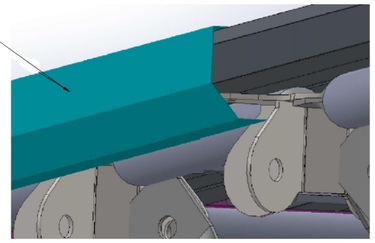
DETALL CANALÓ PLUVIALS



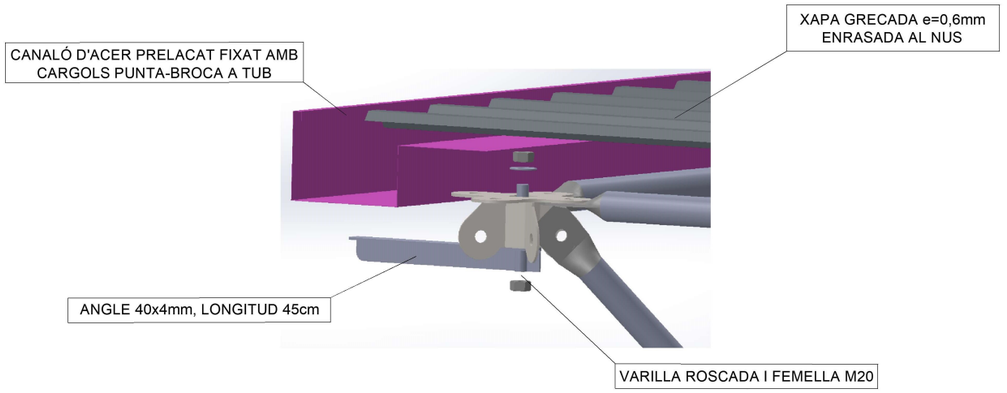
DETALL SOLAPAMENT



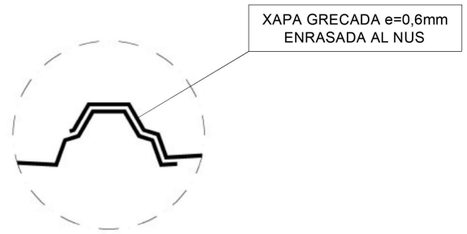
DETALL VORA LATERAL



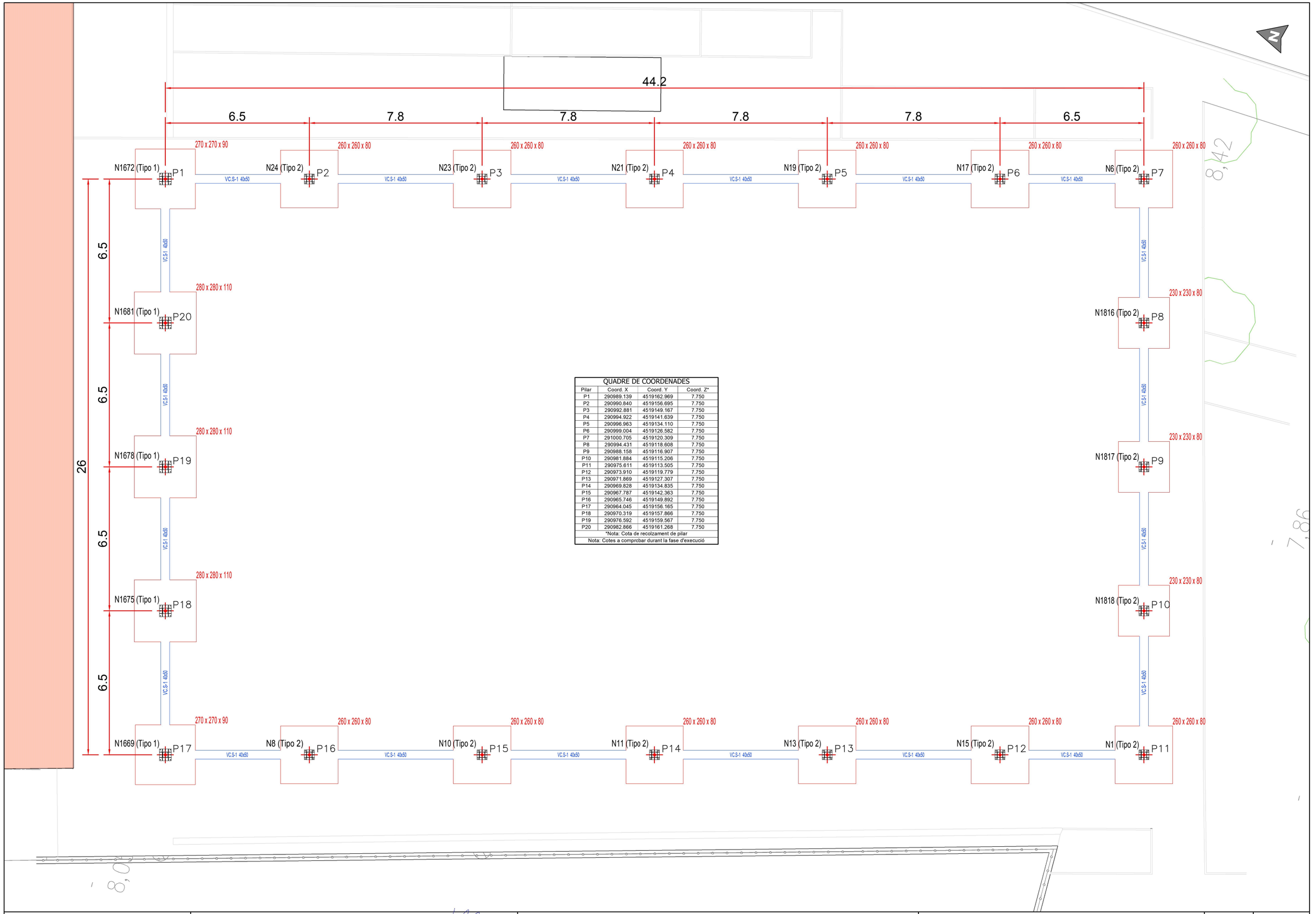
DETALL CANALÓ PLUVIALS



DETALL SOLAPAMENT TRANSVERSAL



PROMOTOR Ajuntament de Tortosa	AUTOR DEL PROJECTE ALTER|ENGINYERIA ÀNGEL MULET BAUBÍ ENGINYER DE CAMINS, CANALS I PORTS COL·LEGIAT NÚM.: 31.205	PROJECTE PROJECTE EXECUTIU D'INSTAL·LACIÓ DE COBERTA A LES PISTES POLIESPORTIVES DEL PAVELLÓ DEL TEMPLE	TÍTOL DEL PLÀNOL PLANTA I ALÇATS PROJECTE DETALLS CONSTRUCTIUS COBERTA	PLÀNOL NÚM. 4 6 de 6	ESCALA E = 1/10 DATA MARÇ 2025



QUADRE DE COORDENADES			
Pilar	Coord. X	Coord. Y	Coord. Z*
P1	290989.139	4519162.969	7.750
P2	290990.840	4519156.695	7.750
P3	290992.881	4519149.167	7.750
P4	290994.922	4519141.639	7.750
P5	290996.963	4519134.110	7.750
P6	290999.004	4519126.582	7.750
P7	291000.705	4519120.309	7.750
P8	290994.431	4519118.608	7.750
P9	290988.158	4519116.907	7.750
P10	290981.884	4519115.206	7.750
P11	290975.611	4519113.505	7.750
P12	290973.910	4519119.779	7.750
P13	290971.869	4519127.307	7.750
P14	290969.828	4519134.835	7.750
P15	290967.787	4519142.363	7.750
P16	290965.746	4519149.892	7.750
P17	290964.045	4519156.165	7.750
P18	290970.319	4519157.866	7.750
P19	290976.592	4519159.567	7.750
P20	290982.866	4519161.268	7.750
*Nota: Cota de recolzament de pilar			
Nota: Cotes a comprobar durant la fase d'execució			

PROMOTOR	AUTOR DEL PROJECTE		PROJECTE	TÍTOL DEL PLÀNOL	PLÀNOL NÚM. / ESCALA
Ajuntament de Tortosa	ALTER|ENGINYERIA ÀNGEL MULET BAUBÍ ENGINYER DE CAMINS, CANALS I PORTS COL·LEGIAT NÚM.: 31.205		PROJECTE EXECUTIU D'INSTAL·LACIÓ DE COBERTA A LES PISTES POLIESPORTIVES DEL PAVELLÓ DEL TEMPLE	FONAMENTACIÓ I ESTRUCTURA REPLANTEIG FONAMENTACIÓ	5 1 de 10 E = 1/150 DATA MARÇ 2025

CARACTERÍSTIQUES DELS MATERIALS - SABATES AÏLLADES

Formigó HA-25/F/30/XC2

Nivell de Control	Coeficient Parcial de Seguretat γc	Resistència de Càlcul (fcd)	Tipus de Ciment (RC - 16)	Màxima Relació a/c Permesa	Quantitat Mín/Màx de Ciment (kg/m3)
Estadístic	1.5	17 MPa	CEM II/A-L 42.5R	0.60	275 / 400

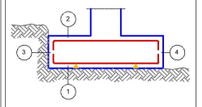
Acer B 500 S

Tipus d'Armadura	Nivell de Control	Coeficient Parcial de Seguretat γs	Resistència de Càlcul (fyd)	Notes
Passiva	Normal	1.15	434.8 MPa	- L'acer utilitzat haurà d'estar garantit amb un distintiu reconegut. AENOR, CIETSID, CC-EHE... - Acer soldable

Execució (C.E.21 E.L.U.)

Tipus d'Acció	Coeficient Parcial de Seguretat en Situació Persistent o Transitòria		Coeficient Parcial de Seguretat en Situació Accidental		Nivell de Control
	Efecte favorable	Efecte desfavorable	Efecte favorable	Efecte desfavorable	
Permanent	γ_G=1.0	γ_G=1.35	γ_G=1.0	γ_G=1.0	Normal
Pretesat	γ_P=1.0	γ_P=1.0	γ_P=1.0	γ_P=1.0	Normal
Permanent de Valor No Constant	γ_{G^*}=1.0	γ_{G^*}=1.5	γ_{G^*}=1.0	γ_{G^*}=1.0	Normal
Variable	γ_Q=0.0	γ_Q=1.5	γ_Q=0.0	γ_Q=1.0	Normal
Accidental			γ_A=1.0		Normal

Recobriments nominals



1. Recobriment amb formigó de neteja: 50mm
2. Recobriment superior lliure: 50mm
3. Recobriment lateral contacte amb terreny: 70mm
4. Recobriment lateral lliure: 50mm

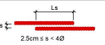
Notes

- Es considera una vida útil per a l'estructura de 50 anys
- Marge de recobriment considerat sobre el recobriment mínim: 10mm
- Resistència al foc garantida: RI90
- Quan per exigències de qualsevol tipus (durabilitat, protecció davant incendis o utilització de grups de barres), el recobriment sigui superior a 50mm, s'haurà de considerar la conveniència de col·locar una malla de repartiment al mig de l'espessor del recobriment a la zona de tracció, amb una quantia geomètrica del 5 per mil de l'àrea del recobriment per a barres o grups de barres de diàmetre (o diàmetres equivalents) igual o inferior a 32mm, i del 10 per mil per a diàmetres (o diàmetres equivalents) superiors a 32mm.
- En peces formigonades contra el terreny, el recobriment mínim serà de 70mm, excepte si s'ha preparat el terreny i estès un formigó de neteja, no regint en aquest cas lo establert en el punt anterior.

Dades Geotècniques

Paràmetre	Valor
Tensió admissible del terreny	0.1MPa
Cota de fonamentació	-1.6m respecte del paviment actual (Nivell B llims i graves alternats) sota la capa de rebleris semicompactats

Longituds d'encavalcament (Ls) en situacions no definides



	Posició I (LbI)							Posició II (LbII)						
Armadura	Ø6	Ø8	Ø10	Ø12	Ø16	Ø20	Ø25	Ø6	Ø8	Ø10	Ø12	Ø16	Ø20	Ø25
Ls = 2xLb (cm)	30	40	50	60	80	120	188	44	58	72	86	116	168	264

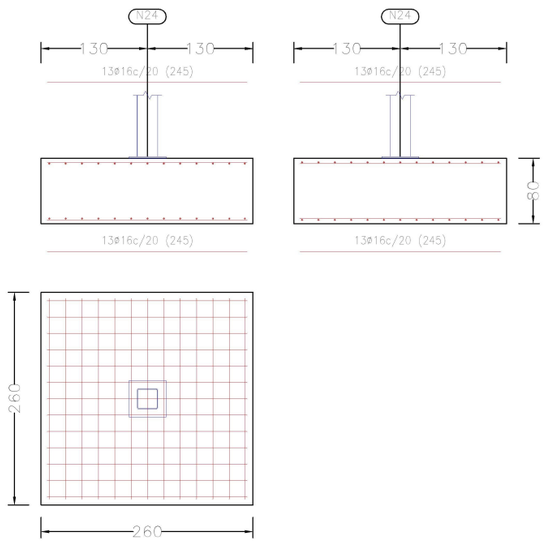
NOTES

- Longituds d'ancoratge (Lb) vàlides per a formigó de fck=25MPa i barres de fyk=500MPa. Per a d'altres valors, consultar l'Art. 49.5.1.2. del CE
- Les longituds indicades cobreixen la situació més desfavorable a tracció i són vàlides per a les situacions d'emergència a obra en que l'encavalcament no estigui definit als plànols
- Si existeixen accions dinàmiques cal augmentar aquestes longituds en 20Ø

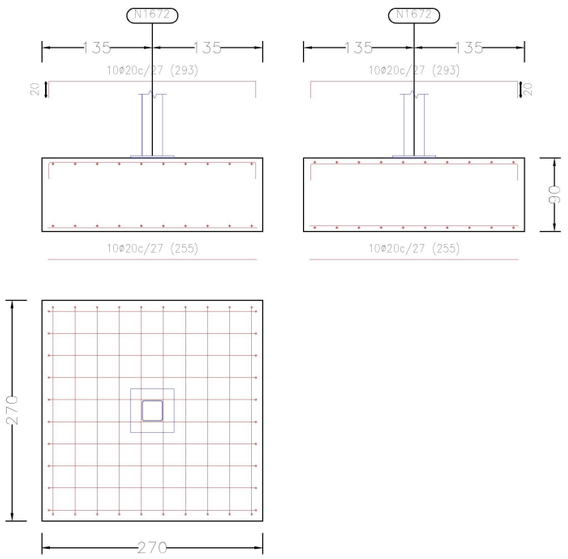
CARACTERÍSTIQUES DELS MATERIALS - ESTRUCTURA METÀL·LICA

Acer perfils laminats	Acer perfils laminats	
S-235 Límit elàstic: 235 N/mm2	S-275 JR Límit elàstic: 275 N/mm2	
Minoración de resistencia: γ_a=1.05	Minoración de resistencia: γ_a=1.05	

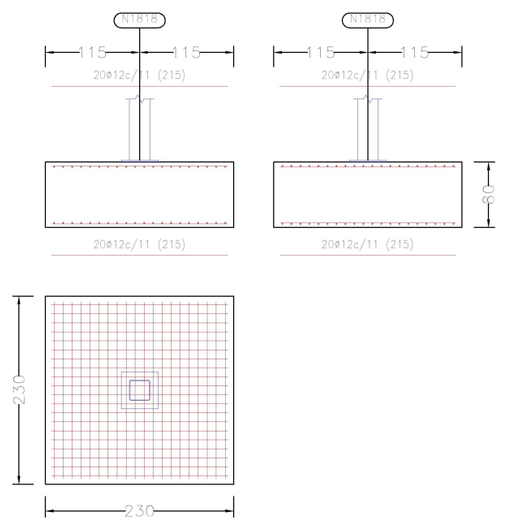
N24, N8, N10, N11, N13, N15, N1, N6, N17, N19, N21 y N23



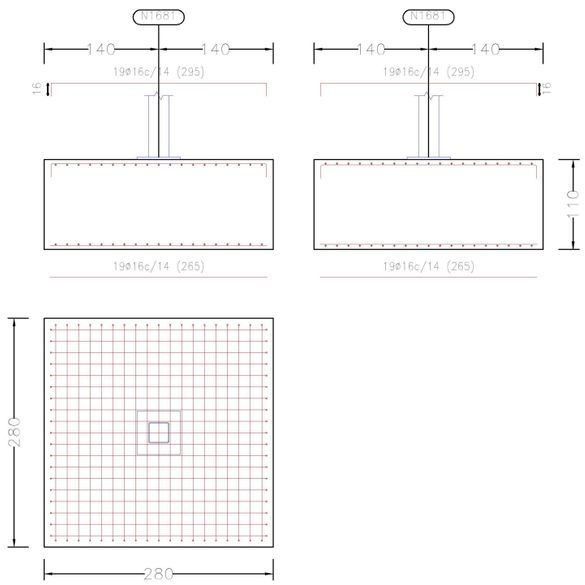
N1672 y N1669



N1818, N1817 y N1816

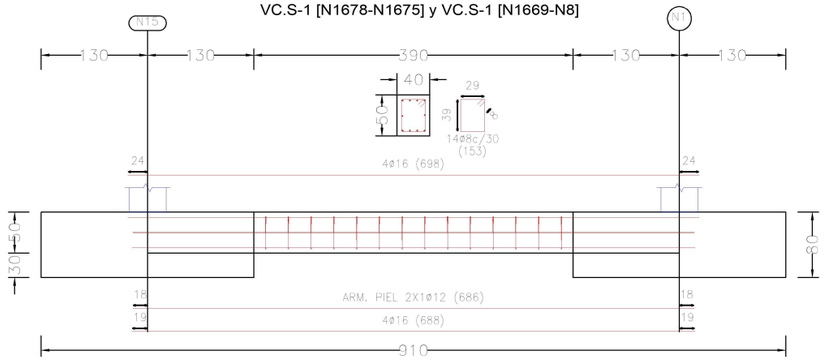


N1681, N1678 y N1675

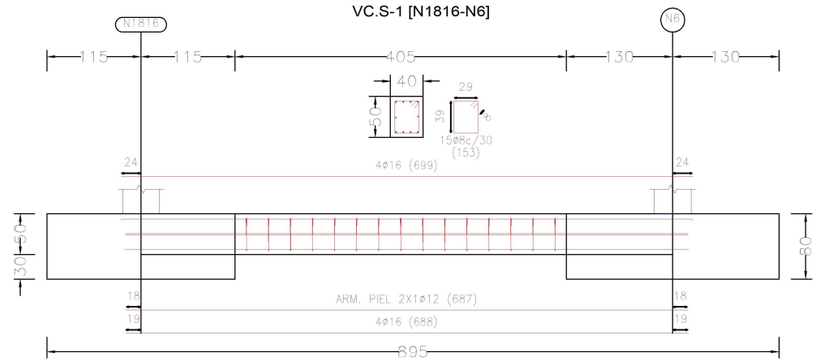


PROMOTOR	AUTOR DEL PROJECTE	PROJECTE	TÍTOL DEL PLÀNOL	PLÀNOL NÚM.	ESCALA
Ajuntament de Tortosa	ALTER|ENGINYERIA ÀNGEL MULET BAUBÍ ENGINYER DE CAMINS, CANALS I PORTS COL·LEGIAT NÚM.: 31.205	PROJECTE EXECUTIU D'INSTAL·LACIÓ DE COBERTA A LES PISTES POLIESPORTIVES DEL PAVELLÓ DEL TEMPLE	FONAMENTACIÓ I ESTRUCTURA DETALLS SABATES AÏLLADES	5 2 de 10	E = 1/75 DATA MARÇ 2025

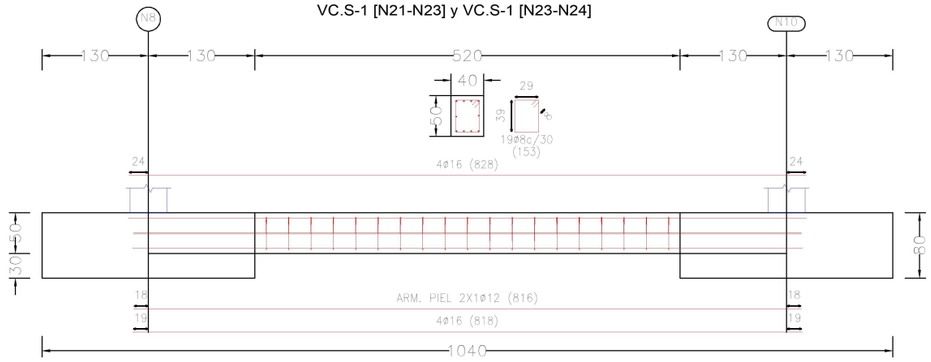
VC.S-1 [N15-N1], VC.S-1 [N1818-N1817], VC.S-1 [N1817-N1816], VC.S-1 [N6-N17], VC.S-1 [N1681-N1678], VC.S-1 [N1678-N1675] y VC.S-1 [N1669-N8]



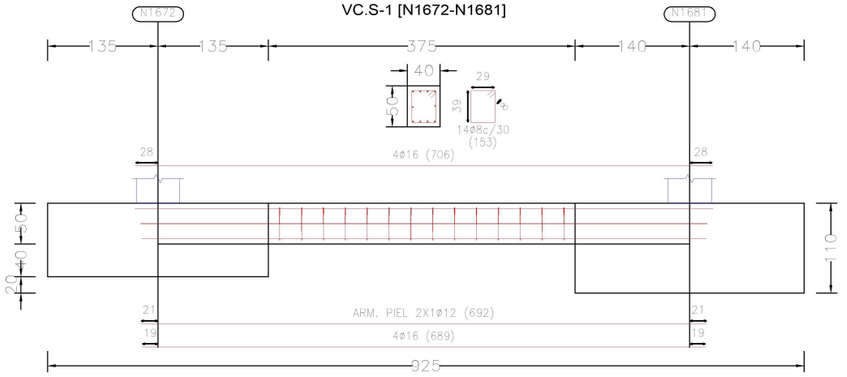
VC.S-1 [N1816-N6]



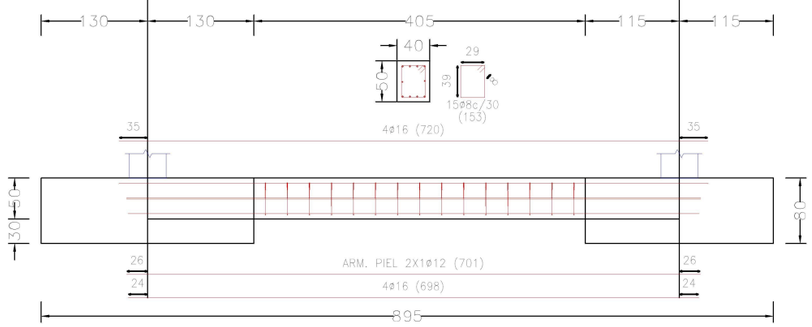
VC.S-1 [N8-N10], VC.S-1 [N10-N11], VC.S-1 [N11-N13], VC.S-1 [N13-N15], VC.S-1 [N17-N19], VC.S-1 [N19-N21], VC.S-1 [N21-N23] y VC.S-1 [N23-N24]



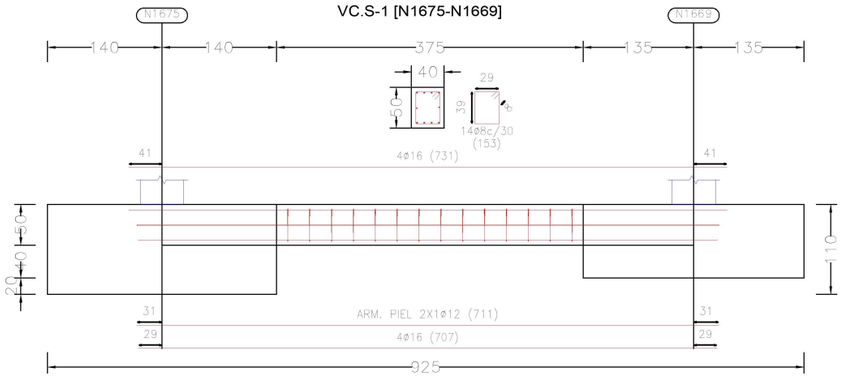
VC.S-1 [N1672-N1681]



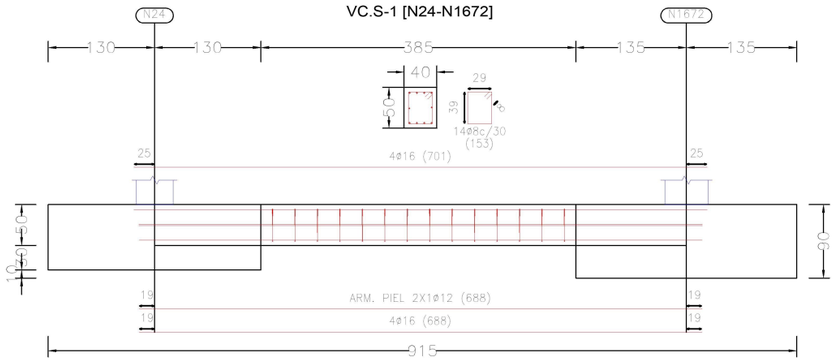
VC.S-1 [N1-N1818]

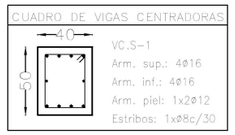


VC.S-1 [N1675-N1669]



VC.S-1 [N24-N1672]





Cuadro de arranques		
Referencias	Pernos de Placas de Anclaje	Dimensión de Placas de Anclaje
N24, N8, N10, N11, N13, N15, N1, N1818, N1817, N1816, N6, N17, N19, N21 y N23	8 Pernos ø 20	Placa base (450x450x22)
N1672, N1681, N1678, N1675 y N1669	8 Pernos ø 20	Placa base (530x530x30)

PROMOTOR: Ajuntament de Tortosa

AUTOR DEL PROJECTE: ALTER|ENGINYERIA — ÀNGEL MULET BAUBÍ, ENGINYER DE CAMINS, CANALS I PORTS, COL·LEGIAT NÚM.: 31.205

PROJECTE: PROJECTE EXECUTIU D'INSTAL·LACIÓ DE COBERTA A LES PISTES POLIESPORTIVES DEL PAVELLÓ DEL TEMPLE

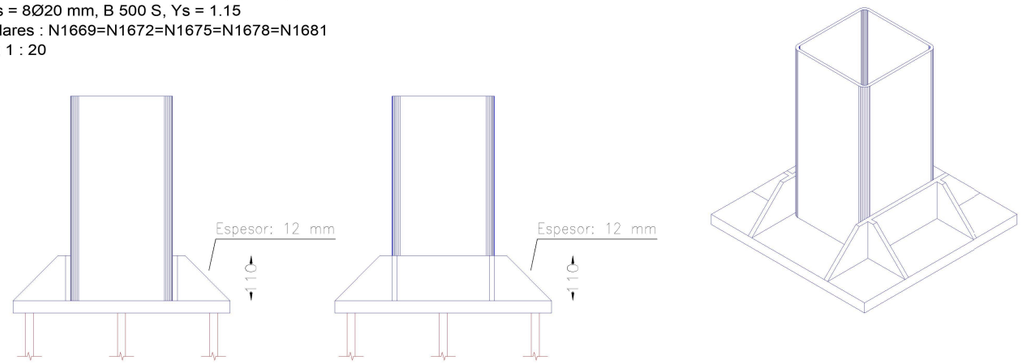
TÍTOL DEL PLÀNOL: FONAMENTACIÓ I ESTRUCTURA
DETALLS BIGUES CENTRADORES

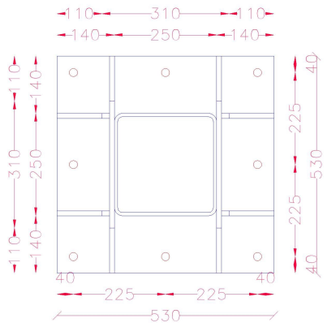
PLÀNOL NÚM.: 5
3 de 10

ESCALA: E = 1/75

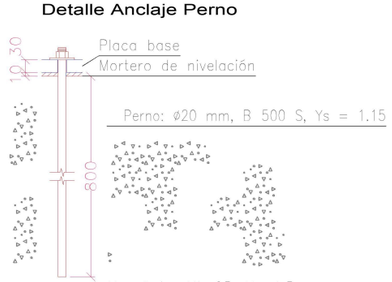
DATA: MARÇ 2025

Tipo 1
Dimensiones Placa = 530x530x30 mm (S275)
Pernos = 8Ø20 mm, B 500 S, Ys = 1.15
Ref. pilares : N1669=N1672=N1675=N1678=N1681
Escala 1 : 20



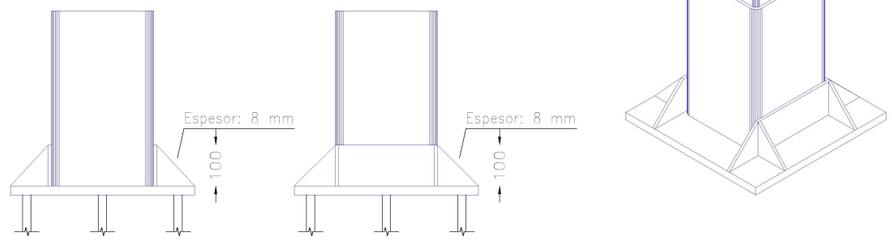


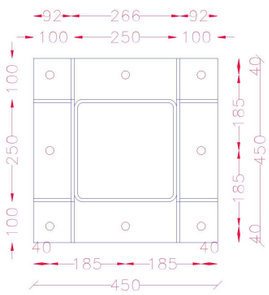
Detalle Anclaje Perno



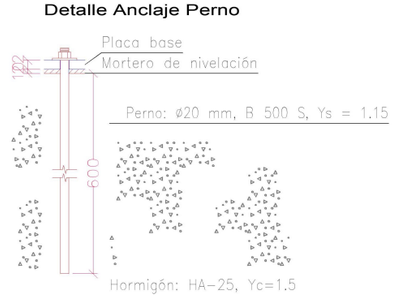
Espesor placa base: 30 mm

Tipo 2
Dimensiones Placa = 450x450x22 mm (S275)
Pernos = 8Ø20 mm, B 500 S, Ys = 1.15
Ref. pilares : N1=N6=N8=N10=N11=N13=N15=N17=N19=N21=N23=N24=N1816=N1817=N1818
Escala 1 : 20





Detalle Anclaje Perno



Espesor placa base: 22 mm

PROMOTOR Ajuntament de Tortosa	AUTOR DEL PROJECTE ALTER|ENGINYERIA ÀNGEL MULET BAUBÍ ENGINYER DE CAMINS, CANALS I PORTS COL·LEGIAT NÚM.: 31.205	PROJECTE PROJECTE EXECUTIU D'INSTAL·LACIÓ DE COBERTA A LES PISTES POLIESPORTIVES DEL PAVELLÓ DEL TEMPLE	TÍTOL DEL PLÀNOL FONAMENTACIÓ I ESTRUCTURA DETALLS ANCORATGES	PLÀNOL NÚM. 5 4 de 10	ESCALA S/E DATA MARÇ 2025

UNIONES ATORNILLADAS EN ESTRUCTURA METÁLICA

NORMA:

CTE DB SE-A: Código Técnico de la Edificación. Seguridad estructural. Acero. Apartado 8.5. Resistencia de los medios de unión. Uniones atornilladas

MATERIALES:

- Perfiles (Material base): S275 / S235.
- Clase de acero de los tornillos empleados: 8.8 (4.3.1. CTE DB SE-A).

DISPOSICIONES CONSTRUCTIVAS:

1) Se han considerado las siguientes distancias mínimas y máximas entre ejes de agujeros y entre éstos y los bordes de las piezas:

Disposiciones constructivas para tornillos, según artículo 8.5.1 CTE DB SE-A

Distancias	Al borde de la pieza		Entre agujeros		Entre tornillos		
						Tracción	
	e1 (1)	e2 (2)	p1 (1)	p2 (2)	Compresión	Filas exteriores	Filas interiores
Mínimas	1.2 do	1.5 do	2.2 do	3.0 do	p1 y p2	p1, e	p1, i
Máximas (3)	40 mm + 4t 150 mm 12t		14t 200 mm		14t 200 mm	14t 200 mm	28t 400 mm

Notas:
(1) Paralela a la dirección de la fuerza
(2) Perpendicular a la dirección de la fuerza
(3) Se considera el menor de los valores
do: Diámetro del agujero.
t: Menor espesor de las piezas que se unen.
En el caso de esfuerzos oblicuos, se interpolan los valores de manera que el resultado quede del lado de la seguridad.

2) No deben soldarse ni los tornillos ni las tuercas.

3) Cuando los tornillos se dispongan en posición vertical, la tuerca se situará por debajo de la cabeza del tornillo.

4) Debe comprobarse antes de la colocación que las tuercas pueden desplazarse libremente sobre el tornillo correspondiente.

5) En cada tornillo se colocará una arandela en el lado de la cabeza y otra en el lado de la tuerca.

6) Los agujeros deben realizarse por taladrado u otro proceso que proporcione un acabado equivalente.

7) El punzonado se admite para piezas de hasta 15 mm de espesor, siempre que el espesor nominal de la pieza no sea mayor que el diámetro nominal del agujero (o dimensión mínima si el agujero no es circular). De realizar el punzonado, se recomienda realizarlo con un diámetro 2 mm menor que el diámetro definitivo y luego taladrar hasta el diámetro nominal.

8) Condiciones para el apriete de los tornillos ordinarios:

- Cada conjunto de tornillo, tuerca y arandelas debe alcanzar la condición de "apretado a tope" sin sobrepretensar los tornillos. Esta condición es la que conseguiría un operario con la llave normal, sin brazo de prolongación.
- Para los grandes grupos de tornillos, el apriete debe realizarse desde los tornillos centrales hacia el exterior e incluso realizar algún ciclo de apriete adicional.

COMPROBACIONES:

Se realizan las comprobaciones indicadas en los artículos 8.5.2, 8.8.3 y 8.8.6 de CTE DB SE-A.

UNIONES SOLDADAS EN ESTRUCTURA METÁLICA

NORMA:

CTE DB SE-A: Código Técnico de la Edificación. Seguridad estructural. Acero. Apartado 8.6. Resistencia de los medios de unión. Uniones soldadas.

MATERIALES:

- Perfiles (Material base): S275-JR.
- Material de aportación (soldaduras): Las características mecánicas de los materiales de aportación serán en todos los casos superiores a las del material base (fu = 430 MPa). (4.4.1 CTE DB SE-A)

DISPOSICIONES CONSTRUCTIVAS:

1) Las siguientes prescripciones se aplican a uniones soldadas donde los espesores de las piezas a unir sean al menos de 4 mm.

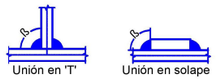
2) Los cordones de las soldaduras en ángulo no podrán tener un espesor de garganta inferior a 3 mm ni superior al menor espesor de las piezas a unir.

3) Los cordones de las soldaduras en ángulo cuyas longitudes sean menores de 40 mm o 6 veces el espesor de garganta, no se tendrán en cuenta para calcular la resistencia de la unión.

4) En el detalle de las soldaduras en ángulo se indica la longitud efectiva del cordón (longitud sobre la cual el cordón tiene su espesor de garganta completo). Para cumplirla, puede ser necesario prolongar el cordón rodeando las esquinas, con el mismo espesor de garganta y una longitud de 2 veces dicho espesor. La longitud efectiva de un cordón de soldadura deberá ser mayor o igual que 4 veces el espesor de garganta.

5) Las soldaduras en ángulo entre dos piezas que forman un ángulo ß deberán cumplir con la condición de que dicho ángulo esté comprendido entre 60 y 120 grados. En caso contrario:

- Si se cumple que ß > 120 (grados): se considerará que no transmiten esfuerzos.
- Si se cumple que ß < 60 (grados): se considerarán como soldaduras a tope con penetración parcial.



COMPROBACIONES:

a) Cordones de soldadura a tope con penetración total:

En este caso, no es necesaria ninguna comprobación. La resistencia de la unión será igual a la de la más débil de las piezas unidas.

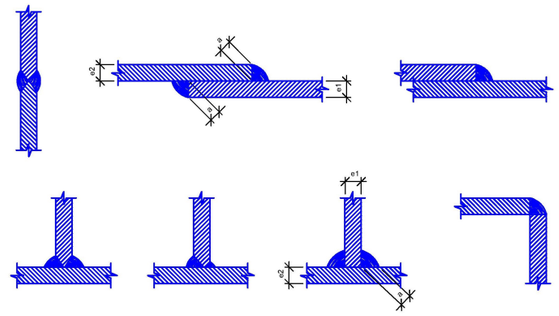
b) Cordones de soldadura a tope con penetración parcial y con preparación de bordes:

Se comprueban como soldaduras en ángulo considerando un espesor de garganta igual al canto nominal de la preparación menos 2 mm (artículo 8.6.3.3b del CTE DB SE-A).

c) Cordones de soldadura en ángulo:

Se realiza la comprobación de tensiones en cada cordón de soldadura según el artículo 8.6.2.3 CTE DB SE-A.

ALTERNATIVAS DE SOLDADURAS



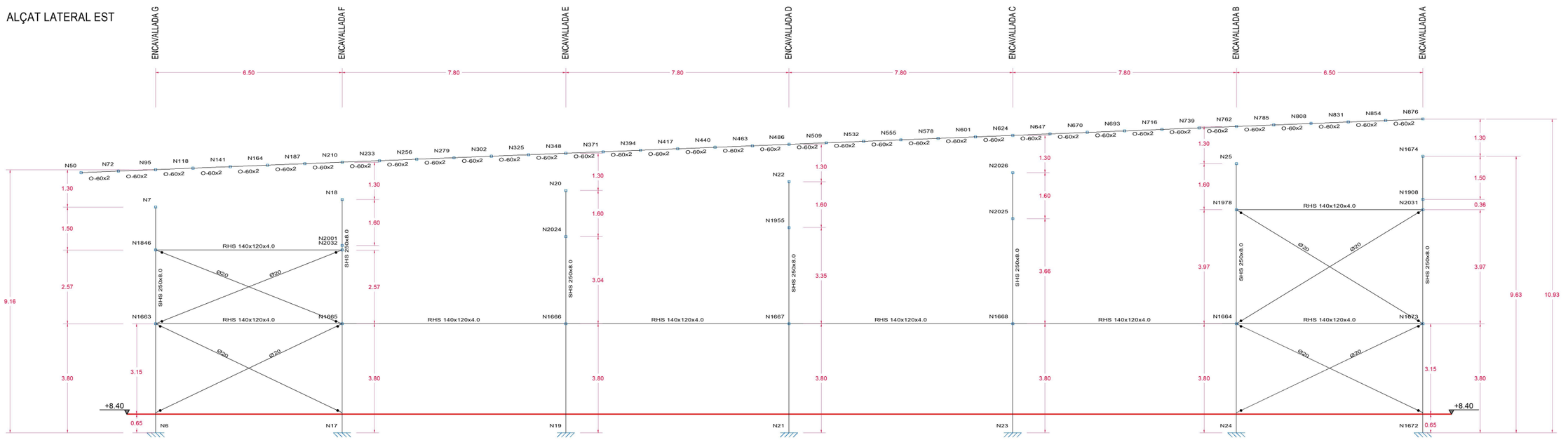
e1 > e2 : a ⩾ 1/2 e1 ⩾ 3mm
e2 > e1 : a ⩾ 1/2 e2 ⩾ 3mm

NOTA1: EL ACERO DE CHAPAS Y PERFILES SERÁ DEL TIPO S275-JR SIN PRESENTAR MANCHAS DE HERRUMBRE NI GRASA O PINTURAS EN LAS ZONAS DONDE VAYA A REALIZARSE EL SOLDEO. EL RESTO DE LA PIEZA SE SERVIRÁ EN OBRA CON UNA CAPA DE PINTURA PROTECTORA

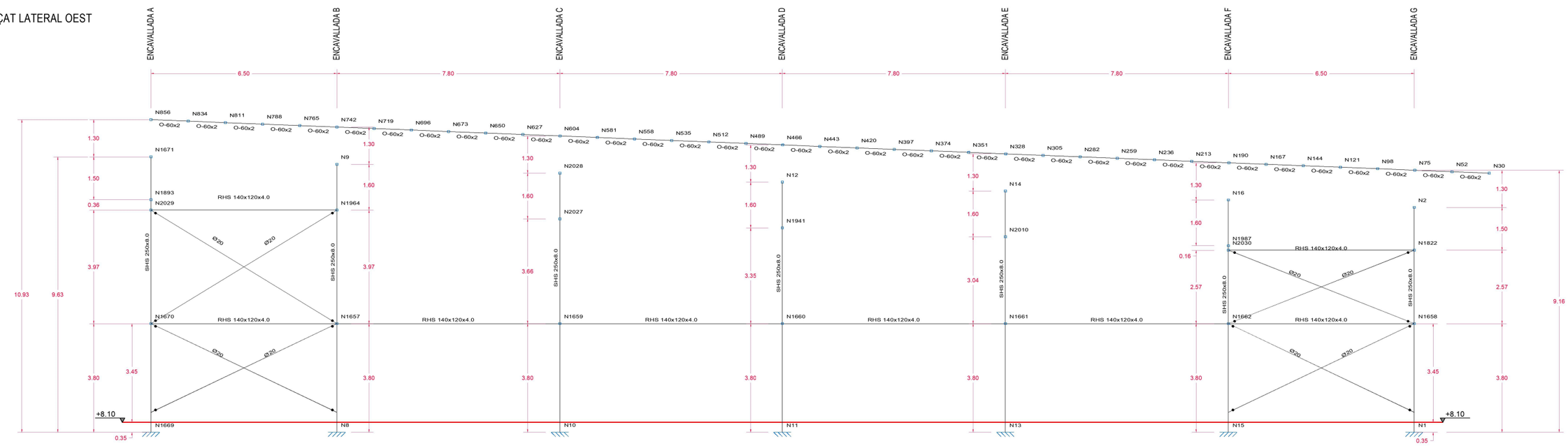
NOTA2: LAS SOLDADURAS DE ESTOS NUDOS DEBERÁN SER COMPROBADAS ESPECIALMENTE MEDIANTE INSPECCIÓN VISUAL EXHAUSTIVA Y MEDIANTE LÍQUIDOS PENETRANTES. SE SEGUIRÁN LAS PRESCRIPCIONES DE LA NORMA UNE140001

NOTA3: LOS ELECTRODOS QUE SE UTILICEN EN EL SOLDEO MANUAL POR ARCO ELÉCTRICO CORRESPONDERÁN A UNA DE LAS CALIDADES ESTRUCTURALES DEFINIDAS EN LA NORMA UNE14003. SUS MEDIDAS Y TOLERANCIAS SE AJUSTARÁN A LO PREVISTO EN LA NORMA UNE14002. SE PREFERIRÁN DE CALIDAD ESTRUCTURAL BÁSICA

ALÇAT LATERAL EST

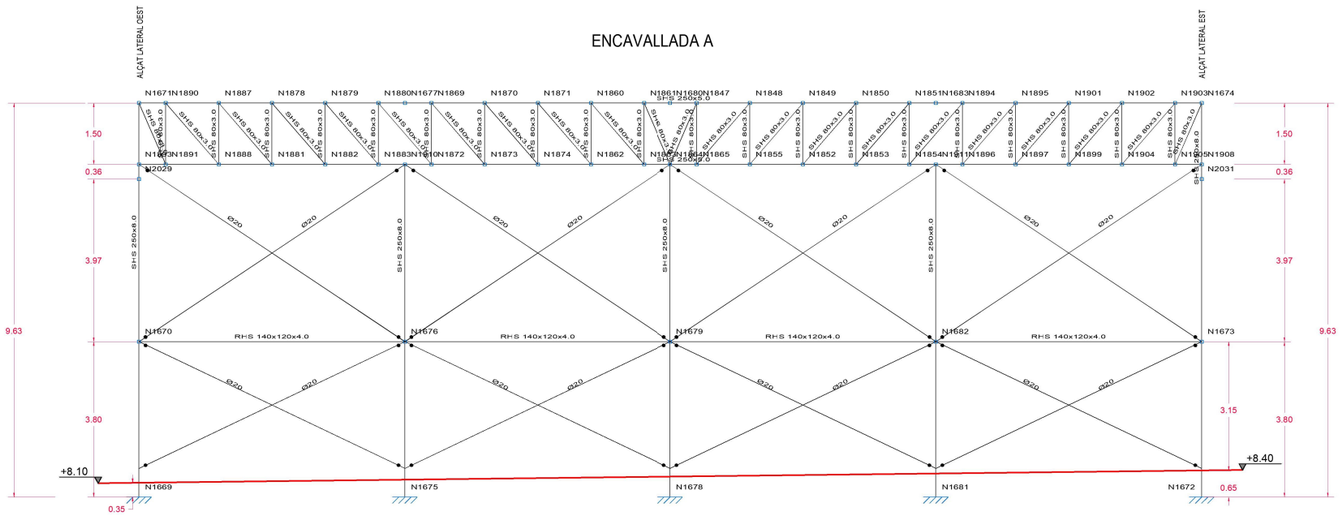


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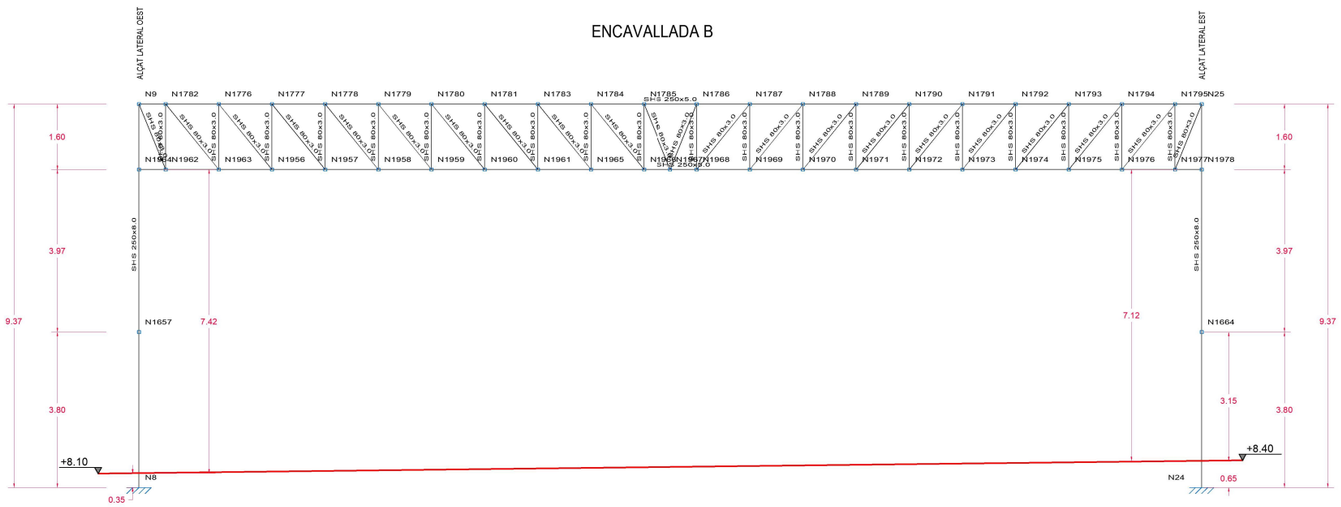


PROMOTOR Ajuntament de Tortosa	AUTOR DEL PROJECTE ALTER|ENGINYERIA ÀNGEL MULET BAUBÍ ENGINYER DE CAMINS, CANALS I PORTS COL·LEGIAT NÚM.: 31.205	PROJECTE PROJECTE EXECUTIU D'INSTAL·LACIÓ DE COBERTA A LES PISTES POLIESPORTIVES DEL PAVELLÓ DEL TEMPLE	TÍTOL DEL PLÀNOL FONAMENTACIÓ I ESTRUCTURA ALÇATS LONGITUDINALS	PLÀNOL NÚM. 5 6 de 10	ESCALA E = 1/150 DATA MARÇ 2025

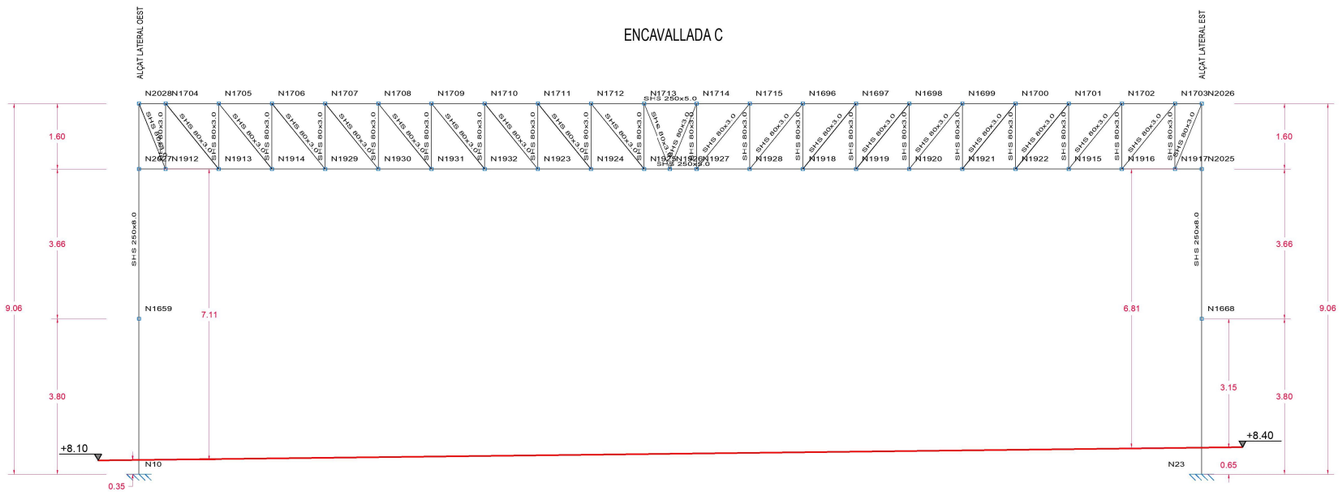
ENCAVALLADA A



ENCAVALLADA B

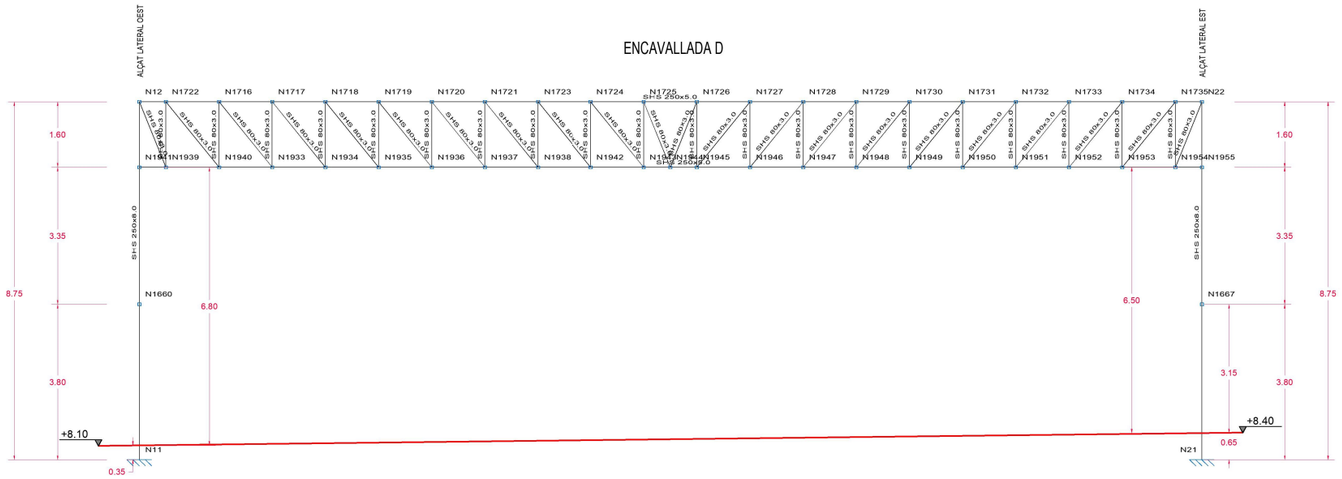


ENCAVALLADA C

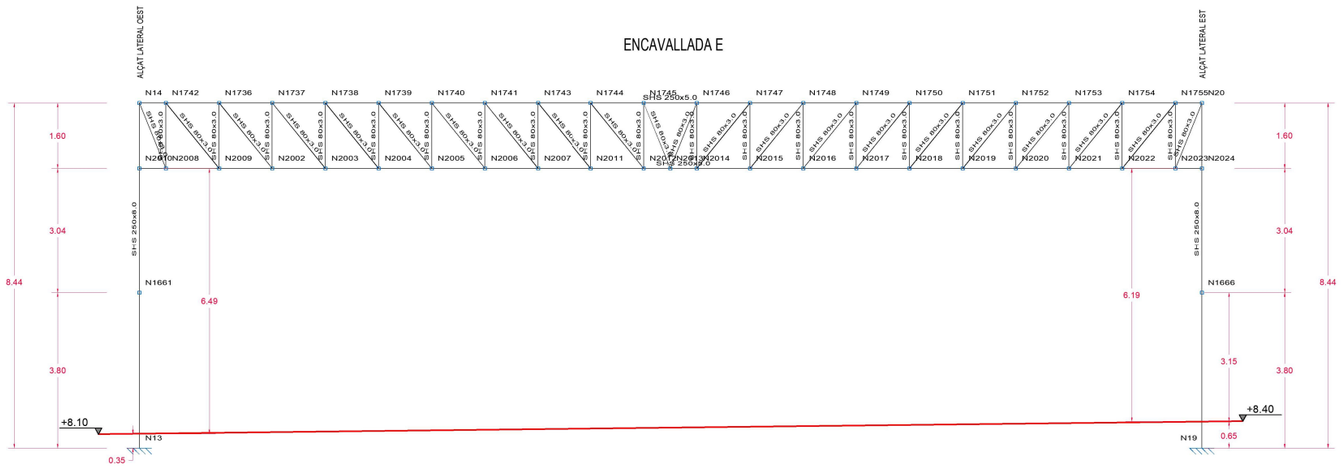


PROMOTOR Ajuntament de Tortosa	AUTOR DEL PROJECTE ALTER ENGINYERIA ÀNGEL MULET BAUBÍ ENGINYER DE CAMINS, CANALS I PORTS COL·LEGIAT NÚM.: 31.205	PROJECTE PROJECTE EXECUTIU D'INSTAL·LACIÓ DE COBERTA A LES PISTES POLIESPORTIVES DEL PAVELLÓ DEL TEMPLE	TÍTOL DEL PLÀNOL FONAMENTACIÓ I ESTRUCTURA ENCAVALLADES I	PLÀNOL NÚM. 5 7 de 10	ESCALA E = 1/150 DATA MARÇ 2025

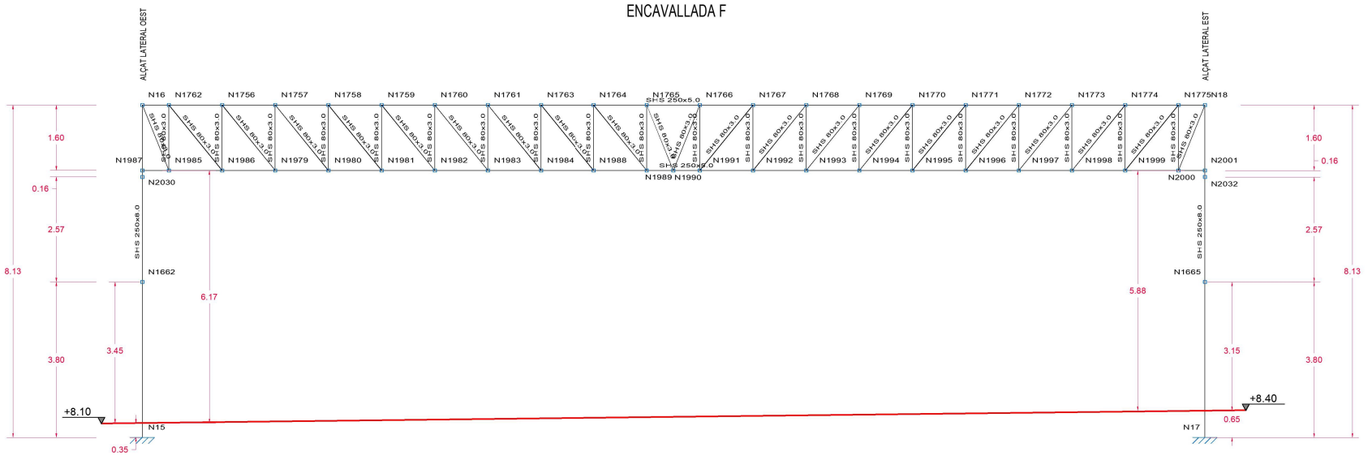
ENCAVALLADA D



ENCAVALLADA E

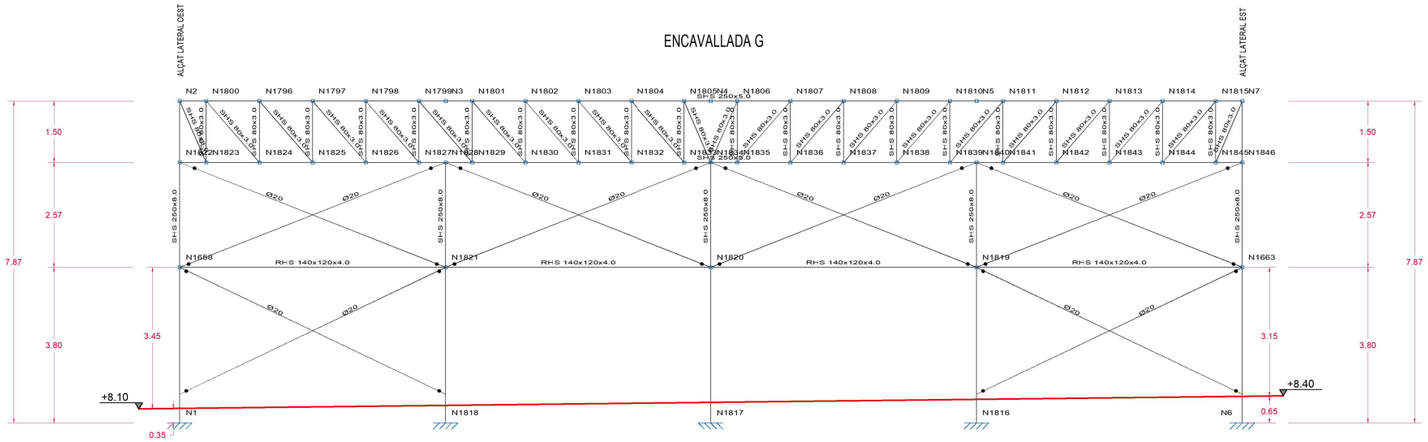


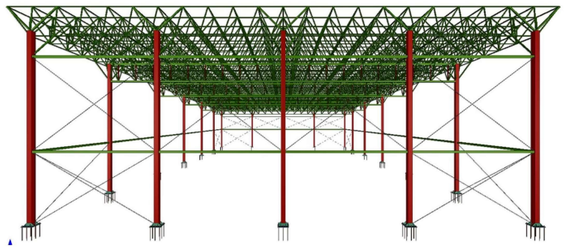
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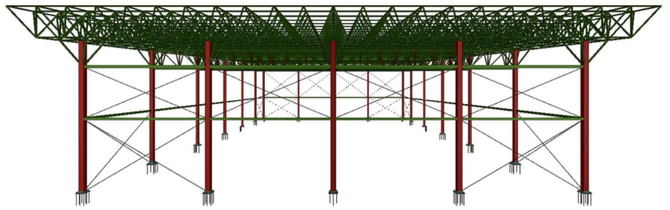
PROMOTOR Ajuntament de Tortosa	AUTOR DEL PROJECTE ALTER|ENGINYERIA ÀNGEL MULET BAUBÍ ENGINYER DE CAMINS, CANALS I PORTS COL·LEGIAT NÚM.: 31.205	PROJECTE PROJECTE EXECUTIU D'INSTAL·LACIÓ DE COBERTA A LES PISTES POLIESPORTIVES DEL PAVELLÓ DEL TEMPLE	TÍTOL DEL PLÀNOL FONAMENTACIÓ I ESTRUCTURA ENCAVALLADES II	PLÀNOL NÚM. 5 8 de 10	ESCALA S/E DATA MARÇ 2025

ENCAVALLADA G

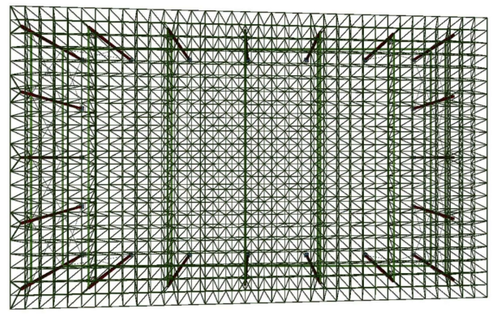




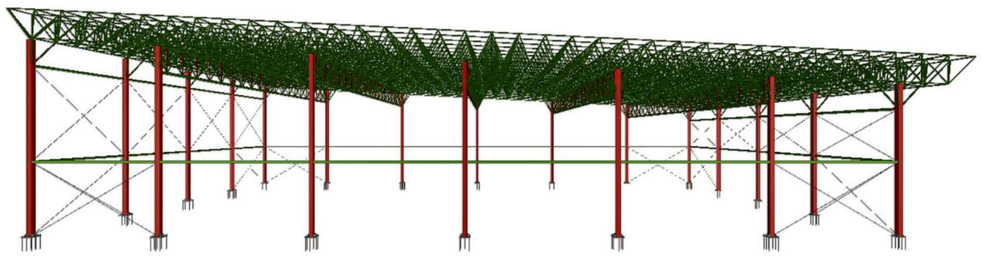
VISTA ALÇAT NORD



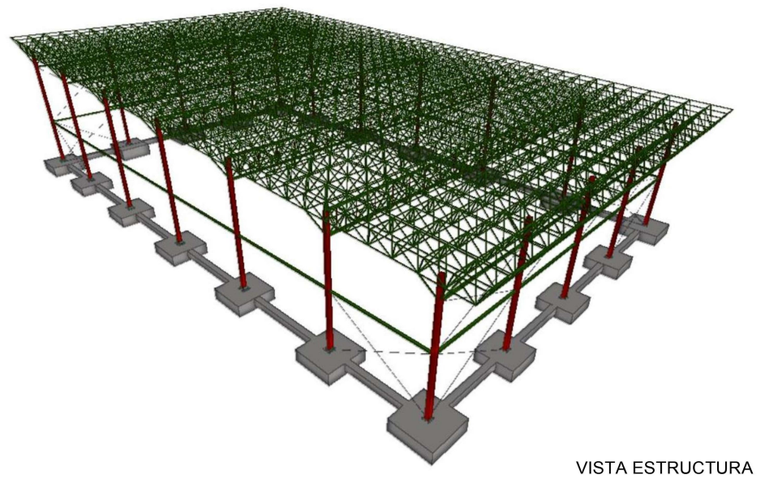
VISTA ALÇAT NORD



VISTA PLANTA

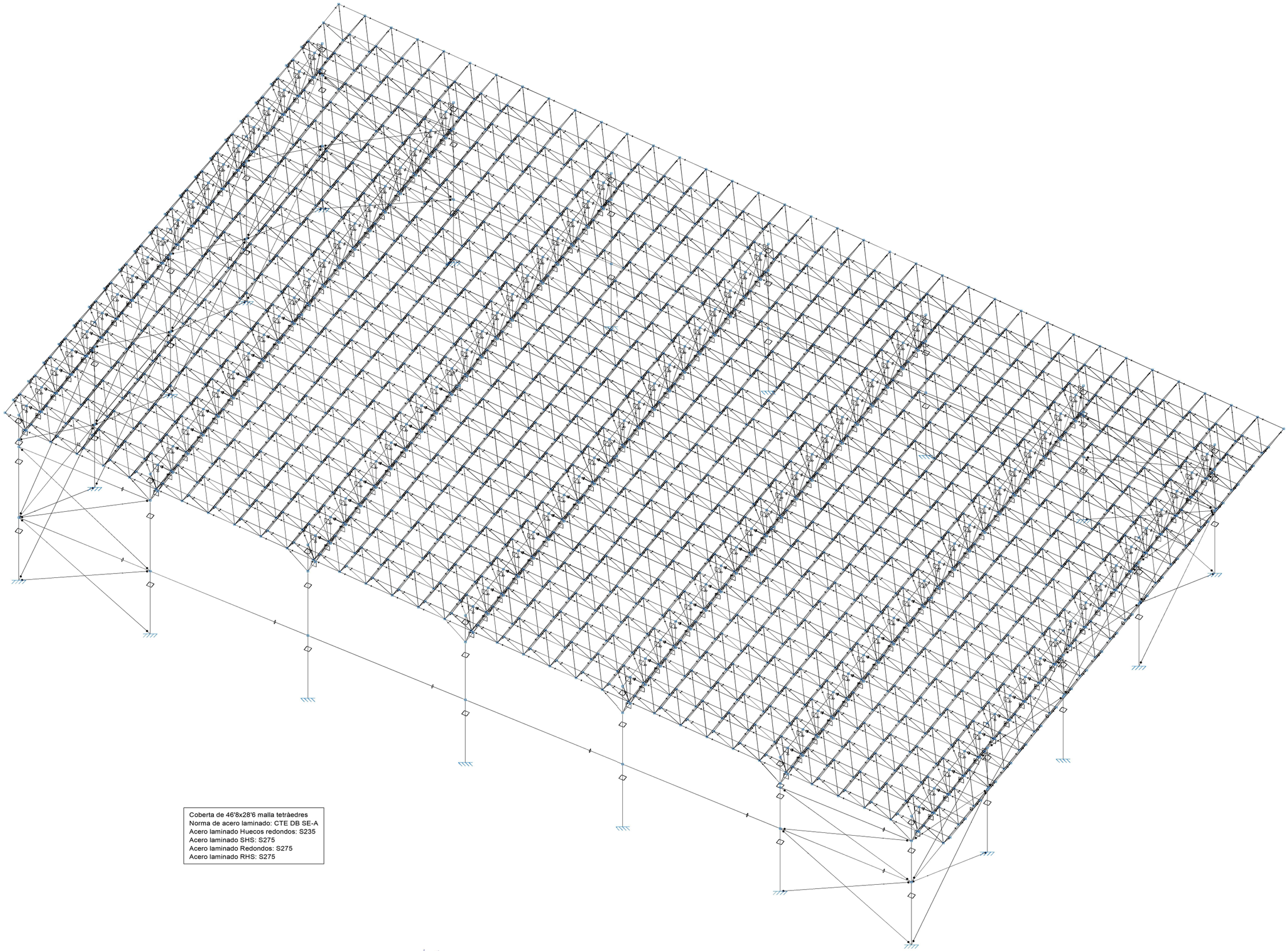


VISTA ALÇAT OEST



VISTA ESTRUCTURA

PROMOTOR Ajuntament de Tortosa	AUTOR DEL PROJECTE ALTER|ENGINYERIA ÀNGEL MULET BAUBÍ ENGINYER DE CAMINS, CANALS I PORTS COL·LEGIAT NÚM.: 31.205	PROJECTE PROJECTE EXECUTIU D'INSTAL·LACIÓ DE COBERTA A LES PISTES POLIESPORTIVES DEL PAVELLÓ DEL TEMPLE	TÍTOL DEL PLÀNOL FONAMENTACIÓ I ESTRUCTURA ENCAVALLADES III, VISTES 3D	PLÀNOL NÚM. 5 9 de 10	ESCALA S/E DATA MARÇ 2025



Coberta de 46'8x28'6 malla tetràedres
Norma de acero laminado: CTE DB SE-A
Acero laminado Huecos redondos: S235
Acero laminado SHS: S275
Acero laminado Redondos: S275
Acero laminado RHS: S275

PROMOTOR
Ajuntament de Tortosa

AUTOR DEL PROJECTE
ALTER|ENGINYERIA
ÀNGEL MULET BAUBÍ
ENGINYER DE CAMINS, CANALS I PORTS
COL·LEGIAT NÚM.: 31.205

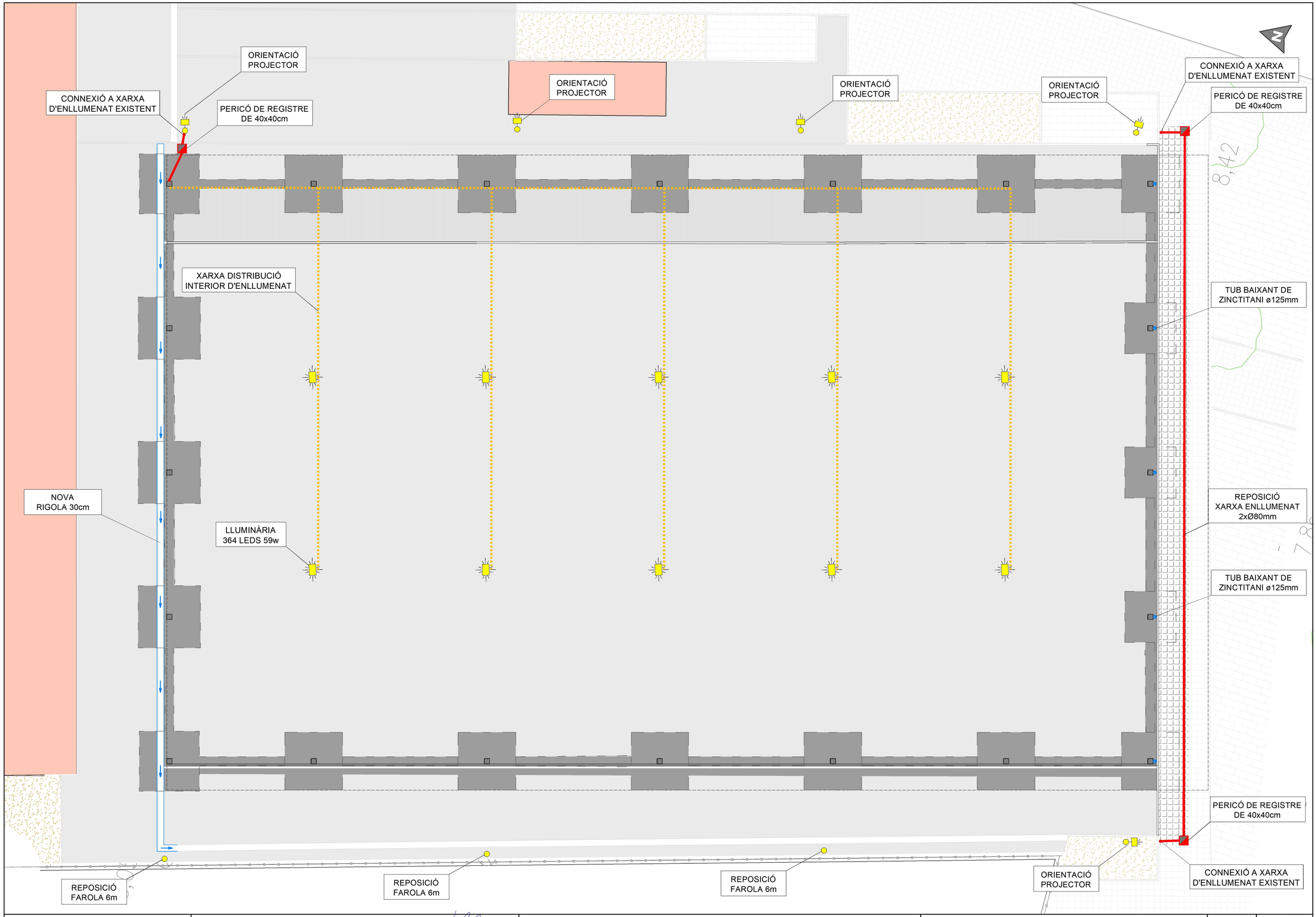
PROJECTE
PROJECTE EXECUTIU D'INSTAL·LACIÓ DE COBERTA
A LES PISTES POLIESPORTIVES DEL PAVELLÓ DEL TEMPLE

TÍTOL DEL PLÀNOL
FONAMENTACIÓ I ESTRUCTURA
VISTA ESTRUCTURA 3D

PLÀNOL NÚM.
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S/E

DATA
MARÇ 2025



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DOCUMENT 3 – PLECS DE PRESCRIPCIONS TÈCNIQUES

PLEC DE PRESCRIPCIONS TÈCNIQUES GENERALS

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1. AMPLITUD DEL CONTRACTE

La contracta comprèn tots els materials, mà d'obra, mitjans auxiliars i tot el que és necessari per a la realització de les obres, tal i com s'han projectat i amb les variacions autoritzades fins deixar-les llestes, netes, amb bon aspecte, correcte funcionament i perfecte estat d'utilització.

Comprèn també la supressió de les construccions i els elements innecessaris, la retirada de materials sobrers, les restes i la runa, la neteja i el condicionament de les àrees i locals de l'obra i exteriors, que per qualsevol concepte s'hagin utilitzat, per deixar-les en l'estat primitiu o en el que definitivament hagin de quedar.

2. DIRECCIÓ DE L'OBRA

El Director de l'obra és el tècnic designat per l'Administració i gaudeix de les més àmplies facultats per a la millor efectivitat de la seva missió, i se'l designa d'ara endavant com a Director.

Resol les qüestions tècniques d'interpretació del Projecte, inspecciona tot allò que es relaciona amb les obres, directament i indirectament, pot rebutjar aquells elements o pràctiques que, al seu parer, no són adients i dona les ordres oportunes per a la millor execució de les obres, sempre que no modifiquin les condicions del Contracte.

Pot comprovar, a cada moment, si el Contractista compleix amb totes les obligacions contractuals i legals, i pot conèixer i participar en totes aquelles previsions o actuacions que porta a terme el Contractista relacionades de qualsevol forma amb les obres.

Quan les ordres donades al Contractista referents a les obres, els materials, la neteja, els perills o els perjudicis, si la reparació dels perjudicis causats o d'altres d'anàloga naturalesa no fos acomplerta eficaçment i oportunament, el Director de l'obra pot manar d'executar-la amb càrrec al Contractista.

Acredita al Contractista les obres realitzades i practica les liquidacions.

Pot valer-se de col·laboradors, per tal que el representin o el substitueixin en totes o en part de les seves funcions, i ha de comunicar-ho al Contractista perquè els reconegui com a tal. Els col·laboradors estan integrats en la Direcció.

El Director d'obra interpreta el projecte i dona les ordres per al seu desenvolupament, marxa i disposició de les obres així com les modificacions que creu oportunes sempre que no alterin fonamentalment el Projecte o la classe de treballs i materials que hi són consignats.

El Contractista no pot introduir cap modificació sense l'autorització escrita del Director.

Si alguna part de l'obra classe o dels materials no queda prou especificada, presenta dubtes, resulta alguna contradicció en els documents d'aquest projecte o es pot suggerir alguna solució més avantatjosa durant la marxa de les obres, la Contracta ho ha de posar immediatament en coneixement de la Direcció d'obra, per escrit, i s'ha d'abstenir d'instal·lar els materials o executar l'obra en qüestió fins a rebre l'aclariment o resolució de la Direcció d'obra que també l'ha d'efectuar per escrit.

3. CONTRACTISTA

El Contractista és la part contractant obligada a executar l'obra.

Ha de realitzar bé les obres contractades i en el termini estipulat, sota la seva total i exclusiva responsabilitat i amb subjecció a les condicions del Contracte i a les ordres del Director.

Ha de signar el rebut al duplicat de les ordres que se li donen per escrit i subscriure amb la conformitat o l'objecció els comunicats o informes de les obres quan se li requereix.

Ha de donar compliment tot seguit a totes les ordres que rep del Director sense perjudici del dret de reclamació que l'assisteix. L'exercici d'aquest dret no l'eximeix del compliment de dites ordres, encara que de tal reclamació pot derivar-se'n justa indemnització al Contractista.

El Contractista té dret a que se li justifiqui la recepció de les comunicacions i les reclamacions que adreça al Director i tanmateix se li ha de comunicar per escrit qualsevol ordre verbal que li doni.

El Contractista està obligat a prestar col·laboració al Director i a les persones que el representen o ajuden, per al millor compliment de les seves funcions.

4. OBLIGACIONS I RESPONSABILITATS

El Contractista, o el seu representant, està obligat a ser present en l'obra totes les vegades que el cita el Director per escrit i especialment en els actes de replanteig, amidaments i recepcions.

En cas d'incompareixença injustificada, perd el dret d'al·legació o reclamació que l'assisteix a tals actes i ha d'estar a les conseqüències, i el Director li ha de lliurar, amb justificant de recepció, els documents que se'n derivin dels mateixos.

Si justifica degudament la falta d'assistència, té un termini de deu dies per reclamar o fer les al·legacions oportunes mitjançant escrit adreçat al Director.

Són a càrrec del Contractista totes les despeses derivades del Contracte i l'execució de les obres entre les quals s'hi compten:

- Mesures de seguretat, senyals i barrats.
- Replanteig, amidaments, controls de qualitat dels materials i de les obres, així com els elements i les obres provisionals o auxiliars.
- Assegurances del personal, les obres, la maquinària, la responsabilitat i els danys a tercers.
- Neteja i vigilància.
- Arbitris, impostos, etc, així com les multes, les sancions o les indemnitzacions per perjudicis que es deriven de l'execució de les obres.
- Els permisos, les llicències i les concessions que són necessaris per a l'execució de les obres, amb exclusió dels que són específics de l'Administració.
- Disposició d'una oficina d'obres en un lloc avinent, degudament condicionada, per al Director. On hi ha d'haver les còpies autoritzades dels documents contractuals del projecte i el llibre d'ordre. En demés s'hi ha de guardar, tots els documents que puguin ser necessaris consultar i també les mostres, el testimoni i qualsevol material que pugui ser convenient conservar.

El Contractista respon dels actes propis, dels del personal que li presta servei i també dels subcontractistes. Així mateix respon dels danys causats a l'obra per qualsevol causa, abans de la recepció. També són de la

seva exclusiva responsabilitat els danys i el perjudicis causats a tercers bé per la forma d'execució de l'obra, bé per omissió, bé per causa d'accident o bé per supòsit fortuït.

Ha de tenir cura que a causa de les obres, no es pertorben o malmeten els serveis existents.

Ha d'adoptar sota la seva exclusiva responsabilitat i vigilància les mesures per tal de garantir la més absoluta seguretat del personal de l'obra i de tercers.

Ha de complir i estar al corrent, a cada moment, amb les obligacions que, com a empresa, l'incumbeixen en matèries fiscal, laboral, Seguretat Social, Seguretat i Salut en el treball i de qualsevol altra classe que l'afecten.

Abans de començar les obres ha de comunicar al Director la seva residència i la del seu Delegat, a tots els efectes derivats de l'execució, així com qualsevol variació futura mentre dura. La residència del Delegat ha de ser a la localitat de les obres o altra pròxima, i ha de tenir l'autorització del Director.

El Contractista és l'únic responsable de totes les contravencions que ell comet durant l'execució de les obres, o el personal i elements que hi són relacionats i són del seu exclusiu compte les conseqüències que se'n poden derivar, així com els danys i perjudicis a tercers.

Igualment, el Contractista és l'únic responsable de l'execució de l'obra contractada, i no té dret a indemnització pel major preu a què poden resultar-li les distintes unitats, ni per les errades maniobres que pot cometre durant la seva construcció.

És responsable també davant els Tribunals dels accidents que poden sobrevenir i ha de tenir tot el personal degudament assegurat.

Igualment, és responsable de totes les obligacions legals i econòmiques derivades de les obres contractades.

La Contracta igualment ha de sol·licitar i obtenir els permisos municipals, de Delegació d'Indústria, etc., que, segons la legislació vigent, són precisos per a la realització i funcionament de les obres i instal·lacions.

La propietat de les obres l'ha d'autoritzar tots els documents que calen per a tal fi.

A banda de la senyalització de l'obra especificada en un altre article del plec, s'han de disposar rètols informatius, un a cada extrem de l'obra. Els esmentats rètols informatius s'han de col·locar abans del començament de l'obra i la correcta subjecció i visibilitat s'ha de comprovar en l'acta de replanteig.

La qualitat del material utilitzat ha de ser suficient per garantir-ne la conservació durant la durada de l'obra. En el cas de que s'observin defectes en el mateix, la DIRECCIÓ FACULTATIVA ha d'ordenar la seva immediata reparació o substitució. Si dites errades no s'esmenen en el termini de 48 hores la direcció facultativa encarregarà nous cartells amb càrrec al contractista.

Els cartells no són d'abonament però la propietat es reserva la possibilitat d'adquirir-los a l'acabament de l'obra amb càrrec a la partida d'imprevistos i al seu valor residual.

De no ésser retirats transcorregut 1 mes des de la data de recepció de l'obra s'entén que el contractista els cedeix gratuïtament a la propietat.

5. PERSONAL

El Contractista designa un Delegat que assumeix la direcció dels treballs i actua com a representant seu a tots els efectes referents a les obres i al compliment del contracte. Ha de residir en un lloc pròxim al dels treballs i ha de tenir suficient solvència tècnica i moral així com facultats per organitzar l'execució de les obres i posar en pràctica les ordres del Director.

La persona que es designa com a Delegat d'obra s'ha de comunicar al Director i aquest l'ha d'acceptar per ell, aquest aprecia lliurement la seva suficiència en tots els aspectes.

El Delegat col·labora amb el Director en la resolució de tots els problemes que es plantegen durant l'execució de les obres.

Quan la complexitat i naturalesa de les obres ho requereix, o bé per circumstàncies especials és convenient, a l'entendre del Director, aquest pot exigir al Contractista que el Delegat tingui la titulació professional adient a la naturalesa de les obres i que el Contractista designi en demés el personal facultatiu necessari sota la dependència d'aquell.

Quan la marxa dels treballs ho justifica, pot reclamar del Contractista la designació d'un nou Delegat o de qualsevol facultatiu que d' ell depèn.

A l'obra ha d'haver-hi sempre el nombre i la classe de personal tècnic, especialista i operaris que fa falta pel volum i naturalesa dels treballs que s'estiguin realitzant, personal amb reconeguda aptitud i experiència.

El Contractista respon de la idoneïtat i de la disciplina del personal assignat a l'obra. El Director té, a cada moment, la facultat d'exigir al Contractista la separació de l'obra de qualsevol persona que consideri inadequada, sense que el Contractista pugui reclamar perjudici per tal fet.

Si ho creu necessari, el Director pot designar vigilància a l'obra, sota la seva dependència.

Cap part de l'obra no pot ser subcontractada sense autorització de la direcció tècnica.

L'autorització pel contractista de prestacions i serveis auxiliars de tercers, no allibera el contractista de les seves obligacions i responsabilitats.

La propietat no és responsable subsidiària dels deutes contrets pel contractista.

6. GENERALITATS

Es fa constar, als efectes oportuns, que per tractar-se d'obres públiques el contractista té el coneixement previ de la possible existència de nombroses i diferents servituds de l'obra, com per exemple esteses d'empreses privades (gas, telèfons, electricitat, canonades) o de serveis públics (aigua, clavegueram).

Ja que es tracta d'informació dispersa entre els diferents titulars i essent útil només en quant estigui actualitzada a la data de començament dels treballs, s'inclou únicament en el projecte la relació de serveis existents per tal de facilitar i orientar a l'hora d'executar l'obra. Tot i això el contractista queda obligat a sol·licitar dita informació a les diferents companyies i als ajuntaments afectats abans de començar els treballs en compliment de l'establer a l'art. 7.

L'exacta localització, mitjançant cales, d'aquests serveis, el seu manteniment durant l'execució dels treballs (o la seva reposició a la finalització dels mateixos) i les possibles dificultats o minves de rendiment que la presència ocasioni, no són mai d'abonament, i es consideren com a despeses incloses en els preus unitaris.

No són tampoc d'abonament les despeses de manteniment o les de reparació per trencament, avaries, etc, que es produeixen en els anomenats serveis per les obres, fins i tot quan la seva posició no respon a la informació rebuda o són traçats imprevisibles ja que es considera que el contractista ha incomplert l'obligació de localitzar la seva posició exacta mitjançant cales, treball que el seu cost queda inclòs en el projecte tal i com s'ha dit.

Són d'abonament, sempre que la Direcció Facultativa les consideri obres necessàries per a l'execució del projecte i les autoritzi expressament, les modificacions de traçat (provisionals o definitives) o el seu reforç, amb preus de projecte o en el seu defecte, amb preus contradictoris.

El contractista té el deure d'avisar a la Direcció Facultativa quan el mal estat dels serveis trobats durant els treballs aconsella la seva reparació o renovació.

El contractista queda, a més, obligat a realitzar els treballs de millora puntual necessaris per arranjar els defectes detectats en la forma que determinen els serveis tècnics competents. Dits treballs són d'abonament als preus del projecte i, en el seu defecte, a preus contradictoris.

Ambdós casos, l'abonament es realitza amb càrrec a la partida d'imprevistos o es redacta l'oportú projecte addicional d'obres.

L'existència de serveis en nombre tal que impedeix l'excavació continuada a màquina a la generalitat o en zones importants de l'obra s'ha de plantejar a la direcció d'obra qui valora els fets i decideix les superfícies i/o volums que s'han d'abonar.

Les dificultats presentades per obstacles aïllats a l'execució normal de les unitats d'obres diferents de la pròpia excavació (per exemple: col·locació de canonades, extensió i compactació de ferms, etc.) es consideren sempre incloses en els respectius preus.

7. MATERIALS

Comprenen totes les matèries, els productes, els elements i els mecanismes que entren a formar part integrant de les obres i les instal·lacions.

Han de ser de primera qualitat dintre de la seva classe. Segons la seva naturalesa han de ser nous, sense defectes, en perfecte estat de conservació i ús. Han de complir les instruccions i les normes promulgades per l'Administració referents a condicions generals, homologació i control de qualitat, sense perjudici de les específiques que estableix el corresponent plec.

Han d'arribar a l'obra i s'han d'arreplegar en la seva presentació original, amb les marques de fàbrica, precintes i tots aquells distintius que els caracteritzen.

Les característiques dels materials insuficientment especificats al Plec de Condicions, o que no hi siguin continguts, les defineix el Director, i en el seu defecte seran dels tipus i qualitats emprats normalment per l'Empresa subministradora del servei.

Els materials a emprar han de ser acceptats pel Director abans de l'adquisició i arreplec a l'obra, amb aquesta finalitat el Contractista ha de lliurar-li oportunament les mostres, els catàlegs, les garanties, les anàlisis, els assaigs, els certificats i les especificacions suficients que permetin un judici clar de les qualitats dels materials proposats i la seva conveniència. Altrament, el Director pot manar retirar-los, encara que estiguin col·locats o suposin demolir parcialment l'obra, sense dret a indemnització. Si el Director creu necessari fer-ne analitzar o assajar algun, designa un laboratori perquè ho realitzi, atès el que preveu l'epígraf núm. 12. S'han d'arreplegar en els llocs i la forma adients, que assegurin la bona conservació, i no destorbin ni ofereixin perill. També cal mantenir-los sempre en bones condicions.

L'acceptació prèvia dels materials no suposa l'autorització definitiva, i es poden substituir, àdhuc després de col·locats, aquells que no reuneixen les condicions, els que tenen característiques distintes o defectes no percebuts en el primer reconeixement, per més que estiguin inclosos amidaments i certificacions. Les despeses que s'originen sempre són a càrrec del Contractista.

8. DOCUMENTS PER AL CONTRACTISTA

El Contractista rep un exemplar del Projecte de les obres que ha contractat. Pot adquirir en demés al seu càrrec totes les còpies dels plànols i d'altres documents que necessita per executar les obres, però no pot fer ús del Projecte i dels altres documents per altres fins que no són els estrictament contractuals, així com tampoc exhibir-los o cedir-los a tercers.

Els documents que queden incorporats al Contracte, salvat d'indicació distinta en les clàusules administratives, són:

- Memòria
- Plànols
- Plec de Condicions
- Pressupostos Parcials
- Quadre de Preus d'Unitats d'Obra
- Pressupost General

La inclusió en la contracta de les cubicacions i amidaments no implica l'exactitud respecte a la realitat.

Tots els altres documents i altres dades són informatius. El Contractista s'ha d'encertar de l'exactitud i procurar-se aquells altres que pot necessitar.

En cas de contradicció entre el Plec de condicions i els plànols, preval el primer.

Tot allò que s'esmenta en el Plec de Condicions i omès en els plànols o viceversa, ha de ser executat com si estigués contingut a ambdós documents, sempre que la unitat d'obra quedi suficientment definida i tingui preu en el Contracte.

9. REPLANTEIG I PROGRAMA DE TREBALLS

Adjudicades les obres, el Contractista ha de fer el replanteig en el termini legalment establert. Comprèn com a mínim els eixos principals que situen i caracteritzen les diverses parts de l'obra, així com els punts fixos i auxiliars necessaris pels successius replanteigs de detall, marcats de forma invariable i duradora. Quan ho té enllestit ho ha de comunicar al Director per a la seva comprovació. S'aixeca Acta i se'n lliura un exemplar al Contractista.

En l'Acta de replanteig hi ha de constar la conformitat o la disconformitat del replanteig respecte als documents contractuals del projecte així com qualsevol circumstància que pot afectar el compliment del Contracte.

Quan es fa constar alguna diferència o circumstància que implica una variació sensible del Projecte, s'han de valorar pel Director de l'obra les repercussions, als preus del Contracte, i s'ha de trametre a l'Administració perquè resolgui.

El contractista es responsabilitza de la conservació dels punts de replanteig.

Immediatament, el Contractista ha d'iniciar les obres i comunicar la data al Director, a qui ha de presentar el Programa de Treball que ha de contenir:

- Programa de les obres a realitzar, classe i volum.

- Mitjans que s'han d'emprar, amb expressió de la classe i el rendiment mitjà.
- Valoració mensual i acumulada de l'obra programada.
- Representació gràfica de les diverses activitats.
- El Programa de Treball i els mitjans a emprar han de ser aprovats pel Director.
- El termini d'execució comença a comptar des de la data de replanteig.

10. EXECUCIÓ I VARIACIONS DE LES OBRES

10.1. Generalitats

Els treballs s'han d'executar segons les condicions del Contracte i d'acord amb el programa de Treball aprovat, dels quals no pot diferir substancialment sense autorització.

La maquinària i altres elements de treball que s'han d'aportar a l'obra segons el programa o que el Director creu necessaris, han d'estar sempre en bones condicions i quedar adscrits durant l'execució de les unitats en què s'han d'utilitzar. No es poden retirar sense el consentiment del Director.

Les unitats d'obra realitzades amb materials o en forma distinta al prescrit en els documents del Contracte sense autorització prèvia, i les defectuoses, no s'han de pagar. El Director té la facultat d'exigir la demolició i reconstrucció de les parts que no compleixen les condicions establertes o si sospita, amb fonamentació que no les compleixen, i ha de realitzar-ho el Contractista al seu càrrec, el qual en demés és responsable dels perjudicis que, per aquesta causa, poden produir a l'Administració. Si demolida alguna part sospitosa de l'obra resulta que reunia les condicions exigibles al Contractista, se l'ha d'indemnitzar.

Si el Contractista substitueix un material per un altre de millor qualitat sense l'ordre escrita del Director, es paga únicament el preu estipulat al Contracte. Si realitza major volum d'obra sense que si li hagi ordenat, es realitza el pagament només de la part projectada. Si l'excés d'obra no és admissible, el Contractista està obligat a demolir-la.

Fins a la recepció, el Contractista respon de l'execució de l'obra contractada i de les faltes que hi hagin.

El muntatge d'elements i realització de les obres s'ha d'efectuar amb estreta subjecció a aquest Projecte, normes i disposicions oficials que li són d'aplicació i a les ordres que dóna el Director d'obra.

S'han d'efectuar amb els mitjans auxiliars necessaris i mà d'obra especialitzada i segons el bon art de cada ofici, de manera que a més del bon funcionament, han de tenir un bon aspecte i quedar perfectament acabades i en perfectes condicions de durada i conservació.

10.2. Treballs nocturns

Els treballs nocturns han de ser prèviament autoritzats pel director i realitzats només en els unitats d'obres que ell indica. El contractista ha d'instal·lar els equips d'il·luminació del tipus i intensitat que el director ordena i els ha de mantenir en perfet estat, mentre duren els treballs nocturns.

10.3. Construcció i conservació de desviaments

Si, pel fet de preveure en els documents contractuals, o per necessitats sorgides posteriorment, fos necessària la construcció de desviaments provisionals o rampes d'accés als trams parcialment o totalment acabats, s'han de construir d'acord amb les característiques que figuren en els corresponents documents contractuals del projecte o, en el seu defecte, de manera que han de ser adequats al trànsit que han de suportar i segons les ordres del director. La seva conservació durant el termini d'utilització és a compte del contractista.

10.4. Senyalització i altres mesures de seguretat a l'obra

El contractista, des del mateix començament de l'obra, té l'obligació expressa de garantir per tots els mitjans possibles la seguretat dels seus propis treballadors i de les persones i béns en general. Per això, ha de senyalitzar les obres (o altres zones properes que siguin necessàries) de forma correcta i suficient i dirigir l'execució dels treballs de forma prudent.

En conseqüència, els accidents o danys que es puguin produir, imputables a les obres o a la seva senyalització són de la responsabilitat exclusiva del contractista.

Abans de procedir a qualsevol regulació i, en el seu cas, desviament del trànsit afectat (tant de vianants com motoritzat) el contractista ha de sol·licitar de la Direcció Facultativa l'autorització oportuna i la realització de les gestions necessàries davant l'organisme competent (guàrdia urbana, Ministeri de Foment, Generalitat, etc).

Els treballs de senyalització, de regulació del trànsit, les actuacions destinades a garantir la seguretat de l'obra i tots els mitjans materials que són necessaris per a tot això (senyals, tancaments, marques viàries, balises reflectores i lluminàries, enllumenat nocturn, vigilants, etc.) es consideren despeses incloses en els preus unitaris del projecte.

La presència, regular o no, de tècnics municipals (o membres de la guàrdia urbana, Ministeri de Foment, etc.) en la seva funció de control i comprovació no eximeix ni relleva el Contractista d'aquesta responsabilitat, només en els casos que la direcció facultativa hagi rellevat el contractista en les seves funcions de direcció de treballs.

La Direcció Facultativa ha d'advertir el contractista de totes les deficiències que observa i ha de ser considerat com a d'obligat compliment per part del contractista (art. 23 P.C.G.A.)

La repetició dels esmentats defectes o la poca diligència en la seva correcció s'ha d'anotar per la Direcció Facultativa al Llibre d'Ordres, i una còpia del full ha de ser tramesa a l'òrgan contractant als efectes oportuns.

10.5. Precaucions especials durant l'execució de les obres

10.5.1. *Pluges*

Durant les diverses etapes de la construcció, les obres s'han de mantenir sempre en perfectes condicions de drenatge. Les cunetes i altres desguassos s'han de conservar i mantenir de manera que no es produeixin erosions en els talussos adjacents.

10.5.2. *Gelades*

Si hi ha temor que es produeixin gelades, el contractista de les obres ha de protegir totes les zones que poden quedar perjudicades pels efectes conseqüents. Les parts d'obra malmeses s'han d'alçar i reconstruir a la seva costa, d'acord amb el que s'assenyala en aquestes prescripcions.

10.5.3. *Incendis*

El contractista s'ha d'atenir a les disposicions vigents per a la prevenció i control d'incendis i a les instruccions complementàries que figuren en les prescripcions tècniques, o que dicta el director. En tot cas, ha d'adoptar les mesures necessàries per evitar que s'encenguin focs innecessaris, i és responsable d'evitar la propagació dels que es requereixen per a l'execució de les obres, així com dels danys i perjudicis que es poden produir.

10.5.4. *Ús d'explosius*

L'adquisició, el transport, l'emmagatzematge de les metxes, els detonadors i els explosius s'ha de regir per les disposicions vigents que regulen la matèria i per les instruccions especials complementàries que dicta el director.

Els magatzems d'explosius han de ser clarament identificats i estar situats a més de 300 m de la carretera o de qualsevol construcció.

En les voladures s'ha de posar especial cura en la càrrega i encesa de les barrinades, i s'ha d'avisar de la descàrrega amb antelació suficient per evitar possibles accidents.

L'encesa de les barrinades s'ha de fer, de ser possible, a hora fixa i fora de la jornada de treball, durant els descansos del personal operari al servei de l'obra en la zona afectada per les voladures, i no és permesa la circulació de persones o vehicles dintre del radi d'acció de les barrinades, des de cinc minuts abans d'encendre les metxes fins després que hagin esclatat totes.

Sempre que sigui possible, l'encesa s'ha d'efectuar mitjançant comandament elèctric a distància, o s'han d'emprar metxes i detonadors de seguretat.

El personal que intervé en la manipulació i utilització d'explosius ha de ser de reconeguda pràctica i perícia en aquestes feines i ha de reunir les condicions adequades, en relació amb la possibilitat que correspon a aquestes operacions.

El contractista ha de subministrar i col·locar els senyals necessaris, per advertir al públic del seu treball amb explosius. L'emplaçament i estat de conservació ha de garantir, sempre, la perfecta visibilitat.

Correspon al contractista, en el seu treball de direcció i gestió de l'obra la prevenció dels danys que es puguin produir per pluges, gelades, altres accidents atmosfèrics, voladures, etc.

Les despeses que els esmentats treballs poden produir es consideren incloses en els preus i en conseqüència no són en cap cas d'abonament a excepció dels casos previstos a *l'art. 132 del Reglament general de contractació de l'Estat (vegeu clàusula 14 del PCAG)*

Tampoc són d'abonament els danys produïts per l'omissió de les esmentades tasques preventives.

El contractista és el responsable únic dels danys a tercers que per les causes esmentades es puguin produir.

10.5.5. *Obres de condició especial*

Sempre que, a judici del director de l'obra, hi hagin algunes parts de l'obra que, per llur índole particular, requereixen especial cura, es poden designar tres o més especialistes acreditats perquè el contractista triï el que ha d'executar-la, sempre que el preu que compti els esmentats especialistes estigui dintre del Quadre de Preus que acompanya al projecte amb un marge d'un 5% a favor del contractista, en concepte d'indemnització per despeses generals.

Aquest mateix dret es reserva al director per a certs materials la fabricació dels quals requereix condicions especials.

Si el contractista executa alguna part de les obres en forma defectuosa, o malament, per error o contràriament a les bones normes de la construcció, ordres rebudes o que no s'ajusta al projecte, l'ha de demolir i tornar a fer, tantes vegades com sigui necessari, i les despeses que això ocasioni aniran al seu compte.

Si les deficiències no comprometen la seguretat, funcionament, utilitat i bon aspecte dels treballs d'una manera essencial, i no poden, a judici del director de l'obra, conservar-se, el contractista pot reparar-la fins a deixar-la de la millor manera possible, i sofrir en aquest cas, la peça o element, el desmèrit que pugui tenir a judici del director.

La interpretació del projecte és missió exclusiva del director de l'obra, el qual resol segons el seu criteri qualsevol dubte i supleix les omissions que poden haver-hi en el projecte.

Qualsevol dubte, deficiència o omissió ha de ser aclarit i reposat abans de començar els treballs a què fa referència.

11. CONTROL DE QUALITAT

Per controlar la qualitat de les obres, el Contractista ha d'efectuar, al seu càrrec, els assaigs en les condicions i freqüència que s'estableixen al Plec de condicions i en el seu defecte en les instruccions i normes oficials. Si no està regulat per cap dels documents ressenyats s'ha de procedir segons determina el Director.

Durant el decurs de les obres, i en el seu període de garantia el Director pot ordenar que es realitzin quantes proves, assaigs i anàlisis que cregui oportunes per comprovar la qualitat dels materials i bona execució de l'obra efectuada encara que els materials no estiguin indicats en aquest plec. El Contractista està obligat a donar totes les facilitats que calguin, aportar els mitjans auxiliars i el personal necessaris i suportar al seu càrrec, totes les despeses que es puguin originar fins un import màxim de l'1% del pressupost de l'obra.

De les proves realitzades s'ha d'estendre Acta que s'ha de tenir en compte per la recepció de l'obra.

En cas de disconformitat del Contractista amb els assaigs efectuats s'ha d'acudir a un Laboratori oficial designat pel Director, perquè les efectuï.

12. MODIFICACIONS DEL PROJECTE

No s'admet cap variació sobre l'obra definida en el projecte ni sobre l'execució establerta en el programa de treball, sense l'autorització escrita del Director de l'obra. Qualsevol dubte, deficiència o omissió al projecte ha de ser aclarida pel Contractista abans de començar les unitats d'obra a què es refereixi.

L'Administració pot, durant l'execució de les obres, suprimir la realització d'alguns treballs o afegir-ne altres no previstes, sempre que el total de les supressions o addicions valorades als preus de Contracte no disminueixin o sobre pugin més d'un vint per cent del total de l'obra contractada i en el cas d'excedir-ne, sempre que el Contractista hi estigui d'acord.

Amb independència de les supressions o condicions esmentades, el Contractista ha d'introduir les modificacions que li ordena el Director, quan les creu imprescindibles per mantenir totes les condicions d'estabilitat, seguretat i qualitat previstes en el projecte. Si aquestes modificacions per la quantia o naturalesa justifiquen variacions sensibles de preu o termini d'execució, el Contractista ha de sol·licitar per escrit que es tinguin en compte i l'Administració acordarà el que cregui adient.

El Contractista pot proposar també modificacions sobre l'obra projectada, degudament justificades al Director i aquest les resol d'acord amb les seves facultats. Si a les variacions o a les modificacions hi figura alguna unitat d'obra, el preu de la qual no compta en el Contracte ni se'n pot deduir, s'ha de determinar pel sistema de preus contradictoris, a partir fins on sigui possible dels costos elementals que figuren en el projecte i en tot cas als corresponents a la data de la seva licitació.

Només són considerades com a millores i modificacions del Projecte aquelles que hagin estat ordenades expressament per escrit per la Direcció d'obra i convingut preu abans d'executar-les.

L'entitat contractant tindrà dret a segregar de la contracta, totalment o parcial, totes les obres que cregui convenient, sempre que l'import de les segregacions no excedeixi de la cinquena part de l'import total de la contracta. La contracta en cap cas no podrà pretendre cap segregació.

13. AMIDAMENT I MESURAMENT DE LES OBRES

Les obres s'amiden per unitats completament acabades, i se'ls aplica a cadascuna el mètode que especifiquen els documents del Contracte i, per defecte, a criteri del Director. Als amidaments hi ha d'assistir el Contractista, el qual pot manifestar les observacions i les reclamacions que cregui oportunes.

Aquelles parts o unitats que han de quedar ocultes, o impliquen la desaparició d'elements necessaris per poder efectuar l'amidament, aquest s'ha de fer al moment oportú. El Contractista ha d'avisar amb temps suficient al Director perquè pugui prendre les dades necessàries, altrament aquest actua segons el seu bon criteri i el Contractista ha d'acceptar el resultat.

Les unitats que s'han de pagar a pes, es comprovaran abans de posar-les en l'obra, en presència del Director.

Pel que fa a l'amidament i mesurament de les obres és d'aplicació també tot el que disposen les prescripcions particulars quant a això.

Les unitats s'abonen pel seu volum, pel seu pes, per la seva superfície, per la seva longitud o pel seu nombre d'unitats realment executades, d'acord a com figuren especificades al Quadre de Preus corresponent. Per a les unitats noves que poden presentar-se s'ha d'especificar clarament la forma d'abonament en convenir el seu preu actual contradictori. En altres casos, s'ha d'estar a l'admès a la pràctica habitual.

14. VALORACIÓ I PAGAMENT DE LES OBRES

14.1. Generalitats

Es paguen al Contractista les obres que realment ha portat a terme d'acord amb el projecte i les modificacions autoritzades.

Amb aquesta finalitat el Director lliura la certificació de les unitats d'obra acabades, en els terminis establerts en el Contracte i per defecte mensualment. Per això es fa la relació valorada dels treballs realitzats "a l'origen" previ amidament. La contracta tindrà un termini de vuit dies per examinar-ho i donar la seva conformitat i objeccions.

Les relacions valorades i les certificacions consegüents tenen caràcter provisional i els pagaments a què donen lloc es conceptuen a la bestreta, i queden pendents de la liquidació final per a la confirmació o la rectificació.

Sempre que en el Contracte no s'especifica una modalitat distinta, les obres es valoren als preus d'execució material que figuren en el projecte, als especials establerts i si escau, als que es fixen contradictòriament. Se'ls ha d'augmentar el tant per cent adoptat per obtenir el Pressupost de Contracta i del resultat es descompta la baixa obtinguda en la rematada.

Les obres de terra s'amiden i es valoren segons les unitats d'obra definides i aplicades en els pressupostos parcials d'execució material, amb els preus emprats en el mateix document, bé si són resultat de preu d'unitat d'obra, bé de preu mitjà establert en el projecte. Els preus mitjans establerts corresponen a estudis previs del terreny o a estimacions d'altres obres realitzades en la mateixa població o contrada. Els percentatges dels diferents components del terreny s'entenen a risc i ventura del Contractista, sempre que les clàusules administratives o el Contracte no especifiquin altra modalitat.

Tots els treballs, els mitjans auxiliars i els materials necessaris per a la correcta execució i acabat de qualsevol unitat d'obra, es consideren inclosos al preu de la mateixa, encara que no hi figurin tots els especificats en la descomposició o en la descripció dels preus.

14.2. Valoració d'obres defectuoses acceptables

Si per excepció s'ha executat alguna obra que no es troba arreglada exactament a les condicions de la contracta, però que, tanmateix, és admissible a judici del director, aquest proposa al contractista la rebaixa que sembli justa en el preu.

El contractista pot optar entre acceptar la rebaixa proposada o demolir l'obra a la seva costa i refer-la, d'acord amb les expressades condicions.

14.3. Preus contradictoris

Si s'esdevé algun cas en què fos necessari fixar un nou preu perquè la unitat d'obra no està compresa a la contracta o perquè les seves característiques difereixen substancialment de les del contracte, s'ha d'estudiar i convenir-lo contradictòriament pel següent sistema:

El contractista, a partir dels quadres de preus del pressupost de l'obra, formula per escrit, sota la seva signatura, el preu que, al seu judici, ha d'aplicar-se a la nova unitat.

El director de l'obra o aquella persona que designa estudia el que, al seu criteri, s'ha de fixar.

Si ambdós preus coincideixen, la direcció formula l'acta d'avinença, igual que si qualsevol petita diferència o error fos salvat per simple exposició i convicció d'una de les parts, i queda així formalitzat el preu contradictori.

Si no és possible conciliar per simple discussió els resultats, el director proposa a la propietat que adopti la resolució que estimi convenient als seus interessos.

14.4. Excés d'obra

El contractista únicament té dret a percebre l'import de l'obra executada. Les diferències entre aquesta i la pressupostada no donen dret a cap tipus d'indemnització.

Tampoc s'abona l'obra en excés, en relació amb la definida en el projecte, si a criteri de la direcció facultativa ha estat innecessàriament executada, i sense haver-ho ordenat.

14.5. Obres incompletes

Quan cal valorar obres incompletes s'apliquen els preus del projecte segon les unitats que hi consten, segons el Quadre de Preus Núm. 2 Aquelles unitats que no estan completament acabades no es valoren, i el contractista les pot acabar completament o renunciar a l'import de les efectuades parcialment. No es pot pretendre la valoració de cada unitat d'obra fraccionada en forma distinta a la valoració de dit quadre.

En cap d'aquests casos no tindrà el contractista dret a cap reclamació fonamentada en insuficiència als preus del dit Quadre en l'omissió dels costs de qualsevol dels elements que constitueixen els referits preus.

14.6. Partides alçades

Les obres que figuren al Pressupost d'aquest Projecte per quantitat alçada i que hauran de ser executades d'acord amb les prescripcions d'aquest Plec, seran amidades i valorades com les restants, d'acord amb els preus que figuren al Quadre de Preus núm. 1, i si es tractés d'unitats d'obra no incloses en dit quadre s'abonaran al preu que es fixi contradictòriament, prèviament aprovat per la Direcció d'obra.

Les partides alçades de pagament íntegre es paguen al contractista a l'acabament dels treballs en les condicions adequades.

No s'abonarà cap partida alçada en concepte de mitjans auxiliars, puix que totes les despeses d'aquest índole són incloses als corresponents preus unitaris.

14.7. Abonaments de provisions

Els materials arreplegats a peu d'obra, sempre que siguin útils i no hi hagi perill que desapareguin de les obres o es deteriorin, es poden valorar, al parer del Director, al 75 % del preu que figura en el Quadre de Preus núm. 1. En cas de rescissió del contracte es paguen per la totalitat del seu valor, sempre que reconeguin les condicions esmentades.

14.8. Obres imprevistes

Les obres no previstes s'abonen pels quadres de preus d'aquest pressupost, segon el volum d'obra corresponent, i s'estableix, si cal, pel fet de no figurar les dites unitats en el Pressupost, en preus contradictoris precisos.

El dit preu contradictori el formarà el Director a partir dels que han servit per a la formació del pressupost d'aquest projecte o, si no hi hagués base, pels d'ús comú a la localitat als preus oficials quedant obligat el contractista a acceptar-los.

14.9. Esgotaments

No s'abonaran les despeses d'esgotament que, per qualsevol causa poguessin tenir les unitats d'obra pròpiament dites, per raó de la presència d'aigua o posició, com disminució del rendiment, primes al personal, botes i vestits d'aigua, etc., els quals es consideren inclosos en els preus de les unitats.

14.10. Mitjans auxiliars

En cas de rescissió per incompliment del contracte per part del contractista, els mitjans auxiliars del constructor podrem ser utilitzats lliurament i gratuïta per la Direcció d'Obra per a la terminació dels treballs.

Si la rescissió sobrevé per altres causes els mitjans auxiliars del constructor podran ser utilitzats per la Direcció d'obra fins a l'acabament dels treballs, gratuïtament, si la quantitat d'obra executada assolís els 4/5 de la totalitat i mitjançant el pagament del 10% anual del valor en que hagin estat taxats els dits mitjans auxiliars, si la quantitat d'obra executada no assolís la xifra anteriorment esmentada.

En qualsevol cas, tots aquests mitjans auxiliars quedaran propietat del contractista, un cop acabades les obres, però no tindrà dret a cap reclamació pels desperfectes a que el seu ús hagi donat lloc.

15. OBRES COMPLEMENTÀRIES

Obres complementàries són les que per la seva naturalesa, no es poden preveure o detallar suficientment, sinó és en el decurs dels treballs.

S'efectuen d'acord amb el projecte, els plànols que es lliuren al Contractista i les ordres que dóna el Director. S'executen en les mateixes condicions i prescripcions que la resta del Projecte.

16. SUSPENSIÓ DE LES OBRES I PRÒRROGUES DE TERMINI

Si per causa de força major s'han de suspendre totalment o parcialment les obres, el Contractista ho ha de comunicar per escrit al Director tan aviat com es produeix la causa o paralització. Sense aquest requisit no pot tenir-se en compte per a la pròrroga de termini, encara que fos procedent.

Sempre que l'Administració acorda la suspensió total o parcial de les obres i aquesta suspensió pugui produir danys o perjudicis demostrats al Contractista, la determinació ha d'atendre entre altres factors, la pertorbació, el ritme previst de les obres i les seves conseqüències, la utilització de la maquinària, les instal·lacions i el personal.

17. REVISIÓ DE PREUS

El Contracte s'entén a risc i ventura del Contractista sense que pugui sol·licitar augment de preu o indemnització, llevat que disposicions de caràcter oficial que li siguin aplicables estableixin la clàusula revisaria, o s'accepti i reguli expressament bé en les clàusules administratives bé en el contracte.

18. RESCISSIÓ

Si l'execució de les obres no fos adequada o si el material presentat no reunís les condicions necessàries, es podrà procedir a la rescissió del contracte amb pèrdua de la fiança.

En aquest cas, es fixarà un termini per determinar les unitats, la paralització de les quals pogués perjudicar les obres, sense que durant aquest termini no es comencin nous treballs. No s'abonaran les provisions que s'haguessin efectuat.

19. FIANCES

La contracta en el termini de 48 hores, a comptar de la data en què se li comuniqui l'adjudicació, dipositarà com a finança a l'Ajuntament, com a dipòsit per respondre del compliment del present Plec de Condicions, l'1% de l'import líquid a que ascendeixen les obres contractades, amb deducció de la baixa de concurs.

A més d'aquesta fiança, es retindrà en el mateix concepte el 10% de l'import de cadascuna de les liquidacions parcials.

20. TERMINI D'EXECUCIÓ

Els treballs començaran dintre dels vuit dies naturals a comptar de la data de la publicació de l'adjudicació i es donarà coneixement per escrit a l'Enginyer Director de la data de començament dels treballs, data des de la qual es començarà a comptar el termini d'execució de les obres compreses en el present Plec de Condicions.

Per cada dia de demora en la finalització dels treballs respecte al termini fixat, li serà imposada una multa de quantitat a fixar pel Director.

Si per qualsevol causa, aliena per completa a la Contracta, no fos possible començar els treballs en la data prefixada, o els hagués de suspendre, se li concedirà la pròrroga estrictament necessària per part de la Direcció d'Obra.

En cas que la Contracta no comencés a reprendre els treballs dintre de les 48 hores següents, es durà a terme la rescissió de la Contracta amb pèrdua de la fiança.

21. RECEPCIÓ DE LES OBRES

Quaranta-cinc dies abans d'acabar-se les obres, el Contractista ho ha de comunicar per escrit al Director i dintre del mes següent del final, s'ha de fer la recepció. El Contractista lliura les obres i les rep

l'Administració en la forma reglamentària, sempre que estiguin ben realitzades i en bon estat. De la recepció s'ha d'estendre Acta, amb tants exemplars com sigui necessari, un dels quals es lliura al Contractista. En aquesta acta pot fer-se constar les al·legacions que s'estimin pertinents. En cas d'incompareixença justificada poden fer-se les al·legacions per escrit en el termini de deu dies.

En cas de trobar-se l'obra en estat de recepció, es farà constar així l'acta i l'Enginyer Director donarà a la contracta les instruccions precises i detallades per reparar els defectes observats, fixant-se un termini per efectuar-li-ho, expirat el qual es farà nou reconeixement. Les obres requerides en les dites instruccions seran de compte i càrrec de la contracta.

Si la contracta no hagués complert, es declararà rescindida la contracta, amb pèrdua de fiança, de no ser que l'Entitat contractant cregui prudent concedir un nou termini que serà improrrogable.

22. TERMINI DE GARANTIA

Rebudes les obres comença a comptar el termini de garantia d'un any, salvat d'especificació distinta.

Durant aquest temps el Contractista ha de conservar l'obra segons les condicions que fixa el Plec o les prescripcions particulars. Ha de respondre dels danys i de la deterioració que pugui produir-se en l'obra, a no ser que es provi que els mateixos han estat causats pel mal ús que haguessin fet els usuaris o Entitat encarregada de l'explotació. En aquest supòsit té dret al reembossament de l'import dels treballs que s'hagin de fer per restablir l'obra a les condicions degudes.

23. DEVOLUCIÓ DE LA FIANÇA

Aprovades la recepció i liquidació definitives es tornarà la fiança a la Contracta, després de que la Contracta hagi acreditat que no hi ha cap reclamació contra aquella, de tots aquells pagaments que es relacionen amb les obres.

En abandonar la Contracta les obres, estarà obligada a deixar desocupats i nets els locals i terrenys, que hagin ocupat.

24. LIQUIDACIÓ DE LES OBRES

Rebudes les obres s'ha de fer l'amidament general i definitiu, amb assistència del Contractista. Per les parts que resten ocultes o inaccessibles serveixen les dades del moment de l'execució.

Es valoren les unitats d'obra corresponent als preus que per cada unitat consta en els pressupostos parcials d'execució material del projecte, o els establerts i aprovats posteriorment.

El Contractista pot posar de manifest les objeccions a la liquidació que cregui oportunes, en el termini de trenta dies; una vegada transcorregut el termini sense manifestar cap objecció, s'entén que n'està conforme.

25. CARÀCTER D'AQUEST CONTRACTE

Es voluntat d'ambdues parts contractants que, un cop acceptat el present Plec de Condicions tingui, respecte del seu compliment, la mateixa força i valor d'una escriptura pública, degudament atorgada amb el reintegrament corresponent a la Hisenda.

Tant l'entitat contractant, com la contractada, es reserven la facultat d'elevar aquest document a escriptura pública en qualsevol estat de l'obra.

Els impostos de drets Real i Timbres seran d'exclusiu càrrec de la Contracta, així com totes les altres contribucions, impostos i arbitris.

Tortosa, a data de la signatura digital



Àngel Mulet Baubí
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Col·legiat núm.: 31.205
Alter Enginyeria Aplicada, SLP

PLEC DE PRESCRIPCIONS TÈCNIQUES PARTICULARS

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1. B MATERIALS I COMPOSTOS

B MATERIALS I COMPOSTOS

B0 MATERIALS BÀSICS

B01 LÍQUIDS

B011- AIGUA

0.- ELEMENTS QUE CONTEMPLA EL PLEC

B011-05ME.

1.- DEFINICIÓ I CONDICIONS DELS ELEMENTS
Aigües utilitzades per algun dels usos següents:
- Confecció de formigó
- Confecció de morter
- Confecció de pasta de guix
- Reg de plantacions
- Conglomerats de grava-ciment, terra-ciment, grava-emulsió, etc.
- Humectació de bases o subbases
- Humectació de peces ceràmiques, de ciment, etc.

CARACTERÍSTIQUES GENERALS:
Poden ser utilitzades les aigües potables i les sancionades com a acceptables per la pràctica.
Es poden utilitzar aigües de mar o salines anàlogues per a la confecció o curat de formigons sense armadura. Per a la confecció de formigó armat o pretesat es prohibeix l'ús d'aquestes aigües, tret del cas que es facin estudis especials.
Es podrà utilitzar aigua reciclada provinent del rentat dels camions formigonera a la pròpia central de formigó, sempre que compleixi les especificacions anteriors i la seva densitat sigui <= 1,3 g/cm3 i la densitat total sigui <=1,1 g/cm3
L'aigua a utilitzar tant en el curat com en la pastada del formigó, no ha de contenir cap substància perjudicial en quantitats que puguin afectar a les propietats del formigó o a la protecció de l'armat.
Si ha d'utilitzar-se per a la confecció o el curat de formigó o de morters i no hi ha antecedents de la seva utilització o aquesta presenta algun dubte s'haurà de verificar que acompleix totes aquestes característiques:
- Exponent d'hidrogen pH (UNE 83952): >= 5
- Total de substàncies dissoltes (UNE 83957): <= 15 g/l (15.000 ppm)
- Sulfats, expressats en SO4- (UNE 83956) - Ciment tipus SR,SRC: <= 5 g/l (5.000 ppm) - Altres tipus de ciment: <= 1 g/l (1.000 ppm)
- Ió clor, expressat en Cl- (UNE 83958) - Aigua per a formigó pretesat: <= 1 g/l (1.000 ppm) - Aigua per a formigó armat: <= 2 g/l - Aigua per a formigó en massa amb armadura de fissuració: <= 2 g/l
- Hidrats de carboni(UNE 83959) : 0
- Substàncies orgàniques solubles en èter (UNE 83960): <= 15 g/l (15.000 ppm)

Álcalis Na2O: >= 1,5 g/l
Ió clor total aportat per components d'un formigó no pot superar:
- Pretensat: <= 0,2% pes de ciment
- Armat: <= 0,4% pes de ciment
- En massa amb armadura de fissuració: <= 0,4% pes de ciment

2.- CONDICIONS DE SUBMINISTRAMENT I EMMAGATZEMATGE
Subministrament i emmagatzematge: De manera que no s'alterin les seves condicions.
3.- UNITAT I CRITERI D'AMIDAMENT
Unitat d'amidament: la indicada a la descripció de l'element
Criteri d'amidament: quantitat necessària subministrada a l'obra
4.- NORMATIVA DE COMPLIMENT OBLIGATORI
Real Decreto 470/2021, de 29 de junio, por el que se aprueba el Código Estructural.
5.- CONDICIONS DE CONTROL DE RECEPCIÓ

OPERACIONS DE CONTROL:
Abans de l'inici de l'obra i si no es tenen antecedents de l'aigua que es vol utilitzar, o es tenen dubtes, s'ha d'analitzar l'aigua per determinar:
- Exponent d'hidrogen pH (UNE 83952)
- Contingut de substàncies dissoltes (UNE 83957)
- Contingut de sulfats, expressats en SO4 (UNE 83956)
Contingut en ió clor Cl- (UNE 83958)
- Contingut d'hidrats de carboni (UNE 83959)
- Contingut de substàncies orgàniques solubles en èter (UNE 83960)
En cas d'utilitzar aigua potable de la xarxa de subministrament, no serà obligatori realitzar els assajos anteriors.
En altres casos, la DF o el Responsable de la recepció en el cas de centrals de formigó preparat o de prefabricats, s'ha de disposar la realització dels assajos en laboratoris contemplats en l'apartat 78.2.2.1, per tal de comprovar el compliment de les especificacions de l'article 29 del CODI ESTRUCTURAL.
CRITERIS DE PRESA DE MOSTRES:
Els controls s'han de realitzar segons les instruccions de la DF i el CODI ESTRUCTURAL, realitzant-se la presa de mostres segons la UNE 83951.
INTERPRETACIÓ DE RESULTATS I ACTUACIONS EN CAS D'INCOMPLIMENT:
No s'ha d'acceptar l'aigua que no compleixi les especificacions, ni per a l'amasat ni per al curat.

B0 MATERIALS BÀSICS

B03 GRANULATS

B03L- SORRA

0.- ELEMENTS QUE CONTEMPLA EL PLEC

B03L-05MY,B03L-05N7,B03L-05N5.

1.- DEFINICIÓ I CONDICIONS DELS ELEMENTS
Sorra procedent de roques calcàries, roques granítiques, marbres blancs i durs, o sorra procedent del reciclatge de residus de la construcció i demolició en una planta legalment autoritzada per al tractament d'aquest tipus de residu.
S'han considerat els tipus següents:
- Sorra de marbre blanc
- Sorra per a confecció de formigons, d'origen:
Sorra per a confecció de formigons, d'origen: - De pedra calcària - De pedra granítica
- Sorra per a confecció de morters
- Sorra per a reblert de rases amb canonades
- Sorres procedents de reciclatge de residus de la construcció i demolicions
CARACTERÍSTIQUES GENERALS:
El contractista ha de sotmetre a l'aprovació de la DF les pedreres o dipòsits d'on s'han d'obtenir els àrids, aportant tots els elements justificatius que cregués convenients o que li fossin requerits pel Director d'Obra, entre d'altres:
- Classificació geològica.
- Estudi de morfologia.
- Aplicacions anteriors.
La DF ha de poder refusar totes aquelles procedències que, al seu criteri, obligarien a un control massa freqüent dels materials que se n'extraguessin.
Els grànuls han de tenir forma arrodonida o polièdrica.
La composició granulomètrica ha de ser l'adequada al seu ús, o si no consta, la que estableixi explícitament la DF.
No ha de tenir margues o altres materials estranys.
Contingut de pirites o d'altres sulfurs oxidables: 0%
Contingut de matèria orgànica (UNE-EN 1744-1): Color més clar que el patró

Contingut de terrossos d'argila (UNE 7133): <= 1% en pes
Els àrids no han de ser reactius amb el ciment. No s'utilitzaran àrids procedents de roques toves, friables, poroses, etc., ni els que continguin nòduls de guix, compostos ferrosos, sulfurs oxidables, etc, en quantitats superiors a les contemplades al CODI ESTRUCTURAL.
Els àrids reciclats hauran de complir amb les especificacions de l'article 30 del CODI ESTRUCTURAL. A més, els que provinguin de formigons estructurals sans, o de resistència elevada, han de ser adequats per a la fabricació de formigó reciclat estructural, complint una sèrie de requisits:
- Dimensió mínima permesa = 4 mm
- Terrossos d'argila per a un formigó amb menys del 20% d'àrid reciclat: <= 0,6%
- Terrossos d'argila per a un formigó amb 100% d'àrid reciclat: <= 0,25%
- Absorció d'aigua per a un formigó amb menys del 20% d'àrid reciclat: <= 7%
- Absorció d'aigua per a un formigó amb més del 20% d'àrid reciclat: <= 5%
- Coeficient de Los Ángeles: <= 40
- Continguts màxims d'impureses: - Material ceràmic: <= 5% del pes - Partícules lleugeres: <= 1% del pes - Asfalt: <= 1% del pes - Altres: <= 1,0 % del pes

En els valors de les especificacions no citades, es mantenen els establerts en l'article 30 del CODI ESTRUCTURAL.
SORRA DE MARBRE BLANC:
Barreja amb granulats blancs diferents del marbre: 0%
SORRA PER A LA CONFECCIÓ DE FORMIGONS:
Es denomina sorra a la barreja de les diferents fraccions d'àrid fi que s'utilitzen per a la confecció del formigó
Designació: d/D - IL - N
d/D: Fracció granulomètrica, d tamany mínim i D tamany màxim
IL: Presentació, R rodat, T triturat (matxuqueig) i M barreja
N: Naturalesa de l'àrid (C, calcari; S, silici; G,granític; O, ofita; B, basalt; D, dolomític; Q, traquita; I, fonolita; V, varis; A, artificial i R, reciclat
Mida dels granuls (Tamís 4 UNE-EN 933-2): <= 4 mm
Material retingut pel tamís 0,063 (UNE_EN 933-2) i que sura en un líquid de pes específic 20 kN/m3 (UNE EN 1744-1): <= 0,5% en pes
Compostos de sofre expressats en SO3 i referits a granulat sec (UNE-EN 1744-1): <= 1% en pes
Reactivitat potencial amb els àlcalis del ciment (UNE 146507-2)
Sulfats solubles en àcid, expressats en SO3 i referits al granulat sec (UNE-EN 1744-1): <= 0,8% en pes
Clorurs expressats en Cl- i referits al granulat sec (UNE-EN 1744-1):
- Formigó armat o en massa amb armadures de fissuració: <= 0,05% en pes
- Formigó pretesat: <= 0,03% en pes

Ió clor total aportat per components d'un formigó no pot superar:
- Pretensat: <= 0,2% pes de ciment
- Armat: <= 0,4% pes de ciment
- En massa amb armadura de fissuració: <= 0,4% pes de ciment

Estabilitat (UNE-EN 1367-2):
- Pèrdua de pes amb sulfat sòdic: <= 10%
- Pèrdua de pes amb sulfat magnèsic: <= 15%

Pèrdua de pes amb sulfat magnèsic (UNE-EN 1367-2) quan el formigó estigui sotmès a una classe d'exposició XF, i l'àrid fi tingui una absorció d'aigua >1%: <= 15%
Coeficient de friabilitat (UNE 83115)
- Per formigons d'alta resistència: < 40
- Formigons en massa o armats amb Fck<=30 N/mm2: < 50

Els àrids no han de presentar reactivitat potencial amb els àlcalis del formigó. Per a comprovar-ho, s'ha de realitzar en primer lloc un anàlisi petrogràfic, per a obtenir el tipus de reactivitat que, en el seu cas, puguin presentar. Si d'aquest estudi es dedueix la possibilitat de reactivitat àlcali sílice o àlcali silicat, s'ha de realitzar l'assaig descrit a l'UNE 146.508 EX. Si el tipus de reactivitat potencial és àlcali carbonat, s'ha de realitzar l'assaig descrit a l'UNE 146.507 EX Part 2.
La corba granulomètrica de l'àrid fi, ha d'estar compresa dins del fus següent:

Límits	Material retingut acumulat, en % en pes,en els tamisos						
	4 mm	2 mm	1 mm	0,5 mm	0,25 mm	0,125 mm	0,063 mm
Superior	0	4	16	40	70	77	(1)
Inferior	15	38	60	82	94	100	100

(1) Aquest valor varia en funció del tipus i origen de l'àrid.

SORRA DE PEDRA GRANÍTICA PER A LA CONFECCIÓ DE FORMIGONS:
Contingut màxim de fins que passen pel tamís 0,063 mm (UNE-EN 933-1):
- Granulat gruixut: - Qualsevol tipus: <= 1,5% en pes
- Granulat fí: - Granulat arrodonit: <= 6% en pes - Granulat de matxuqueig no calcari per a obres sotmeses a exposició XS, XD, XA,XF o XM: <= 6% en pes - Granulat de matxuqueig no calcari per a obres sotmeses a exposició X0 o XC i no sotmeses a cap classe d'exposició XA, XF o XM: <= 10% en pes
Equivalent de sorra (EAV)(UNE_EN 933-8):
- Per a obres en ambients X0, XC: >= 70
- Resta de casos: >= 75
Absorció d'aigua (UNE-EN 1097-6): <= 5%
SORRA DE PEDRA CALCÀRIA PER A LA CONFECCIÓ DE FORMIGONS:
Contingut màxim de fins que passen pel tamís 0,063 mm (UNE-EN 933-1):
- Granulat gruixut: - Qualsevol tipus: <= 1,5% en pes
- Granulat fí: - Granulat arrodonit: <= 6% en pes - Granulat de matxuqueig calcari per a obres sotmeses a exposició XS, XD, XA, XF o XM: <= 10% en pes - Granulat de matxuqueix calcari per a obres sotmeses a exposició X0 o XC i no sotmesa a cap classe d'exposició XA,XF o XM: <= 16% en pes.
Valor blau de metilè(UNE 83130):
- Per a obres sotmeses a exposició X0 o XC: <= 0,6% en pes
- Resta de casos: <= 0,3% en pes
SORRA PER A LA CONFECCIÓ DE MORTERS:
La composició granulomètrica ha de quedar dintre dels límits següents:

Tamís UNE 7-050 mm	Percentatge en pes que passa pel tamís	Condicions
5,00	A	A = 100
2,50	B	60 <= B <= 100
1,25	C	30 <= C <= 100
0,63	D	15 <= D <= 70
0,32	E	5 <= E <= 50
0,16	F	0 <= F <= 30
0,08	G	0 <= G <= 15
Altres condi-cions		C - D <= 50 D - E <= 50 C - E <= 70

Mida dels grànuls: <= 1/3 del gruix del junt
Contingut de matèries perjudicials: <= 2%
GRANULATS PROCEDENTS DE RECICLATGE DE RESIDUS DE LA CONSTRUCCIÓ I DEMOLICIONS:
El material ha de procedir d'una planta autoritzada legalment per al tractament de residus de la construcció.
El material no ha de ser susceptible de cap mena de meteorització o d'alteració física o química sota les condicions més desfavorables que presumiblement es puguin donar al lloc d'utilització.
No han de donar lloc, amb l'aigua, a dissolucions que puguin causar danys a estructures, capes de ferms, o contaminar el sòl o corrents d'aigua.
S'ha considerat que l'ús serà el reblert de rases amb canonades.
Per a qualsevol utilització diferent d'aquesta, es requereix l'acceptació expressa de la direcció facultativa i la justificació mitjançant els assaigs que pertoquin que es compleixen les condicions requerides per a l'us al que es pretén destinar.
2.- CONDICIONS DE SUBMINISTRAMENT I EMMAGATZEMATGE
Subministrament i emmagatzematge: De manera que no s'alterin les seves condicions.
Cada remesa de sorra s'ha de descarregar en una zona ja preparada de sòl sec.
Les sorres de tipus diferents s'han d'emmagatzemar per separat.
Els àrids s'han d'emmagatzemar de tal manera que quedin protegits contra la contaminació, i evitant la seva possible segregació, sobretot durant el seu transport. Es recomana emmagatzemar-los sota cobert per evitar els canvis de temperatura del granulat, i en un terreny sec i net destinat a l'apilament dels àrids. Les sorres d'altres tipus s'han d'emmagatzemar per separat.
3.- UNITAT I CRITERI D'AMIDAMENT
Unitat d'amidament: la indicada a la descripció de l'element
Criteri d'amidament: quantitat necessària subministrada a l'obra
4.- NORMATIVA DE COMPLIMENT OBLIGATORI
SORRA PER A LA CONFECCIÓ DE FORMIGONS:

Real Decreto 470/2021, de 29 de junio, por el que se aprueba el Código Estructural.
SORRA PER A LA CONFECCIÓ DE MORTERS:
Real Decreto 470/2021, de 29 de junio, por el que se aprueba el Código Estructural.
UNE-EN 12620:2003 Áridos para hormigón.
Documento Básico de Seguridad estructural Fábrica DB-SE-F, parte II del CTE, aprobado por el Real Decreto 314/2006.
SORRES PER A ALTRES USOS:
No hi ha normativa de compliment obligatori.
5.- CONDICIONS DE CONTROL DE RECEPCIÓ
CONDICIONS DE MARCATGE I CONTROL DE LA DOCUMENTACIÓ:
L'entrega de granulat a l'obra ha d'anar acompanyada d'un full de subministrament proporcionat pel subministrador, en el que hi han de constar com a mínim les següents dades:
- Identificació del subministrador
- Número del certificat de marcatge CE o indicació d'autoconsum
- Número de sèrie de la fulla de subministrament
- Nom de la cantera
- Data del lliurament
- Nom del peticionari
- Designació de l'àrid segons l'article 30.2 del CODI ESTRUCTURAL
- Quantitat de granulat subministrat
- Identificació del lloc de subministrament

El fabricant ha de proporcionar la informació relativa a la granulometria i a les toleràncies de l'àrid subministrat.
El subministrador ha de posar a disposició de la DF en el cas que aquesta ho sol·liciti, la documentació següent, que acredita el marcatge CE, segons el sistema d'avaluació de conformitat aplicable, d'acord amb el que disposa l'apartat 7.2.1 del CTE: - Productes per a carreteres i altres treballs d'obres públiques i edificació de Funcio: Aplicacions que exigeixen requisits de seguretat molt estrictes*. * Requisits que han de ser definits per lleis, reglaments i normes administratives nacionals de cada estat membre, - Productes per a edificació, fabricació de productes de formigó prefabricat, carreteres i altres treballs d'obres públiques de Funcio: Aplicacions que exigeixen requisits de seguretat molt estrictes*. * Requisits que han de ser definits per lleis, reglaments i normes administratives nacionals de cada estat membre: - Sistema 2+: Declaració de Prestacions - Productes per a edificació, fabricació de productes de formigó prefabricat, carreteres i altres treballs d'obres públiques de Funcio: Aplicacions que no exigeixen requisits de seguretat molt estrictes*. * Requisits que han de ser definits per lleis, reglaments i normes administratives nacionals de cada estat membre, - Productes per a carreteres i altres treballs d'obres públiques i edificació de Funcio: Aplicacions que no exigeixen requisits de seguretat molt estrictes*. * Requisits que han de ser definits per lleis, reglaments i normes administratives nacionals de cada estat membre: - Sistema 4: Declaració de Prestacions
El símbol de marcatge de conformitat CE s'ha d'estampar d'acord amb la Directiva 93/68CE i ha d'estar visible sobre el producte o sobre etiqueta, embalatge o documentació comercial i ha d'anar acompanyat de la següent informació:
- Número d'identificació de l'organisme de certificació
- Nom o marca d'identificació i direcció del fabricant
- Les dues últimes xifres de l'any d'impressió del marcatge
- Referència a la norma (UNE-EN 12620)
- Descripció del producte (nom genèric, material, ús previst)
- Designació del producte
- Informació de les característiques essencials aplicables

A la documentació del marcatge haurà d'indicar:
- Nom del laboratori que ha realitzat els assajos
- Data d'emissió del certificat
- Garantia de que el tractament estadístic és l'exigit en el marcatge
- Estudi de fins que justifiqui experimentalment el seu ús, en el cas que hi hagi àrids que no compleixen amb l'article 30.4.1 del CODI ESTRUCTURAL.

L'àrid reciclat ha d'incloure en la seva documentació:
- Naturalesa del material
- Planta productora de l'àrid i empresa transportista de la runa
- Presència d'impureses
- Detalls de la seva procedència
- Altre informació que resulti rellevant

OPERACIONS DE CONTROL:
Els àrids han de disposar del marcatge CE, de tal manera que la comprovació de la seva idoneïtat per al seu ús es farà mitjançant un control documental del marcatge per tal de

determinar el compliment de les especificacions del projecte i de l'article 30 del CODI ESTRUCTURAL.
En el cas d'àrids d'autoconsum, el Constructor o el Subministrador ha d'aportar un certificat d'assaig, de com a màxim tres mesos d'antiguitat, realitzat en un laboratori de control dels contemplats en l'article 17.2.2.1 del CODI ESTRUCTURAL, que verifiqui el compliment de les especificacions de l'àrid subministrat respecte l'article 30 del CODI ESTRUCTURAL.
La DF ha de poder valorar el nivell de garantia del distintiu, i en cas de no disposar de suficient informació, ha de poder determinar l'execució de comprovacions mitjançant assaigs.
La DF, a més, ha de valorar si realitzar una inspecció a la planta de fabricació, a poder ser, abans del subministra de l'àrid, per comprovar la idoneïtat per a la seva fabricació. En cas necessari, la DF ha de poder realitzar els assaigs següents per a verificar la conformitat de les especificacions:
- Matèria orgànica (UNE-EN 1744-1).
- Terrossos d'argila (UNE 7133).
- Material retingut pel garbell 0.063 UNE (UNE EN 933-2) i que sura en un líquid de pes específic 2 (UNE EN 1744-1).
- Compostos de sofre (SO3)- respecte al granulat sec (UNE-EN 1744-1).
- Sulfats solubles en àcid (UNE-EN 1744-1).
- Contingut d'Ió CL- (UNE-EN 1744-1).
- Assaig petrogràfic
- Reactivitat potencial amb els àlcalis del ciment (UNE 146-507 i UNE 146-508).
- Equivalent de sorra (UNE-EN 933-8).
- Absorció d'aigua (UNE-EN 1097-6).
- Assaig d'identificació per raigs X.
- Pèrdua de pes amb sulfat magnèsic (UNE-EN 1367-2)
- Assaig granulomètric (UNE-EN 933-2)
- Coeficient de friabilitat (UNE 83115)

Un cop s'hagi realitzat l'apilament, s'ha de realitzar una inspecció visual, i si es considera necessari, s'han de prendre mostres per realitzar els assaigs corresponents.
S'ha de poder acceptar la sorra que no compleixi amb els requisits sempre i quan mitjançant rentat, cribatge o mescla, assoleixi les condicions exigides.
CRITERIS DE PRESA DE MOSTRES:
Els controls s'han de realitzar segons les instruccions de la DF i el CODI ESTRUCTURAL.
INTERPRETACIÓ DE RESULTATS I ACTUACIONS EN CAS D'INCOMPLIMENT:
No s'ha d'acceptar la sorra que no compleixi totes les especificacions indicades al plec de condicions. Si la granulometria no s'ajusta a la utilitzada per a l'establiment de les dosificacions aprovades, s'hauran de projectar i aprovar noves fórmules de treball.
No s'han d'utilitzar àrids fins els quals l'equivalent de sorra sigui inferior a:
- 70, en obres sotmeses a les classes X0 o XC
- 75, en la resta de casos

En cas que les sorres procedents del matxuqueig de roques calcàries o de roques dolomítiques que no compleixin l'especificació de l'equivalent de sorra, s'han de poder acceptar si l'assaig del blau de metilè (UNE-EN 933-9) compleix el següent:
- Per a obres amb classe general d'exposició classe X0 o XC: <= 0,6% en pes
- Resta de casos: <= 0,3% en pes

Si el valor del blau de metilè fos superior als valors anteriors, i es presentin dubtes de la presència d'argila en els fins, s'ha de poder realitzar un assaig de rajos X per a la seva detecció i identificació: s'ha de poder utilitzar l'àrid fi si les argiles són del tipus caolinita o illita, i si les propietats del formigó amb aquest àrid són les mateixes que les d'un que tingui els mateixos components però sense els fins.
S'han de poder utilitzar sorres rodades, o procedents de roques matxucades, o escòries siderúrgiques adequades, en la fabricació de formigó d'ús no estructural.

B0 MATERIALS BÀSICS

B05 AGLOMERANTS I CONGLOMERANTS

B054- CALÇ

0.- ELEMENTS QUE CONTEMPLA EL PLEC

B054-06DH.

1.- DEFINICIÓ I CONDICIONS DELS ELEMENTS
Conglomerant obtingut per calcinació de materials calcaris, format principalment per òxids o hidròxids de calci amb o sense òxids o hidròxids de magnesi i quantitats menors d'òxids de silici, ferro i alumini.
S'han considerat els tipus següents:
- Calç aèria càlcica (CL): - Hidratada en pols: CL 90-S - Hidratada en pasta: CL 90-S PL
- Calç hidràulica natural (NHL): - Calç hidràulica natural 2: NHL 2 - Calç hidràulica natural 3,5: NHL 3,5 - Calç hidràulica natural 5: NHL 5
CALÇ AÈRIA HIDRATADA CL 90:
Si conté additius, aquests no han d'afectar a les propietats dels morters.
Les característiques següents han de complir amb els valors declarats pel fabricant, assajats segons la norma corresponent, dins del límit de tolerància indicat, en el seu cas.
Contingut de CaO + MgO, segons UNE-EN 459-2: >= 90
Contingut de MgO, segons UNE-EN 459-2: <= 5
Contingut de SO3, segons UNE-EN 459-2: <= 2
Contingut de CO2, segons UNE-EN 459-2: <= 4
Contingut de calç útil, segons UNE-EN 459-2: >= 80
Estabilitat de volum, segons UNE-EN 459-2:
- Calç en pasta: compleix l'assaig
- Calç en pols: - Mètode de referència: <= 2 mm - Mètode alternatiu: <= 20 mm
Mida de partícula de la calç en pols, segons UNE-EN 459-2:
- Material retingut al tamís 0,09 mm: <= 7%
- Material retingut al tamís 0,2 mm: <= 2%
Penetració de la calç en pols, segons UNE-EN 459-2: > 10 i < 50 mm
CALÇ AÈRIA HIDRATADA EN PASTA:
Estarà amarada i barrejada amb aigua, en la quantitat adient per a obtenir una pasta de consistència adequada a l'ús destinat.
No tindrà grumolls ni principis d'aglomeració.
CALÇ HIDRÀULICA NATURAL:
Les característiques següents han de complir amb els valors declarats pel fabricant, assajats segons la norma corresponent, dins del límit de tolerància indicat, en el seu cas.
Resistència a compressió, segons UNE-EN 459-2:
- Calç del tipus NHL 2: >= 2 a <= 7 Mpa, als 28 dies
- Calç del tipus NHL 3,5: >= 3,5 a <= 10 Mpa, als 28 dies
- Calç del tipus NHL 5: - Als 7 dies: >= 2 MPa - Als 28 dies: >= 5 a <= 15 MPa
Temps d'adormiment, segons UNE-EN 459-2:
- Inicial: > 1 h
- Final: - Calç del tipus NHL 2: <= 40 h - Calç del tipus NHL 3,5: <= 30 h - Calç del tipus NHL 5: <= 15 h
Contingut en aire segons UNE-EN 459-2: <= 5%
Contingut de SO3, segons UNE-EN 459-2: =< 2
Contingut de calç útil, segons UNE-EN 459-2:
- Calç del tipus NHL 2: >= 35
- Calç del tipus NHL 3,5: >= 25
- Calç del tipus NHL 5: >= 15
Estabilitat de volum, segons UNE-EN 459-2:
- Mètode de referència: <= 2 mm
- Mètode alternatiu: <= 20 mm
Mida de partícula, segons UNE-EN 459-2:
- Material retingut al tamís 0,09 mm: <= 15%
- Material retingut al tamís 0,2 mm: <= 2%
Penetració, segons UNE-EN 459-2: > 10 i < 50 mm
CALÇ PER A ESTABILITZACIÓ DE TERRES EN CARRETERES:

S'utilitzaran calços aèries vives del tipus CL 90-Q i calços aèries hidratades del tipus CL 90-S.
Tindran un aspecte homogeni i no un estat grumollós o aglomerat.
Compliran les especificacions de la taula 200.1 de l'article 200 del PG3, determinades segons la norma UNE-EN 459-2.
Contingut d'aigua lliure de les calços hidratades, segons UNE-EN 459-2: < 2% en pes.
2.- CONDICIONS DE SUBMINISTRAMENT I EMMAGATZEMATGE
Subministrament: S'ha de transportar en cisternes pressuritzades dotades de mitjans pneumàtics o mecànics que permetin el ràpid transvasament a sitges d'emmagatzematge. Aquestes han de ser estanques.
A les obres de poc volum el subministrament podrà ser en sacs, de manera que no experimenti alteració de les seves característiques.
Emmagatzematge: Es tindran en compte les normes indicades en les fitxes de seguretat per a les classes de calç. Aquestes fitxes de seguretat han de ser les recomanades oficialment o, en el seu defecte, les facilitades pel subministrador.
3.- UNITAT I CRITERI D'AMIDAMENT
Unitat d'amidament: la indicada a la descripció de l'element
Criteri d'amidament: quantitat necessària subministrada a l'obra
4.- NORMATIVA DE COMPLIMENT OBLIGATORI
NORMATIVA GENERAL:
UNE-EN 459-1:2016 Cales para la construcción. Parte 1: Definiciones, especificaciones y criterios de conformidad.
* UNE-EN 459-2:2011 Cales para la construcción. Parte 2: Métodos de ensayo.
CALÇ PER A ESTABILITZACIÓ DE TERRES EN CARRETERES:
Orden de 6 de febrero de 1976 por la que se aprueba el Pliego de Prescripciones Técnicas Generales para Obras de Carreteras y Puentes (PG-3).
Orden FOM/2523/2014, de 12 de diciembre, por la que se actualizan determinados artículos del Pliego de Prescripciones Técnicas Generales para Obras de Carreteras y Puentes, relativos a materiales básicos, a firmes y pavimentos, y a señalización, balizamiento y sistemas de contención de vehículos (PG-3).
* UNE 80502:2014 Cales vivas o hidratadas utilizadas en la mejora y/o estabilización de suelos.
5.- CONDICIONS DE CONTROL DE RECEPCIÓ
CONDICIONS DE MARCATGE I CONTROL DE LA DOCUMENTACIÓ:
El subministrador ha de posar a disposició de la DF en el cas que aquesta ho sol·liciti, la documentació següent, que acredita el marcatge CE, segons el sistema d'avaluació de conformitat aplicable, d'acord amb el que disposa l'apartat 7.2.1 del CTE: - Productes per a preparació de conglomerant per a morters de ram de paleta, arrebossat i lliscat, per a la fabricació d'altres productes de construcció i per a aplicacions en enginyeria civil: - Sistema 2+: Declaració de Prestacions
Per a cada remesa caldrà un albarà i la informació d'etiquetatge i marcatge CE de la norma UNE-EN 459-1.
A l'albarà hi ha de constar com a mínim la informació següent:
- Nom i adreça del fabricant i de l'empresa subministradora
- Data de subministrament i de fabricació
- Identificació del vehicle de transport
- Quantitat subministrada
- Denominació comercial, quan la tingui, i tipus de calç subministrada (UNE-EN 459-1)
- Nom i adreça del comprador i destí
- Referència de la comanda
- El marcatge CE ha d'incloure, com a mínim, la informació següent: - Símbol del marcatge CE - Nombre identificador de l'organisme de certificació - Nom o marca distintiva d'identificació i adreça registrada del fabricant - Els dos darrers dígits de la data del primer marcatge - Nombre de referència de la Declaració de Prestacions
- Referència a l'UNE EN 459-1 - Descripció del producte: nom genèric, tipus i ús previst - Informació sobre les característiques essencials incloses a la norma UNE-EN 459-1
OPERACIONS DE CONTROL:
Les tasques de control a realitzar són les següents:
- Inspecció de les condicions de subministrament de la calç, i verificació documental de que els valors declarats pel fabricant en els documents que acompanyen el marcatge CE són conforme a les especificacions exigides.
- Si es detecten anomalies durant el transport, emmagatzematge o manipulació, la DF podrà disposar que es realitzin els següents assaigs de control de recepció, segons UNE-EN 459-2: - Contingut d'òxids de calci i magnesi - Contingut de diòxid de carboni - Contingut de calç útil Ca (Oh) 2 - Mida de partícula
- Control addicional quan la calç ha estat emmagatzemada en condicions atmosfèriques normals durant un període superior a 2 mesos, o inferior, quan ha estat emmagatzemada en

ambients humits o condicions atmosfèriques desfavorables. Sobre una mostra representativa de la calç emmagatzemada es realitzaran els següents assaigs: - Contingut de diòxid de carboni - Mida de partícula
Els mètodes d'assaigs es descriuen a la UNE-EN 459-2.
CRITERIS DE PRESA DE MOSTRES:
Les mostres s'han de prendre segons l'indicat a l'article 200 del PG3 i els criteris que exposi la DF.
Es considera com un lot, que s'acceptarà o rebutjarà en bloc:
- La quantitat de calç de la mateixa classe i procedència rebuda mensualment.
- Si mensualment es reben més de 200 t, el lot serà aquesta quantitat o fracció.
De cada lot es prendran dues mostres, segons el procediment indicat a la norma UNE-EN 459-2. Una per realitzar els assaigs de control de recepció i l'altra per als assaigs de contrast, que es conservarà durant almenys 100 dies en recipient adequat i estanc. Es prendrà una tercera mostra si el subministrador de calç ho sol·licita.
INTERPRETACIÓ DE RESULTATS I ACTUACIONS EN CAS D'INCOMPLIMENT:
La DF ha d'indicar les mesures a adoptar en el cas que no es compleixin les especificacions establertes al plec.
La remesa no s'ha d'acceptar si, en el moment d'obrir el recipient que la conté apareix en estat grumollós o aglomerat.

B0 MATERIALS BÀSICS

B05 AGLOMERANTS I CONGLOMERANTS

B055- CIMENT

0.- ELEMENTS QUE CONTEMPLA EL PLEC

B055-065W,B055-067M,B055-0661.

1.- DEFINICIÓ I CONDICIONS DELS ELEMENTS
Conglomerant hidràulic format per diferents materials inorgànics finament dividits que, amassats amb aigua, formen una pasta que, mitjançant un procés d'hidratació, endureix i un cop endurit conserva la seva resistència i estabilitat fins i tot sota l'aigua.
S'han considerat els ciments regulats per la norma RC-16 amb les característiques següents:
- Ciments comuns (CEM)
- Ciments d'aluminat de calci (CAC)
- Ciments blancs (BL)
- Ciments resistens a l'aigua de mar (MR)
CARACTERÍSTIQUES GENERALS:
En el cas de que el material s'utilitzi en obra pública, l'acord de Govern de la Generalitat de Catalunya de 9 de juny de 1998, exigeix que els materials siguin de qualitat certificada o puguin acreditar un nivell de qualitat equivalent, segons les normes aplicables als estats membres de la Unió Europea o de l'Associació Europea de Lliure Canvi.
També en aquest cas, es procurarà que els esmentats materials disposin de l'etiqueta ecològica europea, regulada en el Reglament (CE) n° 66/2010 o bé altres distintius de la Comunitat Europea.
Ha de ser un material granular molt fi i estadísticament homogeni en la seva composició.
El ciment ha de ser capaç, si es dosifica i barreja adequadament amb aigua i granulats, de produir un morter o un formigó que conservi la seva traballabilitat en un temps prou llarg i assolir, al final de períodes definits, els nivells especificats de resistència i mantenir estabilitat de volum a llarg termini.
No ha de tenir grumolls ni principis d'aglomeració.

En activitats manuals en les que hi hagi risc de contacte amb la pell i d'acord amb l'establert a l'Ordre Presidencial 1954/2004 de 22 de juny, no s'han d'utilitzar o comercialitzar ciments amb un contingut de crom (VI) superior a dos parts per milió del pes sec del ciment.
CIMENTS COMUNS (CEM):
Estaran subjectes al marcatge CE de conformitat amb el que disposen els Reials Decrets 1328/1995 de 28 de juliol i 256/2016 de 10 de juny.
Els components han de complir els requisits especificats en el capítol 5 de la norma UNE-EN 197-1.
Tipus de ciments:
- Ciment Pòrtland: CEM I
- Ciment Pòrtland amb addicions: CEM II
- Ciment Pòrtland amb escòries de forn alt: CEM III
- Ciment putzolànic: CEM IV
- Ciment compost: CEM V

Alguns d'aquests tipus es divideixen en subtipus, segons el contingut de l'addició o barreja d'addicions presents en el ciment. Segons aquest contingut creixent els subtipus poden ser A, B o C.
Addicions del clinker pòrtland (K):
- Escòria de forn alt: S
- Fum de sílice: D
- Putzolana natural: P
- Putzolana natural calcinada: Q
- Cendra volant Sicília: V
- Cendra volant calcària: W
- Esquist calcinat: T
- Filler calcari L: L
- Filler calcari LL: LL

Relació entre denominació i designació dels ciments comuns segons el tipus, subtipus i addicions:

Denominació	Designació
Ciment pòrtland	CEM I
Ciment pòrtland amb escòria	CEM II/A-S CEM II/B-S
Ciment pòrtland amb fum de sílice	CEM II/A-D
Ciment pòrtland amb Putzolana	CEM II/A-P CEM II/B-P CEM II/A-Q CEM II/B-Q
Ciment pòrtland amb cendres volants	CEM II/A-V CEM II/B-V CEM II/A-W CEM II/B-W
Ciment pòrtland amb esquist calcinat	CEM II/A-T CEM II/B-T
Ciment pòrtland amb filler calcari	CEM II/A-L CEM II/B-L CEM II/A-LL CEM II/B-LL
Ciment pòrtland mixt	CEM II/A-M CEM II/B-M
Ciment amb escòries de forn alt	CEM III/A CEM III/B CEM III/C
Ciment putzolànic	CEM IV/A CEM IV/B

Ciment compost	CEM V/A CEM V/B

En ciments pòrtland mixtos CEM II/A-M i CEM II/B-M, en ciments putzolànics CEM IV/A i CEM IV/B i en ciments compostos CEM V/A i CEM V/B els components principals a més del clinker han de ser declarats a la designació del ciment.
La composició dels diferents ciments comuns ha de ser l'especificada al capítol 6 de la norma UNE-EN 197-1.
Els ciments comuns han de complir les exigències mecàniques, físiques, químiques i de durabilitat especificades al capítol 7 de la norma UNE-EN 197-1.
CIMENTS D'ALUMINAT DE CALÇ (CAC):
Ciment obtingut per una mescla de materials aluminosos i calcàris.
Estaran subjectes al marcatge CE de conformitat amb el que disposa el Reial Decret 256/2016, de 10 de juny.
Han de complir les exigències mecàniques, físiques i químiques especificades a UNE-EN 14647.
CIMENTS BLANCS (BL):
Han d'estar subjectes al Reial Decret 1313/1988 i seran aquells definits a la norma UNE 80305 i homòlegs de les normes UNE-EN 197-1 (ciments comuns) i UNE-EN 413-1 (ciments de ram de paleta) que compleixin amb l'especificació de blancor.
Índex de blancor (UNE 80117): >= 85
D'acord amb el Real Decret 1313/1988 de 28 d'octubre i L'Ordre Ministerial de 17 de gener de 1989, han de portar el Certificat de Conformitat amb Requisits Reglamentaris (CCRR).
La composició, així com les prescripcions mecàniques, físiques, químiques i de durabilitat que han de complir els ciments comuns blancs són les mateixes que les especificades per als ciments comuns a la norma UNE-EN 197-1.
La composició, així com les prescripcions mecàniques, físiques i químiques que ha de complir el ciment blanc de ram de paleta (BL 22,5 X) són les mateixes que les especificades per al ciment homòleg a la norma UNE-EN 413-1.
CIMENTS RESISTENTS A L'AIGUA DE MAR (MR):
D'acord amb el Real Decret 1313/1988 de 28 d'octubre i L'Ordre Ministerial de 17 de gener de 1989, han de portar el Certificat de Conformitat amb Requisits Reglamentaris (CCRR).
Relació entre denominació i designació dels ciments resistents a l'aigua de mar segons el tipus, subtipus i addicions:

Denominació	Designació
Ciment pòrtland	I
Ciment pòrtland amb escòria	II/A-S II/B-S
Ciment pòrtland amb fum de sílice	II/A-D
Ciment pòrtland amb Putzolana	II/A-P II/B-P
Ciment pòrtland amb cendres volants	II/A-V II/B-V
Ciment amb escòries de forn alt	III/A III/B III/C
Ciment putzolànic	IV/A IV/B
Ciment compost	CEM V/A

Les especificacions generals en quan a composició i a exigències mecàniques, físiques, químiques i de durabilitat que han de complir són les corresponents als ciments comuns homòlegs de la norma UNE-EN 197-1.
Han de complir els requisits addicionals especificats al capítol 7.2 de la norma UNE 80303-2.
2.- CONDICIONS DE SUBMINISTRAMENT I EMMAGATZEMATGE
Subministrament: de manera que no s'alterin les seves característiques.
Si el ciment es subministra a granel s'ha d'emmagatzemar en sitges.

Si el ciment es subministra en sacs, s'han d'emmagatzemar en un lloc sec, ventilat, protegit de la intempèrie i sense contacte directe amb la terra, de manera que no s'alterin les seves condicions.
Temps màxim d'emmagatzematge dels ciments:
- Classes 22,5 i 32,5: 3 mesos
- Classes 42,5 : 2 mesos
- Classes 52,5 : 1 mes

3.- UNITAT I CRITERI D'AMIDAMENT
Unitat d'amidament: la indicada a la descripció de l'element
Criteri d'amidament: quantitat necessària subministrada a l'obra
4.- NORMATIVA DE COMPLIMENT OBLIGATORI
Real Decreto 1313/1988, de 28 de octubre, por el se declara obligatoria la homologación de los cementos para la fabricación de hormigones y morteros para todo tipo de obras y productos prefabricados.
Orden de 17 de enero de 1989 por la que se establece la certificación de conformidad a normas como alternativa de la homologación de los cementos para la fabricación de hormigones y morteros para todo tipo de obras y productos prefabricados.
Real Decreto 1328/1995, de 28 de julio, por el que se modifica, en aplicación de la Directiva 93/68/CEE, las disposiciones para la libre circulación de productos de construcción, aprobadas por el Real Decreto 1630/1992, de 29 de diciembre.
Real Decreto 256/2016, de 10 de junio, por el que se aprueba la Instrucción para la recepción de cementos (RC-16).
UNE-EN 197-1:2000 Cemento. Parte 1: Composición, especificaciones y criterios de conformidad de los cementos comunes.
UNE-EN 14647:2006 Cemento de aluminato de calcio. Composición, especificaciones y criterios de conformidad.
UNE 80305:2001 Cementos blancos.
UNE 80303-2:2001 Cementos con características adicionales. Parte 2: Cementos resistentes al agua de mar.
5.- CONDICIONS DE CONTROL DE RECEPCIÓ
CONDICIONS DE MARCATGE I CONTROL DE LA DOCUMENTACIÓ EN CIMENTS COMUNS (CEM) I CIMENTS DE CALÇ (CAC):
El subministrador ha de posar a disposició de la DF en el cas que aquesta ho sol·liciti, la documentació següent, que acredita el marcatge CE, segons el sistema d'avaluació de conformitat aplicable, d'acord amb el que disposa l'apartat 7.2.1 del CTE: - Productes per a preparació de formigó, morter, beurades i altres mescles per a construcció i per a la fabricació de productes de construcció, - Productes per a elaboració de formigó, morter, pasta i altres mescles per a construcció i per a la fabricació de productes de construcció: - Sistema 1+: Declaració de Prestacions
El símbol normalitzat del marcatge CE ha d'anar acompanyat de la següent informació com a mínim:
- el número identificador del organisme certificador que ha intervingut en el control de producció
- nom o marca distintiva d'identificació i adreça enregistrada del fabricant
- número del certificat CE de conformitat
- les dues últimes xifres de l'any en que el fabricant va posar el marcatge CE
- indicacions que permetin identificar el producte així com les seves característiques i prestacions declarades atenent a les seves especificacions tècniques
- referència a la norma harmonitzada corresponent
- designació normalitzada del ciment indicant el tipus, subtipus (segons els components principals) i classe resistent
- en el seu cas, informació addicional referent al contingut de clorurs, al límit superior de pèrdua per calcinació de cendra volant i/o additiu emprat

Sobre el mateix embalatge, el marcatge CE es pot simplificar, i inclourà com a mínim:
- el símbol normalitzat del marcatge CE
- en el seu cas, el número del certificat CE de conformitat
- nom o marca distintiva d'identificació i adreça enregistrada del fabricant
- els dos últims dígits de l'any en que el fabricant va posar el marcatge
- referència al número de la norma harmonitzada corresponent

En aquest cas, la informació complerta del marcatge o etiquetat CE haurà d'apareixer també a l'albarà o documentació que acompanya al lliurament.
A l'albarà hi han de figurar les dades següents:
- número de referència de la comanda
- nom i adreça del comprador i punt de destí del ciment
- identificació del fabricant i de l'empresa de subministrament
- designació normalitzada del ciment subministrat conforme a la instrucció RC-16
- quantitat que es subministra
- en el seu cas, referència a los dades de l'etiquetat corresponent al marcatge CE

- data de subministrament
- identificació del vehicle que el transporta

CONDICIONS DE MARCATGE I CONTROL DE LA DOCUMENTACIÓ EN CIMENTS BLANCS (BL) I CIMENTS RESISTENTS A L'AIGUA DE MAR (MR):

A l'albarà hi han de figurar les dades següents:
- número de referència de la comanda
- nom i adreça del comprador i punt de destí dels ciment
- identificació del fabricant i de l'adreça de subministrament
- designació normalitzada del ciment subministrat segons el Reial Decret 256/2016, de 10 de juny
- contrasenya del Certificat de Conformitat amb els Requisits Reglamentaris
- quantitat que es subministra
- identificació del vehicle que transporta el ciment
- en el seu cas, l'etiquetatge corresponent al marcatge CE
- En el cas de ciments envasats, aquests han de mostrar als seus envasos la següent informació:
- nom o marca identificativa i adreça complerta del fabricant i de la fàbrica
- designació normalitzada del ciment subministrat conforme la present instrucció
- contrasenya del Certificat de Conformitat amb els Requisits Reglamentaris
- dates de fabricació i d'envasat (indicant setmana i any)
- condicions específiques aplicables a la manipulació i utilització del producte

El fabricant ha de facilitar, si li demanen, les dades següents:
- Inici i final d'adormiment
- Si s'han incorporat additius, informació detallada de tots ells i dels seus efectes

OPERACIONS DE CONTROL:

La recepció del ciment haurà d'incloure al menys, dues fases obligatòries:
- Una primera fase de comprovació de la documentació
- Una segona fase d'inspecció visual del subministrament

Es pot donar una tercera fase, si el responsable de recepció ho considera oportú, de comprovació del tipus i classe de ciment i de les característiques físiques químiques i mecàniques mitjançant la realització d'assaigs d'identificació i, si es el cas, d'assaigs complementaris.

Per a la primera fase, al iniciar el subministrament el Responsable de recepció ha de comprovar que la documentació es la requerida. Aquesta documentació estarà compresa per:
- Albarà o full de subministrament.
- Etiquetatge
- Documents de conformitat, com pot ser el marcatge CE o bé la Certificació de Conformitat del Reial Decret 1313/1988
- Pel cas dels ciments no subjectes al marcatge CE, el certificat de garantia del fabricant signat.
- Si els ciments disposen de distintius de qualitat, caldrà també la documentació precisa de reconeixements del distintiu.

En la segona fase, un cop superada la fase de control documental, cal sotmetre el ciment a una inspecció visual per comprovar que no ha patit alteracions o barreges indesitjades.

La tercera fase s'activarà quan es pugui preveure possibles defectes o en el cas que el Responsable així ho estableixi per haver donat resultats no conformes en les fases anteriors o per haver detectat defectes en l'ús de ciments d'anteriors remeses.

En aquest supòsit es duran terme, abans de començar l'obra i cada 200 t de ciment de la mateixa designació i procedència durant l'execució, assaigs d'acord amb l'establer en els Annexes 5 i 6 de la RC-16.

CRITERIS DE PRESA DE MOSTRES:

Les mostres es prendran segons l'indicat en la RC-16. Per a cada lot de control sotmès a assaig s'extrauran tres mostres, una per tal de realitzar els assaigs de comprovació de la composició, l'altra per als assaigs físics, mecànics i químics i l'altra per a ser conservada preventivament.

INTERPRETACIÓ DE RESULTATS I ACTUACIONS EN CAS D'INCOMPLIMENT:

A efectes de la fase primera, no s'aprovarà l'ús de ciments els quals el etiquetatge i la documentació no es correspongui amb el ciment sol·licitat, quan la documentació no estigui completa i quan no es reuneixin tots els requisits establerts.

A efectes de la segona fase, no s'aprovarà l'ús de ciments que presentin símptomes de meteorització rellevant, que contingui cossos estranys i que no resulti homogènia en el seu aspecte o color.

A efectes de la tercera fase, no s'aprovarà l'ús de ciments que no compleixin els criteris establerts en l'apartat A5.5 de la RC-16.

Quan no es compleixi alguna de les prescripcions del ciment assajat, es repetiran els assaigs per duplicat, sobre dues mostres obtingudes de l'aplec existent a obra.

S'acceptarà el lot únicament si els resultats obtinguts en les dues mostres són satisfactoris.

B0 MATERIALS BÀSICS

B06 FORMIGONS

B067- FORMIGÓ DE NETEJA

0.- ELEMENTS QUE CONTEMPLA EL PLEC

B067-2A9V.

1.- DEFINICIÓ I CONDICIONS DELS ELEMENTS
Formigons que no aporten responsabilitat estructural a la construcció, però col·laboren a millorar la durabilitat del formigó estructural (formigons de neteja) o aporten el volum necessari d'un material resistent per a conformar la geometria requerida per un fi concret.
S'han considerat els materials següents:
- Formigons de neteja, destinats a evitar la contaminació de les armadures i la dessecació del formigó estructural al procés d'abocat
- Formigó no estructural destinat a conformar volums de material resistent
CARACTERÍSTIQUES GENERALS:
Els ciments que es poden utilitzar en formigó no estructural són:
- Prefabricats no estructurals: Ciments comuns excepte CEM II/A-Q, CEM II/B-Q, CEM II/A-W, CEM II/B-W, CEM II/A-T, CEM II/B-T, CEM III/C
- Formigons de neteja i replens de rases: Ciments comuns
- Altres formigons executats a l'obra: Ciment per a usos especials ESP VI-1 i ciments comuns excepte CEM II/A-Q, CEM II/B-Q, CEM II/A-W, CEM II/B-W, CEM II/A-T, CEM II/B-T, CEM III/C
Els àrids a utilitzar poden ser sorres i graves rodades o procedents de matxuqueig, o escòries siderúrgiques adequades. S'ha de poder utilitzar fins a un 100% d'àrid gros reciclat, sempre que compleixi amb les especificacions de l'article 30.8 del CODI ESTRUCTURAL amb respecte a les condicions físico-mecàniques i als requisits químics.
S'hauran d'utilitzar additius reductors d'aigua, ja que els formigons d'ús no estructural contenen poc ciment.
Els components del formigó, la seva dosificació, el procés de fabricació i el transport han d'estar d'acord amb les prescripcions del CODI ESTRUCTURAL.
El control dels components s'ha de realitzar d'acord als àmbits 0101, 0521, 0531, 0701 i 1011.
Els formigons de neteja han de tenir una dosificació mínima de 150 kg/m3 de ciment.
La mida màxima del granulat es recomanable sigui inferior a 30 mm.
Es tipificaran de la manera següent: HL-150/C/TM, on C = consistència i TM= mida màxima del granulat.
Els formigons no estructurals han de tenir una resistència característica mínima de 15 N/mm2, i es recomanable que la mida màxima del granulat sigui inferior a 40 mm.
Es tipificaran HNE-15/C/TM, on C= consistència i TM = mida màxima del granulat.
S'ha d'utilitzar preferentment, formigó de resistència 15 N/mm2, tret que la DF indiqui el contrari.
En cap cas la proporció en pes de l'additiu no ha de superar el 5% del pes del ciment utilitzat.
Si s'utilitzen cendres volants no han de superar el 35% del pes del ciment.
Classe resistent del ciment: >= 32,5
Contingut de ciment: >= 150 kg/m3
Assentament en el con d'Abrams (UNE EN 12350-2):
Consistència seca: 0 - 2 cm
Consistència plàstica: 3-4 cm
Consistència tova: 5-9 cm
Toleràncies:
- Assentament en el con d'Abrams:
Consistència seca: ± 1 cm

Consistència plàstica o tova: ± 1 cm
Toleràncies respecte de la dosificació:
- Contingut de ciment, en pes: ± 3%
- Contingut de granulats, en pes: ± 3%
- Contingut d'aigua: ± 3%
- Contingut d'additius: ± 5%
- Contingut d'addicions: ± 3%

2.- CONDICIONS DE SUBMINISTRAMENT I EMMAGATZEMATGE
Subministrament: En camions formigonera.
El formigó ha d'arribar a l'obra sense alteracions en les seves característiques, formant una barreja homogènia i sense haver iniciat l'adormiment.
Queda expressament prohibit l'addició al formigó de qualsevol quantitat d'aigua o altres substàncies que puguin alterar la composició original.
Emmagatzematge: No es pot emmagatzemar.

3.- UNITAT I CRITERI D'AMIDAMENT
Unitat d'amidament: la indicada a la descripció de l'element
Criteri d'amidament: quantitat necessària subministrada a l'obra

4.- NORMATIVA DE COMPLIMENT OBLIGATORI
Real Decreto 470/2021, de 29 de junio, por el que se aprueba el Código Estructural.

B0 MATERIALS BÀSICS

B06 FORMIGONS

B069- FORMIGÓ D'ÚS NO ESTRUCTURAL

0.- ELEMENTS QUE CONTEMPLA EL PLEC

B069-2A9H,B069-2A9P,B069-I4H8,B069-I6LP.

1.- DEFINICIÓ I CONDICIONS DELS ELEMENTS
Formigons que no aporten responsabilitat estructural a la construcció, però col·laboren a millorar la durabilitat del formigó estructural (formigons de neteja) o aporten el volum necessari d'un material resistent per a conformar la geometria requerida per un fi concret.
S'han considerat els materials següents:
- Formigons de neteja, destinats a evitar la contaminació de les armadures i la dessecació del formigó estructural al procés d'abocat
- Formigó no estructural destinat a conformar volums de material resistent

CARACTERÍSTIQUES GENERALS:
Els ciments que es poden utilitzar en formigó no estructural són:
- Prefabricats no estructurals: Ciments comuns excepte CEM II/A-Q, CEM II/B-Q, CEM II/A-W, CEM II/B-W, CEM II/A-T, CEM II/B-T, CEM III/C
- Formigons de neteja i replens de rases: Ciments comuns
- Altres formigons executats a l'obra: Ciment per a usos especials ESP VI-1 i ciments comuns excepte CEM II/A-Q, CEM II/B-Q, CEM II/A-W, CEM II/B-W, CEM II/A-T, CEM II/B-T, CEM III/C

Els àrids a utilitzar poden ser sorres i graves rodades o procedents de matxuqueig, o escòries siderúrgiques adequades. S'ha de poder utilitzar fins a un 100% d'àrid gros reciclat, sempre que compleixi amb les especificacions de l'article 30.8 del CODI ESTRUCTURAL amb respecte a les condicions físico-mecàniques i als requisits químics.
S'hauran d'utilitzar additius reductors d'aigua, ja que els formigons d'ús no estructural contenen poc ciment.
Els components del formigó, la seva dosificació, el procés de fabricació i el transport han d'estar d'acord amb les prescripcions del CODI ESTRUCTURAL.

El control dels components s'ha de realitzar d'acord als àmbits 0101, 0521, 0531, 0701 i 1011.
Els formigons de neteja han de tenir una dosificació mínima de 150 kg/m3 de ciment.
La mida màxima del granulat es recomanable sigui inferior a 30 mm.
Es tipificaran de la manera següent: HL-150/C/TM, on C = consistència i TM= mida màxima del granulat.
Els formigons no estructurals han de tenir una resistència característica mínima de 15 N/mm2, i es recomanable que la mida màxima del granulat sigui inferior a 40 mm.
Es tipificaran HNE-15/C/TM, on C= consistència i TM = mida màxima del granulat.
S'ha d'utilitzar preferentment, formigó de resistència 15 N/mm2, tret que la DF indiqui el contrari.
En cap cas la proporció en pes de l'additiu no ha de superar el 5% del pes del ciment utilitzat.
Si s'utilitzen cendres volants no han de superar el 35% del pes del ciment.
Classe resistent del ciment: >= 32,5
Contingut de ciment: >= 150 kg/m3
Assentament en el con d'Abrams (UNE EN 12350-2):
Consistència seca: 0 - 2 cm
Consistència plàstica: 3-4 cm
Consistència tova: 5-9 cm
Toleràncies:
- Assentament en el con d'Abrams:
Consistència seca: ± 1 cm
Consistència plàstica o tova: ± 1 cm
Toleràncies respecte de la dosificació:
- Contingut de ciment, en pes: ± 3%
- Contingut de granulats, en pes: ± 3%
- Contingut d'aigua: ± 3%
- Contingut d'additius: ± 5%
- Contingut d'addicions: ± 3%
2.- CONDICIONS DE SUBMINISTRAMENT I EMMAGATZEMATGE
Subministrament: En camions formigonera.
El formigó ha d'arribar a l'obra sense alteracions en les seves característiques, formant una barreja homogènia i sense haver iniciat l'adormiment.
Queda expressament prohibit l'addició al formigó de qualsevol quantitat d'aigua o altres substàncies que puguin alterar la composició original.
Emmagatzematge: No es pot emmagatzemar.
3.- UNITAT I CRITERI D'AMIDAMENT
Unitat d'amidament: la indicada a la descripció de l'element
Criteri d'amidament: quantitat necessària subministrada a l'obra
4.- NORMATIVA DE COMPLIMENT OBLIGATORI
Real Decreto 470/2021, de 29 de junio, por el que se aprueba el Código Estructural.

B0 MATERIALS BÀSICS

B06 FORMIGONS

B06B- FORMIGÓ PER A PAVIMENTS HF

0.- ELEMENTS QUE CONTEMPLA EL PLEC

B06B-12QK.

1.- DEFINICIÓ I CONDICIONS DELS ELEMENTS
Formigó per a paviments de carreteres, elaborat en una central de barreja discontinua, que compleixi els requisits de l'article 550.4.2 del PG 3 vigent.

CONDICIONS GENERALS:
Els components del formigó, la seva dosificació, el procés de fabricació i el transport han d'estar d'acord amb les prescripcions del CODI ESTRUCTURAL i l'article 550 del PG 3/75 vigent.
La designació del formigó ha de ser: HF-nº (Resistència a la flexotracció al cap de 28 dies, UNE-EN 12390-1, UNE-EN 12390-2 i UNE-EN 12390-5).
La fabricació del formigó no es podrà iniciar fins que la DF no hagi aprovat la fórmula de treball i el corresponent tram de prova (apartat d'execució). Aquesta fórmula inclourà:
- La identificació de cada fracció d'àrid i la seva proporció ponderal en sec
- La granulometria de la mescla d'àrids per als tamisos 40 mm; 25 mm; 20 mm; 12,5 mm; 8 mm; 4 mm; 2 mm; 1 mm; 0,500 mm; 0,250 mm; 0,125 mm; i 0,063 mm UNE EN 933-2.
- La dosificació de ciment, aigua i, si és el cas de cada additiu, referides a amassada
- La resistència característica a flexotracció a 7 i a 28 dies.
- La consistència del formigó fresc, i el contingut d'aire ocluït.

El Plec de Prescripcions Tècniques Particulars fixarà els additius que puguin utilitzar-se per a obtenir la treballabilitat adequada o millorar les característiques de la mescla. El Director de les Obres establirà la necessitat d'utilitzar additius i el seu mètode d'ús d'acord amb les condicions d'execució, les característiques de l'obra i les condicions climàtiques. En qualsevol circumstància, els additius utilitzats hauran de complir les condicions establertes a l'UNE EN 934-2.
Únicament s'autoritzarà l'ús d'aquells additius que les seves característiques, i especialment el seu comportament i els efectes sobre la mescla al utilitzar-los amb les proporciones previstes, vinguin garantides pel fabricant, sent obligatori realitzar assaigs previs per a comprovar aquest comportament.
Resistència a flexotracció als 28 dies (segons UNE EN 12390-5):
- TIPUS DE FORMIGÓ RESISTENCIA (*)
- Per a formigó HF-5,0: >= 5,0 MPa
- Per a formigó HF-4,5: >= 4,5 MPa
- Per a formigó HF-4,0: >= 4,0 MPa
- Per a formigó HF-3,5: >= 3,5 MPa
- (*)Si s'utilitzen ciments per a usos especials, els valors a 28 dies es podran disminuir en un 15% si, mitjançant assaigs normals o accelerats, es comprova que compleixen a 90 dies.

Consistencia (UNE-EN 12350-2): asentament entre 1 i 6 cm
El pes total de partícules que passen pel tamís 0,125 mm UNE EN 933-2 no serà major de 450 kg/m3, inclòs el ciment. Aquest valor es podrà incrementar en 50 kg/m3 en el formigó de la capa superior dels paviments bicapa.
Els paviments bicapa han de complir les limitacions de la taula 550.4 del PG 3 vigent en referència a les partícules que passen pel tamís 0,063.
La dosificació de ciment serà >= 300 kg/m3 de formigó fresc. En cas de paviments bicapa amb eliminació del morter superficial, aquest relació serà >= 450 kg/m3.
Relació aigua/ciment: >= 0,46
Proporció d'aire ocluït (UNE-EN 12350-7): <= 6%
En zones sotmeses a nevades o gelades serà obligatòria la utilització d'un inclusor d'aire, i en aquest cas, la proporció d'aire ocluit en el formigó fresc no serà inferior al 4,5 % en volum.
2.- CONDICIONS DE SUBMINISTRAMENT I EMMAGATZEMATGE
Subministrament: En camió amb caixa llisa, amb lona per a protecció del formigó fresc. No es pot utilitzar camions formigonera.
El formigó ha d'arribar a l'obra sense alteracions en les seves característiques, formant una barreja homogènia i sense haver iniciat l'adormiment.
La descàrrega del formigó s'ha de fer des de una alçària inferior a 1,5 m, i el més a prop possible del lloc definitiu de col·locació
Queda expressament prohibit l'addició al formigó de qualsevol quantitat d'aigua o altres substàncies que puguin alterar la composició original.
Emmagatzematge: No es pot emmagatzemar.
3.- UNITAT I CRITERI D'AMIDAMENT
Unitat d'amidament: la indicada a la descripció de l'element
Criteri d'amidament: quantitat necessària subministrada a l'obra
4.- NORMATIVA DE COMPLIMENT OBLIGATORI
Orden de 6 de febrero de 1976 por la que se aprueba el Pliego de Prescripciones Técnicas Generales para Obras de Carreteras y Puentes (PG-3).
Orden FOM/2523/2014, de 12 de diciembre, por la que se actualizan determinados artículos del Pliego de Prescripciones Técnicas Generales para Obras de Carreteras y Puentes, relativos a materiales básicos, a firmes y pavimentos, y a señalización, balizamiento y sistemas de contención de vehículos (PG-3).
Real Decreto 470/2021, de 29 de junio, por el que se aprueba el Código Estructural.

5.- CONDICIONS DE CONTROL DE RECEPCIÓ
CONDICIONS DE MARCATGE I CONTROL DE LA DOCUMENTACIÓ:
El subministrador ha de lliurar amb cada càrrega un full on constin, com a mínim, les dades següents:
- Identificació del subministrador
- Número de sèrie de la fulla de subministrament
- Nom de la central de formigó
- Identificació del peticionari
- Data i hora de lliurament
- Quantitat de formigó subministrat
- Designació del formigó
Dosificació real del formigó incloent com a mínim la informació següent: - Contingut de ciment per m3 - Relació aigua/ciment - Tipus i contingut de ciment - Contingut en addicions - Contingut en additius - Tipus d'additiu segons UNE_EN 934-2, si n'hi ha
- Identificació del ciment, additius i addicions
- Designació específica del lloc de subministrament
- Identificació del camió i de la persona que fa la descàrrega
- Hora límit d'us del formigó
El subministrador, a petició de la DF, haurà de lliurar els certificats i la documentació que reglamentàriament acrediti el marcatge CE dels productes o en el seu defecte els resultats dels assajos indicats al article 550 del PG 3 vigent.
OPERACIONS DE CONTROL:
Determinació de la fórmula de treball d'acord amb l'article 550.5.1 del PG 3 vigent.
Control dels components del formigó verificant els valors declarats al documents de marcatge CE, o en cas de materials que no tinguin obligació legal de disposar de marcatge CE, realitzant les comprovacions indicades al article 550.9 del PG 3 vigent.
Control de fabricació:
- Determinació de la granulometria de mostres de granulats (UNE-EN 933-1)
- Precisió de les bàscules de dosificació
- Aspecte del formigó a la sortida de la amassadora
- Temperatura del formigó a la sortida de la amassadora
- Contingut del aire ocluït (UNE-EN 12350-7)
- Consitencia (UNE-EN 12350-2)
- Fabricació i conservació de probetes per a control resistència
CRITERIS DE PRESA DE MOSTRES:
Els criteris de presa de mostres seran els indicats a l'article 550.9 del PG 3 vigent.
INTERPRETACIÓ DE RESULTATS I ACTUACIONS EN CAS D'INCOMPLIMENT:
Cap material es pot utilitzar a la fabricació del formigó fins que la DF doni la seva aprovació en funció dels resultats dels assajos realitzats.
El formigó que tingui un aspecte segregat o amb falta d'homogeneïtat al recobriment del granulat es rebutjarà, així com l'amassada que tingui una consistència que superi els límits establerts a la fórmula de treball.

B0 MATERIALS BÀSICS

B06 FORMIGONS

B06E- FORMIGÓ ESTRUCTURAL (EHE)

0.- ELEMENTS QUE CONTEMPLA EL PLEC

B06E-11CP.

1.- DEFINICIÓ I CONDICIONS DELS ELEMENTS
Formigó amb o sense addicions (cendres volants o fum de sílice), elaborat en una central formigonera legalment autoritzada d'acord amb el títol 4t. de la llei 21/1992 de 16 de juliol d'indústria i el Real Decret 559/2010, de 7 de maig.
CARACTERÍSTIQUES DELS FORMIGONS D'ÚS ESTRUCTURAL:
Els components del formigó, la seva dosificació, el procés de fabricació i el transport han d'estar d'acord amb les prescripcions del CODI ESTRUCTURAL.

La designació del formigó fabricat en central es pot fer per propietats o per dosificació i s'expressarà, com a mínim, la següent informació:
- Consistència
- Grandària màxima del granulat
- Tipus d'ambient al que s'exposarà el formigó
- Resistència característica a compressió per als formigons designats per propietats
- Contingut de ciment expressat en kg/m3, per als formigons designats per dosificació
- La indicació de l'ús estructural que ha de tenir el formigó: en massa, armat o pretesat

La designació per propietats s'ha de fer d'acord amb el format: T-R/C/TM/A
- T: Indicatiu que serà HM per al formigó en massa, HA pel formigó armat, i HP per al formigó pretesat
- R: Resistència característica a compressió, en N/mm2 (20-25-30-35-40-45-50-55-60-70-80-90-100)
- C: Lletra indicativa del tipus de consistència: L Líquida, F fluida, B tova, P plàstica i S seca
- TM: Grandària màxima del granulat en mm.
- A: Designació de l'ambient al que s'exposarà el formigó

En els formigons designats per propietats, el subministrador ha d'establir la composició de la mescla del formigó, garantint al peticionari les característiques especificades de grandària màxima del granulat, consistència i resistència característica, així com les limitacions derivades del tipus d'ambient especificat (contingut de ciment i relació aigua/ciment).
En els formigons designats per dosificació, el peticionari es responsable de la congruència de les característiques especificades de grandària màxima del granulat, consistència i contingut en ciment per metre cúbic de formigó, i el subministrador les haurà de garantir, indicant també, la relació aigua/ciment que ha emprat.
En els formigons amb característiques especials o d'altres de les especificades a la designació, les garanties i les dades que el subministrador hagi d'aportar, s'han d'especificar abans de l'inici del subministrament.
El formigó ha de complir amb les exigències de qualitat que estableix l'article 43.2 del CODI ESTRUCTURAL.
Si el formigó està destinat a una obra amb armadures pretesades, podrà contenir cendres volants sense que aquestes excedeixin el 20% del pes del ciment, i si es tracta de fum de silici no podrà excedir el 10%
Si el formigó està destinat a obres de formigó en massa o armat, la DF pot autoritzar l'us de cendres volants o fum de silici per la seva confecció. En estructures d'edificació, si s'utilitzen cendres volants no han de superar el 35% del pes del ciment. Si s'utilitza fum de silici no ha de superar el 10% del pes del ciment. La quantitat mínima de ciment s'especifica a l'article 43.2.1 del CODI ESTRUCTURAL.
La central que subministri formigó amb cendres volants realitzarà un control sobre la producció segons l'art. 32 del CODI ESTRUCTURAL i ha de posar els resultats de l'anàlisi a l'abast de la DF, o disposarà d'un distintiu de qualitat oficialment reconegut
Les cendres volants han de complir en qualsevol cas les especificacions de la norma UNE_EN 450.
Els additius hauran de ser del tipus que estableix l'article 31.2 del CODI ESTRUCTURAL i complir l'UNE EN 934-2
En cap cas la proporció en pes de l'additiu no ha de superar el 5% del pes del ciment utilitzat.
Classificació dels formigons per la seva resistència a compressió:
- Si fck <= 50 N/mm2 , resistència standard
- Si fck > 50 N/mm2 , alta resistència

Si no es disposa més que de resultats a 28 dies d'edat, es podran admetre com a valors de resistència a j dies d'edat els valors resultants de la fórmula següent:
- fcm (t) = ßcc(t)·fcm
- ßcc = exp s [1 (28/t)1/2]

(on Fcm: Resistència mitja a compressió a 28 dies, ßcc: coeficient que depèn de l'edat del formigó, t: edat del formigó en dies, s: coeficient en funció del tipus de ciment (= 0,2 per a ciments d'alta resistència i enduriment ràpid (CEM 42,5R, CEM 52,5R), = 0,25 per a ciments normals i d'enduriment ràpid (CEM 32,5R, CEM 42,5), = 0,38 per a ciments d'enduriment lent (CEM 32,25)).
Valor mínim de la resistència:
- Formigons en massa >= 20 N/mm2
- Formigons armats o pretesats >= 25 N/mm2

Tipus de ciment:
- Formigó en massa: Ciments comuns excepte els tipus CEM II/A-Q, CEM II/B-Q, CEM II/A-W, CEM II/B-W, CEM II/A-T, CEM II/B-T i CEM III/C (UNE-EN 197-1), Ciments per a usos especials ESP VI-1 (UNE 80307).

- Formigó armat: Ciments comuns excepte els tipus CEM II/A-Q, CEM II/B-Q, CEM II/A-W, CEM II/B-W, CEM II/A-T, CEM II/B-T, CEM III/C i CEM V/B (UNE-EN 197-1).
- Formigó pretesat: Ciments comuns tipus CEM I, CEM II/A-D, CEM II/A-V, CEM II/A-P i CEM II/A-M(V,P) (UNE-EN 197-1).
- Es considera inclòs dins dels ciments comuns els ciments blancs (UNE 80305).
- Es consideren inclosos els ciments de característiques addicionals com els resistents als sulfats i/o a l'aigua de mar (UNE 80303-1 i UNE 80303-2), i els de baix calor d'hidratació (UNE-EN 14216).

Classe del ciment: 32,5 N

Densitats dels formigons:

- Formigons en massa (HM): - 2.250 kg/m3 si fck <=40 N/mm2 - 2.300 kg/m3 si fck > 40 N/mm2
- Formigons armats i pretensats (HA-HP): 2400 kg/m3.

La quantitat mínima de ciment considerant el tipus d'exposició més favorable ha de ser (CODI ESTRUCTURAL, taula 43.2.1.a):

- Obres de formigó en massa: >= 200 kg/m3
- Obres de formigó armat: >= 250 kg/m3
- Obres de formigó pretesat: >= 275 kg/m3
- A totes les obres: <= 500 kg/m3

La relació aigua/ciment considerant el tipus d'exposició més favorable ha de ser (CODI ESTRUCTURAL, taula 43.2.1.a):

- Formigó en massa: <= 0,65
- Formigó armat: <= 0,65
- Formigó pretesat: <= 0,60

Assentament en el con d'Abrams (UNE EN 12350-2):

- Consistència seca: 0 - 2 cm
- Consistència plàstica: 3-4 cm
- Consistència tova: 5-9 cm
- Consistència fluida: 10-15 cm
- Consistència líquida: 16-20 cm

La consistència (L) líquida només es podrà aconseguir mitjançant additiu superfluidificant

Ió clor total aportat per components d'un formigó no pot superar:

- Pretensat: <= 0,2% pes de ciment
- Armat: <= 0,4% pes de ciment
- En massa amb armadura de fissuració: <= 0,4% pes de ciment

Quantitat total de fins (sedàs 0,063) al formigó, corresponents als granulats i al ciment:

- Si l'aigua és standard: < 175 kg/m3
- Si l'aigua és reciclada: < 185 kg/m3

Toleràncies:

- Assentament en el con d'Abrams: - Consistència seca: Nul - Consistència plàstica o tova: ± 1 cm - Consistència fluida: ± 1 cm - Consistència líquida: ± 1 cm

FORMIGONS PER A PILOTS FORMIGONATS "IN SITU"

Tamany màxim del granulat. El més petit dels següents valors:

- <= 32 mm
- <= 1/4 separació entre barres d'acer longitudinals

Dosificacions de pastat:

- Contingut de ciment: - Formigons abocats en sec: >= 325 kg/m3 - Formigons submergits: >= 375 kg/m3
- Relació aigua-ciment (A/C): < 0,6
- Contingut de fins d <0,125 (ciment inclòs): - Granulat gruixut d > 8 mm: >= 400 kg/m3 - Granulat gruixut d <= 8 mm: >= 450 kg/m3

Consistència del formigó:

Assentament con d'Abrams(mm)	Condicions d'ús
130 <= H <= 180	- Formigó abocat en sec
H >= 160	- Formigó bombejat, submergit o abocat sota aigua amb tub tremie
H >= 180	- Formigó submergit, abocat sota fluid estabilitzador amb tub tremie

El formigó ha de tenir la docilitat i fluïdesa adequada, i aquests valors s'han de mantenir durant tot el procés de formigonat, per tal d'evitar embussos als tubs de formigonar.

FORMIGONS PER A PANTALLES FORMIGONADES "IN SITU"
Contingut mímin de ciment en funció de la grandària màxima del granulat:

Grandària màxima del granulat(mm)	Contingut mínim de ciment(kg)
32	350
25	370
20	385
16	400

Grandària màxima del granulat. El més petit dels següents valors:
- <= 32 mm
- <= 1/4 separació entre barres d'acer longitudinals

Dosificacions de pastat:
- Contingut de ciment en pantalles contínues de formigó armat: - Formigons abocats en sec: >= 325 kg/m3 - Formigons submergits: >= 375 kg/m3
- Relació aigua-ciment: 0,45 < A/C < 0,6
- Contingut de fins d <=0,125 mm (ciment inclòs): - Granulat gruixut D <= 16 mm: <= 450 kg/m3 - Granulat gruixut D > 16 mm: = 400 kg/m3
- Assentament al con d'Abrams: 160 < A < 220 mm

El formigó ha de tenir la docilitat i fluïdesa adequada, i aquests valors s'han de mantenir durant tot el procés de formigonat, per tal d'evitar embussos als tubs de formigonar.

FORMIGÓ PER A PAVIMENTS
La fabricació del formigó no es podrà iniciar fins que la DF no hagi aprovat la fórmula de treball i el corresponent tram de prova (apartat d'execució). Aquesta fórmula inclourà:
- La identificació de cada fracció d'àrid i la seva proporció ponderal en sec
- La granulometria de la mescla d'àrids per als tamisos 40 mm; 25 mm; 20 mm; 12,5 mm; 8 mm; 4 mm; 2 mm; 1 mm; 0,500 mm; 0,250 mm; 0,125 mm; i 0,063 mm UNE EN 933-2.
- La dosificació de ciment, aigua i, si és el cas de cada additiu, referides a amassada
- La resistència característica a flexotracció a 7 i a 28 dies.
- La consistència del formigó fresc, i el contingut d'aire ocluït.

El pes total de partícules que passen pel tamís 0,125 mm UNE EN 933-2 no serà major de 450 kg/m3, inclòs el ciment.
Contingut de ciment: >= 300 kg/m3
Relació aigua/ciment: <= 0,46
Assentament en el con d'Abrams (UNE 83313): 2 - 6 cm
Proporció d'aire ocluït (UNE 83315): <= 6%
En zones sotmeses a nevades o gelades serà obligatòria la utilització d'un inclusor d'aire, i en aquest cas, la proporció d'aire ocluit en el formigó fresc no serà inferior al 4,5 % en volum.
Toleràncies:
- Assentament en el con d'Abrams: ± 1 cm

2.- CONDICIONS DE SUBMINISTRAMENT I EMMAGATZEMATGE
Subministrament: En camions formigonera.
El formigó ha d'arribar a l'obra sense alteracions en les seves característiques, formant una barreja homogènia i sense haver iniciat l'adormiment.
Queda expressament prohibit l'addició al formigó de qualsevol quantitat d'aigua o altres substàncies que puguin alterar la composició original.
Emmagatzematge: No es pot emmagatzemar.

3.- UNITAT I CRITERI D'AMIDAMENT
Unitat d'amidament: la indicada a la descripció de l'element
Criteri d'amidament: quantitat necessària subministrada a l'obra

4.- NORMATIVA DE COMPLIMENT OBLIGATORI
Real Decreto 470/2021, de 29 de junio, por el que se aprueba el Código Estructural.
PILOTS I PANTALLES FORMIGONADES "IN SITU"
Documento Básico de Seguridad estructural DB-SE, parte II del CTE, aprobado por el Real Decreto 314/2006.
FORMIGÓ PER A PAVIMENTS
Orden FOM/891/2004, de 1 de marzo, por la que se actualizan determinados artículos del Pliego de Prescripciones Técnicas Generales para Obras de Carreteras y Puentes, relativos a firmes y pavimentos (PG-3).

B0 MATERIALS BÀSICS

B06 FORMIGONS

B06F FORMIGONS ESTRUCTURALS (CE)

B06F1- FORMIGÓ ESTRUCTURAL EN MASSA AMB CIMENT GRIS I GRANULAT NATURAL (CE)

0.- ELEMENTS QUE CONTEMPLA EL PLEC

B06F1-I0IL,B06F1-I4HH.

1.- DEFINICIÓ I CONDICIONS DELS ELEMENTS
Formigó amb o sense addicions (cendres volants o fum de sílice), elaborat en una central formigonera legalment autoritzada d'acord amb el títol 4t. de la llei 21/1992 de 16 de juliol d'indústria i el Real Decret 559/2010, de 7 de maig.
CARACTERÍSTIQUES DELS FORMIGONS D'ÚS ESTRUCTURAL:
Els components del formigó, la seva dosificació, el procés de fabricació i el transport han d'estar d'acord amb les prescripcions del CODI ESTRUCTURAL.
La designació del formigó fabricat en central es pot fer per propietats o per dosificació i s'expressarà, com a mínim, la següent informació:
- Consistència
- Grandària màxima del granulat
- Tipus d'ambient al que s'exposarà el formigó
- Resistència característica a compressió per als formigons designats per propietats
- Contingut de ciment expressat en kg/m3, per als formigons designats per dosificació
- La indicació de l'ús estructural que ha de tenir el formigó: en massa, armat o pretesat
La designació per propietats s'ha de fer d'acord amb el format: T-R/C/TM/A
- T: Indicatiu que serà HM per al formigó en massa, HA pel formigó armat, i HP per al formigó pretesat
- R: Resistència característica a compressió, en N/mm2 (20-25-30-35-40-45-50-55-60-70-80-90-100)
- C: Lletra indicativa del tipus de consistència: L Líquida, F fluida, B tova, P plàstica i S seca
- TM: Grandària màxima del granulat en mm.
- A: Designació de l'ambient al que s'exposarà el formigó
En els formigons designats per propietats, el subministrador ha d'establir la composició de la mescla del formigó, garantint al peticionari les característiques especificades de grandària màxima del granulat, consistència i resistència característica, així com les limitacions derivades del tipus d'ambient especificat (contingut de ciment i relació aigua/ciment).
En els formigons designats per dosificació, el peticionari es responsable de la congruència de les característiques especificades de grandària màxima del granulat, consistència i contingut en ciment per metre cúbic de formigó, i el subministrador les haurà de garantir, indicant també, la relació aigua/ciment que ha emprat.
En els formigons amb característiques especials o d'altres de les especificades a la designació, les garanties i les dades que el subministrador hagi d'aportar, s'han d'especificar abans de l'inici del subministrament.
El formigó ha de complir amb les exigències de qualitat que estableix l'article 43.2 del CODI ESTRUCTURAL.
Si el formigó està destinat a una obra amb armadures pretesades, podrà contenir cendres volants sense que aquestes excedeixin el 20% del pes del ciment, i si es tracta de fum de silici no podrà excedir el 10%
Si el formigó està destinat a obres de formigó en massa o armat, la DF pot autoritzar l'us de cendres volants o fum de silici per la seva confecció. En estructures d'edificació, si s'utilitzen cendres volants no han de superar el 35% del pes del ciment. Si s'utilitza fum de silici no ha de superar el 10% del pes del ciment. La quantitat mínima de ciment s'especifica a l'article 43.2.1 del CODI ESTRUCTURAL.
La central que subministri formigó amb cendres volants realitzarà un control sobre la producció segons l'art. 32 del CODI ESTRUCTURAL i ha de posar els resultats de l'anàlisi a l'abast de la DF, o disposarà d'un distintiu de qualitat oficialment reconegut

Les cendres volants han de complir en qualsevol cas les especificacions de la norma UNE_EN 450.
Els additius hauran de ser del tipus que estableix l'article 31.2 del CODI ESTRUCTURAL i complir l'UNE EN 934-2
En cap cas la proporció en pes de l'additiu no ha de superar el 5% del pes del ciment utilitzat.
Classificació dels formigons per la seva resistència a compressió:
- Si fck <= 50 N/mm2 , resistència standard
- Si fck > 50 N/mm2 , alta resistència
Valor mínim de la resistència:
- Formigons en massa >= 20 N/mm2
- Formigons armats o pretesats >= 25 N/mm2
Tipus de ciment:
- Formigó en massa: Ciments comuns excepte els tipus CEM II/A-Q, CEM II/B-Q, CEM II/A-W, CEM II/B-W, CEM II/A-T, CEM II/B-T i CEM III/C (UNE-EN 197-1), Ciments per a usos especials ESP VI-1 (UNE 80307).
- Formigó armat: Ciments comuns excepte els tipus CEM II/A-Q, CEM II/B-Q, CEM II/A-W, CEM II/B-W, CEM II/A-T, CEM II/B-T, CEM III/C i CEM V/B (UNE-EN 197-1).
- Formigó pretesat: Ciments comuns tipus CEM I, CEM II/A-D, CEM II/A-V, CEM II/A-P i CEM II/A-M(V,P) (UNE-EN 197-1).
- Es considera inclòs dins dels ciments comuns els ciments blancs (UNE 80305).
- Es consideren inclosos els ciments de característiques addicionals com els resistents als sulfats i/o a l'aigua de mar (UNE 80303-1 i UNE 80303-2), i els de baix calor d'hidratació (UNE-EN 14216).
Classe del ciment: 32,5 N
Densitats dels formigons:
- Formigons en massa (HM): - 2.250 kg/m3 si fck <=40 N/mm2 - 2.300 kg/m3 si fck > 40 N/mm2
Formigons armats i pretensats (HA-HP): 2400 kg/m3
El contingut mínim de ciment ha d'estar d'acord amb les prescripcions del CODI ESTRUCTURAL, en funció de la classe d'exposició (taula 43.2.1.a). La quantitat mínima de ciment considerant el tipus d'exposició més favorable ha de ser:
- Obres de formigó en massa: >= 200 kg/m3
- Obres de formigó armat: >= 250 kg/m3
- Obres de formigó pretesat: >= 275 kg/m3
- A totes les obres: <= 500 kg/m3
La relació aigua/ciment ha d'estar d'acord amb les prescripcions del CODI ESTRUCTURAL, en funció de la classe d'exposició (taula 43.2.1.a). La relació aigua/ciment considerant el tipus d'exposició més favorable ha de ser:
- Formigó en massa: <= 0,65
- Formigó armat: <= 0,65
- Formigó pretesat: <= 0,60
Assentament en el con d'Abrams (UNE EN 12350-2):
- Consistència seca: 0 - 20 mm
- Consistència plàstica: 30 - 40 mm
- Consistència tova: 50 - 90 mm
- Consistència fluida: 100-150 mm
- Consistència líquida: 160-200 mm
La consistència (L) líquida només es podrà aconseguir mitjançant additiu superfluidificant
Ió clor total aportat per components d'un formigó no pot superar:
- Pretensat: <= 0,2% pes de ciment
- Armat: <= 0,4% pes de ciment
- En massa amb armadura de fissuració: <= 0,4% pes de ciment
Quantitat total de fins (sedàs 0,063) al formigó, corresponents als granulats i al ciment:
- Si l'aigua és standard: < 200 kg/m3
- Si l'aigua és reciclada: < 210 kg/m3
- Toleràncies:
- Assentament en el con d'Abrams: - Consistència seca: ± 1 cm - Consistència plàstica: ± 1 cm - Consistència tova: ± 1 cm - Consistència fluida: ± 1 cm
- Consistència líquida: ± 1 cm
FORMIGONS PER A PILOTS FORMIGONATS "IN SITU"
Tamany màxim del granulat. El més petit dels següents valors:
- <= 32 mm
- <= 1/4 separació entre barres d'acer longitudinals
Dosificacions de pastat:

- Contingut de ciment: - Formigons abocats en sec: >= 325 kg/m3 - Formigons submergits: >= 375 kg/m3
- Relació aigua-ciment (A/C): < 0,6
- Contingut de fins d <0,125 (ciment inclòs): - Granulat gruixut d > 8 mm: >= 400 kg/m3 - Granulat gruixut d <= 8 mm: >= 450 kg/m3

Consistència del formigó:

Assentament con d'Abrams(mm)	Condicions d'ús
130 <= H <= 180	- Formigó abocat en sec
H >= 160	- Formigó bombejat, submergit o abocat sota aigua amb tub tremie
H >= 180	- Formigó submergit, abocat sota fluid estabilitzador amb tub tremie

El formigó ha de tenir la docilitat i fluïdesa adequada, i aquests valors s'han de mantenir durant tot el procés de formigonat, per tal d'evitar embussos als tubs de formigonar.

FORMIGONS PER A PANTALLES FORMIGONADES "IN SITU"

Contingut mímin de ciment en funció de la grandària màxima del granulat:

Grandària màxima del granulat(mm)	Contingut mínim de ciment(kg)
32	350
25	370
20	385
16	400

Grandària màxima del granulat. El més petit dels següents valors:
- <= 32 mm
- <= 1/4 separació entre barres d'acer longitudinals

Dosificacions de pastat:
- Contingut de ciment en pantalles contínues de formigó armat: - Formigons abocats en sec: >= 325 kg/m3 - Formigons submergits: >= 375 kg/m3
- Relació aigua-ciment: 0,45 < A/C < 0,6
- Contingut de fins d <=0,125 mm (ciment inclòs): - Granulat gruixut D <= 16 mm: <= 450 kg/m3 - Granulat gruixut D > 16 mm: = 400 kg/m3
- Assentament al con d'Abrams: 160 < A < 220 mm

El formigó ha de tenir la docilitat i fluïdesa adequada, i aquests valors s'han de mantenir durant tot el procés de formigonat, per tal d'evitar embussos als tubs de formigonar.

FORMIGÓ PER A PAVIMENTS

La fabricació del formigó no es podrà iniciar fins que la DF no hagi aprovat la fórmula de treball i el corresponent tram de prova (apartat d'execució). Aquesta fórmula inclourà:
- La identificació de cada fracció d'àrid i la seva proporció ponderal en sec
- La granulometria de la mescla d'àrids per als tamisos 40 mm; 25 mm; 20 mm; 12,5 mm; 8 mm; 4 mm; 2 mm; 1 mm; 0,500 mm; 0,250 mm; 0,125 mm; i 0,063 mm UNE EN 933-2.
- La dosificació de ciment, aigua i, si és el cas de cada additiu, referides a amassada
- La resistència característica a flexotracció a 7 i a 28 dies.
- La consistència del formigó fresc, i el contingut d'aire ocluït.

El pes total de partícules que passen pel tamís 0,125 mm UNE EN 933-2 no serà major de 450 kg/m3, inclòs el ciment.

Contingut de ciment: >= 300 kg/m3

Relació aigua/ciment: <= 0,46

Assentament en el con d'Abrams (UNE 83313): 2 - 6 cm

Proporció d'aire ocluït (UNE 83315): <= 6%

En zones sotmeses a nevades o gelades serà obligatòria la utilització d'un inclusor d'aire, i en aquest cas, la proporció d'aire ocluit en el formigó fresc no serà inferior al 4,5 % en volum.

Toleràncies:

Assentament en el con d'Abrams: ± 1 cm

2.- CONDICIONS DE SUBMINISTRAMENT I EMMAGATZEMATGE

Subministrament: En camions formigonera.

Queda expressament prohibit l'addició al formigó de qualsevol quantitat d'aigua o altres substàncies que puguin alterar la composició original.
Emmagatzematge: No es pot emmagatzemar.
3.- UNITAT I CRITERI D'AMIDAMENT
Unitat d'amidament: la indicada a la descripció de l'element
Criteri d'amidament: quantitat necessària subministrada a l'obra
4.- NORMATIVA DE COMPLIMENT OBLIGATORI
Real Decreto 470/2021, de 29 de junio, por el que se aprueba el Código Estructural.

B0 MATERIALS BÀSICS

B07 MORTERS DE COMPRA

B07L- MORTER PER A RAM DE PALETA

0.- ELEMENTS QUE CONTEMPLA EL PLEC

B07L-1PYA,B07L-1PY6.

1.- DEFINICIÓ I CONDICIONS DELS ELEMENTS
Barreja d'un o més conglomerants minerals amb granulats triats i additius especials.
- Morter de ram de paleta
CARACTERÍSTIQUES GENERALS:
No ha de tenir grumolls ni principis d'aglomeració.
MORTER DE RAM DE PALETA:
Mescla formada per un o varis conglomerants inorgànics, granulats, aigua i addicions o additius (en el seu cas), per a fàbriques d'obra ceràmica (façanes, murs, pilars, envans) com a material d'unió i rejuntat.
S'han considerat els tipus següents:
- Morter d'us corrent (G): sense característiques especials
- Morter per a junts i capes fines (T): Morter dissenyat amb una mida màxima del granulat menor o igual al valor que figura especificat
- Morter de ram de paleta lleuger (L): Morter dissenyat que la seva densitat (endurit i sec), es inferior o igual al valor que figura especificat
La classe del morter es defineix per la lletra M seguida del valor de la resistència a compressió mínima declarada pel fabricant en N/mm2.
En els morters prescrits, el fabricant declararà la proporció de tots els components de la mescla, en volum o en pes.
Les característiques següents han de complir amb els valors declarats pel fabricant, assajades segons la norma corresponent:
- Característiques dels morters frescos: - Temps d'us (EN 1015-9) - Contingut en ions clorur (EN-EN 1015-17): <= 0,1% - Contingut en aire (EN 1015-7) o (EN 1015-6) si s'han utilitzat granulats porosos
- Característiques dels morters endurits: - Resistència a compressió (EN 1015-11) - Resistència d'unió (adhesió) (EN 1052-3) - Absorció d'aigua (EN 1015-18) - Permeabilitat al vapor d'aigua (EN 1745) - Densitat (morter endurit i sec) (EN 1015-10) - Conductivitat tèrmica (EN 1745) - Durabilitat (resistència als cicles de gel/desgel) (comprovat segons les disposicions que li siguin aplicables)
- Característiques addicionals per als morters lleugers: - Densitat (UNE-EN 1015-10): <= 1300 kg/m3
- Característiques addicionals per als morters per a junts i capes fines: - Mida màxima del granulat (EN 1015-1): <= 2 mm - Temps obert o temps de correcció (EN 1015-9)
- Reacció davant del foc: - Material amb contingut de matèria orgànica <= 1,0%: Classe A1 - Material amb contingut de matèria orgànica > 1,0%: Classe segons UNE-EN 13501-1

2.- CONDICIONS DE SUBMINISTRAMENT I EMMAGATZEMATGE
Subministrament: en envasos tancats hermèticament.
Emmagatzematge: En el seu envàs d'origen i en llocs secs, sense contacte directe amb el terra i protegit de la intempèrie, de manera que no se n'alterin les condicions inicials.
3.- UNITAT I CRITERI D'AMIDAMENT
Unitat d'amidament: la indicada a la descripció de l'element
Criteri d'amidament: quantitat necessària subministrada a l'obra
4.- NORMATIVA DE COMPLIMENT OBLIGATORI
MORTER DE RAM DE PALETA:
UNE-EN 998-2:2004 Especificaciones de los morteros para albañilería. Parte 2: Morteros para albañilería.
5.- CONDICIONS DE CONTROL DE RECEPCIÓ
CONDICIONS DE MARCATGE I CONTROL DE LA DOCUMENTACIÓ EN MORTER DE RAM DE PALETA:
El subministrador ha de posar a disposició de la DF en el cas que aquesta ho sol·liciti, la documentació següent, que acredita el marcatge CE, segons el sistema d'avaluació de conformitat aplicable, d'acord amb el que disposa l'apartat 7.2.1 del CTE: - Productes per a murs, pilars i particions (morters dissenyats*). * Morter amb una composició i sistema de fabricació escollits pel fabricant per tal d'obtenir les propietats especificades (concepte de prestació): - Sistema 2+: Declaració de Prestacions - Productes per a murs, pilars i particions (morters prescrits*). * Morter que es fabrica en unes proporcions predeterminades i que les seves propietats depenen de les proporcions dels components que s'han declarat (concepte de recepta): - Sistema 4: Declaració de Prestacions
A l'embalatge o a l'albarà de lliurament han de constar-hi les dades següents:
- Referència a la norma UNE-EN 998-2
- Nom del fabricant
- Codi o data de fabricació
- Tipus de morter
- Temps d'us
- Contingut en clorurs
- Contingut en aire
- Proporció dels components (morters prescrits)
- Resistència a compressió o classe de resistència a compressió
- Resistència d'unió (adhesió)
- Absorció d'aigua
- Permeabilitat al vapor d'aigua
- Densitat
- Conductivitat tèrmica
- Durabilitat
- Mida màxima del granulat
- Temps obert o temps de correcció
- Reacció davant el foc
- Marcatge CE de conformitat amb el que disposa el Reial Decret 1328/1995, de 28 de juliol

OPERACIONS DE CONTROL EN MORTERS DE RAM DE PALETA:
Inspecció visual de les condicions de subministrament i recepció del certificat de qualitat del fabricant, segons les exigències del plec de condicions.
Abans de l'inici de l'obra, i amb freqüència setmanal durant la seva execució, es comprovarà la consistència del morter mitjançant el mètode establert a l'UNE EN 1015-4, i es prepararà una sèrie de 3 provetes prismàtiques de 4x4x16 cm per tal d'obtenir la resistència a compressió (UNE-EN 1015-11)
CRITERIS DE PRESA DE MOSTRES EN MORTERS DE RAM DE PALETA:
Els controls es realitzaran segons les instruccions de la DF i les indicacions de la UNE-EN 1015-11.
INTERPRETACIÓ DELS RESULTATS I ACTUACIONS EN CAS D'INCOMPLIMENT, EN MORTERS DE RAM DE PALETA:
No es podran utilitzar a l'obra morters sense el corresponent certificat de garantia del fabricant, d'acord a les condicions exigides.
El valor de resistència a compressió obtingut ha de correspondre a les especificacions de projecte:
- Si resulta superior al 90% de la de projecte, s'acceptarà el lot.
- Si resulta inferior al 90% s'encarregarà un càlcul estructural que determini el coeficient de seguretat del element corresponent. S'acceptarà el lot si aquest coeficient no és inferior al 90 % del previst en el projecte.

B0 MATERIALS BÀSICS

B08 ADDITIUS, ADDICIONS I PRODUCTES DE TRACTAMENT PER A FORMIGONS, MORTERS I BEURADES

B081- ADDITIU

0.- ELEMENTS QUE CONTEMPLA EL PLEC

B081-06U6.

1.- DEFINICIÓ I CONDICIONS DELS ELEMENTS
Additius són aquelles substàncies o productes que a l'incorporar-se als morters, formigons o beurades, en el moment de pastar-los o prèviament, en una proporció no superior al 5% del pes del ciment, produeixen modificacions al formigó, morter o beurada, en estat fresc i/o endurit, d'alguna de les seves característiques, propietats habituals o del seu comportament.
S'han considerat els elements següents:
- Additius per a formigó: - Inclusor d'aire - Reductor d'aigua/plastificant - Reductor d'aigua d'alta activitat/superplastificant - Retenidor d'aigua - Accelerador d'adormiment - Hidròfug - Inhibidor de l'adormiment
- Additius per a morters: - Inclusor d'aire/plastificant - Inhibidor de l'adormiment per a morter fortament retardat
ADDITIUS:
El fabricant ha d'indicar les proporcions adequades de dosificació del producte, ha de garantir-ne l'efectivitat i que no produeixi alteracions en les característiques mecàniques o químiques del formigó o morter.
Ha de tenir un aspecte homogeni.
El color ha de ser uniforme i s'ha d'ajustar a l'especificat pel fabricant.
Les característiques següents han de complir amb els valors declarats pel fabricant, assajades segons la norma corresponent, dins del límit de tolerància indicat, en el seu cas:
Característiques essencials:
- Efecte sobre la corrossió: No ha d'afavorir la corrosió de l'acer embegut en el material.
- Contingut en alcalins (Na2O, equivalent) (UNE-EN 480-12): <= valor especificat pel fabricant
Característiques complementàries:
- Component actiu (UNE-EN 480-6): Sense variacions respecte a l'espectre de referència especificat pel fabricant
- Densitat relativa, en additius líquids (D) (ISO 758): - D >= 1,10: ± 0,03 - D <= 1,10: ± 0,02
- Contingut en extracte sec convencional (T) (EN 480-8): - T >= 20%: >= 0,95 T, < 1,05 T - T < 20%>= 0,90 T, < 1,10 T
- pH (ISO 4316): ± 1 o dins dels límits declarats pel fabricant
ADDITIUS I COLORANTS PER A FORMIGÓ:
Els additius que modifiquin el comportament reològic del formigó o el temps d'adormiment, hauran de complir les condicions de l'UNE EN 934-2 .
Limitacions d'ús d'additius
- Clorur càlcic i productes amb clorurs, sulfurs, sulfits: prohibits en formigó armat i pretesat
- Airejants: prohibits en pretesats ancorats per adherència
- Plastificants amb efecte airejant: Seran admesos si l'aire oclós és <=6% en volum (UNE EN 12350-7)
Ió clor total aportat per components d'un formigó no pot superar:
- Pretensat: <= 0,2% pes de ciment
- Armat: <= 0,4% pes de ciment
- En massa amb armadura de fissuració: <= 0,4% pes de ciment
ADDITIUS PER A FORMIGONS:
Característiques essencials:

- Contingut total de clorurs (ISO 1158): <= 0,10%, <= valor especificat pel fabricant
Característiques complementàries:
- Contingut clorurs solubles en aigua (UNE-EN 480-10): <= 0,10%, <= valor especificat pel fabricant
ADDITIU PER A FORMIGÓ INCLUSOR D'AIRE:
Característiques essencials:
- Contingut d'aire en el formigó fresc, en volum (UNE-EN 12350-7): >= 2,5%
- Contingut d'aire total, en volum (UNE-EN 12350-7): 4 - 6%
- Factor d'espaiament dels buits en el formigó endurit (UNE-EN 480-11): <= 0,200 mm
- Resistència a compressió a 28 dies del formigó amb additiu, en relació al formigó testimoni sense additiu (UNE-EN 12390-3): >= 75%
No s'han d'utilitzar agents airejants amb formigons excessivament fluids.
La proporció d'aire al formigó s'ha de controlar de forma regular a l'obra.
No es pot mesclar amb d'altres tipus d'additius sense l'autorització prèvia de la DF.
Característiques complementàries:
- Diàmetre de les bombolles (D): 10 <= D <= 1000 micres
ADDITIU PER A FORMIGÓ, REDUCTOR D'AIGUA/PLASTIFICANT:
L'additiu reductor d'aigua/plastificant és un producte per a incorporar durant el pastat del formigó que té per objecte disminuir la quantitat d'aigua per a una mateixa consistència o augmentar l'assentament en con per una mateixa quantitat d'aigua.
Característiques essencials:
- Reducció d'aigua (UNE-EN 12350-2 o EN 12350-5): >= 5%
- Resistència a compressió a 7 i 28 dies del formigó amb additiu, en relació al formigó testimoni sense additiu (UNE-EN 12390-3): >= 110%
- Contingut d'aire en el formigó fresc, en volum (UNE-EN 12350-7): <= 2%
Els valors s'han pres en relació al mateix formigó sense additiu, a igual consistència.
ADDITIU PER A FORMIGÓ REDUCTOR D'AIGUA D'ALTA ACTIVITAT/SUPERPLASTIFICANT:
L'additiu reductor d'aigua d'alta activitat /superplastificant, és un producte per a incorporar durant el pastat del formigó que té per objecte disminuir fortament la quantitat d'aigua per a una mateixa consistència o augmentar considerablement l'assentament en con per una mateixa quantitat d'aigua.
Característiques essencials:
- Contingut d'aire en el formigó fresc, en volum (UNE-EN 12350-7): <= 2%
- Valors en relació al mateix formigó sense additiu a igual consistencia: - Reducció d'aigua (UNE-EN 12350-2 o EN 12350-5): >= 12% - Resistència a compressió (UNE-EN 12390-3): - 1 dia: >= 140% - 28 dies: >= 115%
- Valors en relació al mateix formigó sense additu, a igual relació aigua/ciment: - Consistència: - Assentament en con (UNE-EN 12350-2): >= 120 mm - Escorriment (EN 12350-5): >= 160 mm - Manteniment de la consistència (UNE-EN 12350-2 o EN 12350-5): >= 30 min després de l'addició, no ha de ser inferior a la consistència inicial - Resistència a compressió a 28 dies >= 90% - Contingut en aire <= 2% en volum
ADDITIU PER A FORMIGÓ, RETENIDOR D'AIGUA:
Additiu que redueix la pèrdua d'aigua, en dismunir l'exsudació.
Característiques essencials:
- Exsudació (UNE-EN 480-4): <= 50%
- Contingut d'aire en el formigó fresc, en volum (UNE-EN 12350-7): <= 2%
- Resistència a compressió a 28 dies del formigó amb additiu, en relació al formigó testimoni sense additiu (UNE-EN 12390-3): >= 80%
Els valors s'han pres en relació al mateix formigó sense additiu, a igual consistència.
ADDITIU PER A FORMIGÓ, HIDRÒFUG:
L'additiu hidròfug és un producte que s'afegeix al formigó o morter en el moment de pastar-lo i que té com a funció principal incrementar la resistència al pas de l'aigua sota pressió a la pasta endurida. Actua disminuint la capilaritat.
Característiques essencials:
- Absorció capil·lar a 7 dies, en massa (UNE-EN 450-5): <= 50%
- Absorció capil·lar a 28 dies, en massa (UNE-EN 450-5): <= 60%
- Resistència a compressió a 28 dies del formigó amb additiu, en relació al formigó testimoni sense additiu (UNE-EN 12390-3): >= 85%
- Contingut d'aire en el formigó fresc, en volum (UNE-EN 12350-7): <= 2%
Els valors s'han pres en relació al mateix formigó sense additiu, a igual consistència.
ADDITIU PER A FORMIGÓ, INHIBIDOR D'ADORMIMENT:
L'additiu inhibidor de l'adormiment és un líquid que s'incorpora en el moment de pastar el formigó o morter i té per objecte retardar l'inici de l'adormiment.
El retard de l'enduriment del formigó ha de ser de manera que, al cap de dos o tres dies, la resistència assolida sigui la mateixa que sense l'additiu.
Característiques essencials:

- Temps d'adormiment (UNE-EN 480-2): - Inici d'adormiment: >= al del morter de referència + 90 min - Final d'adormiment: <= al del morter de referència + 360 min
- Resistència a compressió del formigó amb additiu, en relació al formigó testimoni sense additiu (UNE-EN 12390-3): - 7 dies: >= 80% - 28 dies: >= 90%
- Contingut d'aire en el formigó fresc, en volum (UNE-EN 12350-7): <= 2%
- Reducció d'aigua: >= 5%

Els valors s'han pres en relació al mateix formigó sense additiu, a igual consistència.

ADDITIU PER A FORMIGÓ, ACCELERADOR DE L'ADORMIMENT:

L'additiu per a gunitats és un producte per a incorporar durant el pastat del formigó que té per objecte accelerar el procés d'adormiment.

S'ha de dosificar amb un sistema mecànic que asseguri la regularitat i la precisió de la proporció desitjada d'additiu.

Ha de ser compatible amb el ciment, àrids, fum de sílice i fibres, en ordre a garantir en el formigó projectat les condicions requerides de resistència, tant en primera edat com en la seva evolució en el temps i també en relació a la durabilitat de l'obra.

No ha de començar a actuar fins el moment d'afegir l'aigua.

Característiques essencials:

- Temps d'adormiment (UNE-EN 480-2): - Inici d'adormiment (a 20°C): >= 30 min - Final d'adormiment (a 5°C): <=60%
- Resistència a compressió del formigó amb additiu, en relació al formigó testimoni sense additiu (UNE-EN 12390-3): - 28 dies: >= 80% - 90 dies: >= que la del formigó d'assaig a 28 dies
- Contingut d'aire en el formigó fresc, en volum (UNE-EN 12350-7): <= 2%

Final de l'adormiment segons la dosificació (assaig Vicat):

- 2%: <= 90 min
- 3%: <= 30 min
- 4%: <= 3 min
- 5%: <= 2 min

Els valors s'han pres en relació al mateix formigó sense additiu, a igual consistència.

ADDITIUS PER A MORTERS:

Característiques essencials:

- Contingut total de clorurs (ISO 1158): <= valor especificat pel fabricant
- Resistència a compressió a 28 dies (UNE-EN 1015-11): >= 70% que la del morter testimoni

Característiques complementàries:

- Contingut clorurs solubles en aigua (UNE-EN 480-10): <= valor especificat pel fabricant

ADDITIU PER A MORTER INCLUSOR D'AIRE/PLASTIFICANT:

Additiu que millora la traballabilitat o que permet una reducció del contingut d'aigua, per incorporació en el pastat, d'una quantitat de petites bombolles d'aire uniformement distribuïdes, que queden retingudes després de l'enduriment.

Característiques essencials:

- Contingut d'aire (EN 1015-7 mètode A): - Després d'un pastat normalitzat: A= 17 ± 3% en volum - Després d'1 h en repòs: >= A - 3% - Després d'un pastat llarg: <= A + 5, >= A - 5%

Característiques complementàries:

- Reducció d'aigua en massa (UNE EN-480-13): >= 8%

Els valors s'han pres en relació al mateix morter sense additiu, a igual consistència.

ADDITIU PER A MORTER INHIBIDOR DE L'ADORMIMENT:

L'additiu inhibidor de l'adormiment s'incorpora en el moment del pastat i té per objecte retardar l'inici de l'adormiment.

Característiques essencials: - Després d'un pastat normalitzat: A= 17 ± 3% en volum
- Després de 28 h en repòs: >= 0,70 A% - Després d'un pastat llarg: <= A + 5, >= A - 5%
- Contingut d'aire (EN 1015-7 mètode A):

Característiques complementàries:

- Consistència després de 28 h en repòs (EN 1015-4): ± 15 mm del valor inicial
- Resistència a la penetració després de 52 h (EN 1015-9): >= 5 N/mm2 que la del morter d'assaig amb additiu

Els valors s'han pres en relació al mateix morter sense additiu, a igual consistència.

2.- CONDICIONS DE SUBMINISTRAMENT I EMMAGATZEMATGE

SUBMINISTRAMENT I EMMAGATZEMATGE EN ADDITIUS I COLORANTS:

Subministrament: En envasos tancats hermèticament, sense alteracions i amb etiquetatge.

Emmagatzematge: En llocs protegits de la intempèrie i de manera que no s'alterin les seves característiques.

El transport i emmagatzematge s'ha de fer de forma que s'eviti la contaminació i la variació de les propietats per factors físics o químics, com ara glaçades o altes temperatures.

3.- UNITAT I CRITERI D'AMIDAMENT
Unitat d'amidament: la indicada a la descripció de l'element
Criteri d'amidament: quantitat necessària subministrada a l'obra
4.- NORMATIVA DE COMPLIMENT OBLIGATORI
ADDITIUS PER A FORMIGONS:
UNE-EN 934-2:2002 Aditivos para hormigones, morteros y pastas. Parte 2: Aditivos para hormigones. Definiciones, requisitos, conformidad, marcado y etiquetado.
UNE-EN 934-2:2002/A1:2005 Aditivos para hormigones, morteros y pastas. Parte 2: Aditivos para hormigones. Definiciones, requisitos, conformidad, marcado y etiquetado.
UNE-EN 934-2:2002/A2:2006 Aditivos para hormigones, morteros y pastas. Parte 2: Aditivos para hormigones. Definiciones, requisitos, conformidad, marcado y etiquetado.
ADDITIUS PER A MORTERS:
UNE-EN 934-3:2004 Aditivos para hormigones, morteros y pastas. Parte 3: Aditivos para morteros para albañilería. Definiciones, requisitos, conformidad, marcado y etiquetado.
UNE-EN 934-3:2004/AC:2005 Aditivos para hormigones, morteros y pastas. Parte 3: Aditivos para morteros para albañilería. Definiciones, requisitos, conformidad, marcado y etiquetado.
ÚS PER A FORMIGONS:
Real Decreto 470/2021, de 29 de junio, por el que se aprueba el Código Estructural.
5.- CONDICIONS DE CONTROL DE RECEPCIÓ
CONDICIONS DE MARCATGE I CONTROL DE LA DOCUMENTACIÓ EN ADDITIUS:
El subministrador ha de posar a disposició de la DF en el cas que aquesta ho sol·liciti, la documentació següent, que acredita el marcatge CE, segons el sistema d'avaluació de conformitat aplicable, d'acord amb el que disposa l'apartat 7.2.1 del CTE: - Productes per a morter per a ram de paleta, - Productes per a formigó: - Sistema 2+: Declaració de Prestacions
El subministrament del producte ha de venir acompanyat del certificat de qualitat corresponent i la fitxa tècnica del fabricant. A més, ha d'incloure la designació de l'additiu d'acord a la norma UNE EN 934-2.
El certificat ha d'indicar les proporcions adequades de dosificació del producte, i indicar la seva funció principal; també ha de garantir la seva efectivitat i que no produeixi alteracions en les característiques mecàniques o químiques del formigó o morter.
La documentació ha d'incloure també:
- Nom del laboratori
- Si no es un laboratori públic, ha d'exposar la declaració d'estar acreditat per a realitzar els assaigs
- Data d'emissió del certificat
- Garantia de que el tractament estadístic és equivalent
L'entrega d'aditius haurà d'anar acompanyada d'una full de subministrament proporcionat pel subministrador, on hi ha de constar com a mínim les següents dades:
- Identificació del Subministrador
- Número del certificat de marcatge CE
- Número de sèrie del full de subministrament
- Identificació del Peticionari
- Data del lliurament
- Quantitat subministrada
- Designació de l'additiu segons Art. 31.2 en el CODI ESTRUCTURAL
- Identificació del lloc de subministrament
CONDICIONS DE MARCATGE I CONTROL DE LA DOCUMENTACIÓ EN ADDITIUS PER A FORMIGÓ:
A l'embalatge o bé a l'albarà de lliurament, hi ha de constar la següent informació com a mínim:
- Designació (d'acord amb l'apartat 8 de la norma UNE-EN 934-2)
- El nom del lot i fàbrica de producció
- Requisits per a l'emmagatzematge, inclòs límit de temps a partir del qual les propietats ja no estan garantides
- Instruccions d'homogeneització abans del seu ús, en el seu cas
- Instruccions d'us i precaucions relatives a la seguretat
- Interval d'ús recomanat pel fabricant
- Han de portar el marcatge CE de conformitat amb el que disposa el Reial Decret 1328/1995, de 28 de juliol. El símbol normalitzat CE s'ha d'acompanyar de la següent informació: - Número d'identificació de l'organisme de certificació - Nom o marca d'identificació del fabricant - Les 2 últimes xifres de l'any d'impressió del marcatge - Referència a la norma EN 934-2 - Descripció del producte (nom genèric, material, ús previst, etc.) - Designació del producte - Informació de les característiques essencials aplicables amb els valors declarats, en el seu cas
CONDICIONS DE MARCATGE I CONTROL DE LA DOCUMENTACIÓ EN ADDITIUS PER A MORTER:

A l'embalatge o bé a l'albarà de lliurament, hi ha de constar la següent informació com a mínim:
- Designació (d'acord amb l'apartat 8 de la norma UNE-EN 934-3)
- El nom del lot i fàbrica de producció
- Requisits per a l'emmagatzematge, inclòs límit de temps a partir del qual les propietats ja no estan garantides
- Instruccions d'us i precaucions relatives a la seguretat
- Interval d'ús recomanat pel fabricant
- Han de portar el marcatge CE de conformitat amb el que disposa el Reial Decret 1328/1995, de 28 de juliol. El símbol normalitzat CE s'ha d'acompanyar de la següent informació: - Número d'identificació de l'organisme de certificació - Nom o identificació i direcció registrada del fabricant - Les 2 últimes xifres de l'any d'impressió del marcatge - Número del certificat de conformitat CE del control de producció en fàbrica, en el seu cas - Referència a la norma EN 934-3 - Descripció del producte (nom genèric, material, ús previst, etc.) - Designació del producte
- Informació de les característiques essencials aplicables amb els valors declarats, en el seu cas

OPERACIONS DE CONTROL:
Les tasques de control a realitzar són les següents:
- Control del subministrament del material, amb recepció del corresponent certificat de qualitat d'acord a les condicions exigides.

La DF ha de poder valorar el nivell de garantia del distintiu, i en cas de no disposar de suficient informació, ha de poder determinar l'execució de comprovacions mitjançant assaigs.
OPERACIONS DE CONTROL EN ADDITIUS PER A FORMIGÓ:
Cada cop que canviï el subministrador, i al menys en una ocasió al llarg de l'obra, s'han de realitzar els assaigs identificatius del producte (UNE-EN 934-2).
OPERACIONS DE CONTROL EN ADDITIU INCLUSOR D'AIRE PER A FORMIGÓ:
Cada cop que canviï el subministrador, i al menys en una ocasió al llarg de l'obra, s'ha de realitzar l'assaig de quantitat d'aire ocluït (UNE-EN 12350-7).
CRITERIS DE PRESA DE MOSTRES:
S'han de seguir les instruccions de la DF i els criteris indicats a les normes UNE corresponents i el CODI ESTRUCTURAL en addició de fums de sílice.
INTERPRETACIÓ DE RESULTATS I ACTUACIONS EN CAS D'INCOMPLIMENT EN ADDITIUS:
La conformitat dels additius que disposin de marcatge CE, s'ha de comprovar mitjançant la verificació documental de que els valors declarats en els documents que acompanyen al marcatge, permeten deduir el compliment de les especificacions contemplades en projecte i en l'article 31 del CODI ESTRUCTURAL.
En el cas dels additius que no disposin del marcatge CE, el Constructor, o el Subministrador del formigó o dels elements prefabricats, haurà d'aportar un certificat d'assaig, amb una antiguitat inferior a 6 mesos, realitzat per un laboratori de control autoritzat, que demostri la conformitat de l'additiu vers les especificacions de l'article 31 del CODI ESTRUCTURAL, amb un nivell de garantia estadística equivalent a l'exigit pels additius amb marcatge CE a la norma UNE EN 934-2.

B0 MATERIALS BÀSICS

B08 ADDITIUS, ADDICIONS I PRODUCTES DE TRACTAMENT PER A FORMIGONS, MORTERS I BEURADES

B083- COLORANT

0.- ELEMENTS QUE CONTEMPLA EL PLEC

B083-06UD.

1.- DEFINICIÓ I CONDICIONS DELS ELEMENTS
Additius són aquelles substàncies o productes que a l'incorporar-se als morters, formigons o beurades, en el moment de pastar-los o prèviament, en una proporció no superior al 5% del pes del ciment, produeixen modificacions al formigó, morter o beurada,

en estat fresc i/o endurit, d'alguna de les seves característiques, propietats habituals o del seu comportament.
S'han considerat els elements següents:
- Colorant
ADDITIUS I COLORANTS PER A FORMIGÓ:
Els additius que modifiquin el comportament reològic del formigó o el temps d'adormiment, hauran de complir les condicions de l'UNE EN 934-2 .
Limitacions d'ús d'additius
- Clorur càlcic i productes amb clorurs, sulfurs, sulfits: prohibits en formigó armat i pretesat
- Airejants: prohibits en pretesats ancorats per adherència
- Plastificants amb efecte airejant: Seran admesos si l'aire oclós és <=6% en volum (UNE EN 12350-7)
Ió clor total aportat per components d'un formigó no pot superar:
- Pretensat: <= 0,2% pes de ciment
- Armat: <= 0,4% pes de ciment
- En massa amb armadura de fissuració: <= 0,4% pes de ciment
L'additiu airejant és un líquid per a incorporar durant el pastat del formigó o el morter i que té per objecte produir fines bombolles d'aire separades i repartides uniformement, que serveixen per millorar el comportament envers les gelades. Aquestes condicions s'han de mantenir durant l'adormiment.
La proporció d'aire al formigó s'ha de controlar de forma regular a l'obra.
COLORANT:
El colorant és un producte inorgànic en pols per a incorporar a la massa del formigó, morter o beurada durant el pastat, que té per objecte donar un color determinat al producte final.
Ha de ser estable als agents atmosfèrics, la calç i als àlcalis del ciment; ha de ser insoluble en aigua, i no ha d'alterar el procés d'adormiment i enduriment, l'estabilitat de volum, ni les resistències mecàniques del formigó.
Ió clor total aportat per components d'un formigó no pot superar:
- Pretensat: <= 0,2% pes de ciment
- Armat: <= 0,4% pes de ciment
- En massa amb armadura de fissuració: <= 0,4% pes de ciment
2.- CONDICIONS DE SUBMINISTRAMENT I EMMAGATZEMATGE
SUBMINISTRAMENT I EMMAGATZEMATGE EN ADDITIUS I COLORANTS:
Subministrament: En envasos tancats hermèticament, sense alteracions i amb etiquetatge.
Emmagatzematge: En llocs protegits de la intempèrie i de manera que no s'alterin les seves característiques.
El transport i emmagatzematge s'ha de fer de forma que s'eviti la contaminació i la variació de les propietats per factors físics o químics, com ara glaçades o altes temperatures.
3.- UNITAT I CRITERI D'AMIDAMENT
Unitat d'amidament: la indicada a la descripció de l'element
Criteri d'amidament: quantitat necessària subministrada a l'obra
4.- NORMATIVA DE COMPLIMENT OBLIGATORI
ÚS PER A FORMIGONS:
Real Decreto 470/2021, de 29 de junio, por el que se aprueba el Código Estructural.
5.- CONDICIONS DE CONTROL DE RECEPCIÓ
CONDICIONS DE MARCATGE I CONTROL DE LA DOCUMENTACIÓ EN COLORANT PER A FORMIGONS:
El subministrament del producte ha de venir acompanyat del certificat de qualitat corresponent i la fitxa tècnica del fabricant. A més, ha d'incloure la designació de l'additiu d'acord a la norma UNE EN 934-2.
El certificat ha d'indicar les proporcions adequades de dosificació del producte, i indicar la seva funció principal; també ha de garantir la seva efectivitat i que no produeixi alteracions en les característiques mecàniques o químiques del formigó o morter.
La documentació ha d'incloure també:
- Nom del laboratori
- Si no es un laboratori públic, ha d'exposar la declaració d'estar acreditat per a realitzar els assaigs
- Data d'emissió del certificat
- Garantia de que el tractament estadístic és equivalent
A la fulla de subministrament hi ha de constar:
- Identificació del subministrador
- Número de sèrie de la fulla de subministrament
- Identificació del peticionari
- Data d'entrega
- Designació de l'additiu

- Quantitat subministrada
- Identificació del lloc de subministrament
OPERACIONS DE CONTROL:
Les tasques de control a realitzar són les següents:
- Control del subministrament del material, amb recepció del corresponent certificat de qualitat d'acord a les condicions exigides.
La DF ha de poder valorar el nivell de garantia del distintiu, i en cas de no disposar de suficient informació, ha de poder determinar l'execució de comprovacions mitjançant assaigs.
OPERACIONS DE CONTROL EN COLORANT:
Cada cop que canviï el subministrador, i al menys en una ocasió al llarg de l'obra, s'han de realitzar els assaigs identificatius del producte (UNE-EN 934-2).
CRITERIS DE PRESA DE MOSTRES:
S'han de seguir les instruccions de la DF i els criteris indicats a les normes UNE corresponents i el CODI ESTRUCTURAL en addició de fums de sílice.
INTERPRETACIÓ DE RESULTATS I ACTUACIONS EN CAS D'INCOMPLIMENT EN COLORANT:
No s'han d'utilitzar additius que no arribin correctament referenciats i acompanyats amb el corresponent certificat de garantia del fabricant.
El Director d'obra ha de decidir l'acceptació d'un producte colorant, així com el seu ús, a la vista dels resultats dels assaigs previs realitzats.
En el cas dels additius que no disposin del marcatge CE, el Constructor, o el Subministrador del formigó o dels elements prefabricats, haurà d'aportar un certificat d'assaig, amb una antiguitat inferior a 6 mesos, realitzat per un laboratori de control autoritzat, que demostri la conformitat de l'additiu vers les especificacions de l'article 31 del CODI ESTRUCTURAL, amb un nivell de garantia estadística equivalent a l'exigit pels additius amb marcatge CE a la norma UNE EN 934-2.

B0 MATERIALS BÀSICS

B0A FERRETERIA

B0A5- CARGOL

0.- ELEMENTS QUE CONTEMPLA EL PLEC

B0A5-06VX.

1.- DEFINICIÓ I CONDICIONS DELS ELEMENTS
Tijes cilíndriques o còniques, amb filet de secció triangular que dibuixa sobre la seva superfície una hèlice contínua.
S'han considerat els tipus següents:
- Cargols autoroscants amb volandera
- Cargols taptite d'acer inoxidable
CARACTERÍSTIQUES GENERALS:
El perfil de la rosca del vis ha d'estar en relació amb el seu diàmetre (UNE 17-008), i la llargària de la rosca, en relació amb la seva llargària (UNE 17-051).
La forma del perfil de la rosca ha de permetre que el cargol faci l'efecte d'una broca, fent a la vegada el forat i la rosca.
La seva superfície ha de ser llisa, sense fissures, rebaves ni d'altres defectes superficials.
Els fils de la rosca no han de tenir defectes de material ni empremtes d'eines.
ACABAT CADMIAT:
El seu recobriment ha de ser llis, sense discontinuïtats ni exfoliacions i no ha de tenir taques ni imperfeccions superficials.
ACABAT GALVANITZAT:

El seu recobriment ha de ser llis, sense discontinuïtats ni exfoliacions i no ha de tenir taques ni imperfeccions superficials.
Protecció de galvanitzat: >= 275 g/m2
Puresa del zinc, en pes: >= 98,5%
2.- CONDICIONS DE SUBMINISTRAMENT I EMMAGATZEMATGE
Subministrament: Empaquetats.
Emmagatzematge: En llocs protegits de la pluja i la humitat.
3.- UNITAT I CRITERI D'AMIDAMENT
Unitat d'amidament: la indicada a la descripció de l'element
Criteri d'amidament: quantitat necessària subministrada a l'obra
4.- NORMATIVA DE COMPLIMENT OBLIGATORI
No hi ha normativa de compliment obligatori.

B0 MATERIALS BÀSICS

B0A FERRETERIA

B0AM- FILFERRO

0.- ELEMENTS QUE CONTEMPLA EL PLEC

B0AM-078F.

1.- DEFINICIÓ I CONDICIONS DELS ELEMENTS
Fil d'acer dolç, flexible i tenaç, obtingut per estiratge en fred o per trefilatge.
S'han considerat els tipus següents:
- Filferro d'acer
- Filferro d'acer galvanitzat
- Filferro d'acer plastificat
- Filferro recuit
CARACTERÍSTIQUES GENERALS:
Ha de ser de secció constant i uniforme.
Ha de complir les especificacions de la norma UNE 36722.
ACABAT SUPERFICIAL GALVANITZAT:
El seu recobriment de zinc ha de ser homogeni, llis, sense discontinuïtats, escames, grans, rugositats o esquerdes, no ha de tenir taques ni d'altres imperfeccions superficials.
La masa mínima del recobriment de zinc (UNE 37-504)ha de complir les especificacions de les taules I i II de l'UNE 37-506.
Resisténcia a la tracció (UNE 37-504):
- Qualitat G1 o G2: 1770 N/mm2
- Qualitat G3: 1570 N/mm2
Adherència del recobriment (UNE 37-504): Ha de complir
Puresa del zinc (UNE 37-504): >= 98,5%
Toleràncies:
- Diàmetre: ± 2% diàmetre nominal
FILFERRO D'ACER PLASTIFICAT:
Filferro d'acer de baix contingut de carboni, galvanitzat en calent, amb un recobriment orgànic de PVC aplicat per extrusió o sinterització.
El recobriment de PVC ha de complir les especificacions de l'apartat 6.3 de l'UNE 36-732.
La concentricitat i l'adherència del recobriment de PVC ha de complir les especificacions del article 6.5 UNE 36-732.
Característiques del galvanitzat: G-1B (UNE 37-506)
Resistència a la tracció:
- Qualitat recuit: =< 600 N/mm2
- Qualitat dur: > 600 N/mm2

Toleràncies:
- Diàmetre: taula 1 UNE 36-732
2.- CONDICIONS DE SUBMINISTRAMENT I EMMAGATZEMATGE
Subministrament: En rotlles. A l'embalatge o albarà de lliurament hi han de constar les dades següents:
- Identificació del fabricant o nom comercial
- Identificació del producte
- Diàmetre i llargària dels rotlles
Emmagatzematge: En llocs secs i protegits de la intempèrie.
3.- UNITAT I CRITERI D'AMIDAMENT
Unitat d'amidament: la indicada a la descripció de l'element
Criteri d'amidament: quantitat necessària subministrada a l'obra
4.- NORMATIVA DE COMPLIMENT OBLIGATORI
FILFERRO D'ACER:
* UNE 36722:1974 Alambre de acero de bajo contenido en carbono. Medidas y tolerancias.
FILFERRO D'ACER GALVANITZAT:
* UNE 37506:1983 Alambres de acero galvanizados en caliente para usos generales. Designación de calidades. Caracterisicas generales.
* UNE 37502:1983 Alambres de acero galvanizados en caliente. Condiciones técnicas de suministro.
FILFERRO PLASTIFICAT:
* UNE 36732:1995 Alambres de acero y productos de alambre para cerramientos. Recubrimientos orgánicos sobre el alambre. Recubrimientos de poli(cloruro de vinilo).

B0 MATERIALS BÀSICS

B0B ACER I METALL EN PERFILS O BARRES

B0B7- ACER EN BARRES CORRUGADES

0.- ELEMENTS QUE CONTEMPLA EL PLEC

B0B7-106Q.

1.- DEFINICIÓ I CONDICIONS DELS ELEMENTS
Acer per a armadures passives d'elements de formigó:
S'han considerat els elements següents:
- Barres corrugades
CARACTERÍSTIQUES GENERALS:
En el cas de que el material s'utilitzi en obra pública, l'acord de Govern de la Generalitat de Catalunya de 9 de juny de 1998, exigeix que els materials siguin de qualitat certificada o puguin acreditar un nivell de qualitat equivalent, segons les normes aplicables als estats membres de la Unió Europea o de l'Associació Europea de Lliure Canvi.
També en aquest cas, es procurarà que els esmentats materials disposin de l'etiqueta ecològica europea, regulada en el Reglament (CE) nº 66/2010 o bé altres distintius de la Comunitat Europea.
Els productes d'acer per a armadures passives no han de tenir defectes superficials ni fissures.
L'armadura ha de ser neta, sense taques de greix, d'oli, de pintura, de pols o de qualsevol altre matèria perjudicial.
Els filferros llisos només es poden utilitzar com elements de connexió d'armadures bàsiques electrosoldades en gelosia.
Les barres corrugades han de tenir al menys dues files de corrugues transversals, uniformement distribuïdes al llarg de tota la llargària. Dins de cada fila, les corrugues han d'estar uniformement espaiades.

Les característiques següents han de complir amb els valors declarats pel fabricant, assajades segons la norma corresponent, dins del límit de tolerància indicat, en el seu cas:
- Diàmetre nominal: s'ha d'ajustar als valors especificats a la taula 6 de la UNE-EN 10080. - Diàmetres nominals <= 10,00 mm: Variació en intervals de mig mm - Diàmetres nominals > 10,00 mm: Variació en unitats senceres de mm
- Dimensions i geometria de les corrugues: Ha de complir l'especificat en l'apartat 7.4.2 de la UNE-EN 10080.
- Massa per metre: El valor nominal ha de ser l'especificat en la taula 6 de la UNE-EN 10080, en relació amb el diàmetre nominal i l'àrea nominal de la secció transversal
- Secció equivalent: >= 95,5% Secció nominal
- Aptitud al doblegat: - Assaig doblegat amb angle >= 180° (UNE-EN 10080, UNE-EN ISO 15630-1): No s'ha d'apreciar trencaments o fissures - Assaig doblegat -desdoblegat amb angle >= 90° (UNE-EN 10080, UNE-EN ISO 15630-1): No s'ha d'apreciar trencaments o fissures

Tensió d'adherència (assaig de la biga UNE-EN 10080):
- Tensió d'adherència: - D < 8 mm: >= 6,88 N/mm2 - 8 mm <= D <= 32 mm: >= (7,84-0,12 D) N/mm2 - D > 32 mm: >= 4,00 N/mm2
- Tensió de última d'adherència: - D < 8 mm: >= 11,22 N/mm2 - 8 mm <= D <= 32 mm: >= (12,74-0,19 D) N/mm2 - D > 32 mm: >= 6,66 N/mm2
- Composició química (% en massa):

	C %màx.	Ceq %màx.	S %màx.	P %màx.	Cu %màx.	N %màx.
Colada	0,22	0,050	0,050	0,050	0,800	0,012
Producte	0,24	0,052	0,055	0,055	0,850	0,014

Ceq = Carboni equivalent
Es pot superar el valor màxim per al Carboni en un 0,03% en massa, si el valor del Carboni equivalent disminueix en un 0,02% en massa.
Les característiques anteriors s'han de determinar segons la norma UNE-EN ISO 15630-1.

BARRES I ROTLLES D'ACER CORRUGAT SOLDABLE:
El producte s'ha de designar segons l'especificat en l'apartat 5.1 de la UNE-EN 10080:
- Descripció de la forma
- Referència a la norma EN
- Dimensions nominals
- Classe tècnica

Les característiques següents han de complir amb els valors declarats pel fabricant, assajades segons la norma corresponent, dins del límit de tolerància indicat, en el seu cas:
- Característiques geomètriques del corrugat de les barres han de complir les especificacions de l'apartat 7.4.2 de la norma UNE-EN 10080.
- Característiques mecàniques de les barres: - Acer soldable (S) - Allargament total sota càrrega màxima: - Acer subministrat en barres: >= 5,0% - Acer subministrat en rotlles: >= 7,5% - Acer soldable amb característiques especials de ductilitat (SD): - Allargament total sota càrrega màxima: - Acer subministrat en barres: >= 7,5% - Acer subministrat en rotlles: >= 10,0% - Resistència a fatiga: Ha de complir l'especificat a la taula 34.2.d del CODI ESTRUCTURAL - Deformació alternativa: Ha de complir l'especificat a la taula 34.2.e del CODI ESTRUCTURAL

Designació	Lím.elàstic fy N/mm2	Càrrega unitaria trencament fs(N/mm2)	Allargament al trencament	Relació fs/fy
B 400 S	>= 400	>= 440	>= 14%	>= 1,08
B 500 S	>= 500	>= 550	>= 12%	>= 1,08
B 400 SD	>= 400	>= 480	>= 20%	>= 1,20 <= 1,35
B 500 SD	>= 500	>= 575	>= 16%	>= 1,15 <= 1,35

- Diàmetre nominal: S'han d'ajustar a la sèrie següent (mm): 6 8 10 12 14 16 20 25 32 i 40 mm
- S'ha d'evitar utilitzar barres de diàmetre <= 6 mm, en el cas d'armadura muntada o elaborada amb soldadura.

Toleràncies:
- Massa: - Diàmetre nominal > 8,0 mm: ± 4,5% massa nominal - Diàmetre nominal <= 8,0 mm: ± 6% massa nominal
Les característiques anteriors s'han de determinar segons la norma UNE-EN ISO 15630-1.
2.- CONDICIONS DE SUBMINISTRAMENT I EMMAGATZEMATGE
Emmagatzematge: en llocs en els que restin protegits de la pluja, l'humitat del terra i l'eventual agressivitat de l'ambient.
Es classificaran segons el tipus, qualitat, diàmetre i procedència.
Abans de la seva utilització i en especial despres de períodes llargs d'emmagatzematge en obra, s'ha d'inspeccionar la superfície per tal de comprovar que no hi hagi alteracions superficials.
Pèrdua de pes després de l'eliminació d'òxid superficial amb raspall de filferros: < 1%
3.- UNITAT I CRITERI D'AMIDAMENT
Unitat d'amidament: la indicada a la descripció de l'element
Criteri d'amidament: quantitat necessària subministrada a l'obra
4.- NORMATIVA DE COMPLIMENT OBLIGATORI
Real Decreto 470/2021, de 29 de junio, por el que se aprueba el Código Estructural.
UNE-EN 10080:2006 Acero para el armado del hormigón. Acero soldable para armaduras de hormigón armado. Generalidades.

B0 MATERIALS BÀSICS

B0C PLAQUES, PLANXES I TAULERS

B0CH PLAQUES I PLANXES METÀL·LIQUES

B0CH4- PERFIL NERVAT DE PLANXA D'ACER

0.- ELEMENTS QUE CONTEMPLA EL PLEC

B0CH4-20YG.

1.- DEFINICIÓ I CONDICIONS DELS ELEMENTS
Planxa d'acer, plana o conformada, obtinguda a partir d'una banda d'acer de qualitat industrial, galvanitzada en continu, amb un recobriment mínim Z 275, segons UNE 36-130, i amb acabat prelacat a les dues cares, si es el cas.
S'han considerat els tipus de planxa següents:
- Planxa nervada d'acer galvanitzat
- Planxa nervada d'acer prelacat
- Planxa gofrada d'acer galvanitzat, plegada per a fer esglaons
- Planxa grecada d'acer galvanitzat
- Planxa grecada d'acer prelacat
CARACTERÍSTIQUES GENERALS:
El fabricant ha de garantir les característiques mecàniques i la composició química de l'acer, que ha de complir les determinacions de la norma UNE-EN 10025-2.
Ha de tenir el moment d'inèrcia, el moment resistent, gruix i tipus de nervat o grecat indicats a la DT, i si alguna dada no està indicada, el valor haurà de ser suficient per a resistir sense superar les deformacions màximes admissibles, els esforços als que es veurà sotmesa.
No ha de tenir defectes superficials, com és ara cops, bonys, ratlles o defectes de l'acabat superficial.
El color ha de ser uniforme, i si l'acabat és plastificat o prelacat, ha de coincidir amb l'indicat a la DT o el triat per la DF.
Si la planxa és gofrada, la forma i dimensions del grabat ha de ser l'indicat a la DT.
Tipus d'acer: S235JR
Toleràncies:
- Amplària de muntatge - Amplària nominal =< 700 mm: + 4 mm, - 0 mm - Amplària nominal > 700 mm: + 5 mm, - 0 mm
- Llargària de la planxa: + 3%, - 0%

- Gruix de la planxa: - Gruix nominal =< 0,8 mm: ± 0,10 mm - Gruix nominal > 0,8 mm: ± 0,15 mm
- Mòdul resistent i moment d'inèrcia: + 5%, - 0%
2.- CONDICIONS DE SUBMINISTRAMENT I EMMAGATZEMATGE
Subministrament: Embalades en paquets protegits amb fusta, de manera que no s'alterin les seves característiques.
Les planxes s'han de subministrar tallades a mida, del taller, diferenciades per tipus de perfil i acabats.
Emmagatzematge: als seus embalatges, col·locats lleugerament inclinats per que permetin evacuar l'aigua, en llocs protegits d'impactes.
3.- UNITAT I CRITERI D'AMIDAMENT
Unitat d'amidament: la indicada a la descripció de l'element
Criteri d'amidament: quantitat necessària subministrada a l'obra
4.- NORMATIVA DE COMPLIMENT OBLIGATORI
* UNE 36130:1991 Bandas (chapas y bobinas), de acero bajo en carbono, galvanizadas en continuo por inmersión en caliente para conformación en frio. Condiciones técnicas de suministro.
5.- CONDICIONS DE CONTROL DE RECEPCIÓ
OPERACIONS DE CONTROL:
Les tasques de control a realitzar són les següents:
Inspecció visual del material a la seva recepció.
- Abans de començar l'obra, si varia el subministrament, i per cada tipus diferent que arribi a l'obra, es demanaran al contractista els certificats del fabricant que garanteixin el compliment del plec de condicions tècniques, incloent els resultats dels assaigs següents, realitzats per un laboratori acreditat: - Tipus d'acer, segons CTE DB SE-A. - Característiques del recobriment, segons UNE 36-130 - Característiques mecàniques: - Resistència a la tracció - Allargament mínim - Duresa Brinell - Característiques geomètriques: - Gruix - Llargària - Amplària
En cas de no presentar aquests resultats, o que la DF tingui dubtes de la seva representativitat, es realitzaran aquests assaigs sobre el material rebut, a càrrec del contractista.
En cas de que el material disposi de la Marca AENOR, marcatge CE o altre legalment reconeguda a un país de l'UE, es pot prescindir de la presentació dels assaigs de control de recepció.
CRITERIS DE PRESA DE MOSTRES:
Els controls s'han de realitzar segons les instruccions de la DF i els criteris indicats a les normes de procediment corresponents.
INTERPRETACIÓ DE RESULTATS I ACTUACIONS EN CAS D'INCOMPLIMENT:
Si en els terminis establerts al començar l'obra no es fa l'entrega dels certificats de qualitat del fabricant, s'ha de realitzar una sèrie completa d'assaigs a càrrec del Contractista.
Els resultats dels assaigs sobre totes les peces de les mostres han de complir les condicions especificades. En cas d'incompliment, s'ha de repetir l'assaig, a càrrec del contractista, sobre el doble número de mostres del mateix lot, acceptant-se aquest, quan els resultats obtinguts sobre totes les peces resultin satisfactoris.

B4 ESTRUCTURES

B44 MATERIALS D'ACER PER A ESTRUCTURES

B44Z- PERFIL D'ACER PER A ESTRUCTURES

0.- ELEMENTS QUE CONTEMPLA EL PLEC

B44Z-0LXX,B44Z-0LY7,B44Z-0LZP.

1.- DEFINICIÓ I CONDICIONS DELS ELEMENTS
Perfils d'acer per a usos estructurals, formats per peça simple o composta i tallats a mida o treballats a taller.
S'han considerat els tipus següents:

- Perfils d'acer laminat en calent, de les sèries IPN, IPE, HEA, HEB, HEM o UPN, d'acer S275JR, S275J0, S275J2, S355JR, S355J0 o S355J2, segons UNE-EN 10025-2
- Perfils d'acer laminat en calent de les sèries L, LD, T, rodó, quadrat, rectangular o planxa, d'acer S275JR, S275J0, S275J2, S355JR, S355J0 o S355J2, segons UNE-EN 10025-2
- Perfils foradats d'acer laminat en calent de les sèries rodó, quadrat o rectangular d'acer S275J0H o S355J2H, segons UNE-EN 10210-1
- Perfils foradats conformats en fred de les sèries rodó, quadrat o rectangular d'acer S275J0H o S355J2H, segons UNE-EN 10219-1
- Perfils conformats en fred, de les sèries L, LD, U, C, Z, o Omega, d'acer S235JRC, segons UNE-EN 10025-2
- Perfils d'acer laminat en calent, en planxa, d'acer amb resistència millorada a la corrosió atmosfèrica S355J0WP o S355J2WP, segons UNE-EN 10025-5

S'han considerat els tipus d'unió següents:
- Amb soldadura
- Amb cargols

S'han considerat els acabats de protecció següents (no aplicable als perfils d'acer amb resistència millorada a la corrosió atmosfèrica):
- Una capa d'emprimació antioxidant
- Galvanitzat

CARACTERÍSTIQUES GENERALS:
No ha de tenir defectes interns o externs que perjudiquin la seva correcta utilització.
PERFILS D'ACER LAMINAT EN CALENT:
El fabricant ha de garantir que la composició química i les característiques mecàniques i tecnològiques de l'acer utilitzat en la fabricació de perfils, seccions i planxes, compleix les determinacions de les normes de condicions tècniques de subministrament següents:
- Perfils d'acer laminat en calent: UNE-EN 10025-1 i UNE-EN 10025-2
- Perfils d'acer laminat en calent amb resistència millorada a la corrosió atmosfèrica: UNE-EN 10025-1 i PNE-EN 10025-5

Les dimensions i les toleràncies dimensionals i de forma han de ser les indicades a les següents normes:
- Perfil IPN: UNE-EN 10024
- Perfil IPE, HEA, HEB i HEM: UNE-EN 10034
- Perfil UPN: UNE-EN 10279
- Perfil L i LD: UNE-EN 10056-1 i UNE-EN 10056-2
- Perfil T: UNE-EN 10055
- Rodó: UNE-EN 10060
- Quadrat: UNE-EN 10059
- Rectangular: UNE-EN 10058
- Planxa: EN 10029 o UNE-EN 10051

PERFILS FORADATS:
El fabricant ha de garantir que la composició química i les característiques mecàniques i tecnològiques de l'acer utilitzat en la fabricació de perfils compleix les determinacions de les normes de condicions tècniques de subministrament següents:
- Perfils foradats d'acer laminat en calent: UNE-EN 10210-1
- Perfils foradats conformats en fred: UNE-EN 10219-1

Les toleràncies dimensionals han de complir les especificacions de les següents normes:
- Perfils foradats d'acer laminat en calent: UNE-EN 10210-2
- Perfils foradats conformats en fred: UNE-EN 10219-2

PERFILS CONFORMATS EN FRED:
El fabricant ha de garantir que la composició química i les característiques mecàniques i tecnològiques de l'acer utilitzat en la fabricació de perfils i seccions, compleix les determinacions de les normes de condicions tècniques de subministrament del producte de partida.
Les toleràncies dimensionals i de la secció transversal han de complir les especificacions de la norma UNE-EN 10162.
PERFILS TREBALLATS A TALLER AMB SOLDADURA:
El material d'aportació utilitzat ha de ser apropiat als materials a soldar i al procediment de soldadura.
Les característiques mecàniques del material d'aportació han de ser superiors a les del material base.
En acers de resistència millorada a la corrosió atmosfèrica, la resistència a la corrosió del material d'aportació ha de ser equivalent a la del material base.
Els procediments autoritzats per a realitzar unions soldades són:
- Per arc elèctric manual amb elèctrode revestit
- Per arc amb fil tubular, sense protecció gasosa
- Per arc submergit amb fil/filferro
- Per arc submergit amb elèctrode nu

- Per arc amb gas inert
- Per arc amb gas actiu
- Per arc amb fil tubular, amb protecció de gas actiu
- Per arc amb fil tubular, amb protecció de gas inert
- Per arc amb elèctrode de wolfram i gas inert
- Per arc de connectors

Les soldadures s'han de fer per soldadors certificats per un organisme acreditat i qualificats segons l'UNE-EN 287-1.
Abans de començar a soldar s'ha de verificar que les superfícies i vores a soldar són adequades al procés de soldadura i que estan lliures de fissures.
Totes les superfícies a soldar s'han de netejar de qualsevol material que pugui afectar negativament la qualitat de la soldadura o perjudicar el procés de soldatge. S'han de mantenir seques i lliures de condensacions.
S'ha d'evitar la projecció d'espurnes erràtiques de l'arc. Si es produeix s'ha de sanejar la superfície d'acer.
S'ha d'evitar la projecció de soldadura. Si es produeix s'ha d'eliminar.
Els components a soldar han d'estar correctament col·locats i fixos en la seva posició mitjançant dispositius adequats o soldadures de punteig, de manera que les unions a soldar siguin accessibles i visibles per al soldador. No s'han d'introduir soldadures addicionals.
L'armat dels components estructurals s'ha de fer de manera que les dimensions finals estiguin dintre de les toleràncies establertes.
Les soldadures provisionals s'han d'executar seguint les especificacions generals. S'han d'eliminar totes les soldadures de punteig que no s'incorporin a les soldadures finals.
Quan el tipus de material de l'acer i/o la velocitat de refredament puguin produir un enduriment de la zona tèrmicament afectada s'ha de considerar la utilització del precalentament. Aquest s'ha d'estendre 75 mm en cada component del metall base.
No s'ha d'accelerar el refredament de les soldadures amb mitjans artificials.
Els cordons de soldadura successius no han de produir osques.
Els defectes de soldadura no s'han de tapar amb soldadures posteriors. S'han d'eliminar de cada passada abans de fer la següent.
Després de fer un cordó de soldadura i abans de fer el següent, cal netejar l'escòria per mitjà d'una picola i d'un raspall.
L'execució dels diferents tipus de soldadures s'ha de fer d'acord amb els requisits establerts a l'apartat 10.3.4 del DB-SE A i l'article 94 del CODI ESTRUCTURAL per a obres d'edificació o d'acord amb l'article 640.5.2 del PG3 i l'article 94 del CODI ESTRUCTURAL per a obres d'enginyeria civil.
S'ha de reduir al mínim el nombre de soldadures a efectuar a l'obra.
Les operacions de tall s'han de fer amb serra, cisalla i oxitall automàtic. S'admet l'oxitall manual únicament quan el procediment automàtic no es pugui practicar.
S'accepten els talls fets amb oxitall si no presenten irregularitats significatives i si s'eliminin les restes d'escòria.
Es poden utilitzar procediments de conformat en calent o en fred sempre que les característiques del material no queden per sota dels valors especificats.
Per al conformat en calent s'han de seguir les recomanacions del productor siderúrgic. El doblat o conformat no s'ha de fer durant l'interval de calor blau (250°C a 380°C).
El conformat en fred s'ha de fer respectant les limitacions indicades en la norma del producte. No s'admeten les martellades.
Els angles entrants i entalles han de tenir un acabat arrodonit amb un radi mínim de 5 mm.
Toleràncies de fabricació:
- En obres d'edificació: Límits establerts a l'apartat 11.1 de DB-SE A
- En obres d'enginyeria civil: Límits establerts a l'article 640.12 del PG3

PERFILS TREBALLATS A TALLER AMB CARGOLS:
S'utilitzaran cargols normalitzats d'acord a les normes recollides a la taula 85.2.b del CODI ESTRUCTURAL
Els cargols aixamfranats, cargols calibrats, perns articulats i els cargols hexagonals d'injecció s'han d'utilitzar seguint les instruccions del seu fabricant i han de complir els requisits addicionals establerts a l'article 85.2 del CODI ESTRUCTURAL.
La situació dels cargols a la unió ha de ser tal que redueixi la possibilitat de corrosió i pandeig local de les xapes, i ha de facilitar el muntatge i les inspeccions.
El diàmetre nominal mínim dels cargols ha de ser de 12 mm.
La rosca pot estar inclosa en el pla de tall, excepte en el cas que els cargols s'utilitzin com a calibrats.
Després del collat l'espiga del cargol ha de sobresortir de la rosca de la femella. Entre la superfície de recolzament de la femella i la part no roscada de l'espiga ha d'haver, com a mínim:
- En cargols pretesats: 4 filets complerts més la sortida de la rosca

- En cargols sense pretesar: 1 filet complert més la sortida de la rosca
Les superfícies dels caps de cargols i femelles han d'estar perfectament planes i netes.
En els cargols col·locats en posició vertical, la femella ha d'estar situada per sota del cap del cargol.
En els forats rodons normals i amb cargols sense pretesar no és necessari utilitzar volanderes. Si s'utilitzen han d'anar sota el cap dels cargols, han de ser aixamfranades i el xamfrà ha d'estar situat en direcció al cap del cargol.
En els cargols pretesats, les volanderes han de ser planes endurides i han d'anar col·locades de la forma següent:
- Cargols 10.9: sota el cap del cargol i de la femella
- Cargols 8.8: sota de l'element que gira
Els forats per als cargols s'han de fer amb perforadora mecànica. S'admet un altre procediment sempre que proporcioni un acabat equivalent.
Es permet l'execució de forats amb punxonatge sempre que es compleixin els requisits establerts a l'apartat 10.2.3 del DB-SE A en obres d'edificació o els establerts a l'apartat 640.5.1.1 del PG3 en obres d'enginyeria civil.
És recomanable que, sempre que sigui possible, es perforin d'un sol cop els forats que travessin dues o més peces.
Els forats allargats s'han de fer amb una operació de punxonatge, o amb la perforació o punxonatge de dos forats i posterior oxitall.
Després de perforar les peces i abans d'unir-les s'han d'eliminar les rebaves.
Els cargols i les femelles no s'han de soldar, a menys que així ho expliciti el plec de condicions tècniques particulars.
S'han de col·locar el nombre suficient de cargols de muntatge per assegurar la immobilitat de les peces armades i el contacte íntim de les peces d'unió.
Les femelles s'han de muntar de manera que la seva marca de designació sigui visible després del muntatge.
En els cargols sense pretesar, cada conjunt de cargol, femella i volandera(es) s'ha de collar fins arribar al "collat a tocar" sense sobretesar els cargols. En grups de cargols aquest procés s'ha de fer progressivament començant pels cargols situats al centre. Si és necessari s'han de fer cicles addicionals de collat .
Abans de començar el pretesat, els cargols pretesats d'un grup s'han de collar d'acord amb el que s'ha indicat per als cargols sense pretesar. Per a que el pretesat sigui uniforme s'han de fer cicles addicionals de collat.
S'han de retirar els conjunts de cargol pretesat, femella i volandera(es) que després de collats fins al pretesat mínim, s'afluixin.
El collat dels cargols pretesats s'ha de fer seguint un dels procediments següents:
- Mètode de la clau dinamomètrica.
- Mètode de la femella indicadora.
- Mètode convinat.
Les operacions de tall s'han de fer amb serra, cisalla i oxitall automàtic. S'admet l'oxitall manual únicament quan el procediment automàtic no es pugui practicar.
S'accepten els talls fets amb oxitall si no presenten irregularitats significatives i si s'eliminin les restes d'escòria.
Es poden utilitzar procediments de conformat en calent o en fred sempre que les característiques del material no queden per sota dels valors especificats.
Per al conformat en calent s'han de seguir les recomanacions del productor siderúrgic. El doblat o conformat no s'ha de fer durant l'interval de calor blau (250°C a 380°C).
El conformat en fred s'ha de fer respectant les limitacions indicades en la norma del producte. No s'admeten les martellades.
Els angles entrants i entalles han de tenir un acabat arrodonit amb un radi mínim de 5 mm.
Toleràncies de fabricació:
- En obres d'edificació: Límits establerts a l'apartat 11.1 de DB-SE A
- En obres d'enginyeria civil: Límits establerts als apartat 640.5 i 640.12 del PG3
PERFILS PROTEGITS AMB EMPRIMACIÓ ANTIOXIDANT:
La capa d'emprimació antioxidant ha de cobrir de manera uniforme totes les superfícies de la peça.
No ha de tenir fissures, bosses ni altres desperfectes.
Abans d'aplicar la capa d'emprimació les superfícies a pintar han d'estar preparades adequadament d'acord amb les normes UNE-EN ISO 8504-1, UNE-EN ISO 8504-2 i UNE-EN ISO 8504-3.
Prèviament al pintat s'ha de comprovar que les superfícies compleixen els requisits donats pel fabricant per al producte a aplicar.
La pintura d'emprimació s'ha d'utilitzar seguint les instruccions del seu fabricant. No s'utilitzarà si ha superat el temps de vida útil o el temps d'enduriment després de l'obertura del recipient.
Si s'aplica més d'una capa s'ha d'utilitzar per a cadascuna un color diferent.

Després de l'aplicació de la pintura les superfícies s'han de protegir de l'acumulació d'aigua durant un cert temps.
No s'han d'utilitzar materials de protecció que perjudiquin la qualitat de la soldadura a menys de 150 mm de la zona a soldar.
Les soldadures i el metall base adjacent no s'han de pintar sense haver eliminat prèviament l'escòria.
La zona sense revestir situada al voltant del perímetre de la unió amb cargols no s'ha de tractar fins que no s'hagi inspeccionat la unió.
PERFILS GALVANITZATS:
El recobriment de zinc ha de ser homogeni i continu en tota la superfície.
No s'han d'apreciar esquerdes, exfoliacions ni despreniments del recobriment.
La galvanització s'ha de fer d'acord amb les normes UNE-EN ISO 1460 o UNE-EN ISO 1461, segons correspongui.
S'han de segellar totes les soldadures abans de fer un decapat previ a la galvanització.
Si el component prefabricat té espais tancats s'han de disposar forats de ventilació o purga.
Abans de pintar-les, les superfícies galvanitzades s'han de netejar i tractar amb pintura anticorrosiva amb diluent àcid o amb raig escombrador.
2.- CONDICIONS DE SUBMINISTRAMENT I EMMAGATZEMATGE
Subministrament: de manera que no pateixin deformacions, ni esforços no previstos.
Emmagatzematge: Seguint les instruccions del fabricant. En llocs secs, sense contacte directe amb el terra i protegits de la intempèrie, de manera que no s'alterin les seves condicions.
No s'han d'utilitzar si s'ha superat la vida útil en magatzem especificada pel fabricant.
3.- UNITAT I CRITERI D'AMIDAMENT
kg de pes necessari subministrat a l'obra, calculat segons les especificacions de la DT, d'acord amb els criteris següents:
- El pes unitari per al seu càlcul ha de ser el teòric
- Per a poder utilitzar un altre valor diferent del teòric, cal l'acceptació expressa de la DF
Aquests criteris inclouen les pèrdues de material corresponents a retalls.
4.- NORMATIVA DE COMPLIMENT OBLIGATORI
NORMATIVA GENERAL:
UNE-EN 10025-1:2006 Productos laminados en caliente de aceros para estructuras. Parte 1: Condiciones técnicas generales de suministro.
UNE-EN 10025-2:2006 Productos laminados en caliente de aceros para estructuras. Parte 2: Condiciones técnicas de suministro de los aceros estructurales no aleados.
UNE-EN 10210-1:1994 Perfiles huecos para construcción, acabados en caliente, de acero no aleado de grano fino. Parte 1: condiciones técnicas de suministro.
UNE-EN 10219-1:1998 Perfiles huecos para construcción conformados en frío de acero no aleado y de grano fino. Parte 1: Condiciones técnicas de suministro.
UNE-EN 10162:2005 Perfiles de acero conformados en frío. Condiciones técnicas de suministro. Tolerancias dimensionales y de la sección transversal.
OBRES D'EDIFICACIÓ:
Real Decreto 470/2021, de 29 de junio, por el que se aprueba el Código Estructural.
* UNE-ENV 1090-1:1997 Ejecución de estructuras de acero. Parte 1: Reglas generales y reglas para edificación.
OBRES D'ENGINYERIA CIVIL:
Real Decreto 470/2021, de 29 de junio, por el que se aprueba el Código Estructural.
* Orden FOM/475/2002 de 13 de febrero, por la que se actualizan determinados artículos del Pliego de Prescripciones Técnicas Generales para Obras de Carreteras y Puentes relativos a Hormigones y Acero (PG-3).
5.- CONDICIONS DE CONTROL DE RECEPCIÓ
CONDICIONS DE MARCATGE I CONTROL DE LA DOCUMENTACIÓ EN PERFILS D'ACER LAMINAT I PERFILS D'ACER BUITS:
Cada producte ha d'anar marcat de forma clara i indeleble amb la següent informació:
- El tipus, la qualitat i, si és aplicable, la condició de subministrament mitjançant la seva designació abreujada
- Un número que identifiqui la colada (aplicable únicament en el cas d'inspecció per colades) i, si és aplicable, la mostra
- El nom del fabricant o la seva marca comercial
- La marca de l'organisme de control extern (quan sigui aplicable)
- Han de portar el marcatge CE de conformitat amb el que disposa el Reial Decret 1328/1995, de 28 de juliol
La marca ha d'estar situada en una posició propera a un dels extrems de cada producte o en la secció transversal de tall.
Quan els productes es subministren en paquets el marcatge s'ha de fer amb una etiqueta adherida al paquet o sobre el primer producte del mateix.

PERFILS D'ACER LAMINAT EN CALENT:
El subministrador ha de posar a disposició de la DF en el cas que aquesta ho sol·liciti, la documentació següent, que acredita el marcatge CE, segons el sistema d'avaluació de conformitat aplicable, d'acord amb el que disposa l'apartat 7.2.1 del CTE: - Productes per a ús en estructures metàl·liques o en estructures mixtes metall i formigó: - Sistema 2+: Declaració de Prestacions
El símbol normalitzat CE (d'acord amb la directiva 93/68/CEE) s'ha de col·locar sobre el producte acompanyat per:
- El número d'identificació de l'organisme de certificació
- El nom o marca comercial i adreça declarada del fabricant
- Les dues ultimes xifres de l'any d'impressió del marcat
- El número del certificat de conformitat CE o del certificat de producció en fàbrica (si és procedent)
- Referència a la norma EN 10025-1
- Descripció del producte: nom genèric, material, dimensions i ús previst
- Informació de les característiques essencials indicades de la següent forma: - Designació del producte d'acord amb la norma corresponent de toleràncies dimensionals, segons el capítol 2 de la norma EN 10025-1 - Designació del producte d'acord amb l'apartat 4.2 de les normes EN 10025-2 a EN 10025-6
CONDICIONS DE MARCATGE I CONTROL DE LA DOCUMENTACIÓ EN PERFILS D'ACER CONFORMATS:
Han d'anar marcats individualment o sobre el paquet amb una marca clara i indeleble que contingui la següent informació:
- Dimensions del perfil o número del plànol de diseny
- Tipus i qualitat de l'acer
- Referència que indiqui que els perfils s'han fabricat i assajat segons UNE-EN 10162; si es requereix, el marcatge CE
- Nom o logotipus del fabricant
- Codi de producció
- Identificació del laboratori d'assaigs extern (quan sigui aplicable)
- Codi de barres, segons ENV 606, quan la informació mínima anterior es faciliti amb un text clar
CONDICIONS DE MARCATGE I CONTROL DE LA DOCUMENTACIÓ EN PERFILS FORADATS:
Cada perfil ha d'anar marcat de forma clara i indeleble amb la següent informació:
- La designació abreujada
- El nom o les sigles (marca de fàbrica) del fabricant
- En el cas d'inspecció i assaigs específics, un número d'identificació, per exemple el número de comanda, que permeti relacionar el producte o la unitat de subministrament i el document corresponent (únicament aplicable als perfils foradats conformats en fred)
Quan els productes es subministren en paquets el marcatge es pot fer amb una etiqueta adherida al paquet.
OPERACIONS DE CONTROL:
El control de recepció de material verificarà que les característiques dels materials són coincidents amb l'establert en la DT. Aquest control ha de complir l'especificat en l'apartat 7.2 del CTE.
Control de documentació: documents d'origen (full de subministrament i etiquetat), certificat de garantia del fabricant, en el seu cas, (signat per persona física) i els documents de conformitat o autoritzacions administratives exigides, inclòs la documentació corresponent al marcatge CE quan sigui pertinent.
Control mitjançant distintius de qualitat i avaluacions d'idoneïtat: En el cas que el fabricant disposi de marques de qualitat, ha d'aportar-ne la documentació corresponent.
Control de recepció mitjançant assaigs: Si el material disposa d'una marca legalment reconeguda a un país de la CEE (Marcatge CE, AENOR, etc.) es podrà prescindir dels assaigs de control de recepció de les característiques del material garantides per la marca; i la DF sol·licitarà en aquest cas, els resultats dels assaigs corresponents al subministrament rebut. En qualsevol cas, la DF podrà sol·licitar assaigs de control de recepció si ho creu convenient.
Inspecció visual del material a la seva recepció. Es controlaran les característiques geomètriques com a mínim sobre un 10% de les peces rebudes. El subministrament del material es realitzarà amb la inspecció requerida (UNE-EN 10204).
A efectes de control d'apilament, la unitat d'inspecció ha de complir les següents condicions:
- Correspondència en el mateix tipus i grau d'acer
- Procedència de fabricant
- Pertany a la mateixa sèrie en funció del gruix màxim de la secció: - Sèrie lleugera: e <= 16 mm - Sèrie mitja: 16 mm <= e <= 40 mm - Sèrie pesada: e > 40 mm
En el cas que es realitzi el control mitjançant assaigs, s'ha de fer les comprovacions següents:

- Les unitats d'inspecció seran fraccions de cada grup afí, amb un pes màxim de 20 t per lot.
- Per a cada lot , es realitzaran els següents assaigs: - Determinació quantitativa de sofre (UNE 7-019) - Determinació quantitativa fòsfor (UNE 7-029) - Determinació del contingut de nitrogen (UNE 36-317-1) - Determinació quantitativa del contingut de carboni (UNE 7014)
- En una mostra d'acer laminat, per a cada lot , es realitzaran a més, els següents assaigs: - Determinació quantitativa de manganès (UNE 7027) - Determinació gravimètrica de silici (UNE 7028) - Assaig a flexió pel xoc d'una proveta de planxa d'acer (UNE 7475-1) - Determinació de la duresa brinell d'una proveta (UNE-EN-ISO 6506-1)
- En una mostra de perfils d'acer buits, per a cada lot, es realitzaran a més, els següents assaigs: - Assaig d'aixafada (UNE-EN ISO 8492)
- En el cas de perfils galvanitzats, es comprovarà la massa i gruix del recobriment (UNE-EN ISO 1461, UNE-EN ISO 2178).

OPERACIONS DE CONTROL EN UNIONS SOLDADES:

Recepció del certificat de qualitat de les característiques dels elèctrodes.

Abans de començar l'obra, i sempre que es canviï el tipus de material d'aportació:
- Preparació d'una proveta mecanitzada, soldades amb el material d'aportació previst, i assaig a tracció (UNE-EN ISO 15792-2). Abans d'aquest assaig, es realitzarà una radiografia de la soldadura realitzada (UNE-EN 1435), per tal de constatar que el cordó està totalment ple de material d'aportació.
- Assaig de tracció del metall aportat(UNE-EN ISO 15792-2) 1 provetes
- Assaig de resiliència del metall aportat (UNE-EN ISO 15792-2) 1 provetes

CRITERIS DE PRESA DE MOSTRES:

Les mostres per als assaigs químics es prendran de la unitat d'inspecció segons els criteris establerts a la norma UNE-EN ISO 14284.

En perfils laminats i conformats les mostres per als assaigs mecànics es prendran segons els criteris establerts a les UNE EN 10025-2 a UNE 10025-6. Les localitzacions de les mostres seguiran els criteris establerts a l'annex A de l'UNE EN 10025-1.

Per la preparació de les provetes s'aplicaran els requisits establerts a la UNE-EN ISO 377.

Per la preparació de provetes per assaig de tracció s'aplicarà la UNE-EN 10002-1.

En perfils laminats, per la preparació de provetes per assaig a flexió per xoc (resiliència) s'aplicarà la UNE 10045-1. També son d'aplicació els següents requeriments:
- Gruix nominal >12 mm: mecanitzar provetes de 10x10 mm
- Gruix nominal <= 12 mm: l'ample mínim de la proveta serà de 5 mm

Les mostres i provetes tenen que estar marcades de manera que es reconeguin els productes originals, així com la seva localització i orientació del producte.

Les mostres i els criteris de conformitat per als perfils buits, queden establerts a la norma UNE-EN 10219-1 seguint els parametres de la taula D.1

INTERPRETACIÓ DE RESULTATS I ACTUACIONS EN CAS D'INCOMPLIMENT:

No es podrà acceptar perfils que no estiguin amb les garanties corresponents i no vagin marcats adequadament.

Si els resultats de tots els assaigs de recepció d'un lot acompleixen el prescrit, aquest és acceptable.

Si algun resultat no acompleix el prescrit, però s'ha observat en el corresponent assaig alguna anomalia no imputable al material (com defecte en la mecanització de la proveta, irregular funcionament de la maquinaria d'assaig...) l'assaig es considerarà nul i caldrà repetir-lo correctament amb una nova proveta.

Si algun resultat no acompleix el prescrit havent-ho realitzat correctament, es realitzaran 2 contrassaigs segons UNE-EN 10021, sobre provetes preses de dues peces diferents del lot que s'està assajant. Si ambdós resultats (dels contrassaigs) compleixen el prescrit, la unitat d'inspecció serà acceptable, en cas contrari es rebutjarà.

Quan es sobrepassi alguna de les toleràncies especificades en algun control geomètric, es rebutjarà la peça incorrecta. A més a més, s'augmentarà el control, en l'apartat incomplet, fins a un 20% d'unitats. Si encara es troben irregularitats, es faran les oportunes correccions i/o rebuigs i es farà el control sobre el 100 % de les unitats amb les oportunes actuacions segons el resultat.

INTERPRETACIÓ DE RESULTATS I ACTUACIONS EN CAS D'INCOMPLIMENT EN UNIONS SOLDADES:

El material d'aportació complirà les condicions mecàniques indicades.

En les provetes preparades amb soldadures, la línia de ruptura ha de quedar fora de la zona d'influència de la soldadura.

B6 TANCAMENTS I DIVISÒRIES

B61 MATERIALS PER A PARETS I ENVANS D'OBRA DE FÀBRICA

B610- ANCORATGE DE TANCAMENT PRIMARI

0.- ELEMENTS QUE CONTEMPLA EL PLEC

B610-0KVT.

1.- DEFINICIÓ I CONDICIONS DELS ELEMENTS
Materials auxiliars per a col·laborar en l'execució de parets i envans d'obra de fàbrica.
S'han considerat els tipus següents:
- Ancoratge de tancament primari amb platina d'acer treballada a taller amb un o dos plecs
- Ancoratge de tancament primari amb platina d'acer galvanitzat treballada a taller amb un plec per a traves de parets
CONNECTOR PER A TRAVA DE PARETS:
El fabricant ha de declarar el gruix mínim de la junta de morter per a cada tipus de clau.
El producte ha d'estar dissenyat per evitar vores tallants i punxegudes o bé portar instruccions per a la seva manipulació.
Toleràncies:
ELEMENTS D'ACER GALVANITZAT:
El recobriment de zinc ha de ser homogeni i continu en tota la superfície.
No s'han d'apreciar esquerdes, exfoliacions ni despreniments del recobriment.
ANCORATGE DE PLATINA D'ACER:
Els plecs han de tenir un radi de curvatura suficient per no produir esquerdes ni fissures.
Els plecs han de quedar a escaire.
El fabricant ha de garantir les característiques mecàniques i la composició química de l'acer.
Toleràncies:
- Llargària: + 3 mm, - 0 mm
- Amplària: ± 1 mm
- Gruix: ± 0,2 mm
2.- CONDICIONS DE SUBMINISTRAMENT I EMMAGATZEMATGE
Emmagatzematge: En llocs protegits de la intempèrie i d'impactes.
3.- UNITAT I CRITERI D'AMIDAMENT
Unitat d'amidament: la indicada a la descripció de l'element
Criteri d'amidament: quantitat necessària subministrada a l'obra
4.- NORMATIVA DE COMPLIMENT OBLIGATORI
CONNECTOR PER A TRAVA DE PARETS:
UNE-EN 845-1:2005 Especificación de componentes auxiliares para fábricas de albañilería. Parte 1: Llaves, amarres, colgadores, ménsulas y ángulos.
5.- CONDICIONS DE CONTROL DE RECEPCIÓ
CONDICIONS DE MARCATGE I CONTROL DE LA DOCUMENTACIÓ EN CONNECTOR PER A TRAVA DE PARETS:
El subministrador ha de posar a disposició de la DF en el cas que aquesta ho sol·liciti, la documentació següent, que acredita el marcatge CE, segons el sistema d'avaluació de conformitat aplicable, d'acord amb el que disposa l'apartat 7.2.1 del CTE: - Productes per a paraments i parets mitgeres: - Sistema 3: Declaració de Prestacions
Els productes de la construcció han de portar en un lloc visible el marcatge CE de conformitat amb el que disposa el Reial Decret 1328/1995, de 28 de juliol
El símbol de marcat de conformitat CE ha de mostrar-se en el producte o en el seu embolcall, albarà, factura o documentació adjunta i ha de contenir la següent informació: - Número de la norma (UNE-EN 845-1) - Nom del fabricant, marca identificadora i direcció registrada del fabricant o representant. - El número de referència únic, nom o codi que identifiqui el tipus de producte i el relacioni amb la descripció i designació. - Els dos últims dígits de l'any en que es va imprimir el marcatge - Descripció del producte, nom genèric, material, dimensions, ús previst, instruccions de muntatge i tota la informació necessària d'acord amb l'UNE-EN 845-1. - Informació sobre els requisits essencials: - Resistència a la compressió -

Resistència a la tracció - Resistència al pandeig - Capacitat de protecció contra l'aigua - Resistència a tallant - Característiques del rendiment de durabilitat (contra la corrosió)

B6 TANCAMENTS I DIVISÒRIES

B64 MATERIALS PER A TANQUES METÀL·LIQUES

B640- PAL DE TUB D'ACER GALVANITZAT

0.- ELEMENTS QUE CONTEMPLA EL PLEC

B640-0KVH.

1.- DEFINICIÓ I CONDICIONS DELS ELEMENTS
Materials auxiliars per a tancaments metàl·lics.
S'han considerat els tipus següents:
- Tub d'acer galvanitzat en calent per un procés d'immersió contínua, que forma el pal del reixat.
- Porta de planxa preformada d'acer galvanitzat de 2 m d'alçària amb bastiment de tub d'acer galvanitzat, per a tanca de planxa metàl·lica.
CARACTERÍSTIQUES GENERALS:
Ha de tenir la superfície llisa i uniforme.
No ha de tenir cops, porus ni d'altres deformacions o defectes superficials.
El recobriment de zinc ha de ser homogeni i continu en tota la seva superfície i no ha de tenir esquerdes, exfoliacions ni despreniments.
Si existeixen soldadures s'han de tractar amb pintura de pols de zinc amb resines (galvanitzat en fred).
La seva secció ha de permetre la fixació de la tanca amb els elements auxiliars.
Protecció de la galvanització: >= 385 g/m2
Protecció de la galvanització a les soldadures: >= 345 g/m2
Puresa del zinc: >= 98,5%
PORTA DE PLANXA:
La porta i el bastiment han de ser compatibles amb la resta d'elements que formen la tanca.
No ha de tenir defectes que puguin afectar el seu funcionament.
Ha de dur els elements d'ancoratge necessaris per a la seva fixació als elements de suport i els mecanismes d'obertura.
ELEMENTS DE TUB:
Toleràncies:
- Alçària: ± 1 mm
- Diàmetre: ± 1,2 mm
- Rectitud: ± 2 mm/m
2.- CONDICIONS DE SUBMINISTRAMENT I EMMAGATZEMATGE
Subministrament: Amb els elements que calguin per tal d'assegurar la seva rectitud.
Emmagatzematge: Protegit de les pluges, els focus d'humitat i les zones on pugui rebre impactes. No ha d'estar en contacte amb el terra.
3.- UNITAT I CRITERI D'AMIDAMENT
Unitat d'amidament: la indicada a la descripció de l'element
Criteri d'amidament: quantitat necessària subministrada a l'obra
4.- NORMATIVA DE COMPLIMENT OBLIGATORI
No hi ha normativa de compliment obligatori.

B6 TANCAMENTS I DIVISÒRIES

B64 MATERIALS PER A TANQUES METÀL·LIQUES

B641- PLANXA D'ACER PER A TANCA

0.- ELEMENTS QUE CONTEMPLA EL PLEC

B641-0KVP.

1.- DEFINICIÓ I CONDICIONS DELS ELEMENTS
Materials per a tanques d'acer.
S'han considerat els tipus següents:
- Planxa preformada d'acer galvanitzat de 0,6 mm de gruix amb nervadures, per a tanca metàl·lica.
CARACTERÍSTIQUES GENERALS:
No ha de tenir cops, porus ni d'altres deformacions o defectes superficials.
El recobriment de zinc ha de ser homogeni i continu en tota la seva superfície i no ha de tenir esquerdes, exfoliacions ni despreniments.
Protecció de la galvanització: >= 385 g/m2
Protecció de la galvanització a les soldadures: >= 345 g/m2
Puresa del zinc: >= 98,5%
2.- CONDICIONS DE SUBMINISTRAMENT I EMMAGATZEMATGE
Subministrament: Amb els elements que calguin per tal d'assegurar el seu escairat, rectitud i planor.
Emmagatzematge: Protegit de les pluges, els focus d'humitat i les zones on pugui rebre impactes. No ha d'estar en contacte amb el terra.
3.- UNITAT I CRITERI D'AMIDAMENT
Unitat d'amidament: la indicada a la descripció de l'element
Criteri d'amidament: quantitat necessària subministrada a l'obra
4.- NORMATIVA DE COMPLIMENT OBLIGATORI
No hi ha normativa de compliment obligatori.

B9 MATERIAL PER A PAVIMENTS

B96 MATERIALS PER A VORADES

B962- PEÇA RECTA DE FORMIGÓ PER A VORADES

0.- ELEMENTS QUE CONTEMPLA EL PLEC

B962-0GQU.

1.- DEFINICIÓ I CONDICIONS DELS ELEMENTS
Peça prefabricada de formigó no armat de forma prismàtica, massissa i amb una secció transversal adequada a les superfícies exteriors a les que delimita.
S'han considerat els tipus següents:
- Monocapa: Peça formada per un sol tipus de formigó
- Doble capa: Peça amb diferents tipus de formigó en la seva estructura principal i en la seva capa superficial

S'han considerat les formes següents:
- Recta
- Corba
- Recta amb rigola
- Per a guals
CARACTERÍSTIQUES GENERALS:
La peça ha de tenir un color i una textura uniformes a tota la superfície.
La cara vista no ha de tenir esquerdes, escantonaments ni altres defectes.
Les cares horitzontals han de ser planes i paral·leles.
El cantells poden ser bisellats, arrodonits, corbs o xamfranats.
No han de ser visibles els granulats del morter en la capa vista.
La textura i el color no han de presentar diferències significatives respecte de qualsevol mostra facilitada pel fabricant i aprovada pel comprador.
En el cas de peces bicapa, no ha d'existir separació entre les dues capes.
En les peces de color, pot estar acolorida la capa superficial o tota la peça.
La forma d'expressió de les mesures ha de ser: Alçària x amplària.
Gruix de la capa vista: >= 4 mm
Classes en funció de la resistència climàtica:
- Classe 1 (marcat A): sense mesura del % d'absorció d'aigua
- Classe 2 (marcat B): <= 6% d'absorció d'aigua
- Classe 3 (marcat D): valor mitjà <= 1 kg/m2 de pèrdua de massa després de l'assaig glaç-desglaç; cap valor unitari > 1,5
Classes en funció de la resistència al desgast per abrasió:
- Classe 1 (marcat F): sense mesura d'aquesta característica
- Classe 3 (marcat H): <= 23 mm
- Classe 4 (marcat I): <= 20 mm
Classes en funció de la resistència a flexió:
- Classe 1 (marcat S): valor mitjà: >= 3,5 MPa; valor unitari: >= 2,8 MPa
- Classe 2 (marcat T): valor mitjà: >= 5,0 MPa; valor unitari: >= 4,0 MPa
- Classe 3 (marcat U): valor mitjà: >= 6,0 MPa; valor unitari: >= 4,8 MPa
Les característiques dimensionals, físiques i mecàniques han de complir les especificacions de la norma UNE-EN 1340 i s'han de determinar segons aquesta norma.
Toleràncies:
- Desviació de la llargària respecte de la llargària nominal: ± 1% al mm més pròxim, >= 4 mm, <= 10 mm
- Desviació d'altres dimensions, excepte el radi: - Cares vistes: ± 3% al mm més pròxim, >= 3 mm, <= 5 mm - Altres parts: ± 5% al mm més pròxim, >= 3 mm, <= 10 mm
- Desviació màxima respecte de la planor i la rectitud en les cares planes i cantells rectes: - Dispositiu de mesura de 300 mm de llargària: ± 1,5 mm - Dispositiu de mesura de 400 mm de llargària: ± 2 mm - Dispositiu de mesura de 500 mm de llargària: ±2,5 mm - Dispositiu de mesura de 800 mm de llargària: ± 4 mm
2.- CONDICIONS DE SUBMINISTRAMENT I EMMAGATZEMATGE
Subministrament i emmagatzematge: De manera que no s'alterin les seves condicions.
3.- UNITAT I CRITERI D'AMIDAMENT
Unitat d'amidament: la indicada a la descripció de l'element
Criteri d'amidament: quantitat necessària subministrada a l'obra
4.- NORMATIVA DE COMPLIMENT OBLIGATORI
UNE-EN 1340:2004 Bordillos prefabricados de hormigón. Especificaciones y métodos de ensayo.
UNE 127340:2006 Bordillos prefabricados de hormigón. Especificaciones y métodos de ensayo. Complemento nacional a la Norma UNE-EN 1340.
5.- CONDICIONS DE CONTROL DE RECEPCIÓ
CONDICIONS DE MARCATGE I CONTROL DE LA DOCUMENTACIÓ:
A l'albarà de lliurament, hi ha de constar la següent informació com a mínim:
- Identificació del fabricant o la fàbrica
- Data d'entrega del producte, quan es produeix abans de la considerada com a apta per a l'ús
- Identificació de les classes en relació a la resistència climàtica, la resistència a l'abrasió i la resistència a la flexió
- Referència a la norma UNE-EN 1340
- Identificació del producte
- Marcat CE de conformitat amb el que disposa el Reial Decret 1328/1995, de 28 de juliol
Sobre un 0,5 % de les peces, amb un mínim d'una unitat per paquet, o a l'embalatge quan no sigui reutilitzat, hi ha de constar la següent informació:
- Identificació del fabricant o la fàbrica
- Data de producció
- Data d'entrega del producte, quan es produeix abans de la considerada com a apta per a l'ús.

- Identificació de les classes en relació a la resistència climàtica, la resistència a l'abrasió i la resistència a la flexió
- Referència a la norma UNE-EN 1340
- A l'embalatge: marcat CE de conformitat amb el que disposa el Reial Decret 1328/1995, de 28 de juliol

El subministrador ha de posar a disposició de la DF en el cas que aquesta ho sol·liciti, la documentació següent, que acredita el marcatge CE, segons el sistema d'avaluació de conformitat aplicable, d'acord amb el que disposa l'apartat 7.2.1 del CTE: - Productes per a usos interns incloent les premises de transport públic de Nivell o Classe: A1*. * Productes o materials que no necessiten sotmetre's a assaig de reacció al foc (per exemple productes o materials de la classe A1 conformement a la Decisió 96/603/CE, i les seves modificacions), - Productes per a cobertes de Nivell o Classe: es considera que satisfan els requisits enfront del foc extern **. ** Decisió de la Comissió 2000/553/CE, modificada, - Productes per a ús extern i acabat de carrers, cobrint àrees externes de circulació de vianants i de vehicles: - Sistema 4: Declaració de Prestacions

OPERACIONS DE CONTROL:

Els punts de control més destacables són els següents:

- En cada subministrament, es realitzaran els controls següents: - Inspecció visual del material, identificació de les marques corresponents (UNE-EN 1339, UNE-EN 1340) i recepció del certificat de qualitat del fabricant. - Control dimensional sobre un 10 % de les peces rebudes (UNE-EN 1339, UNE-EN 1340)
- Per a cada subministrador diferent, es prendran 3 mostres (sèries) de 3 peces cadascuna, per tal de realitzar els següents assaigs: - Resistència a flexió (UNE-EN 1340) - Absorció d'aigua (UNE-EN 1340) - Resistència a compressió de testimonis extrets de les peces de vorada (UNE-EN 12390-3)

En cas que el material disposi de la Marca AENOR, o una altra legalment reconeguda a un país de l'UE, s'ha de poder prescindir dels assaigs de control de recepció. La DF ha de sol·licitar, en aquest cas, els resultats dels assaigs corresponents al subministrament rebut, segons control de producció establert a la marca de qualitat del producte.

CRITERIS DE PRESA DE MOSTRES:

Les mostres es prendran a l'atzar segons les instruccions de la DF i els criteris de la norma UNE-EN 1339, UNE-EN 1340.

INTERPRETACIÓ DE RESULTATS I ACTUACIONS EN CAS D'INCOMPLIMENT:

No s'acceptaran les peces que no superin la inspecció visual, que no estiguin correctament identificades o que no arribin acompanyades del certificat de qualitat del fabricant.

La totalitat de les peces sobre les que es realitza el control geomètric, han de complir les especificacions del plec. En cas d'incompliment, s'incrementarà el control, en primer lloc, fins al 20% de les peces rebudes, i si continuen observant-se irregularitats, fins al 100% del subministrament.

En els assaigs de resistència a flexió i absorció d'aigua, s'han de complir, en cada una de les 3 mostres, les condicions de valor mitjà i valor individual indicats a les especificacions. Si una sèrie no compleix aquest requisit, es podran realitzar contrassaigs sobre dues mostres més (de 3 peces cadascuna) procedents del mateix lot, acceptant-ne el conjunt si ambdues resulten conformes a l'especifica't.

B9 MATERIAL PER A PAVIMENTS

B9E MATERIALS PER A PAVIMENTS DE PANOTS I MOSAICS HIDRÀULICS

B9E2- PANOT PER A VORERA

0.- ELEMENTS QUE CONTEMPLA EL PLEC

B9E2-0HOT.

1.- DEFINICIÓ I CONDICIONS DELS ELEMENTS

Peça prefabricada feta amb ciment, granulats i eventualment amb colorants, per a pavimentació.

S'han considerat les peces següents:
- Panot gris per a voreres
- Panot de color amb tacs per a pas de vianants
CARACTERÍSTIQUES GENERALS:
La peça ha de tenir un color i una textura uniformes a tota la superfície.
La cara vista no ha de tenir esquerdes, escantonaments ni altres defectes.
Les cares horitzontals han de ser planes i paral·leles.
El cantells de la cara vista han de ser bisellats o arrodonits.
No han de ser visibles els granulats del morter en la capa vista.
La textura i el color no han de presentar diferències significatives respecte de qualsevol mostra facilitada pel fabricant i aprovada pel comprador.
Les peces poden ser monocapa, amb un sols tipus de formigó, o bicapa, amb diferents tipus en la seva estructura principal i en la seva capa superficial.
En el cas de peces bicapa, no ha d'existir separació entre les dues capes.
En les peces de color, pot estar acolorida la capa superficial o tota la peça.
La forma d'expressió de les mesures sempre ha de ser: Llargària x amplària x gruix.
Llargària: <= 1 m
Relació entre la llargària total i el gruix: > 4
Gruix de la capa vista: >= 4 mm
Les característiques dimensionals, físiques i mecàniques han de complir les especificacions de la norma UNE-EN 1339 i s'han de determinar segons aquesta norma.
Toleràncies:
- Desviació de la llargària respecte de la llargària nominal: - Classe 1 (marcat N): ± 5 mm - Classe 2 (marcat P): - Dimensions nominals de la peça <= 600 mm: ± 2 mm - Dimensions nominals de la peça > 600 mm: ± 3 mm - Classe 3 (marcat R): ± 2 mm
- Desviació de l'amplària respecte de l'amplària nominal: - Classe 1 (marcat N): ± 5 mm - Classe 2 (marcat P): - Dimensions nominals de la peça <= 600 mm: ± 2 mm - Dimensions nominals de la peça > 600 mm: ± 3 mm - Classe 3 (marcat R): ± 2 mm
- Desviació del gruix respecte del gruix nominal: - Classe 1 (marcat N): ± 3 mm
- Classe 2 (marcat P): - Dimensions nominals de la peça <= 600 mm: ± 3 mm
- Dimensions nominals de la peça > 600 mm: ± 3 mm - Classe 3 (marcat R): ± 2 mm
- Diferència entre dues mesures de llargària, amplària i gruix d'una mateixa peça: <= 3 mm
- Diferència màxima entre la llargària de dues diagonals (peces amb diagonals superiors a 300 mm): - Classe 1 (marcat J): - Llargària <= 850 mm: 5 mm - Llargària > 850 mm: 8 mm - Classe 2 (marcat K): - Llargària <= 850 mm: 3 mm
- Llargària > 850 mm: 6 mm - Classe 3 (marcat L): - Llargària <= 850 mm: 2 mm - Llargària > 850 mm: 4 mm
- Desviació màxima sobre la planor i curvatura de la cara vista plana (peces de dimensió màxima superior a 300 mm): - Dispositiu de mesura de 300 mm de llargària: - Convexitat màxima: 1,5 mm - Concavitat màxima: 1 mm - Dispositiu de mesura de 400 mm de llargària: - Convexitat màxima: 2 mm - Concavitat màxima: 1,5 mm - Dispositiu de mesura de 500 mm de llargària: - Convexitat màxima: 2,5 mm - Concavitat màxima: 1,5 mm - Dispositiu de mesura de 800 mm de llargària: - Convexitat màxima: 4 mm - Concavitat màxima: 2,5 mm
2.- CONDICIONS DE SUBMINISTRAMENT I EMMAGATZEMATGE
Subministrament: Empaquetats sobre palets.
Emmagatzematge: En llocs protegits contra els impactes.
3.- UNITAT I CRITERI D'AMIDAMENT
Unitat d'amidament: la indicada a la descripció de l'element
Criteri d'amidament: quantitat necessària subministrada a l'obra
4.- NORMATIVA DE COMPLIMENT OBLIGATORI
UNE-EN 1339:2004 Baldosas de hormigón. Especificaciones y métodos de ensayo.
5.- CONDICIONS DE CONTROL DE RECEPCIÓ
CONDICIONS DE MARCATGE I CONTROL DE LA DOCUMENTACIÓ:
El subministrador ha de posar a disposició de la DF en el cas que aquesta ho sol·liciti, la documentació següent, que acredita el marcatge CE, segons el sistema d'avaluació de conformitat aplicable, d'acord amb el que disposa l'apartat 7.2.1 del CTE: - Productes per a usos interns incloent les premises de transport públic de Nivell o Classe: A1*. * Productes o materials que no necessiten sotmetre's a assaig de reacció al foc (per exemple productes o materials de la classe A1 conformement a la Decisió 96/603/CE, i les seves modificacions), - Productes per a cobertes de Nivell o Classe: es considera que satisfan els requisits enfront del foc extern **. ** Decisió de la Comissió 2000/553/CE, modificada, - Productes per a ús extern i acabat de carrers, cobrint àrees externes de circulació de vianants i de vehicles: - Sistema 4: Declaració de Prestacions
A l'albarà de lliurament, hi ha de constar la següent informació com a mínim:

- Identificació del fabricant o la fàbrica
- Data en que el producte és declarat apte per a l'ús en el cas de que es lliure amb anterioritat a la mencionada data
- Identificació del producte segons la classificació de la norma UNE-EN 1339 i els valors declarats pel fabricant: - Dimensions nominals - Resistència climàtica - Resistència a flexió - Resistència al desgast per abrasió - Resistència al lliscament/patinatge - Càrrega de trencament - Comportament davant el foc
- Referència a la norma UNE-EN 1339
- Identificació del producte
- Marcatge CE de conformitat amb el que disposa el Reial Decret 1328/1995, de 28 de juliol. El símbol normalitzat CE s'ha d'acompanyar de la següent informació: - Nom o marca identificativa del fabricant - Direcció registrada del fabricant - Les 2 últimes xifres de l'any d'impressió del marcatge - Referència a la norma EN 1339
- El tipus de producte i l'ús o usos previstos - Informació sobre les característiques/mandats a declarar

Per als productes destinats a àrees exteriors de circulació de vianants i vehicles, incloses les zones delimitades per als transports públics, ha de constar a més: - Resistència al trencament - Resistència al patinat/lliscament - Durabilitat

Per als productes destinats a paviments d'ús interior: - Reacció al foc - Resistència a la ruptura - Resistència al patinat/lliscament - Durabilitat - Conductivitat tèrmica (si procedeix)

Els productes destinats a ús en cobertes: - Comportament davant del foc extern:es considera satisfactori

OPERACIONS DE CONTROL:

- En cada subministrament, es realitzaran els controls següents: - Inspecció visual del material, identificació de les marques corresponents (UNE-EN 1339) i recepció del certificat de qualitat del fabricant. - Control dimensional sobre un 10 % de les peces rebudes (UNE-EN 1339)
- Per a cada subministrador diferent, es prendran 9 mostres (6 de 3 peces cadascuna i 3 de 6 peces) per tal de realitzar els següents assaigs (UNE-EN 1339) - Sobre 3 mostres de 3 peces: - Absorció d'aigua - Gelabilitat - Permeabilitat i absorció d'aigua per la cara vista - Resistència al xoc - Sobre 3 mostres de 6 peces cadascuna - Resistència a flexió - Estructura - Resistència al desgast per abrasió (2 peces de cada mostra)
- Recepció del certificat de garantia de qualitat del fabricant. En cas de que el material disposi de la Marca AENOR, o altre legalment reconeguda a un país de la CEE, es podrà prescindir dels assaigs de control de recepció. La DF sol·licitarà en aquest cas, els resultats dels assaigs corresponents al subministra rebut, segons control de producció establert en la marca de qualitat de producte.

CRITERIS DE PRESA DE MOSTRES:

Les mostres es prendran a l'atzar segons les instruccions de la DF i els criteris de la norma UNE-EN 1339.

INTERPRETACIÓ DE RESULTATS I ACTUACIONS EN CAS D'INCOMPLIMENT:

No s'acceptaran les peces que no superin la inspecció visual, que no estiguin correctament identificades o que no arribin acompanyades del certificat de qualitat del fabricant.

La totalitat de les peces sobre les que es realitza el control geomètric, han de complir les especificacions del plec. En cas d'incompliment, s'incrementarà el control, en primer lloc, fins al 20% de les peces rebudes, i si continuen observant-se irregularitats, fins al 100% del subministrament.

En els assaigs de control del lot, el resultat de cada sèrie (valor mitjà dels resultats de les peces de cada mostra) ha de complir les especificacions. Si una sèrie no compleix aquest requisit, es podran realitzar contrassaigs sobre dues mostres més procedents del mateix lot, acceptant-se el conjunt si ambdues resulten conformes a l'especificat.

BD MATERIALS PER A EVACUACIÓ, CANALITZACIÓ I VENTILACIÓ ESTÀTICA

BDG MATERIALS PER A CANALITZACIONS

BDG2- FIL GUIA PER A CONDUCTES DE CANALITZACIONS DE SERVEIS

0.- ELEMENTS QUE CONTEMPLA EL PLEC

BDG2-34UA.

1.- DEFINICIÓ I CONDICIONS DELS ELEMENTS
Materials auxiliars per a canalitzacions de servei, com ara el fil guia, els connectors, els separadors, els obturadors, la banda o malla de senyalització o les plaques de protección.
CARACTERÍSTIQUES GENERALS:
El material, la seva qualitat i les característiques físiques, mecàniques i dimensionals, han de ser compatibles amb les del tub, i no han de fer disminuir les d'aquest en cap de les seves aplicacions.
2.- CONDICIONS DE SUBMINISTRAMENT I EMMAGATZEMATGE
Subministrament: A l'albarà de lliurament han de constar les característiques d'identificació següents:
Material
Tipus
Emmagatzematge: En llocs protegits contra els impactes, la pluja, les humitats i dels raigs del sol.
3.- UNITAT I CRITERI D'AMIDAMENT
Unitat composada pel conjunt de peces necessàries per a muntar 1 m de tub.
4.- NORMATIVA DE COMPLIMENT OBLIGATORI
UNE 133100-1:2002 Infraestructuras para redes de telecomunicaciones. Parte 1: Canalizaciones subterráneas.
Real Decreto 223/2008, de 15 de febrero, por el que se aprueban el Reglamento sobre condiciones técnicas y garantías de seguridad en líneas eléctricas de alta tensión y sus instrucciones técnicas complementarias ITC-LAT 01 a 09.

BD MATERIALS PER A EVACUACIÓ, CANALITZACIÓ I VENTILACIÓ ESTÀTICA

BDG MATERIALS PER A CANALITZACIONS

BDG3- PART PROPORCIONAL DE SEPARADORS, CONECTORS I OBTURADORS DE CANALITZACIONS DE SERVEIS

0.- ELEMENTS QUE CONTEMPLA EL PLEC

BDG3-34IM.

1.- DEFINICIÓ I CONDICIONS DELS ELEMENTS
Materials auxiliars per a canalitzacions de servei, com ara el fil guia, els connectors, els separadors, els obturadors, la banda o malla de senyalització o les plaques de protección.
CARACTERÍSTIQUES GENERALS:
El material, la seva qualitat i les característiques físiques, mecàniques i dimensionals, han de ser compatibles amb les del tub, i no han de fer disminuir les d'aquest en cap de les seves aplicacions.
2.- CONDICIONS DE SUBMINISTRAMENT I EMMAGATZEMATGE

Subministrament: A l'albarà de lliurament han de constar les característiques d'identificació següents:
Material
Tipus
Emmagatzematge: En llocs protegits contra els impactes, la pluja, les humitats i dels raigs del sol.
3.- UNITAT I CRITERI D'AMIDAMENT
Unitat composada pel conjunt de peces necessàries per a muntar 1 m de tub.
4.- NORMATIVA DE COMPLIMENT OBLIGATORI
UNE 133100-1:2002 Infraestructuras para redes de telecomunicaciones. Parte 1: Canalizaciones subterráneas.
Real Decreto 223/2008, de 15 de febrero, por el que se aprueban el Reglamento sobre condiciones técnicas y garantías de seguridad en líneas eléctricas de alta tensión y sus instrucciones técnicas complementarias ITC-LAT 01 a 09.

BD MATERIALS PER A EVACUACIÓ, CANALITZACIÓ I VENTILACIÓ ESTÀTICA

BDG MATERIALS PER A CANALITZACIONS

BDG4- PEÇA PREFABRICADA PER A CUNETES

0.- ELEMENTS QUE CONTEMPLA EL PLEC

BDG4-1GS1.

1.- DEFINICIÓ I CONDICIONS DELS ELEMENTS
Peça de formigó prefabricat per a la formació de cunetes, amb els extrems acabats amb encaix, obtingudes per un procés d'emmotllament i compactació per vibrocompressió d'un formigó sense armadura.
CARACTERÍSTIQUES GENERALS:
El formigó ha de ser de ciment pòrtland o putzolànic. No s'han d'admetre barreges de ciments de diferents tipus o procedències. Un cop endurit ha de ser homogeni i compacte.
L'element ha de tenir una secció constant i un gruix uniforme. Els extrems de l'encaix han d'acabar amb un tall recte perpendicular a l'eix, sense rebaves.
No ha de tenir escrostaments, esquerdes que travessin la paret, ni defectes que indiquin imperfeccions del procés d'emmotllament.
La superfície interior ha de ser regular i llisa. Es permeten petites irregularitats locals que no disminueixin la qualitat de l'element, ni la capacitat de desguàs.
No ha de tenir escrostaments, esquerdes que travessin la paret, ni defectes que indiquin imperfeccions del procés d'emmotllament.
La superfície interior ha de ser regular i llisa. S'admeten petites irregularitats locals que no disminueixin la qualitat de la peça, ni la capacitat de desguàs.
La DF pot exigir, en qualsevol moment, la realització de l'assaig de resistència a l'aixafament d'una mostra de cada remesa. L'assaig s'ha de fer segons el "Pliego de Prescripciones Técnicas Generales para tuberías de Saneamiento de poblaciones" del MOPU.
Rugositat interior, coeficient de fricció de Manning: <= 0,012
Resistència característica estimada a compressió del formigó als 28 dies proveta cilíndrica: >= 27,5 N/mm2
Toleràncies:
- Llargària nominal: ± 2%
- Gruix nominal: ± 5%, <= 3 mm
- Rectitud: ± 5 mm/m, <= 10 mm

2.- CONDICIONS DE SUBMINISTRAMENT I EMMAGATZEMATGE
Emmagatzematge: Protegits del sol i de les gelades. Assentats horitzontalment sobre superfícies planes o bé apilats de manera que la càrrega no superi el 50% de la resistència a l'aixafament del tub.

3.- UNITAT I CRITERI D'AMIDAMENT
Unitat d'amidament: la indicada a la descripció de l'element
Criteri d'amidament: quantitat necessària subministrada a l'obra
4.- NORMATIVA DE COMPLIMENT OBLIGATORI
No hi ha normativa de compliment obligatori.

BD MATERIALS PER A EVACUACIÓ, CANALITZACIÓ I VENTILACIÓ ESTÀTICA

BDK MATERIALS PER A PERICONS DE CANALITZACIONS

BDK2- PERICÓ PREFABRICAT DE FORMIGÓ

0.- ELEMENTS QUE CONTEMPLA EL PLEC

BDK2-1KNI.

1.- DEFINICIÓ I CONDICIONS DELS ELEMENTS
Pericons prefabricats de formigó armat vibrat, no pretesat per al registre de canalitzacions de servei.
CONDICIONS GENERALS:
La forma i dimensions dels pericons han de ser els indicats a la seva descripció, o els definits per a cada tipus homologat per la companyia de telecomunicacions.
Ha de portar dos ancoratges situats en dues superfícies oposades, per tal de facilitar la manipulació de l'element, aquests ancoratges han de resistir els esforços deguts al pes i manipulació del pericó.
Han d'incorporar dos suports per a la fixació de politges per a l'estesa de cables, situats en les parets transversals. Han d'estar centrats i a sota de les obertures d'entrada de conductes.
Han d'incorporar els suports necessaris per a la instal·lació i fixació dels conductes en el interior del pericó.
Quan a la seva descripció s'indiqui, han d'incorporar la tapa i el bastiment. En aquest cas el pericó ha de portar el bastiment metàl·lic incorporat com a remat de la part superior.
Les tapes o reixes han d'estar asegurades en la seva posició contra el desplaçament degut al trànsit amb una fondària d'encastament suficient o amb un dispositiu de tancament.
La tapa o reixa ha de quedar asegurada dins del bastiment per algún dels següents procediments:
- Amb un dispositiu de tanca
- Amb suficient massa superficial
- Amb una característica específica en el diseny
El disseny d'aquests procediments ha de permetre que la tapa o reixa es pugui obrir amb una eina d'us normal.
Les tapes o reixes metàl·liques, han de tenir la superfície superior antilliscant.
El disseny del conjunt ha de garantir la posició correcta de la tapa o reixa en relació amb el bastiment.
S'han de preveure dispositius que permetin garantir un desbloquejament de la tapa o reixa i la seva obertura.
En els dispositius de tancament de les classes A 15 a D 400 de formigó armat, les arestes i superfícies de contacte entre el bastiment i la tapa, han d'estar protegides amb una xapa de fosa o d'acer galvanitzat en calent.
Gruix mínim de fosa o d'acer:
- A 15: >= 2 mm
- B 125: >= 3 mm
- C 250: >= 5 mm
- D 400: >= 6 mm
- E 600 i F 900: A determinar en funció de cada disseny

Resistència característica a la compressió del formigó després de 28 dies:
- Classe B 15 a F 900: >= 40 N/mm2
- Classe A 15: >= 25 N/mm2
Gruix del recobriment de formigó de l'armadura d'acer: >= 20 mm
PERICONS TIPUS DF:
En el centre de la solera hi ha d'haver una bonera de 20x20 de costat i 10 cm de fondària. En la vora superior de la bonera hi ha d'haver un bastiment format per angulars de 40x4 cm, ancorat per gafes o patilles en el formigó de la solera. Sobre el bastiment s'hi ha de recolzar la reixeta de la bonera.
La solera ha de tenir un pendent de l'1% cap a la bonera.
Les utilitats d'aquest pericó poden ser: - Donar pas (amb empalmament en el seu cas) a cables que segueixin en la mateixa direcció o que canviïn de direcció en el pericó. En aquest últim cas el nombre de parells de cables no ha de ser superior a 400 per calibres 0,405, 300 per calibre 0,51, 150 per calibre 0,64 i 100 per calibre 0,9, si l'empalmament es múltiple, tampoc ha de superar aquests límits la suma dels parells dels cables en el costat ramificat de l'empalmament. - Donar accés a un pedestal d'armaris d'interconnexió - Donar pas, amb canvi de direcció, en el seu cas, a escomeses o grups d'escomeses
2.- CONDICIONS DE SUBMINISTRAMENT I EMMAGATZEMATGE
Subministrament: Amb les precaucions necessàries per que no s'alterin les seves característiques.
Emmagatzematge: En llocs protegits contra els impactes, en posició plana sobre superfícies planes.
3.- UNITAT I CRITERI D'AMIDAMENT
Unitat d'amidament: la indicada a la descripció de l'element
Criteri d'amidament: quantitat necessària subministrada a l'obra
4.- NORMATIVA DE COMPLIMENT OBLIGATORI
UNE-EN 124:1995 Dispositivos de cubrimiento y de cierre para zonas de circulación utilizadas por peatones y vehículos. Principios de construcción, ensayos de tipo, marcado, control de calidad.

BD MATERIALS PER A EVACUACIÓ, CANALITZACIÓ I VENTILACIÓ ESTÀTICA

BDK MATERIALS PER A PERICONS DE CANALITZACIONS

BDK5- BASTIMENT I TAPA DE FOSA DÚCTIL PER A REGISTRE

0.- ELEMENTS QUE CONTEMPLA EL PLEC

BDK5-1KHB.

1.- DEFINICIÓ I CONDICIONS DELS ELEMENTS
Dispositius de cobriment i tancament per a pous, pericons, embornals o interceptors i materials complementaris per a pous de registre.
S'han considerat els elements següents:
- Bastiment i tapa per a pous i pericons de registre de canalitzacions
S'han considerat els materials següents per a tapes i reixes
- Fosa gris
- Fosa dúctil
- Acer
BASTIMENT I TAPA O BASTIMENT I REIXA:
La peça ha de tenir la forma i els gruixos adequats per a suportar les càrregues del trànsit.
Els dispositius de cobriment i tancament utilitzats en zones de circulació de vianants i/o de vehicles, s'han de classificar segons la norma UNE-EN 124, en alguna de les classes següents:

- Classe A 15: Zones susceptibles de ser utilitzades només per vianants i ciclistes.
- Classe B 125: Voreres, zones de vianants i superfícies semblants, àrees d'estacionament i aparcaments de varis pisos per a cotxes.
- Classe C 250: Vorals i cunetes de carrers, que mesurada a partir de la vorada de la vorera s'extèn en un màxim de 0,5 m sobre la calçada i 0,2 m sobre la vorera
- Classe D 400: Calçades de carreteres (inclòs carrers de vianants), vorals estabilitzats i zones d'aparcament per a tot tipus de vehícles.
- Classe E 600: Zones per les que circul·len vehicles de gran tonelatje (paviments d'aeroports, molls, etc.).
- Classe F 900: Zones sotmeses a càrregues particularment elevades (paviments d'aeroports)

Tots els elements que formen el dispositiu han d'estar protegits contra la corrossió.
El dispositiu ha d'estar lliure de defectes que puguin perjudicar el seu bon estat per tal de ser utilitzat.
Les tapes o reixes metàl·liques, han de tenir la superfície superior antilliscant.
Quan estiguin combinat un metall amb el formigó, o qualsevol altre material, ambdós han de tenir una adherència satisfactoria.
Els dispositius han de ser compatibles amb els seus assentaments. El conjunt no ha de produir soroll al trepitjar-lo.
Les tapes o reixes han d'estar asegurades en la seva posició contra el desplaçament degut al trànsit amb una fondària d'encastament suficient o amb un dispositiu de tancament.
La tapa o reixa ha de quedar asegurada dins del bastiment per algún dels següents procediments:

- Amb un dispositiu de tanca
- Amb suficient massa superficial
- Amb una característica específica en el diseny

El disseny d'aquests procediments ha de permetre que la tapa o reixa es pugui obrir amb una eina d'us normal.
El disseny del conjunt ha de garantir la posició correcta de la tapa o reixa en relació amb el bastiment.
S'han de preveure dispositius que permetin garantir un desbloquejament de la tapa o reixa i la seva obertura.
La tapa o reixa ha de recolzar-se en el bastiment en tot el seu perímetre. La pressió del recolzament corresponent a la càrrega d'assaig no ha de superar els 7,5 N/mm2. El recolzament ha de contribuir a l'estabilitat de la reixa o tapa en condicions d'us.
L'alçària del bastiment dels dispositus de tancament de les classes D 400, E 600 i F 900, ha de ser com a mínim de 100 mm.
La superfície superior de les reixes, tapes i bastiment ha de ser plana, només les reixes de la classe D 400 poden tenir una superfície cóncava.
El pas lliure dels dispositius de tancament utilitzats com a pas d'home, s'han d'ajustar a les normes de seguretat en funció del lloc a on s'instal·lin. En general han de tenir un diàmetre mínim de 600 mm.
La franquicia total entre els diferents elements dels dispositius de cobriment i tancament, han de complir les especificacions següents:

- Un o dos elements: - Pas lliure <= 400 mm: =< 7 mm - Pas lliure > 400 mm: =< 9 mm
- Tres o més elements: - Franquícia del conjunt: <= 15 mm - Franquícia de cada element individual: <= 5 mm

Fondària d'encastament (classes D 400 a F 900): >= 50 mm
Toleràncies:

- Planor: ± 1% del pas lliure; <= 6 mm
- Dimensions: ± 1 mm
- Guerxament: ± 2 mm

Si el dispositiu de tancament te forats de ventilació, aquests han de complir les condicions següents:
Superfície de ventilació:

- Pas lliure <= 600 mm: >= 5% de la superfície d'un cercle, amb un diàmetre igual a la pas lliure
- Pas lliure > 600 mm: >= 140 cm2

Dimensions dels forats de ventilació:

- Ranures: - Llargària: <= 170 mm - Amplària: - Classes A 15 a B 125: 18-25 mm - Classes C 250 a F 900: 18-32 mm
- Forats: - Diàmetre: - Classes A 15 a B 125: 18-38 mm - Classes C 250 a F 900: 30-38 mm

BASTIMENT AMB REIXA O TAPA PRACTICABLE:
El conjunt ha d'obrir i tancar correctament.
Un cop tancada, la tapa o reixa ha de quedar enrasada amb el bastiment.
L'angle respecte a la horitzontal, de la reixa oberta, ha de ser com a mínim de 100°.

ELEMENTS AMB RECOBRIMENT DE PINTURA BITUMINOSA:
El recobriment de pintura bituminosa, ha de formar una capa contínua que ha de cobrir a l'element completament.
Ha de tenir un color, una lluentor i una textura uniformes.
La pintura ha d'estar ben adherida al suport, no ha de tenir bullofes, escrostonament, ni altres defectes superficials.
DISPOSITIUS DE FORMIGÓ ARMAT:
En els dispositius de tancament de les classes A 15 a D 400 de formigó armat, les arestes i superfícies de contacte entre el bastiment i la tapa, han d'estar protegides amb una xapa de fosa o d'acer galvanitzat en calent.
- A 15: >= 2 mm
- B 125: >= 3 mm
- C 250: >= 5 mm
- D 400: >= 6 mm
- E 600 i F 900: A determinar en funció de cada disseny

Gruix mínim de fosa o d'acer:
Resistència característica a la compressió del formigó després de 28 dies:
- Classe B 15 a F 900: >= 40 N/mm2
- Classe A 15: >= 25 N/mm2

Gruix del recobriment de formigó de l'armadura d'acer: >= 20 mm
ELEMENTS DE FOSA:
La fosa ha de ser gris, de grafit laminar (fosa gris normal, conforme a la norma UNE-EN 1561) o de grafit esferoïdal (fosa nodular o dúctil, conforme a la norma UNE-EN 1563).
Les peces han de ser netes, lliures de sorra solta, d'òxid o de qualsevol altre tipus de residu.
No ha de tenir defectes superficials (esquerdes, rebaves, bufaments, inclusions de sorra, gotes fredes, etc.).
2.- CONDICIONS DE SUBMINISTRAMENT I EMMAGATZEMATGE
BASTIMENT I TAPA O REIXA:
Subministrament: Embalats en caixes. Cada caixa ha de portar escrit el nombre de peces que conté i les seves dimensions.
Emmagatzematge: En posició horitzontal sobre superfícies planes i rígides per tal d'evitar deformacions o danys que alterin les seves característiques.
3.- UNITAT I CRITERI D'AMIDAMENT
Unitat d'amidament: la indicada a la descripció de l'element
Criteri d'amidament: quantitat necessària subministrada a l'obra
4.- NORMATIVA DE COMPLIMENT OBLIGATORI
BASTIMENT I TAPA O BASTIMENT I REIXA:
UNE-EN 124:1995 Dispositivos de cubrimiento y de cierre para zonas de circulación utilizadas por peatones y vehículos. Principios de construcción, ensayos de tipo, marcado, control de calidad.
5.- CONDICIONS DE CONTROL DE RECEPCIÓ
CONDICIONS DE MARCATGE I CONTROL DE LA DOCUMENTACIÓ:
La tapa o reixa i el bastiment han de tenir marcades de forma indeleble les indicacions següents:
- El codi de la norma UNE EN 124
- La classe segons la norma UNE EN 124
- El nom o sigles de fabricant i el lloc de fabricació
- Referència, marca o certificació si en tè

OPERACIONS DE CONTROL EN BASTIMENTS, TAPES I REIXES DE FOSA:
Les tasques de control a realitzar són les següents:
- Recepció del certificat de qualitat del fabricant, d'acord a les condicions del plec.

CRITERIS DE PRESA DE MOSTRES:
Les operacions de control s'han de realitzar segons les indicacions de la DF.
INTERPRETACIÓ DE RESULTATS I ACTUACIONS EN CAS D'INCOMPLIMENT:
No s'acceptarà l'ús de materials que no arribin acompanyats del corresponent certificat de qualitat del fabricant.
En cas de disconformitat d'un control geomètric o de pes, es rebutjarà la peça assajada i s'incrementarà el control, en primer lloc, fins al 20% de les peces, i en cas de seguir observant deficiències, fins al 100% del subministrament.

BD MATERIALS PER A EVACUACIÓ, CANALITZACIÓ I VENTILACIÓ ESTÀTICA

BDY ELEMENTS DE MUNTATGE PER A DESGUASSOS, BAIXANTS I COL·LECTORS

BDY1- ELEMENTS DE MUNTATGE PER A TUB DE PLANXA

0.- ELEMENTS QUE CONTEMPLA EL PLEC

BDY1-0LMJ.

1.- DEFINICIÓ I CONDICIONS DELS ELEMENTS
Conjunt d'accessoris (colzes, derivacions, reduccions, etc.) i d'elements especials (materials per a la unió entre tubs o entre tubs i accessoris) per a desguassos i baixants.
S'han considerat els elements següents:
- Accessoris i elements especials per a tubs de PVC-U de paret massissa
- Accessoris i elements especials per a tubs de PVC-U de paret estructurada
- Elements especials per a baixants de fosa grisa
- Elements especials per a baixants de planxa galvanitzada amb unió plegada

CARACTERÍSTIQUES GENERALS:
El material, la seva qualitat i les característiques físiques, mecàniques i dimensionals, han de ser compatibles amb les del tub, i no han de fer disminuir les d'aquest en cap de les seves aplicacions.

2.- CONDICIONS DE SUBMINISTRAMENT I EMMAGATZEMATGE
Subministrament: A l'albarà de lliurament han de constar les característiques d'identificació següents:
- Material
- Tipus
- Diàmetres

Emmagatzematge: En llocs protegits contra els impactes, la pluja, les humitats i dels raigs del sol.

3.- UNITAT I CRITERI D'AMIDAMENT
Unitat composada pel conjunt de peces necessàries per a muntar 1 m de tub.

4.- NORMATIVA DE COMPLIMENT OBLIGATORI
PVC-U PARET ESTRUCTURADA:
* UNE-EN 1453-1:2000 Sistemas de canalización en materiales plásticos con tubos de pared estructurada para evacuación de aguas residuales (a baja y a alta temperatura) en el interior de la estructura de los edificios. Poli(cloruro de vinilo) no plastificado (PVC-U). Parte 1: Requisitos para los tubos y el sistema.

PVC-U DE PARET MASSISSA:
* UNE-EN 1329-1:1999 Sistemas de canalización en materiales plásticos para evacuación de aguas residuales (a baja y a alta temperatura) en el interior de la estructura de los edificios. Poli(cloruro de vinilo) no plastificado (PVC-U). Parte 1: Especificaciones para tubos, accesorios y el sistema.
* UNE-EN 1401-1:1998 Sistemas de canalización en materiales plásticos para saneamiento enterrado sin presión. Poli(cloruro de vinilo) no plastificado (PVC-U). Parte 1: Especificaciones para tubos, accesorios y el sistema.
* UNE-EN 1456-1:2002 Sistemas de canalización en materiales plásticos para saneamiento enterrado o aéreo con presión. Poli(cloruro de vinilo) no plastificado (PVC-U). Parte 1: Especificaciones para tubos, accesorios y el sistema.

FOSA GRISA, PLANXA GALVANITZADA I PLOM:
No hi ha normativa de compliment obligatori.

BG MATERIALS PER A INSTAL·LACIONS ELÈCTRIQUES

BG2 TUBS, CANALS, SAFATES I COLUMNES PER A MECANISMES

BG2Q- TUB FLEXIBLE PER A PROTECCIÓ DE CONDUCTORS ELÈCTRICS DE MATERIAL PLÀSTIC

0.- ELEMENTS QUE CONTEMPLA EL PLEC

BG2Q-1KTJ,BG2Q-1KTE.

1.- DEFINICIÓ I CONDICIONS DELS ELEMENTS
Tub flexible no metàl·lic de fins a 250 mm de diàmetre nominal.
Es consideraran els següents tipus de tubs:
- Tubs de PVC corrugats
- Tubs de PVC folrats, de dues capes, semillisa l'exterior i corrugada la interior
- Tubs de material lliure d'halògens
- Tubs de polipropilè
- Tubs de polietilè de dues capes, corrugada l'exterior i llisa la interior
CARACTERÍSTIQUES GENERALS:
Han d'estar dissenyats i construïts de manera que les seves característiques en ús normal siguin segures i sense perill per a l'usuari i el seu entorn.
L'interior dels tubs ha d'estar exempt de rebaves i altres defectes que pugin fer malbé els conductors o ferir a instal·ladors o usuaris.
El diàmetre nominal ha de ser el de l'exterior del tub i s'ha d'expressar en milímetres.
El diàmetre interior mínim l'ha de declarar el fabricant.
Les dimensions han de cumplir la norma EN-60423.
2.- CONDICIONS DE SUBMINISTRAMENT I EMMAGATZEMATGE
Subministrament: En rotlles.
Emmagatzematge: En llocs protegits contra els impactes i contra la pluja.
3.- UNITAT I CRITERI D'AMIDAMENT
Unitat d'amidament: la indicada a la descripció de l'element
Criteri d'amidament: quantitat necessària subministrada a l'obra
4.- NORMATIVA DE COMPLIMENT OBLIGATORI
Real Decreto 842/2002 de 2 de agosto, por el que se aprueba el Reglamento Electrotécnico de Baja Tensión. REBT 2002.
UNE-EN 50086-1:1995 Sistemas de tubos para la conducción de cables. Parte 1: Requisitos generales.
UNE-EN 60423:1996 Tubos de protección de conductores. Diámetros exteriores de los tubos para instalaciones eléctricas y roscas para tubos y accesorios.
5.- CONDICIONS DE CONTROL DE RECEPCIÓ
CONDICIONS DE MARCATGE I CONTROL DE LA DOCUMENTACIÓ:
Han d'estar marcats amb:
- Nom del fabricant
- Marca d'identificació dels productes
- El marcatge ha de ser llegible
- Han d'incloure les instruccions de muntatge corresponents
OPERACIONS DE CONTROL EN CANALITZACIONS I ACCESORIS:
Les tasques de control de qualitat de Canalitzacions i Accessoris, són les següents:
- Sol·licitar del fabricant els certificats dels materials emprats i verificar l'adequació als requisits del projecte.
- Control de la documentació tècnica subministrada
- Control d'identificació dels materials i lloc d'emplaçament (alçada, distàncies, capacitat)
- Realització i emissió d'informes amb resultats dels assaigs
- Assaigs: - Propagació de la flama segons norma R.E.B.T / UNE-EN 50085-1 / UNE-EN 50086-1 - Instal·lació i posada a l'obra segons norma R.E.B.T / UNE 20.460 - Verificació de l'aspecte superficial segons norma projecte/ UNE-EN ISO 1461
CRITERIS DE PRESA DE MOSTRES EN CANALITZACIONS I ACCESSORIS:
Es realitzaran els assaigs a la recepció dels materials, verificant tot el traçat de la instal·lació de safates i aleatòriament un tub de cada mida instal·lat a obra ja sigui rígid, flexible o soterrat.
INTERPRETACIÓ DE RESULTATS I ACTUACIONS EN CAS D'INCOMPLIMENT EN CANALITZACIONS I ACCESSORIS:
Segons criteri de la DF, podrà ser acceptat o rebutjat tot o part del material de la partida.
OPERACIONS DE CONTROL EN TUBS DE PVC PER A CANALITZACIONS DE SERVEIS:

Les tasques de control a realitzar són les següents:
- En cada subministrament: - Inspecció visual de l'aspecte general dels tubs i elements d'unió. - Comprovació de les dades de subministrament exigides (marques, albarà o etiquetes). - Recepció del certificat de qualitat del fabricant, d'acord a les condicions del plec. - Comprovació dimensional (3 mostres).
- Per a cada tub de les mateixes característiques, es realitzaran els següents assaigs (UNE EN 50086-1): - Resistència a compressió - Impacte - Assaig de corbat - Resistència a la propagació de la flama - Resistència al calor - Grau de protecció - Resistència a l'atac químic
En cas que el material disposi de la Marca AENOR, o una altra legalment reconeguda a un país de l'UE, s'ha de poder prescindir dels assaigs de control de recepció. La DF ha de sol·licitar, en aquest cas, els resultats dels assaigs corresponents al subministrament rebut, segons control de producció establert a la marca de qualitat del producte.
CRITERIS DE PRESA DE MOSTRES EN TUBS DE PVC PER A CANALITZACIONS DE SERVEIS:
Es seguiran les instruccions de la DF i els criteris indicats a les normes UNE EN 50086-1 i UNE EN 50086-2-4, juntament a les normes de procediment de cada assaig concret.
INTERPRETACIÓ DE RESULTATS I ACTUACIONS EN CAS D'INCOMPLIMENT EN TUBS DE PVC PER A CANALITZACIONS DE SERVEIS:
No s'acceptaran materials que no arribin a l'obra correctament referenciats i acompanyats del corresponent certificat de qualitat del fabricant.
Es rebutjaran els subministres que no superin les condicions de la inspecció visual o les comprovacions geomètriques.
Es compliran les condicions dels assaigs d'identificació segons la norma UNE EN 50086-1 i UNE EN 50086-2-4.

BG MATERIALS PER A INSTAL·LACIONS ELÈCTRIQUES

BG3 CABLES ELÈCTRICS PER A TENSIÓ BAIXA I SISTEMES DE DISTRIBUCIÓ ELÈCTRICA

BG33- CABLE DE COURE DE 0,6/1 KV

0.- ELEMENTS QUE CONTEMPLA EL PLEC

BG33-G2RM,BG33-G2RB.

1.- DEFINICIÓ I CONDICIONS DELS ELEMENTS
Cable elèctric destinat a sistemes de distribució en tensió baixa i instal·lacions en general, per a serveis fixes, amb conductor de coure i de tensió assignada 0,6/1kV.
S'han considerat els tipus de cables següents:
- Cables unipolars o multipolars de designació RV, aïllament amb polietilè reticulat i coberta de policlorur de vinil, sense armadura ni pantalla i amb conductor de coure, construcció segons norma UNE 21123-2, amb una classificació de resistència al foc Eca segons UNE-EN 50575
- Cables unipolars o multipolars de designació RV-K, aïllament amb polietilè reticulat i coberta de policlorur de vinil, sense armadura ni pantalla i amb conductor de coure flexible, construcció segons norma UNE 21123-2, amb una classificació de resistència al foc Eca segons UNE-EN 50575
- Cables multipolars de designació RVFV-K, aïllament amb polietilè reticulat i coberta de policlorur de vinil, armadura amb fleix d'acer i amb conductor de coure flexible, construcció segons norma UNE 21123-2, amb una classificació de resistència al foc Eca segons UNE-EN 50575
- Cables unipolars o multipolars de designació RZ1-K (AS), aïllament amb polietilè reticulat i coberta de poliolefina, sense armadura ni pantalla i amb conductor de coure flexible, construcció segons norma UNE 21123-4, amb una classificació de resistència al foc Cca-s1b,d1,a1 segons UNE-EN 50575

- Cables unipolars o multipolars de designació RZ1-K (AS+), amb resistència intrínseca al foc, aïllament amb polietilè reticulat i coberta de poliolefina, sense armadura ni pantalla i amb conductor de coure flexible, construcció segons norma UNE 211025, amb una classificació de resistència al foc Cca-s1b,d1,a1 segons UNE-EN 50575
- Cables unipolars o multipolars de designació SZ1-K (AS+), amb resistència intrínseca al foc, aïllament amb compost de silicona i coberta de poliolefina, sense armadura ni pantalla i amb conductor de coure flexible, construcció segons norma UNE 211025, amb una classificació de resistència al foc Cca-s1b,d1,a1 segons UNE-EN 50575
- Cables multipolars de designació RZ, coberta aïllant de polietilè reticulat i amb conductors de coure cablejats en feix, construcció segons norma UNE 21030-2, amb una classificació de resistència al foc Fca segons UNE-EN 50575
- Cables unipolars de designació ZZ-F, amb una classificació de resistència al foc Eca segons UNE-EN 50575

CARACTERÍSTIQUES GENERALS:

En el cas de que el material s'utilitzi en obra pública, l'acord de Govern de la Generalitat de Catalunya de 9 de juny de 1998, exigeix que els materials siguin de qualitat certificada o puguin acreditar un nivell de qualitat equivalent, segons les normes aplicables als estats membres de la Unió Europea o de l'Associació Europea de Lliure Canvi.

També en aquest cas, es procurarà que els esmentats materials disposin de l'etiqueta ecològica europea, regulada en el Reglament (CE) n° 66/2010 o bé altres distintius de la Comunitat Europea.

Destinats a incorporar-se de forma permanent en obres de construcció han de complir el Reglament de productes per a la construcció (UE) n° 305/2011 i el seu Reglament Delegat (UE) 2016/364 sobre la classificació de les propietats de reacció al foc.

La coberta no ha de tenir variacions en el gruix ni d'altres defectes visibles a la seva superfície. Ha de ser resistent a l'abrasió.

Ha de quedar ajustada i s'ha de poder separar fàcilment sense produir danys a l'aïllament.

La forma exterior dels cables multipolars (reunits sota una coberta única) ha de ser raonablement cilíndrica.

L'aïllament no ha de tenir variacions del gruix ni d'altres defectes visibles a la seva superfície.

Ha de quedar ajustat i s'ha de poder separar fàcilment sense produir danys al conductor.

La designació dels cables ha de complir les especificacions de la norma UNE 20434.

La classificació de reacció al foc s'expressarà d'acord amb el Reglament Delegat (UE) 2016/364 i la UNE-EN 13501-6 amb un codi de quatre dígits segons el següent format:

Classe de reacció al foc:
- Dígit 1, prestacions de propagació del foc i emissió de calor: Aca, B1ca, B2ca, Cca, Dca, Eca i Fca (classes enumerades de més a menys prestacions)

Classes addicionals (només per a les classes B1ca, B2ca, Cca i Dca):
- Dígit 2, prestacions d'emissió de fums: s1a, s1b, s1, s2 i s3 (de més a menys prestacions)
- Dígit 3, prestacions de caiguda de gotes/partícules inflamades: d0, d1 i d2 (de més a menys prestacions)
- Dígit 4, prestacions d'acidesa: a1, a2 i a3 (de més a menys prestacions)

Les característiques físiques i mecàniques del conductor han de complir la norma UNE-EN 60228.

Els colors utilitzats per a l'aïllament han de complir la norma UNE 21089-1:
- Cables unipolars: - Com a conductor de fase: Marró, negre o gris - Com a conductor neutre: Blau - Com a conductor de terra: Llistat de groc i verd
- Cables bipolars: Blau i marró
- Cables tripolars: - Cables amb conductor de terra: Fase: Marró, Neutre: Blau, Terra: Llistat de groc i verd - Cables sense conductor de terra: Fase: Negre, marró i gris
- Cables tetrapolars: - Cables amb conductor de terra: Fase: Marró, negre i gris, Terra: Llistat de groc i verd - Cables sense conductor de terra: Fase: Marró, negre i gris, Neutre: Blau
- Cables pentapolars: Fase: Marró, negre i gris, Neutre: Blau, Terra: Llistat de groc i verd

Les característiques següents han de complir amb els valors declarats pel fabricant, assajades segons la norma corresponent, dins del límit de tolerància indicat, en el seu cas:
- Característiques essencials: - Reacció al foc: - Classe Aca (UNE-EN ISO 1716) - Classe B1ca, B2ca, Cca i Dca (UNE-EN 50399, UNE-EN 60332-1-2, UNE-EN 61034-2, UNE-EN 60754-2) - Classe Eca (UNE-EN 60332-1-2) - Classe Fca (comportament no determinat) - Emissió de substàncies perilloses (verificació i declaració segons disposicions nacionals en el lloc d'utilització)

Gruix de l'aïllant del conductor (UNE-HD-603-1):

Secció (mm2)	25	50	95	150	240
Gruix (mm)	0,9	1,0	1,1	1,4	1,7

Gruix de la coberta: Ha de complir les especificacions de la norma UNE-HD 603-1
Temperatura de l'aïllament en servei normal: <= 90°C
Temperatura de l'aïllament en curtcircuit (5 s màx): <= 250°C
Tensió màxima admissible (c.a.):
- Entre conductors aïllats: <= 1 kV
- Entre conductors aïllats i terra: <= 0,6 kV
Toleràncies:
- Gruix de l'aïllament (UNE-HD 603-1): >= valor especificat - (0,1 mm + 10% del valor especificat)
CABLES DE DESIGNACIÓ RV, RV-K i RVFV-K:
Característiques de reacció al foc:
- Propagació de la flama (UNE-EN 60332-1-2): No propagador de la flama
El conductor ha de complir les següents prescripcions segons la norma UNE-EN 60228:
- Cable RV: prescripcions de la classe 1 o 2
- Cable RV-K i RVFV-K: prescripcions de la classe 5
L'aïllament ha de ser de polietilé reticulat (XLPE) tipus DIX-3 segons UNE HD-603-1.
La coberta ha de ser de policlorur de vinil (PVC) del tipus DMV-18 segons UNE HD-603-1.
CABLES DE DESIGNACIÓ RZ1-K (AS):
Característiques de reacció al foc:
- Material lliure d'halògens segons UNE-EN 60754-1
- Propagació de la flama (UNE-EN 60332-1-2): No propagador de la flama
- Propagació de l'incendi (UNE-EN 60332-3-24): No propagador de l'incendi
- Emissió de fums opacs (UNE-EN 61034-2): Baixa emissió de fums opacs
- Emissió de fums corrosius (UNE-EN 60754-2): Baixa emissió de fums corrosius
El conductor ha de complir les prescripcions de la classe 5 segons la norma UNE-EN 60228:
L'aïllament ha de ser de polietilé reticulat (XLPE) tipus DIX-3 segons UNE HD-603-1.
La coberta ha de ser de poliolefina, del tipus DMZ-E segons la norma UNE 21123-4.
CABLES DE DESIGNACIÓ RZ1-K (AS+) i SZ1-K (AS+):
Característiques de reacció al foc:
Material lliure d'halògens segons UNE-EN 60754-1
Propagació de la flama (UNE-EN 60332-1-2): No propagador de la flama
Propagació de l'incendi (UNE-EN 60332-3-24): No propagador de l'incendi
Emissió de fums opacs (UNE-EN 61034-2): Baixa emissió de fums opacs
Emissió de fums corrosius (UNE-EN 60754-2): Baixa emissió de fums corrosius
El conductor ha de complir les prescripcions de la classe 5 segons la norma UNE-EN 60228:
L'aïllament ha de cumplir el següent
- Cable RZ1-K (AS+): ha de ser de polietilè reticulat i ha de correspondre al tipus DIX-3 segons la norma UNE HD-603-1, amb cinta addicional de mica
- Cable SZ1-K (AS+): ha de ser de compost de silicona i ha de correspondre al tipus EI2 segons la norma UNE-EN 50363-1
La coberta ha de ser de poliolefina, del tipus DMZ-E segons la norma UNE 21123-4.
CABLES DE DESIGNACIÓ RZ:
El conductor ha de complir les prescripcions de la classe 2 segons la norma UNE-EN 60228:
CABLES DE DESIGNACIÓ ZZ-F:
Característiques de reacció al foc:
- Material lliure d'halògens segons UNE-EN 60754-1
- Propagació de la flama (UNE-EN 60332-1-2): No propagador de la flama
- Propagació de l'incendi (UNE-EN 60332-3-24): No propagador de l'incendi
- Emissió de fums opacs (UNE-EN 61034-2): Baixa emissió de fums opacs
- Emissió de fums corrosius (UNE-EN 60754-2): Baixa emissió de fums corrosius
El conductor ha de complir les prescripcions de la classe 5 segons la norma UNE-EN 60228:
L'aïllament ha de ser de goma i ha de correspondre al tipus EI6 segons la norma UNE-EN 50363-1
La coberta ha de ser de material lliure d'halògens, del tipus EM5 segons la norma UNE-EN 50363-2-2 o del tipus EM8 segons UNE-EN 50363-6.
2.- CONDICIONS DE SUBMINISTRAMENT I EMMAGATZEMATGE
Subministrament: En bobines.
Emmagatzematge: En llocs protegits de la pluja i la humitat.
3.- UNITAT I CRITERI D'AMIDAMENT
Unitat d'amidament: la indicada a la descripció de l'element
Criteri d'amidament: quantitat necessària subministrada a l'obra
4.- NORMATIVA DE COMPLIMENT OBLIGATORI

NORMATIVA GENERAL:
Real Decreto 842/2002 de 2 de agosto, por el que se aprueba el Reglamento Electrotécnico de Baja Tensión. REBT 2002.
UNE-EN 50575:2015 Cables de energía, control y comunicación. Cables para aplicaciones generales en construcciones sujetos a requisitos de reacción al fuego.
UNE-EN 50575:2015/A1:2016 Cables de energía, control y comunicación. Cables para aplicaciones generales en construcciones sujetos a requisitos de reacción al fuego.
UNE-HD 603-1:2007 Cables de distribución de tensión asignada 0,6/1 kV. Parte 1: Requisitos generales.
Reglamento Delegado (UE) 2016/364 de la Comisión, de 1 de julio de 2015, relativo a la clasificación de las propiedades de reacción al fuego de los productos de construcción de conformidad con el Reglamento (UE) nº 305/2011 del Parlamento Europeo y del Consejo.
UNE 20434:1999 Sistema de designación de los cables.
UNE-EN 13501-6:2015 Clasificación en función del comportamiento frente al fuego de los productos de construcción y elementos para la edificación. Parte 6: Clasificación a partir de datos obtenidos en ensayos de reacción al fuego de cables eléctricos.
* UNE 21089-1:2002 Identificación de los conductores aislados de los cables.
* UNE-EN 60228:2005 Conductores de cables aislados.
CABLES DE DESIGNACIÓ RV, RV-K i RVFV-K:
UNE 21123-2:2017 Cables eléctricos de utilización industrial de tensión asignada 0,6/1 kV. Parte 2: Cables con aislamiento de polietileno reticulado y cubierta de policloruro de vinilo.
CABLES DE DESIGNACIÓ RZ1-K (AS):
UNE 21123-4:2017 Cables eléctricos de utilización industrial de tensión asignada 0,6/1 kV. Parte 4: Cables con aislamiento de polietileno reticulado y cubierta de poliolefina.
CABLES DE DESIGNACIÓ RZ1-K (AS+) i SZ1-K (AS+):
UNE 211025:2017 Cables con resistencia intrínseca al fuego destinados a circuitos de seguridad.
CABLES DE DESIGNACIÓ RZ:
UNE 21030-2:2003 Conductores aislados, cableados en haz, de tensión asignada 0,6/1 kV, para líneas de distribución, acometidas y usos análogos. Parte 2: Conductores de cobre.
5.- CONDICIONS DE CONTROL DE RECEPCIÓ
CONDICIONS DE MARCATGE I CONTROL DE LA DOCUMENTACIÓ:
El subministrador ha de posar a disposició de la DF en el cas que aquesta ho sol·liciti, la documentació següent, que acredita el marcatge CE, segons el sistema d'avaluació de conformitat aplicable, d'acord amb el que disposa l'apartat 7.2.1 del CTE:
- Productes per a usos subjectes a reglamentacions sobre reacció al foc amb nivell o classe Aca, B1ca, B2ca, Cca: - Sistema 1+: Declaració de Prestacions
- Productes per a usos subjectes a reglamentacions sobre reacció al foc amb nivell o classe Dca, Eca: - Sistema 3: Declaració de prestacions
- Productes per a usos subjectes a reglamentacions sobre reacció al foc amb nivell o classe Fca: - Sistema 4: Declaració de prestacions
- Productes per a usos subjectes a reglamentacions sobre substàncies perilloses: - Sistema 3: Declaració de prestacions
El cable ha d'anar marcat amb les dades següents:
- Identificació consistent en la marca del nom del fabricant o marca comercial
- Descripció del producte o codi de designació
- Classe de reacció al foc
El marcatge s'ha de fer sobre el cable, l'embalatge o l'etiqueta o en una combinació dels anteriors.
El marcatge sobre la coberta o aïllament del cable ha de ser continu. La distància entre el final del marcatge i el principi del següent no ha de superar els 1100 mm.
El símbol de marcatge CE estarà fixat de manera visible, llegible i indeleble en una etiqueta fixada sobre l'embalatge dels cables.
El marcat i etiquetatge CE ha d'incloure la informació següent:
- Símbol del marcatge CE
- Els dos últims dígits de l'any en què es va fixar el marcat per primera vegada
- Nom i direcció registrada del fabricant o marca identificativa
- Codi únic d'identificació del producte tipus
- Número de referència de la declaració de prestacions
- Nivell o classe de prestacions declarat
- Data de l'especificació tècnica harmonitzada aplicable
- Número d'identificació de l'organisme notificat
- Ús previst, segons s'especifica a la norma harmonitzada aplicable
OPERACIONS DE CONTROL:
Les tasques de control a realitzar són les següents:
- Sol·licitar del fabricant els certificats i homologacions dels conductors i protocols de proves.

- Control de la documentació tècnica subministrada.
- Verificar l'adequació dels conductors als requisits dels projecte
- Control final d'identificació
- Realització i emissió d'informe amb resultats dels assaigs realitzats d'acord al que s'especifica en la taula d'assaigs i de quantificació dels mateixos.
- Assaigs:

A la relació següent s'especifiquen els controls a efectuar a la recepció de conductors de coure o alumini i les normes aplicables en cada cas: - Rigidesa dielèctrica (REBT) - Resistència d'aïllament (REBT) - Resistència elèctrica dels conductors (UNE 20003 / UNE 21022/1M) - Control dimensional (Documentació del fabricant) - Extinció de flama (UNE-EN 50266) - Densitat de fums UNE-EN 50268 / UNE 21123) - Despreniment d'halògens (UNE-EN 50267-2-1 / UNE 21123 / UNE 2110022)

A la següent taula s'especifica el nombre de controls a efectuar. Els assaigs especificats (*) seran exigibles segons criteri de la DF quan les exigències del lloc ho determini i les característiques dels conductors corresponguin a l'assaig especificat.

- Rigidesa dielèctrica: 100% (exigit al fabricant) - Resistència d'aïllament: 100% (exigit al fabricant) - Resistència elèctrica: 100% (exigit al fabricant) - Extinció de flama: 1 assaig per tipus (*) (exigit al fabricant) i 1 assaig per tipus (*) (exigit a recepció) - Densitat de fums: 1 assaig per tipus (*) (exigit al fabricant) i 1 assaig per tipus (*) (exigit a recepció) - Despreniment d'halògens: 1 assaig per tipus (*) (exigit al fabricant) i 1 assaig per tipus (*) (exigit a recepció)

Per tipus s'entén aquells conductors amb característiques iguals.

Els assaigs exigits a recepció podran ésser els realitzats pel fabricant sempre que hi hagi una supervisió per part de la DF o empresa especialitzada.

CRITERIS DE PRESA DE MOSTRES:

Per a la realització dels assaigs, s'escollirà aleatòriament una bovina del lot d'entrega, a excepció dels assaigs de rutina que es realitzaran a totes les bobines.

INTERPRETACIÓ DE RESULTATS I ACTUACIONS EN CAS D'INCOMPLIMENT:

Es realitzarà un control extensiu de la partida objecte de control, i segons criteri de la DF, podrà ésser acceptada o rebutjada tota o part del material que la composa.

BG MATERIALS PER A INSTAL·LACIONS ELÈCTRIQUES

BG3 CABLES ELÈCTRICS PER A TENSIÓ BAIXA I SISTEMES DE DISTRIBUCIÓ ELÈCTRICA

BG3I- CONDUCTOR DE COURE NU

0.- ELEMENTS QUE CONTEMPLA EL PLEC

BG3I-06W3.

1.- DEFINICIÓ I CONDICIONS DELS ELEMENTS

Conductor de coure electrolític cru i nu per a connexió de terra, unipolar de fins a 240 mm2 de secció.

CARACTERÍSTIQUES GENERALS:

En el cas de que el material s'utilitzi en obra pública, l'acord de Govern de la Generalitat de Catalunya de 9 de juny de 1998, exigeix que els materials siguin de qualitat certificada o puguin acreditar un nivell de qualitat equivalent, segons les normes aplicables als estats membres de la Unió Europea o de l'Associació Europea de Lliure Canvi.

També en aquest cas, es procurarà que els esmentats materials disposin de l'etiqueta ecològica europea, regulada en el Reglament (CE) nº 66/2010 o bé altres distintius de la Comunitat Europea.

Tots els fils de coure que formen l'ànima han de tenir el mateix diàmetre.

Ha de tenir una textura exterior uniforme i sense defectes.

2.- CONDICIONS DE SUBMINISTRAMENT I EMMAGATZEMATGE

Subministrament: En bobines o tambors.
Emmagatzematge: En llocs protegits de la pluja i la humitat.
3.- UNITAT I CRITERI D'AMIDAMENT
Unitat d'amidament: la indicada a la descripció de l'element
Criteri d'amidament: quantitat necessària subministrada a l'obra
4.- NORMATIVA DE COMPLIMENT OBLIGATORI
Real Decreto 842/2002 de 2 de agosto, por el que se aprueba el Reglamento Electrotécnico de Baja Tensión. REBT 2002.
UNE 21012:1971 Cables de cobre para líneas eléctricas aéreas. Especificación.
UNE 20460-5-54:1990 Instalaciones eléctricas en edificios. Elección e instalación de los materiales eléctricos. Puesta a tierra y conductores de protección.
5.- CONDICIONS DE CONTROL DE RECEPCIÓ
CONDICIONS DE MARCATGE I CONTROL DE LA DOCUMENTACIÓ:
Cada conductor ha de portar de forma indeleble i ben visible les dades següents:
- Material, secció, llargària i pes del conductor
- Nom del fabricant o marca comercial
- Data de fabricació
OPERACIONS DE CONTROL:
Les tasques de control a realitzar són les següents:
- Sol·licitar al fabricant els certificats de característiques tècniques i homologacions dels materials.
- Control de la documentació tècnica subministrada.
- Verificar que les característiques dels elèctrodes es corresponguin a l'especificat en Projecte.
- Verificar que la profunditat de la xarxa mai sigui inferior a 0,5 metres.
- Verificar seccions de conductors de terra segons la taula 1 del ITC-BT- 018 del REBT.
- Realització i emissió d'informes amb resultats de controls i proves realitzats.
CRITERIS DE PRESA DE MOSTRES:
Es realitzarà mesura al pont de comprovació o caixa de seccionament de terres.
INTERPRETACIÓ DE RESULTATS I ACTUACIONS EN CAS D'INCOMPLIMENT:
No s'admetran seccions de conductors i elèctrodes de posada a terra inferiors als indicats al REBT.
En discrepàncies del tipus de posada a terra amb l'especificat al projecte, s'actuarà segons criteri de la DF.

BG MATERIALS PER A INSTAL·LACIONS ELÈCTRIQUES

BGD MATERIALS PER A INSTAL·LACIONS DE CONNEXIÓ A TERRA I PROTECCIÓ CATÒDICA

BGD2- PLACA DE CONNEXIÓ A TERRA

0.- ELEMENTS QUE CONTEMPLA EL PLEC

BGD2-06US.

1.- DEFINICIÓ I CONDICIONS DELS ELEMENTS
Placa de connexió a terra de coure en forma d'estel (calada) o d'acer en forma d'estel (massissa) o quadrada (massissa) de fins a 1 m2 de superfície i de 2 mm, 2,5 mm, 3 mm o 4 mm de gruix.
CARACTERÍSTIQUES GENERALS:
Ha de formar l'elèctrode del circuit de connexió a terra.
Ha de disposar d'un dispositiu per a fixar sòlidament el cable de la línea de terra, mitjançant una placa i un vis; aquest cable ha de tenir una secció mínima de 35 mm2.
ACER:
La placa ha d'estar protegida per galvanització en calent. Aquesta ha de complir les especificacions de l'UNE-EN ISO 1461.

El recobriment ha de ser llis, no ha de mostrar cap discontinuitat en la capa de zinc, no ha de tenir taques, inclusions de fluxe, cendres o motes, apreciables a simple vista.
La superfície especificada es considera com a superfície útil de la placa.
Toleràncies:
Gruix: - 0,1 mm
- Superfície útil: - 0,01 m2
2.- CONDICIONS DE SUBMINISTRAMENT I EMMAGATZEMATGE
Subministrament: Per unitats, empaquetades en caixes.
Emmagatzematge: En el seu embalatge, protegida contra els impactes.
3.- UNITAT I CRITERI D'AMIDAMENT
Unitat d'amidament: la indicada a la descripció de l'element
Criteri d'amidament: quantitat necessària subministrada a l'obra
4.- NORMATIVA DE COMPLIMENT OBLIGATORI
Real Decreto 842/2002 de 2 de agosto, por el que se aprueba el Reglamento Electrotécnico de Baja Tensión. REBT 2002.
UNE-EN ISO 1461:1999 Recubrimientos galvanizados en caliente sobre productos acabados de hierro y acero. Especificaciones y métodos de ensayo. (ISO 1461:1999).
5.- CONDICIONS DE CONTROL DE RECEPCIÓ
OPERACIONS DE CONTROL:
Les tasques de control a realitzar són les següents:
- Control de la documentació tècnica subministrada.
- Verificar que les característiques dels elèctrodes es corresponguin a l'especificat en Projecte.
- Verificar que la profunditat de la xarxa mai sigui inferior a 0,5 metres.
- Verificar seccions de conductors de terra segons la taula 1 del ITC-BT- 018 del REBT.
- Realització i emissió d'informes amb resultats de controls i proves realitzats.
CRITERIS DE PRESA DE MOSTRES:
Es realitzarà mesura al pont de comprovació o caixa de seccionament de terres.
INTERPRETACIÓ DE RESULTATS I ACTUACIONS EN CAS D'INCOMPLIMENT:
No s'admetran seccions de conductors i elèctrodes de posada a terra inferiors als indicats al REBT.
En discrepàncies del tipus de posada a terra amb l'especificat al projecte, s'actuarà segons criteri de la DF.

BG MATERIALS PER A INSTAL·LACIONS ELÈCTRIQUES

BGY PARTS PROPORCIONALS D'ELEMENTS ESPECIALS PER A INSTAL·LACIONS ELÈCTRIQUES

BGYD- PART PROPORCIONAL D'ELEMENTS ESPECIALS PER A ELEMENTS DE CONNEXIÓ A TERRA

0.- ELEMENTS QUE CONTEMPLA EL PLEC

BGYD-0B2X.

1.- DEFINICIÓ I CONDICIONS DELS ELEMENTS
Part proporcional d'elements especials per a piquetes o per a plaques de connexió a terra.
CARACTERÍSTIQUES GENERALS:
El material i les seves característiques han de ser adequats per a piques de connexió a terra o per a plaques de connexió a terra, i no han de fer disminuir, en cap cas, la seva qualitat i bon funcionament.
2.- CONDICIONS DE SUBMINISTRAMENT I EMMAGATZEMATGE
Subministrament: A l'albarà de lliurament han de constar les característiques d'identificació següents:
- Material
- Tipus

- Diàmetre o d'altres dimensions
Emmagatzematge: En llocs protegits contra els impactes, la pluja, les humitats i dels raigs del sol.
3.- UNITAT I CRITERI D'AMIDAMENT
Unitat composada pel conjunt d'elements especials necessaris per al muntatge d'una pica de connexió a terra, o d'una placa de connexió a terra.
4.- NORMATIVA DE COMPLIMENT OBLIGATORI
No hi ha normativa de compliment obligatori.

BH MATERIALS PER A INSTAL·LACIONS D'ENLLUMENAT

BHW PARTS PROPORCIONALS D'ACCESSORIS PER A INSTAL·LACIONS D'ENLLUMENAT

BHW8- PART PROPORCIONAL D'ACCESSORIS PER A ELEMENTS DE SUPORT DE LLUMS EXTERIORS

0.- ELEMENTS QUE CONTEMPLA EL PLEC

BHW8-06IY.

1.- DEFINICIÓ I CONDICIONS DELS ELEMENTS
Part proporcional d'accessoris per a muntar lluminàries, carrils de suport per a llums, projectors o elements de control, regulació o encesa d'instal·lacions d'il·luminació.
CARACTERÍSTIQUES GENERALS:
El material, la qualitat, les dimensions, etc. han de ser adequats per a les lluminàries, i no han de fer disminuir les característiques pròpies del conjunt de la instal·lació en cap de les seves aplicacions.
2.- CONDICIONS DE SUBMINISTRAMENT I EMMAGATZEMATGE
Subministrament: A l'albarà de lliurament han de constar les característiques d'identificació següents:
- Material
- Tipus
- Dimensions en cm
Emmagatzematge: En llocs protegits contra els impactes, la pluja, les humitats i dels raigs del sol.
3.- UNITAT I CRITERI D'AMIDAMENT
Unitat composada pel conjunt d'accessoris necessaris per instal·lar un llum.
4.- NORMATIVA DE COMPLIMENT OBLIGATORI
No hi ha normativa de compliment obligatori.

B0 MATERIALS BÀSICS

B07 MORTERS DE COMPRA

B07F- MORTER SENSE ADDITIUS

0.- ELEMENTS QUE CONTEMPLA EL PLEC

B07F-0LT6.

1.- DEFINICIÓ I CONDICIONS DELS ELEMENTS
Mescla feta amb sorra, ciment, aigua i calç si és el cas.
CARACTERÍSTIQUES GENERALS:
Tipus de ciment:
- Ciments comuns excepte els tipus CEM II/A

- Ciments de ram de paleta MC
- Ciments blancs BL, quan ho requereixi l'exigència de blancor
Morters per a fàbriques:
- Resistència a compressió: <= 0,75 x Resistència a compressió de la peça - Morter ordinari (UNE-EN 998-2) en fàbrica no armada: >= M1 - Morter ordinari (UNE-EN 998-2) en fàbrica armada: >= M5 - Morter de junt prim o morter lleuger (UNE-EN 998-2): >= M5
Ha d'estar pastat de forma que s'obtingui una mescla homogènia i sense segregacions.
2.- CONDICIONS DE SUBMINISTRAMENT I EMMAGATZEMATGE
Per a l'elaboració i la utilització del morter, la temperatura ambient ha d'estar entre 5°C i 40°C.
La formigonera ha d'estar neta abans de l'elaboració del morter.
No s'han de mesclar morters de composició diferent.
S'ha d'aplicar abans que passin 2 h des de la pastada.
3.- UNITAT I CRITERI D'AMIDAMENT
m3 de volum necessari elaborat a l'obra.
4.- NORMATIVA DE COMPLIMENT OBLIGATORI
Documento Básico de Seguridad estructural Fábrica DB-SE-F, parte II del CTE, aprobado por el Real Decreto 314/2006.
5.- CONDICIONS DE CONTROL DE RECEPCIÓ
OPERACIONS DE CONTROL:
Les tasques de control a realitzar són les següents:
- Inspecció visual de les condicions de subministrament i recepció del certificat de qualitat del fabricant, d'acord a les exigències del plec de condicions, incloent els resultats corresponents de resistència a compressió (UNE EN 1015-11).
En cas de no presentar aquests resultats, o que la DF tingui dubtes de la seva representativitat, es realitzaran aquests assaigs sobre el material rebut, a càrrec del contractista.
CRITERIS DE PRESA DE MOSTRES:
Els controls s'han de realitzar segons les instruccions de la DF.
INTERPRETACIÓ DE RESULTATS I ACTUACIONS EN CAS D'INCOMPLIMENT:
No es podran utilitzar a l'obra morters sense el corresponent certificat de garantia del fabricant, d'acord a les condicions exigides.
Els valors de consistència i resistència a compressió han de correspondre a les especificacions de projecte.

B0 MATERIALS BÀSICS

B07 MORTERS DE COMPRA

B07G- MORTER AMB ADDITIUS

0.- ELEMENTS QUE CONTEMPLA EL PLEC

B07G-0MR9.

1.- DEFINICIÓ I CONDICIONS DELS ELEMENTS
Mescla feta amb sorra, ciment, aigua i calç si és el cas, i eventualment additius.
S'han considerat els següents additius:
- Inclusor d'aire
- Hidròfug
- Colorant
CARACTERÍSTIQUES GENERALS:
Tipus de ciment:
- Ciments comuns excepte els tipus CEM II/A
- Ciments de ram de paleta MC
- Ciments blancs BL, quan ho requereixi l'exigència de blancor

Morters per a fàbriques:
- Resistència a compressió: <= 0,75 x Resistència a compressió de la peça - Morter ordinari (UNE-EN 998-2) en fàbrica no armada: >= M1 - Morter ordinari (UNE-EN 998-2) en fàbrica armada: >= M5 - Morter de junt prim o morter lleuger (UNE-EN 998-2): >= M5
Ha d'estar pastat de forma que s'obtingui una mescla homogènia i sense segregacions.
2.- CONDICIONS DE SUBMINISTRAMENT I EMMAGATZEMATGE
Per a l'elaboració i la utilització del morter, la temperatura ambient ha d'estar entre 5°C i 40°C.
La formigonera ha d'estar neta abans de l'elaboració del morter.
L'additiu s'ha d'afegir seguint les instruccions del fabricant, en quan a proporcions, moment d'incorporació a la barreja i temps de pastat i utilització.
No s'han de mesclar morters de composició diferent.
S'ha d'aplicar abans que passin 2 h des de la pastada.
3.- UNITAT I CRITERI D'AMIDAMENT
m3 de volum necessari elaborat a l'obra.
4.- NORMATIVA DE COMPLIMENT OBLIGATORI
Documento Básico de Seguridad estructural Fábrica DB-SE-F, parte II del CTE, aprobado por el Real Decreto 314/2006.
5.- CONDICIONS DE CONTROL DE RECEPCIÓ
OPERACIONS DE CONTROL:
Les tasques de control a realitzar són les següents:
- Inspecció visual de les condicions de subministrament i recepció del certificat de qualitat del fabricant, d'acord a les exigències del plec de condicions, incloent els resultats corresponents de resistència a compressió (UNE EN 1015-11).
En cas de no presentar aquests resultats, o que la DF tingui dubtes de la seva representativitat, es realitzaran aquests assaigs sobre el material rebut, a càrrec del contractista.
CRITERIS DE PRESA DE MOSTRES:
Els controls s'han de realitzar segons les instruccions de la DF.
INTERPRETACIÓ DE RESULTATS I ACTUACIONS EN CAS D'INCOMPLIMENT:
No es podran utilitzar a l'obra morters sense el corresponent certificat de garantia del fabricant, d'acord a les condicions exigides.
Els valors de consistència i resistència a compressió han de correspondre a les especificacions de projecte.

B0 MATERIALS BÀSICS

B0B ACER I METALL EN PERFILS O BARRES

B0B6- ACER EN BARRES CORRUGADES ELABORAT A L'OBRA

0.- ELEMENTS QUE CONTEMPLA EL PLEC

B0B6-107E.

1.- DEFINICIÓ I CONDICIONS DELS ELEMENTS
Barres o conjunts de barres muntades, tallades i conformades, per a elements de formigó armat, elaborades a l'obra.
CARACTERÍSTIQUES GENERALS:
No es pot utilitzar cap acer que tingui picadures o un nivell d'oxidació que pugui afectar a les seves condicions d'adherència. La secció afectada ha de ser <= 1% de la secció inicial.
El tallat de barres o filferros s'ha d'ajustar a l'especificat en la DT del projecte. El procés de tall no ha d'alterar les característiques geomètriques o mecàniques dels productes utilitzats.
El diàmetre interior del doblegament de les barres ha de complir:
- Ganxos, patilles i ganxos en U: - Diàmetres < 20 mm: >= 4 D - Diàmetres >= 20 mm: >= 7 D

El diàmetre mínim de doblegament de les barres ha de ser tal que no produeixi compressions excessives en el formigó en la zona de curvatura ni trencaments en la barra.

Tipus acer	Barres doblegades o corbades	
	D <= 25 mm	D > 25 mm
B 400	10 D	12 D
B 500	12 D	14 D

Els cèrcols o estreps han de seguir les mateixes prescripcions que les barres corrugades.
En els cèrcols o estreps, s'admeten diàmetres de doblegament inferiors per als diàmetres <= 12 mm, que han de complir:
- No han d'aparèixer principis de fissuració.
- Diàmetre de doblegament: >= 3 D, >= 3 cm

L'acer redreçat no ha de tenir una variació significativa en les seves propietats, s'admeten variacions dins dels límits següents:
- Deformació sota càrrega màxima: <= 2,5%
- Alçària de la corruga: - Diàmetres <= 20 mm: <= 0,05 mm - Diàmetres > 20 mm: <= 0,10 mm

En cap cas, després de la manipulació, ha d'aparèixer principis de fissuració en els elements.
Toleràncies:
- Llargària en barres tallades o doblegades: - L <= 6000 mm: - 20 mm, + 50 mm - L > 6000 mm: - 30 mm, + 50 mm

(on L es la llargària recta de les barres)
- Llargària en estreps o cèrcols: - Diàmetres <= 25 mm: ± 16 mm - Diàmetres > 25 mm: - 24 mm, + 20 mm

(on la llargària es la del rectangle que circumscriu l'element)
- Diferència entre llargàries dels costats paral·lels de l'element: <= 10 mm
- Angle de doblegat de ganxos, patilles, ganxos en U i altres barres corbades: ± 5°

2.- CONDICIONS DE SUBMINISTRAMENT I EMMAGATZEMATGE
La DF ha d'aprovar els plànols d'especejament de l'armadura, elaborats per la instal·lacio de ferralla.
El doblegat de les armadures s'ha de fer a temperatura ambient, mitjançant doblegadores mecàniques i a velocitat constant, amb l'ajut de mandrí, de manera que es garanteixi una curvatura constant en tota la zona.
Si es necessari fer desdoblegaments, s'han de realitzar de manera que no es produeixi fissures o trencaments en les barres. En cas de desdoblegament d'armadures en calent, s'ha de prendre les precaucions necessàries per a no malmetre el formigó amb les altes temperatures
Les barres que s'han de doblegar, han d'anar envoltades de cèrcols o estreps en la zona del colze.
El redreçat de l'acer subministrat en rotlle, s'ha de fer amb maquinària específica que compleixi l'especificat en l'article 49.2.2 del CODI ESTRUCTURAL.
El tallat de barres o filferros s'ha de realitzar per mitjans manuals (cisalla, etc.) o maquinària específica de tall automàtic.
No s'han d'adreçar els colzes excepte si es pot verificar que es realitza sense danys.
No s'han de doblegar un nombre elevat de barres en la mateixa secció d'una peça.

3.- UNITAT I CRITERI D'AMIDAMENT
kg de pes necessari elaborat a l'obra, calculat amb el pes unitari teòric o qualsevol altre expressament acceptat per la DF.
Aquest criteri inclou les pèrdues de material com a conseqüència de les operacions específiques d'aquests treballs, com ara retalls i lligaments.

4.- NORMATIVA DE COMPLIMENT OBLIGATORI
Real Decreto 470/2021, de 29 de junio, por el que se aprueba el Código Estructural.

2. P PARTIDES D'OBRA I CONJUNTS

P PARTIDES D'OBRA I CONJUNTS

P2 DEMOLICIONS, ENDERROCS, MOVIMENTS DE TERRES I GESTIÓ DE RESIDUS

P21 ENDERROCS, DEMOLICIONS, ARRENCADES, REPICATS I DESMUNTATGES

P214 DESMUNTATGES O ENDERROCS D'ELEMENTS DE CONSTRUCCIÓ

P2146- DEMOLICIÓ DE PAVIMENTS I BASES

0.- ELEMENTS QUE CONTEMPLA EL PLEC

P2146-DJ2J,P2146-DJ4I.

1.- DEFINICIÓ I CONDICIONS DE LES PARTIDES D'OBRA EXECUTADES
Demolició d'elements de vialitat, arrencada de paviments o soleres o desmuntatge de paviments.
S'han considerat els elements següents:
- Vorada col·locada sobre terra o formigó
- Rigola de formigó o de panots col·locats sobre formigó
- Escocell de formigó
- Paviment de formigó, panots, llambordins o mescla bituminosa
En actuacions de reparació, s'han considerat els graus de dificultat següents:
- Grau de dificultat associat a la mobilitat en l'actuació: - Sense dificultat de mobilitat: actuacions en què hi ha una interferència pròpia de l'entorn on es desenvolupen. - Amb dificultat de mobilitat: actuacions en entorns amb dificultat de mobilitat i/o amb el material aplegat lluny de la zona de treball: - Actuacions amb dificultat d'accessibilitat, per la poca mobilitat de la maquinària, per l'elevada presència de guals particulars i passos de vianants, per la impossibilitat d'ubicar una plataforma de treball lateral, per la impossibilitat d'ocupació de la calçada per fer l'aplec de materials que impliqui fer l'actuació per fases per tal de mantenir el pas de vianants i/o per estar en una zona amb tràfic rodat important - Actuacions en les què els materials estan aplegats lluny de la zona de treball per manca d'espai en la proximitat d'on s'executen les tasques.
- Grau de dificultat associat a l'àmbit de l'actuació en funció de l'amplària de la vorera, calçada o plataforma única
- Grau de dificultat associat a la presència d'elements externs a l'actuació: - Sense afectació per serveis o elements de mobiliari urbà: actuacions sense serveis (canalitzacions d'aigua, semàfors, enllumenat, etc.) ni elements urbans de grans dimensions (marquesines, mòduls d'aparcament de bicicletes, etc.) que interfereixin (o que puguin interferir) en les tasques - Amb afectació per serveis o elements de mobiliari urbà: actuacions amb serveis (canalitzacions d'aigua, semàfors, enllumenat, etc.) o elements urbans de grans dimensions (marquesines, mòduls d'aparcament de bicicletes, etc) que interfereixen en les tasques.
- Grau de dificultat associat a l'abast de l'actuació
L'execució de la unitat d'obra inclou les operacions següents:
- Preparació de la zona de treball
- Demolició de l'element amb els mitjans adients
- Trossejament i apilada de la runa
CONDICIONS GENERALS:
Els materials han de quedar suficientment trossejats i apilats per tal de facilitar-ne la càrrega, en funció dels mitjans de què es disposin i de les condicions de transport.
Els materials han de quedar apilats i emmagatzemats en funció de l'ús a que es destinin (transport a abocador, reutilització, eliminació en obra, etc.).
Un cop acabats els treballs, la base ha de quedar neta de restes de material.
2.- CONDICIONS DEL PROCÉS D'EXECUCIÓ
No s'ha de treballar amb pluja, neu o vent superior als 60 km/h.

S'ha de seguir l'ordre de treballs previst a la DT.
El contractista ha d'elaborar un programa de treball que ha de ser aprovat per la DF abans d'iniciar els treballs, on s'ha d'especificar, com a mínim:
- Mètode d'enderroc i fases
- Estabilitat de les construccions en cada fase, apuntalaments necessaris
- Estabilitat i protecció de les construccions i elements de l'entorn i els que s'han de conservar
- Manteniment i substitució provisional dels serveis afectats pels treballs
- Mitjans d'evacuació i especificació de les zones d'abocament dels productes d'enderroc
- Cronograma dels treballs
- Pautes de control i mesures de seguretat i salut
La part per a enderrocar no ha de tenir instal·lacions en servei (aigua, gas, electricitat, etc.).
El paviment no ha de tenir conductes d'instal·lació en servei a la part per arrencar, s'han de desmuntar els aparells d'instal·lació i de mobiliari existents, així com qualsevol element que pugui destorbar la feina.
S'han de protegir els elements de servei públic que puguin resultar afectats per les obres.
La zona afectada per les obres ha de quedar convenientment senyalitzada.
L'execució dels treballs no han de produir desperfectes, molèsties o perjudicar les construccions, bens o persones de l'entorn.
S'ha d'evitar la formació de pols, pel que cal regar les parts que s'hagin de demolir i carregar.
En cas d'imprevistos (terrenys inundats, olors de gas, etc.) o quan l'enderrocament pugui afectar les construccions veïnes, s'han de suspendre les obres i avisar a la DF.
L'operació de càrrega de runa s'ha de fer amb les precaucions necessàries, per tal d'aconseguir les condicions de seguretat suficients.
S'han d'eliminar els elements que puguin entorpir els treballs de retirada i càrrega de runa.
S'ha de complir la normativa vigent en matèria mediambiental, de seguretat i salut i d'emmagatzematge i transport de productes de construcció.
3.- UNITAT I CRITERI D'AMIDAMENT
m de llargària realment enderrocada, segons les especificacions de la DT.
ENDERROC O FRESAT DE PAVIMENT:
m2 de paviment realment enderrocat, segons les especificacions de la DT.
4.- NORMATIVA DE COMPLIMENT OBLIGATORI
* Orden de 6 de febrero de 1976 por la que se aprueba el Pliego de Prescripciones Técnicas Generales para Obras de Carreteras y Puentes (PG-3).
* Orden FOM/1382/2002 de 16 de mayo, por la que se actualizan determinados artículos del pliego de prescripciones técnicas generales para obras de carreteras y puentes relativos a la construcción de explanaciones, drenajes y cimentaciones (PG-3).
* Orden de 10 de febrero de 1975, por la que se aprueba la Norma Tecnológica de la Edificación. NTE-ADD/1975: Acondicionamiento del terreno. Desmontes. Demoliciones.

P2 DEMOLICIONS, ENDERROCS, MOVIMENTS DE TERRES I GESTIÓ DE RESIDUS

P21 ENDERROCS, DEMOLICIONS, ARRENCADES, REPICATS I DESMUNTATGES

P214 DESMUNTATGES O ENDERROCS D'ELEMENTS DE CONSTRUCCIÓ

P2147- DEMOLICIÓ DE RIGOLA

0.- ELEMENTS QUE CONTEMPLA EL PLEC

P2147-DJ5U.

1.- DEFINICIÓ I CONDICIONS DE LES PARTIDES D'OBRA EXECUTADES
Demolició d'elements de vialitat, arrencada de paviments o soleres o desmuntatge de paviments.
S'han considerat els elements següents:
- Vorada col·locada sobre terra o formigó

- Rigola de formigó o de panots col·locats sobre formigó
- Escocell de formigó
- Paviment de formigó, panots, llambordins o mescla bituminosa
En actuacions de reparació, s'han considerat els graus de dificultat següents:
- Grau de dificultat associat a la mobilitat en l'actuació: - Sense dificultat de mobilitat: actuacions en què hi ha una interferència pròpia de l'entorn on es desenvolupen. - Amb dificultat de mobilitat: actuacions en entorns amb dificultat de mobilitat i/o amb el material aplegat lluny de la zona de treball: - Actuacions amb dificultat d'accessibilitat, per la poca mobilitat de la maquinària, per l'elevada presència de guals particulars i passos de vianants, per la impossibilitat d'ubicar una plataforma de treball lateral, per la impossibilitat d'ocupació de la calçada per fer l'aplec de materials que impliqui fer l'actuació per fases per tal de mantenir el pas de vianants i/o per estar en una zona amb tràfic rodat important - Actuacions en les què els materials estan aplegats lluny de la zona de treball per manca d'espai en la proximitat d'on s'executen les tasques.
- Grau de dificultat associat a l'àmbit de l'actuació en funció de l'amplària de la vorera, calçada o plataforma única
- Grau de dificultat associat a la presència d'elements externs a l'actuació: - Sense afectació per serveis o elements de mobiliari urbà: actuacions sense serveis (canalitzacions d'aigua, semàfors, enllumenat, etc.) ni elements urbans de grans dimensions (marquesines, mòduls d'aparcament de bicicletes, etc.) que interfereixin (o que puguin interferir) en les tasques - Amb afectació per serveis o elements de mobiliari urbà: actuacions amb serveis (canalitzacions d'aigua, semàfors, enllumenat, etc.) o elements urbans de grans dimensions (marquesines, mòduls d'aparcament de bicicletes, etc) que interfereixen en les tasques.
- Grau de dificultat associat a l'abast de l'actuació
L'execució de la unitat d'obra inclou les operacions següents:
- Preparació de la zona de treball
- Demolició de l'element amb els mitjans adients
- Trossejament i apilada de la runa
CONDICIONS GENERALS:
Els materials han de quedar suficientment trossejats i apilats per tal de facilitar-ne la càrrega, en funció dels mitjans de què es disposin i de les condicions de transport.
Els materials han de quedar apilats i emmagatzemats en funció de l'ús a que es destinin (transport a abocador, reutilització, eliminació en obra, etc.).
Un cop acabats els treballs, la base ha de quedar neta de restes de material.
2.- CONDICIONS DEL PROCÉS D'EXECUCIÓ
No s'ha de treballar amb pluja, neu o vent superior als 60 km/h.
S'ha de seguir l'ordre de treballs previst a la DT.
El contractista ha d'elaborar un programa de treball que ha de ser aprovat per la DF abans d'iniciar els treballs, on s'ha d'especificar, com a mínim:
- Mètode d'enderroc i fases
- Estabilitat de les construccions en cada fase, apuntalaments necessaris
- Estabilitat i protecció de les construccions i elements de l'entorn i els que s'han de conservar
- Manteniment i substitució provisional dels serveis afectats pels treballs
- Mitjans d'evacuació i especificació de les zones d'abocament dels productes d'enderroc
- Cronograma dels treballs
- Pautes de control i mesures de seguretat i salut
La part per a enderrocar no ha de tenir instal·lacions en servei (aigua, gas, electricitat, etc.).
El paviment no ha de tenir conductes d'instal·lació en servei a la part per arrencar, s'han de desmuntar els aparells d'instal·lació i de mobiliari existents, així com qualsevol element que pugui destorbar la feina.
S'han de protegir els elements de servei públic que puguin resultar afectats per les obres.
La zona afectada per les obres ha de quedar convenientment senyalitzada.
L'execució dels treballs no han de produir desperfectes, molèsties o perjudicar les construccions, bens o persones de l'entorn.
S'ha d'evitar la formació de pols, pel que cal regar les parts que s'hagin de demolir i carregar.
En cas d'imprevistos (terrenys inundats, olors de gas, etc.) o quan l'enderrocament pugui afectar les construccions veïnes, s'han de suspendre les obres i avisar a la DF.
L'operació de càrrega de runa s'ha de fer amb les precaucions necessàries, per tal d'aconseguir les condicions de seguretat suficients.
S'han d'eliminar els elements que puguin entorpir els treballs de retirada i càrrega de runa.

S'ha de complir la normativa vigent en matèria mediambiental, de seguretat i salut i d'emmagatzematge i transport de productes de construcció.
3.- UNITAT I CRITERI D'AMIDAMENT
ENDERROC D'ESGLAÓ, ARRENCADA DE REVESTIMENT D'ESGLAÓ, DE SÒCOL, DE VORADA O RIGOLA:
m de llargària realment enderrocada, segons les especificacions de la DT.
ENDERROC D'ESCOCELL:
Unitat realment enderrocada, segons les especificacions de la DT.
4.- NORMATIVA DE COMPLIMENT OBLIGATORI
* Orden de 6 de febrero de 1976 por la que se aprueba el Pliego de Prescripciones Técnicas Generales para Obras de Carreteras y Puentes (PG-3).
* Orden FOM/1382/2002 de 16 de mayo, por la que se actualizan determinados artículos del pliego de prescripciones técnicas generales para obras de carreteras y puentes relativos a la construcción de explanaciones, drenajes y cimentaciones (PG-3).
* Orden de 10 de febrero de 1975, por la que se aprueba la Norma Tecnológica de la Edificación. NTE-ADD/1975: Acondicionamiento del terreno. Desmontes. Demoliciones.

P2 DEMOLICIONS, ENDERROCS, MOVIMENTS DE TERRES I GESTIÓ DE RESIDUS

P21 ENDERROCS, DEMOLICIONS, ARRENCADES, REPICATS I DESMUNTATGES

P214 DESMUNTATGES O ENDERROCS D'ELEMENTS DE CONSTRUCCIÓ

P2148- DEMOLICIÓ DE VORADA

0.- ELEMENTS QUE CONTEMPLA EL PLEC

P2148-49L9.

1.- DEFINICIÓ I CONDICIONS DE LES PARTIDES D'OBRA EXECUTADES
Demolició d'elements de vialitat, arrencada de paviments o soleres o desmuntatge de paviments.
S'han considerat els elements següents:
- Vorada col·locada sobre terra o formigó
- Rigola de formigó o de panots col·locats sobre formigó
- Escocell de formigó
- Paviment de formigó, panots, llambordins o mescla bituminosa
En actuacions de reparació, s'han considerat els graus de dificultat següents:
- Grau de dificultat associat a la mobilitat en l'actuació: - Sense dificultat de mobilitat: actuacions en què hi ha una interferència pròpia de l'entorn on es desenvolupen. - Amb dificultat de mobilitat: actuacions en entorns amb dificultat de mobilitat i/o amb el material aplegat lluny de la zona de treball: - Actuacions amb dificultat d'accessibilitat, per la poca mobilitat de la maquinària, per l'elevada presència de guals particulars i passos de vianants, per la impossibilitat d'ubicar una plataforma de treball lateral, per la impossibilitat d'ocupació de la calçada per fer l'aplec de materials que impliqui fer l'actuació per fases per tal de mantenir el pas de vianants i/o per estar en una zona amb tràfic rodat important - Actuacions en les què els materials estan aplegats lluny de la zona de treball per manca d'espai en la proximitat d'on s'executen les tasques.
- Grau de dificultat associat a l'àmbit de l'actuació en funció de l'amplària de la vorera, calçada o plataforma única
- Grau de dificultat associat a la presència d'elements externs a l'actuació: - Sense afectació per serveis o elements de mobiliari urbà: actuacions sense serveis (canalitzacions d'aigua, semàfors, enllumenat, etc.) ni elements urbans de grans dimensions (marquesines, mòduls d'aparcament de bicicletes, etc.) que interfereixin (o que puguin interferir) en les tasques - Amb afectació per serveis o elements de mobiliari urbà: actuacions amb serveis (canalitzacions d'aigua, semàfors, enllumenat, etc.) o elements urbans de grans dimensions (marquesines, mòduls d'aparcament de bicicletes, etc) que interfereixen en les tasques.
- Grau de dificultat associat a l'abast de l'actuació

L'execució de la unitat d'obra inclou les operacions següents:
- Preparació de la zona de treball
- Demolició de l'element amb els mitjans adients
- Trossejament i apilada de la runa
CONDICIONS GENERALS:
Els materials han de quedar suficientment trossejats i apilats per tal de facilitar-ne la càrrega, en funció dels mitjans de què es disposin i de les condicions de transport.
Els materials han de quedar apilats i emmagatzemats en funció de l'ús a que es destinin (transport a abocador, reutilització, eliminació en obra, etc.).
Un cop acabats els treballs, la base ha de quedar neta de restes de material.
2.- CONDICIONS DEL PROCÉS D'EXECUCIÓ
No s'ha de treballar amb pluja, neu o vent superior als 60 km/h.
S'ha de seguir l'ordre de treballs previst a la DT.
El contractista ha d'elaborar un programa de treball que ha de ser aprovat per la DF abans d'iniciar els treballs, on s'ha d'especificar, com a mínim:
- Mètode d'enderroc i fases
- Estabilitat de les construccions en cada fase, apuntalaments necessaris
- Estabilitat i protecció de les construccions i elements de l'entorn i els que s'han de conservar
- Manteniment i substitució provisional dels serveis afectats pels treballs
- Mitjans d'evacuació i especificació de les zones d'abocament dels productes d'enderroc
- Cronograma dels treballs
- Pautes de control i mesures de seguretat i salut
La part per a enderrocar no ha de tenir instal·lacions en servei (aigua, gas, electricitat, etc.).
El paviment no ha de tenir conductes d'instal·lació en servei a la part per arrencar, s'han de desmuntar els aparells d'instal·lació i de mobiliari existents, així com qualsevol element que pugui destorbar la feina.
S'han de protegir els elements de servei públic que puguin resultar afectats per les obres.
La zona afectada per les obres ha de quedar convenientment senyalitzada.
L'execució dels treballs no han de produir desperfectes, molèsties o perjudicar les construccions, bens o persones de l'entorn.
S'ha d'evitar la formació de pols, pel que cal regar les parts que s'hagin de demolir i carregar.
En cas d'imprevistos (terrenys inundats, olors de gas, etc.) o quan l'enderrocament pugui afectar les construccions veïnes, s'han de suspendre les obres i avisar a la DF.
L'operació de càrrega de runa s'ha de fer amb les precaucions necessàries, per tal d'aconseguir les condicions de seguretat suficients.
S'han d'eliminar els elements que puguin entorpir els treballs de retirada i càrrega de runa.
S'ha de complir la normativa vigent en matèria mediambiental, de seguretat i salut i d'emmagatzematge i transport de productes de construcció.
3.- UNITAT I CRITERI D'AMIDAMENT
ENDERROC D'ESGLAÓ, ARRENCADA DE REVESTIMENT D'ESGLAÓ, DE SÒCOL, DE VORADA O RIGOLA:
m de llargària realment enderrocada, segons les especificacions de la DT.
ENDERROC D'ESCOCELL:
Unitat realment enderrocada, segons les especificacions de la DT.
4.- NORMATIVA DE COMPLIMENT OBLIGATORI
* Orden de 6 de febrero de 1976 por la que se aprueba el Pliego de Prescripciones Técnicas Generales para Obras de Carreteras y Puentes (PG-3).
* Orden FOM/1382/2002 de 16 de mayo, por la que se actualizan determinados artículos del pliego de prescripciones técnicas generales para obras de carreteras y puentes relativos a la construcción de explanaciones, drenajes y cimentaciones (PG-3).
* Orden de 10 de febrero de 1975, por la que se aprueba la Norma Tecnológica de la Edificación. NTE-ADD/1975: Acondicionamiento del terreno. Desmontes. Demoliciones.

P2 DEMOLICIONS, ENDERROCS, MOVIMENTS DE TERRES I GESTIÓ DE RESIDUS

P21 ENDERROCS, DEMOLICIONS, ARRENCADES, REPICATS I DESMUNTATGES

P214 DESMUNTATGES O ENDERROCS D'ELEMENTS DE CONSTRUCCIÓ

P214W- TALL AMB DISC EN PAVIMENT PER MARCAR LÍMIT DEMOLICIÓ

0.- ELEMENTS QUE CONTEMPLA EL PLEC

P214W-FEMM.

1.- DEFINICIÓ I CONDICIONS DE LES PARTIDES D'OBRA EXECUTADES
Tall fet amb maquina tallajunts en un paviment que s'ha de demolir, per tal de delimitar la zona afectada, i que en fer la demolició els límits del paviment que resti siguin rectes i uniformes.
Ha d'estar feta al lloc indicat a la DT, amb les modificacions introduides al replanteig previ, aprovades per la DF.
Toleràncies d'execució:
- Replanteig: ± 10 mm
2.- CONDICIONS DEL PROCÉS D'EXECUCIÓ
No s'ha de treballar amb pluja, neu o vent superior als 60 km/h.
S'ha de seguir l'ordre de treballs previst a la DT.
El contractista ha d'elaborar un programa de treball que ha de ser aprovat per la DF abans d'iniciar els treballs, on s'ha d'especificar, com a mínim:
- Mètode d'enderroc i fases
- Estabilitat de les construccions en cada fase, apuntalaments necessaris
- Estabilitat i protecció de les construccions i elements de l'entorn i els que s'han de conservar
- Manteniment i substitució provisional dels serveis afectats pels treballs
- Mitjans d'evacuació i especificació de les zones d'abocament dels productes d'enderroc
- Cronograma dels treballs
- Pautes de control i mesures de seguretat i salut
3.- UNITAT I CRITERI D'AMIDAMENT
m de llargària realment enderrocada, segons les especificacions de la DT.
TALL DE PAVIMENT:
m de llargària executada realment, amidada segons les especificacions del projecte, comprovada i acceptada expressament per la DF.
4.- NORMATIVA DE COMPLIMENT OBLIGATORI
* Orden de 6 de febrero de 1976 por la que se aprueba el Pliego de Prescripciones Técnicas Generales para Obras de Carreteras y Puentes (PG-3).
* Orden FOM/1382/2002 de 16 de mayo, por la que se actualizan determinados artículos del pliego de prescripciones técnicas generales para obras de carreteras y puentes relativos a la construcción de explanaciones, drenajes y cimentaciones (PG-3).

P2 DEMOLICIONS, ENDERROCS, MOVIMENTS DE TERRES I GESTIÓ DE RESIDUS

P21 ENDERROCS, DEMOLICIONS, ARRENCADES, REPICATS I DESMUNTATGES

P21D DESMUNTATGES D'ELEMENTS D'INSTAL·LACIONS

P21DH- DESMUNTATGE DE SUPORT DE LÍNIES ELÈCTRIQUES I LLUMENERA

0.- ELEMENTS QUE CONTEMPLA EL PLEC

P21DH-8GXF,P21DH-8GX9,P21DH-8GXH.

1.- DEFINICIÓ I CONDICIONS DE LES PARTIDES D'OBRA EXECUTADES
Arrencada, desmuntatge i enderroc, càrrega i transport a abocador, magatzem o lloc de nova col·locació d'elements d'instal·lacions de gas, elèctriques, lampisteria o d'enllumenat.
S'han considerat les unitats d'obra següents:
- Arrencada de llum superficial
- Desmuntatge de llum superficial
- Desmuntatge de fanal
- Desmuntatge de braç mural
- Desmuntatge de pals de suports de línies elèctriques
En actuacions de reparació, s'han considerat els graus de dificultat següents:
- Grau de dificultat associat a la mobilitat en l'actuació: - Sense dificultat de mobilitat: actuacions en què hi ha una interferència pròpia de l'entorn on es desenvolupen. - Amb dificultat de mobilitat: actuacions en entorns amb dificultat de mobilitat i/o amb el material aplegat lluny de la zona de treball: - Actuacions amb dificultat d'accessibilitat, per la poca mobilitat de la maquinària, per l'elevada presència de guals particulars i passos de vianants, per la impossibilitat d'ubicar una plataforma de treball lateral, per la impossibilitat d'ocupació de la calçada per fer l'aplec de materials que impliqui fer l'actuació per fases per tal de mantenir el pas de vianants i/o per estar en una zona amb tràfic rodat important - Actuacions en les què els materials estan aplegats lluny de la zona de treball per manca d'espai en la proximitat d'on s'executen les tasques.
- Grau de dificultat associat a l'àmbit de l'actuació en funció de l'amplària de la vorera, calçada o plataforma única
- Grau de dificultat associat a la presència d'elements externs a l'actuació: - Sense afectació per serveis o elements de mobiliari urbà: actuacions sense serveis (canalitzacions d'aigua, semàfors, enllumenat, etc.) ni elements urbans de grans dimensions (marquesines, mòduls d'aparcament de bicicletes, etc.) que interfereixin (o que puguin interferir) en les tasques - Amb afectació per serveis o elements de mobiliari urbà: actuacions amb serveis (canalitzacions d'aigua, semàfors, enllumenat, etc.) o elements urbans de grans dimensions (marquesines, mòduls d'aparcament de bicicletes, etc) que interfereixen en les tasques.
- Grau de dificultat associat a l'abast de l'actuació
L'execució de la unitat d'obra inclou les operacions següents:
- Operacions de preparació
- Desconnexió de la xarxa d'alimentació, i protecció dels terminals, en el seu cas
- Desmuntatge o arrencada dels elements
- Enderroc dels fonaments si es el cas
- Neteja de la superfície de les restes de runa
- Càrrega, transport i descàrrega a les zones autoritzades d'abocament de la runa i dels materials de rebuig generats i condicionament de l'abocador
- Càrrega, transport al magatzem o lloc de nova utilització dels materials que indica la DT, descàrrega i classificació
CONDICIONS GENERALS:
Els materials han de quedar apilats i emmagatzemats en funció de l'ús a que es destinin (transport a abocador, reutilització, eliminació en obra, etc.).
2.- CONDICIONS DEL PROCÉS D'EXECUCIÓ
No s'ha de treballar amb pluja, neu o vent superior als 60 km/h.
S'ha de seguir l'ordre de treballs previst a la DT.
La xarxa ha d'estar fora de servei.
Si la xarxa o l'element a desmuntar conté fluids, aquests s'han de buidar.
Els elements s'han de desmuntar amb les eines apropiades.
Es tindrà especial cura amb els elements que s'han de tornar a muntar en un altre lloc.

Els elements grans i pesats s'han de subjectar i manipular pels punts d'ancoratge disposats per a aquest fi. Si aquests punts es varen retirar durant el muntatge, aleshores es tornaran a muntar.
Es farà servir la maquinària adequada per a la manipulació dels elements a desmuntar (grues, cistelles, etc.).
Qualsevol conducció que empalmi amb l'element ha de quedar obturada. Si es tracta d'un element elèctric, l'extrem de la part que no es retira ha de quedar convenientment protegit.
S'han de protegir els elements de servei públic que puguin resultar afectats per les obres.
La zona afectada per les obres ha de quedar convenientment senyalitzada.
Cal prendre les mesures de precaució necessàries per aconseguir unes condicions de seguretat suficients i evitar danys a les construccions pròximes.
S'han de senyalar els elements que hagin de conservar-se intactes, segons s'indiqui en la Documentació Tècnica o, en el seu defecte, la DF.
Els treballs s'han de fer de manera que molestin el mínim als possibles afectats.
S'ha d'evitar la formació de pols, pel que cal regar les parts que s'hagin de demolir i carregar.
En cas d'imprevistos (olors de gas, etc.) o quan les operacions que es realitzin puguin afectar les construccions veïnes, s'han de suspendre les obres i avisar a la DF.
L'operació de càrrega de runa s'ha de fer amb les precaucions necessàries, per tal d'aconseguir les condicions de seguretat suficients.
S'han d'eliminar els elements que puguin entorpir els treballs de retirada i càrrega de runa.
El transport s'ha de realitzar en un vehicle adequat, per al material que es desitgi transportar, proveït dels elements que calen per al seu desplaçament correcte.
Durant el transport s'ha de protegir el material perquè no es produeixin pèrdues en el trajecte.
En cas d'utilització d'abocador, el contractista no podrà abocar material procedent de l'obra sense que prèviament estigui aprovat l'abocador pel Director d'Obra i per la comissió de seguiment mediambiental, en el cas que estigui constituïda.
3.- UNITAT I CRITERI D'AMIDAMENT
DESMUNTATGE DE SUPORT DE LÍNIES ELÈCTRIQUES I LLUMENERA:
Unitat d'element realment arrencat o desmuntat segons les especificacions de la DT.
4.- NORMATIVA DE COMPLIMENT OBLIGATORI
No hi ha normativa de compliment obligatori.

P2 DEMOLICIONS, ENDERROCS, MOVIMENTS DE TERRES I GESTIÓ DE RESIDUS

P22 MOVIMENTS DE TERRES

P221 EXCAVACIONS

P221B- EXCAVACIÓ DE RASA I POU

0.- ELEMENTS QUE CONTEMPLA EL PLEC

P221B-EL71.

1.- DEFINICIÓ I CONDICIONS DE LES PARTIDES D'OBRA EXECUTADES
Conjunt d'operacions per obrir rases i pous de fonaments, o de pas d'instal·lacions, realitzades amb mitjans mecànics o manuals, de forma contínua o realitzades per dames.
En actuacions de reparació, s'han considerat els graus de dificultat següents:
- Grau de dificultat associat a la mobilitat en l'actuació: - Sense dificultat de mobilitat: actuacions en què hi ha una interferència pròpia de l'entorn on es desenvolupen. - Amb dificultat de mobilitat: actuacions en entorns amb dificultat de mobilitat i/o amb el material aplegat lluny de la zona de treball: - Actuacions amb

dificultat d'accessibilitat, per la poca mobilitat de la maquinària, per l'elevada presència de guals particulars i passos de vianants, per la impossibilitat d'ubicar una plataforma de treball lateral, per la impossibilitat d'ocupació de la calçada per fer l'aplec de materials que impliqui fer l'actuació per fases per tal de mantenir el pas de vianants i/o per estar en una zona amb tràfic rodat important - Actuacions en les què els materials estan aplegats lluny de la zona de treball per manca d'espai en la proximitat d'on s'executen les tasques.
- Grau de dificultat associat a l'àmbit de l'actuació en funció de l'amplària de la vorera, calçada o plataforma única
- Grau de dificultat associat a la presència d'elements externs a l'actuació: - Sense afectació per serveis o elements de mobiliari urbà: actuacions sense serveis (canalitzacions d'aigua, semàfors, enllumenat, etc.) ni elements urbans de grans dimensions (marquesines, mòduls d'aparcament de bicicletes, etc.) que interfereixin (o que puguin interferir) en les tasques - Amb afectació per serveis o elements de mobiliari urbà: actuacions amb serveis (canalitzacions d'aigua, semàfors, enllumenat, etc.) o elements urbans de grans dimensions (marquesines, mòduls d'aparcament de bicicletes, etc) que interfereixen en les tasques.
- Grau de dificultat associat a l'abast de l'actuació
L'execució de la unitat d'obra inclou les operacions següents:
- Preparació de la zona de treball
- Situació dels punts topogràfics exteriors a l'excavació
- Replanteig de la zona a excavar i determinació de l'ordre d'execució de les dames si és el cas
- Excavació de les terres
- Càrrega de les terres sobre camió, contenidor, o formació de cavallons a la vora de la rasa, segons indiqui la partida d'obra
- Reblert i compactació de les terres en cas necessari
CONDICIONS GENERALS:
Es considera terreny fluix, el capaç de ser foradat amb pala, que té un assaig SPT < 20.
Es considera terreny compacte, el capaç de ser foradat amb pic (no amb pala), que té un assaig SPT entre 20 i 50.
Es considera terreny de trànsit, el capaç de ser foradat amb màquina o escarificadora (no amb pic), que té un assaig SPT > 50 sense rebot.
Es considera terreny no classificat, des del capaç de ser foradat amb pala, que té un assaig SPT < 20, fins al capaç de ser foradat amb màquina o escarificadora (no amb pic), que té un assaig SPT > 50 sense rebot.
Es considera roca la que pot ser foradada amb compressor (no amb màquina), que té un rebot a l'assaig SPT.
L'element excavat ha de tenir la forma i les dimensions especificades en la DT, o en el seu defecte, les que determini la DF.
El fons de l'excavació ha de quedar anivellat.
El fons de l'excavació no ha de tenir material engrunat o fluix i les esquerdes i els forats han de quedar reblerts.
Els talussos perimetrals han de ser els fixats per la DF.
Els talussos han de tenir el pendent especificat a la DT.
La qualitat de terreny del fons de l'excavació requereix l'aprovació explícita de la DF.
Toleràncies d'execució:
- Dimensions: ± 5%, ± 50 mm
- Planor: ± 40 mm/m
- Replanteig: < 0,25%, ± 100 mm
- Nivells: ± 50 mm
- Aplomat o talús de les cares laterals: ± 2°
2.- CONDICIONS DEL PROCÉS D'EXECUCIÓ
CONDICIONS GENERALS:
No s'ha de treballar amb pluja, neu o vent superior als 60 km/h.
S'han de protegir els elements de servei públic que puguin resultar afectats per les obres.
S'han d'eliminar els elements que puguin entorpir els treballs d'execució de la partida.
S'ha de seguir l'ordre dels treballs previst per la DF.
Abans de començar els treballs, es farà un replanteig previ que ha de ser aprovat per la DF.
Hi ha d'haver punts fixos de referència exteriors a la zona de treball, als quals s'hi han de referir totes les lectures topogràfiques.
Si cal fer rampes per accedir a la zona de treball, han de tenir les característiques següents:
- Amplària: >= 4,5 m
- Pendent: - Trams rectes: <= 12% - Corbes: <= 8% - Trams abans de sortir a la via de llargària >= 6 m: <= 6%

- El talús ha de ser fixat per la DF.
La finalització de l'excavació de pous o rases per a fonaments o de lloses de fonamentació, s'ha de fer just abans de la col·locació del formigó de neteja, per mantenir la qualitat del sol.
Si això no fos possible, es deixarà una capa de 10 a 15 cm sense excavar fins al moment que es pugui formigonar la capa de neteja.
Cal extreure les roques suspeses, les terres i els materials amb perill de despreniment.
Cal extreure del fons de l'excavació qualsevol element susceptible de formar un punt de resistència local diferent de la resta, com ara roques, restes de fonaments, bosses de material tou, etc, i rebaixar el fons de l'excavació per tal que la sabata tingui un recolzament homogeni.
No s'han d'acumular terres o materials a la vora de l'excavació.
No s'ha de treballar simultàniament en zones superposades.
S'ha d'estrebar sempre que consti al projecte i quan ho determini la DF. L'estrebada ha de complir les especificacions fixades al seu plec de condicions.
S'han d'estrebar els terrenys engrunats i quan, en fondàries superiors a 1,30 m, es doni algun dels casos següents:
- S'hagi de treballar a dins
- Es treballi en una zona immediata que pugui resultar afectada per una possible esllavissada
- Hagi de quedar oberta en acabar la jornada de treball
També sempre que, per altres causes (càrregues veïnes, etc.) ho determini la DF.
S'ha de preveure un sistema de desguàs per tal d'evitar acumulació d'aigua dins l'excavació.
S'ha d'impedir l'entrada d'aigües superficials.
Si apareix aigua en l'excavació s'han de prendre les mesures necessàries per esgotar-la.
Els esgotaments s'han de fer sense comprometre l'estabilitat dels talussos i les obres veïnes, i s'han de mantenir mentre durin els treballs de fonamentació. Caldrà verificar en terrenys argilosos, si cal fer un sanejament del fons de l'excavació.
Els treballs s'han de fer de manera que molestin el mínim als possibles afectats.
En cas d'imprevistos (terrenys inundats, olors de gas, restes de construccions, etc.) s'han de suspendre els treballs i avisar la DF.
No s'ha de rebutjar cap material obtingut de l'excavació sense l'autorització expressa de la DF.
S'ha d'evitar la formació de pols, pel que cal regar les parts que s'hagin de carregar.
L'operació de càrrega s'ha de fer amb les precaucions necessàries per a aconseguir unes condicions de seguretat suficients.
S'ha de complir la normativa vigent en matèria mediambiental, de seguretat i salut i d'emmagatzematge i transport de productes de construcció.
Les terres s'han de treure de dalt a baix sense soscavar-les.
L'aportació de terres per a correcció de nivells ha de ser la mínima possible, de les mateixes existents i de compacitat igual.
S'ha de tenir en compte el sentit d'estratificació de les roques.
S'han de mantenir els dispositius de desguàs necessaris, per tal de captar i reconduir els corrents d'aigua interns, en els talussos.
3.- UNITAT I CRITERI D'AMIDAMENT
m3 de volum excavat segons les especificacions de la DT, amidat com a diferència entre els perfils transversals del terreny aixecats abans de començar les obres i els perfils teòrics assenyalats als plànols, amb les modificacions aprovades per la DF.
No s'ha d'abonar l'excés d'excavació que s'hagi produït sense l'autorització de la DF, ni la càrrega i el transport del material ni els treballs que calguin per a reomplir-lo.
Inclou la càrrega, allisada de talussos, esgotaments per pluja o inundació i quantes operacions faci falta per a una correcta execució de les obres.
També estan inclosos en el preu el manteniment dels camins de comunicació entre el desmunt i les zones on han d'anar les terres, la seva creació, i la seva eliminació, si s'escau.
Tan sols s'han d'abonar els esllavissaments no provocats, sempre que s'hagin observat totes les prescripcions relatives a excavacions, entibacions i voladures.
4.- NORMATIVA DE COMPLIMENT OBLIGATORI
OBRES D'EDIFICACIÓ:
Documento Básico de Seguridad estructural de cimientos DB-SE-C, parte II del CTE, aprobado por el Real Decreto 314/2006.

P2 DEMOLICIONS, ENDERROCS, MOVIMENTS DE TERRES I GESTIÓ DE RESIDUS

P22 MOVIMENTS DE TERRES

P225 REBLERT, ESTESA I PICONATGE DE TERRES

P2255- REBLIMENT I PICONATGE DE RASA

0.- ELEMENTS QUE CONTEMPLA EL PLEC

P2255-DPIK.

1.- DEFINICIÓ I CONDICIONS DE LES PARTIDES D'OBRA EXECUTADES
Reblert, estesa i piconatge de terres o granulats en zones que per la seva extensió reduïda, per precaucions especials o per altra motiu no permeti l'ús de la maquinària amb els que normalment s'executa el terraplè.
S'han considerat els tipus següents:
- Rebliment i piconatge de rasa amb terres
- Reblert de rases amb canonades o instal·lacions amb sorra natural o sorra de reciclatge de residus de la construcció o demolicions, provenint d'una planta legalment autoritzada per al tractament d'aquests residus
- Reblert de rases i pous per a drenatges, amb graves naturals o graves de reciclatge de residus de la construcció o demolicions, provenint d'una planta legalment autoritzada per al tractament d'aquests residus
L'execució de la unitat d'obra inclou les operacions següents:
- Preparació de la zona de treball
- Situació dels punts topogràfics
- Aportació del material en cas de graves, tot-u, o granulats reciclats
- Execució del rebliment
- Humectació o dessecació, en cas necessari
- Compactació de les terres
CONDICIONS GENERALS:
Les zones del reblert son les mateixes que les definides per als terraplens: Coronament, nucli, zona exterior i fonament.
Les tongades han de tenir un gruix uniforme i han de ser sensiblement paral·leles a la rasant.
El material de cada tongada ha de tenir les mateixes característiques.
El gruix de cada tongada ha de ser l'adequat per tal d'obtenir el grau de compactació exigit amb els mitjans que es disposen.
En cap cas el grau de compactació de cada tongada ha de ser inferior al més alt que tinguin els sòls adjacents, en el mateix nivell.
La composició granulomètrica de la grava ha de complir les condicions de filtratge fixades per la DF, en funció dels terrenys adjacents i del sistema previst d'evacuació d'aigua.
Les terres han de complir les especificacions fixades al seu plec de condicions.
La composició granulomètrica del tot-u ha de complir les especificacions fixades al seu plec de condicions.
En tota la superfície s'ha d'arribar, com a mínim, al grau de compactació previst expressat com a percentatge sobre la densitat màxima obtinguda en l'assaig Pròctor Modificat (UNE 103501).
RASA:
Toleràncies d'execució:
- Planor: ± 20 mm/m
- Nivells: ± 30 mm
RASA PER A INSTAL·LACIÓ DE TUBERIES:
El reblert ha d'estar format per dues zones:
- La zona baixa a una alçària fins a 30 cm per damunt de la generatriu superior del tub
- La zona alta, la resta de la rasa
El material de la zona baixa no ha de tenir matèria orgànica. El material de la zona alta ha de ser de forma que no produeixi danys a la canonada instal·lada.
2.- CONDICIONS DEL PROCÉS D'EXECUCIÓ

CONDICIONS GENERALS:
S'han de suspendre els treballs en cas de pluja quan la temperatura ambient sigui inferior a 0°C en el cas de graves o de tot-u, o inferior a 2°C en la resta de materials.
S'han de protegir els elements de servei públic que puguin resultar afectats per les obres.
S'han d'eliminar els elements que puguin entorpir els treballs d'execució de la partida.
Hi ha d'haver punts fixos de referència exteriors a la zona de treball, als quals s'hi han de referir totes les lectures topogràfiques.
Excepte en les rases de drenatje, en la resta de casos s'ha d'eliminar els materials inestables, turba o argila tova de la base per al rebliment.
L'ampliació o recrescuda de reblerts existents s'han de preparar de forma que es garanteixi la unió amb el nou reblert.
Les zones que per la seva forma puguin retenir aigua a la seva superfície s'han de corregir abans de l'execució.
El material s'ha d'estendre per tongades successives i uniformes, sensiblement paral·leles a la rasant final, i amb un gruix <= 25 cm.
No s'ha d'estendre cap tongada fins que la inferior compleixi les condicions exigides.
El material de cada tongada ha de tenir les característiques uniformes; en cas de no ser així, es buscaria la uniformitat mesclant-los amb els mitjans adequats.
Un cop estesa la tongada, si fos necessari, s'ha d'humitejar fins arribar al contingut òptim d'humitat, de manera uniforme.
Si el grau d'humitat de la tongada és superior a l'exigit, s'ha de dessecar mitjançant l'addició i mescla de materials secs o d'altres procediments adients.
S'han de mantenir els pendents i dispositius de desguàs necessaris per tal d'evitar entollaments, sense perill d'erosió.
Després de la pluja no s'ha d'estendre una nova tongada fins que l'última s'hagi assecat bé, o s'ha d'escarificar afegint la tongada següent més seca, de forma que l'humitat resultant sigui l'adient.
En l'execució de reblerts en contacte amb estructures de contenció, les tongades situades a ambdós costats de l'element han de quedar al mateix nivell.
Abans de la compactació cal comprovar que l'estructura amb la que estigui en contacte, ha assolit la resistència necessària.
Quan s'utilitzi corró vibratori per a compactar, ha de donar-se al final unes passades sense aplicar-hi vibració.
S'ha d'evitar el pas de vehicles per sobre de les capes en execució, fins que la compactació s'hagi completat.
S'ha de complir la normativa vigent en matèria mediambiental, de seguretat i salut i d'emmagatzematge i transport de productes de construcció.
Els treballs s'han de fer de manera que molestin el mínim als possibles afectats.
En cas d'imprevistos, s'han de suspendre les obres i avisar a la DF.
RASA PER A INSTAL·LACIÓ DE TUBERIES:
El reblert definitiu s'ha de fer un cop aprobada la instal·lació per la DF.
S'ha de compactar amb les precaucions necessàries per a no produïr moviments ni danys a la canonada instal·lada.
GRAVES PER A DRENATGES:
S'ha d'evitar l'exposició prolongada del material a la intempèrie.
El material s'ha d'emmagatzemar i d'utilitzar de forma que s'eviti la seva disgregació i contaminació. En cas de trobar zones segregades o contaminades per pols, per contacte amb la superfície de base o per inclusió de materials estranys, cal procedir a la seva eliminació.
Els treballs s'han de fer de manera que s'eviti la contaminació de la grava amb materials estranys.
Quan la tongada hagi d'estar constituïda per materials de granulometria diferent, s'ha de crear entre ells una superfície contínua de separació.
3.- UNITAT I CRITERI D'AMIDAMENT
m3 de volum amidat segons les especificacions de la DT.
La partida d'obra inclou el subministrament i aportació del material en cas de graves, tot-u o material provinent del reciclatge de residus de la construcció, i no està inclòs en cas de que es tracti de terres.
4.- NORMATIVA DE COMPLIMENT OBLIGATORI
* Orden de 6 de febrero de 1976 por la que se aprueba el Pliego de Prescripciones Técnicas Generales para Obras de Carreteras y Puentes (PG-3).
* Orden FOM/1382/2002 de 16 de mayo, por la que se actualizan determinados artículos del pliego de prescripciones técnicas generales para obras de carreteras y puentes relativos a la construcción de explanaciones, drenajes y cimentaciones (PG-3).
5.- CONDICIONS DE CONTROL D'EXECUCIÓ I DE L'OBRA ACABADA
OPERACIONS DE CONTROL:
Les tasques de control a realitzar són les següents:

- Inspecció visual de la base sobre la que s'assentarà el reblert.
- Inspecció visual del material a la descàrrega dels camions, retirant el que presenti restes de terra vegetal, matèria orgànica o pedres de grandària superior a l'admissible.
- Control de l'estesa: comprovació visual del gruix i amplada de les tongades d'execució i control de la temperatura ambient.
- Control de compactació. Es considera com a lot de control, el material compactat en un dia, corresponent a una mateixa procedència i tongada d'estesa, amb una superfície màxima de 150 m2. Es realitzaran 5 determinacions de la humitat i densitat in-situ (ASTM D 30-17).
- Assaig de placa de càrrega (DIN 18134), cada 450 m2, i al menys un cop per capa de reblert. En la zona d'aplicació de la placa es determinarà la humitat in-situ (NLT-103).
- Presa de coordenades i cotes a banda i banda i sobre l'eix de la plataforma en la coronació del reblert, i control de l'amplada de la tongada estesa, cada 20 m lineals com a màxim.
- Inspecció visual per a detectar punts baixos capaços de retenir aigua.

CRITERIS DE PRESA DE MOSTRES:
Es seguiran els criteris que en cada cas, indiqui la DF. En general, els punts de control de densitat i humitat estaran uniformement repartits en sentit longitudinal i aleatòriament distribuïts en la secció transversal de la tongada. En el cas de reblerts d'estreps o elements en els que es pugui produir una transició brusca de rigidesa, la distribució dels punts de control de compactació serà uniforme, a 50 cm dels paraments.
INTERPRETACIÓ DE RESULTATS I ACTUACIONS EN CAS D'INCOMPLIMENT:
No es podrà iniciar l'execució del reblert sense corregir els defectes observats a la base d'assentament.
Donada la rapidesa de la cadena operativa "extracció-compactació", la inspecció visual té una importància fonamental en el control dels reblerts, tant a nivell de materials com per a l'estesa.
La densitat obtinguda després de la compactació en coronació haurà de ser superior al 100 % de la màxima obtinguda en el Próctor Modificat (UNE 103501), i del 95 % en la resta de zones. En tot cas, la densitat ha de ser >= a la de les zones contigües al replè.
El contingut d'humitat de les capes compactades no serà causa de rebuig, excepte en el cas d'utilitzar, per causes justificades, sòls amb característiques expansives amb un inflament lliure <= 5%.
El valor del mòdul d'elasticitat (segon cicle) obtingut a la placa de càrrega ha de complir les limitacions establertes al plec de condicions.
En cas d'incompliment, el contractista corregirà la capa executada, per recompactació o substitució del material. En general, es treballarà sobre tota la tongada afectada (lot), a menys que el defecte de compactació estigui clarament localitzat. Els assaigs de comprovació de la compactació s'intensificaran al doble sobre les capes corregides.
Qualsevol altre cas d'execució incorrecta serà responsabilitat del Contractista, i la seva obligació serà reparar sense cost algun els errors que hagin sorgit.

P2 DEMOLICIONS, ENDERROCS, MOVIMENTS DE TERRES I GESTIÓ DE RESIDUS

P2R GESTIÓ DE RESIDUS I MATERIAL D'EXCAVACIÓ

P2R6- CÀRREGA I TRANSPORT DE RESIDUS A INSTAL·LACIÓ AUTORITZADA

0.- ELEMENTS QUE CONTEMPLA EL PLEC

P2R6-4I5G.

1.- DEFINICIÓ I CONDICIONS DE LES PARTIDES D'OBRA EXECUTADES
Operacions destinades a la gestió dels residus generats en l'obra: residu de construcció o demolició o material d'excavació.
S'han considerat les operacions següents:
- Transport o càrrega i transport del residu: material procedent d'excavació o residu de construcció o demolició
- Subministrament i recollida del contenidor dels residus

CÀRREGA I TRANSPORT DE MATERIAL D'EXCAVACIÓ I RESIDUS:

L'operació de càrrega s'ha de fer amb les precaucions necessàries per a aconseguir unes condicions de seguretat suficients.
S'ha d'evitar que es barregin terres no contaminades procedents d'excavació no contaminats amb altres residus d'enderroc, o terres contaminades.
Els vehicles de transport han de portar els elements adequats a fi d'evitar alteracions perjudicials del material.
El contenidor ha d'estar adaptat al material que ha de transportar.
El trajecte que s'ha de recórrer ha de complir les condicions d'amplària lliure i de pendent adequades a la maquinària que s'utilitzi.
TRANSPORT DINS DE LA OBRA:
Transport de terres i material d'excavació o del rebaix, o residus de la construcció, entre dos punts de la mateixa obra.
Les àrees d'abocada han de ser les que defineixi el "Pla de Gestió de Residus de la Construcció i Enderrocs" de l'obra.
L'abocada s'ha de fer al lloc i amb el gruix de capa indicats al "Pla de Gestió de Residus de la Construcció i els Enderrocs" de l'obra.
Les terres han de complir les especificacions del seu plec de condicions en funció del seu ús, i cal que tinguin l'aprovació de la DF.
TRANSPORT A INSTAL.LACIÓ EXTERNA DE GESTIÓ DE RESIDUS:
El material de rebuig que el "Pla de Gestió de Residus de la Construcció i els Enderrocs" i el que la DF no accepti per a reutilitzar en obra, s'ha de transportar a una instal·lació externa autoritzada, per tal de rebre el tractament definitiu.
El contractista ha de lliurar al promotor un certificat on s'indiqui, com a mínim:
- Identificació del productor dels residus
- Identificació del posseïdor dels residus
- Identificació de l'obra de la qual prové el residu i en el seu cas, el número de llicència d'obra
- Identificació del gestor autoritzat que ha rebut el residu i si aquest no fa la gestió de valorització o eliminació final del residu, la identificació, cal indicar també qui farà aquesta gestió
- Quantitat en t i m3 del residu gestionat i la seva codificació segons codi LER

2.- CONDICIONS DEL PROCÉS D'EXECUCIÓ
CÀRREGA I TRANSPORT DE MATERIAL D'EXCAVACIÓ I RESIDUS:
El transport s'ha de realitzar en un vehicle adequat, per al material que es desitgi transportar, proveït dels elements que calen per al seu desplaçament correcte.
Durant el transport s'ha de protegir el material de manera que no es produeixin pèrdues en els trajectes utilitzats.
RESIDUS DE LA CONSTRUCCIÓ:
La manipulació dels materials s'ha de fer amb les proteccions adequades a la perillositat del mateix.

3.- UNITAT I CRITERI D'AMIDAMENT
TRANSPORT DE MATERIAL D'EXCAVACIÓ O RESIDUS:
m3 de volum amidat amb el criteri de la partida d'obra d'excavació que li correspongui, incrementat amb el coeficient d'esponjament indicat en el plec de condicions tècniques, o qualsevol altre acceptat prèviament i expressament per la DF.
La unitat d'obra no inclou les despeses d'abocament ni de manteniment de l'abocador.
RESIDUS DE LA CONSTRUCCIÓ:
Es considera un increment per esponjament d'un 35%.

4.- NORMATIVA DE COMPLIMENT OBLIGATORI
Real Decreto 105/2008, de 1 de febrero, por el que se regula la producción y gestión de los residuos de construcción y demolición.
Decret Legislatiu 1/2009, de 21 de juliol, pel qual s'aprova el Text refós de la Llei reguladora dels residus.
Ley 7/2022, de 8 de abril, de residuos y suelos contaminados para una economía circular.
Real Decreto 108/1991, de 1 de febrero, sobre la prevención y reducción de la contaminación del medio ambiente producida por el amianto.
Decret 89/2010, de 29 de juny, pel qual s'aprova el Programa de gestió de residus de la construcció de Catalunya (PROGROC), es regula la producció i gestió dels residus de la construcció i demolició, i el cànon sobre la deposició controlada dels residus de la construcció.
Real Decreto 553/2020, de 2 de junio, por el que se regula el traslado de residuos en el interior del territorio del Estado.
Decret 152/2017, de 17 d'octubre, sobre la classificació, la codificació i les vies de gestió dels residus a Catalunya.

P2 DEMOLICIONS, ENDERROCS, MOVIMENTS DE TERRES I GESTIÓ DE RESIDUS

P2R GESTIÓ DE RESIDUS I MATERIAL D'EXCAVACIÓ

P2RA- DISPOSICIÓ DE RESIDUS INSTAL·LACIÓ AUTORITZADA

0.- ELEMENTS QUE CONTEMPLA EL PLEC

P2RA-EU2R,P2RA-EU2T.

1.- DEFINICIÓ I CONDICIONS DE LES PARTIDES D'OBRA EXECUTADES
Operacions destinades a la gestió dels residus generats en l'obra: residu de construcció o demolició o material d'excavació.
S'han considerat les operacions següents:
- Deposició del residu no reutilitzat en la instal·lació autoritzada de gestió on se li aplicarà el tractament de valorització, selecció i emmagatzematge o eliminació
- Deposició controlada a dipòsit autoritzat de residus d'amiant-ciment, amb codi LER 170605.
- Deposició controlada a dipòsit autoritzat de residus d'amiant friable o en pols, amb codi LER 170601
En cas d'amiant el material s'ha de transportar a una instal·lació externa autoritzada, per tal de rebre el tractament definitiu, d'acord amb l'especificat al Pla de treball i al Pla de gestió de residus.
El contractista ha de lliurar al promotor un certificat on s'indiqui, com a mínim:
- Identificació del productor dels residus
- Identificació del posseïdor dels residus
- Identificació de l'obra de la qual prové el residu i en el seu cas, el número de llicència d'obra
- Identificació del gestor autoritzat que ha rebut el residu i si aquest no fa la gestió de valorització o eliminació final del residu, la identificació, cal indicar també qui farà aquesta gestió
- Quantitat en t i m3 del residu gestionat i la seva codificació segons codi LER
DISPOSICIÓ DE RESIDUS:
Cada fracció s'ha de dipositar al lloc adequat legalment autoritzat per a que se li apliqui el tipus de tractament especificat en la DT: valorització, emmagatzematge o eliminació.
2.- CONDICIONS DEL PROCÉS D'EXECUCIÓ
RESIDUS DE LA CONSTRUCCIÓ:
La manipulació dels materials s'ha de fer amb les proteccions adequades a la perillositat del mateix.
3.- UNITAT I CRITERI D'AMIDAMENT
DISPOSICIÓ DE RESIDUS DE CONSTRUCCIÓ O DEMOLICIO INERTS O NO ESPECIALS I DE MATERIAL D'EXCAVACIÓ:
m3 de volum de cada tipus de residu dipositat a l'abocador o centre de recollida corresponent.
DISPOSICIÓ DE RESIDUS DE CONSTRUCCIÓ O DEMOLICIÓ ESPECIALS:
kg de pes de cada tipus de residu dipositat a l'abocador o centre de recollida corresponent.
DISPOSICIÓ DE RESIDUS:
La unitat d'obra inclou totes les despeses per la disposició de cada tipus de residu al centre corresponent.
Inclou el cànon d'abocament del residu a dipòsit controlat segons el que determina la Llei 8/2008, el pagament del qual queda suspès segons la Llei 7/2011.
La empresa receptora del residu ha de facilitar al constructor la informació necessària per complimentar el certificat de disposició de residus, d'acord amb l'article 5.3 del REAL DECRETO 105/2008.
4.- NORMATIVA DE COMPLIMENT OBLIGATORI
Real Decreto 105/2008, de 1 de febrero, por el que se regula la producción y gestión de los residuos de construcción y demolición.
Decret Legislatiu 1/2009, de 21 de juliol, pel qual s'aprova el Text refós de la Llei reguladora dels residus.
Ley 7/2022, de 8 de abril, de residuos y suelos contaminados para una economía circular.
Real Decreto 108/1991, de 1 de febrero, sobre la prevención y reducción de la contaminación del medio ambiente producida por el amianto.
Llei 8/2008, del 10 de juliol, de finançament de les infraestructures de gestió dels residus i dels cànons sobre la disposició del rebuig dels residus.

Llei 7/2011, del 27 de juliol, de mesures fiscals i financeres.
Decret 89/2010, de 29 de juny, pel qual s'aprova el Programa de gestió de residus de la construcció de Catalunya (PROGROC), es regula la producció i gestió dels residus de la construcció i demolició, i el cànon sobre la deposició controlada dels residus de la construcció.
Decret 152/2017, de 17 d'octubre, sobre la classificació, la codificació i les vies de gestió dels residus a Catalunya.
Real Decreto 396/2006, de 31 de marzo. por el que se establecen las disposiciones mínimas de seguridad y salud aplicables a los trabajos con riesgo de exposición al amianto.

P3 FONAMENTS, CONTENCIONS I TÚNELS

P3F ENCEPS

P3F0- ARMADURA PER A ENCEPS

0.- ELEMENTS QUE CONTEMPLA EL PLEC

P3F0-D53Z.

1.- DEFINICIÓ I CONDICIONS DE LES PARTIDES D'OBRA EXECUTADES
Muntatge i col·locació de l'armadura formada per barres corrugades, malla electrosoldada o conjunt de barres i/o malles d'acer, en formació d'armadura passiva d'elements estructurals de formigó, a l'excavació, a l'encofrat o ancorades a elements de formigó existents, o soldades a perfils d'acer.
S'han considerat les armadures per als elements següents:
- Fonaments
L'execució de la unitat d'obra inclou les operacions següents:
- Preparació de la zona de treball
- Tallat i doblegat de l'armadura
- Neteja de les armadures
- Neteja del fons de l'encofrat
- Col·locació dels separadors
- Muntatge i col·locació de l'armadura
- Subjecció dels elements que formen l'armadura
- Subjecció de l'armadura a l'encofrat
CONDICIONS GENERALS:
Per a l'elaboració, manipulació i muntatge de les armadures s'ha de seguir les indicacions del CODI ESTRUCTURAL i l'UNE 36831.
Els diàmetres, la forma, les dimensions i la disposició de les armadures han de ser les que s'especifiquen a la DT. El nombre de barres no ha de ser mai inferior a l'especificat a la DT.
Les barres no han de tenir defectes superficials ni esquerdes.
Les armadures han de ser netes, no han de tenir òxid no adherent, pintura, greix ni d'altres substàncies que puguin perjudicar a l'acer, al formigó o a l'adherència entre ells.
La disposició de les armadures ha de permetre un formigonament correcte de la peça, de manera que totes les barres quedin recobertes de formigó.
En barres situades per capes, la separació entre elles ha de permetre el pas d'un vibrador intern.
La secció equivalent de les barres de l'armadura no ha de ser inferior al 95,5% de la secció nominal.
Els empalmaments entre barres han de garantir la transmissió de forces d'una barra a la següent, sense que es produeixin lesions en el formigó proper a la zona d'empalmament.
No hi ha d'haver més empalmaments dels que consten a la DT o autoritzi la DF.
Els empalmaments han de quedar allunyats de les zones on l'armadura treballa a la màxima càrrega.
Els empalmaments es poden realitzar per solapa o per soldadura.
Per a realitzar un altre tipus d'empalmament es requerirà disposar d'assaigs que demostrin que garanteixen de forma permanent una resistència a la ruptura no inferior a

la de la menor de les dues barres que s'uneixen i que el moviment relatiu entre elles no sigui superior a 0,1 mm.
L'armat de la ferralla s'ha de realitzar mitjançant lligat amb filferro o per aplicació de soldadura no resistent. La disposició dels punts de lligat ha de complir l'especificat en l'apartat 49.4.3.1 del CODI ESTRUCTURAL.
La soldadura no resistent, ha de complir l'especificat en l'article 49.4.3.2 del CODI ESTRUCTURAL, seguint els procediments establerts en la UNE 36832.
La realització dels empalmaments pel que fa al procediment, la disposició dins la peça, la llargària dels solapaments i la posició dels diferents empalmaments en barres properes, ha de seguir les prescripcions del CODI ESTRUCTURAL a l'article 49.5.2.
A les solapes no s'han de disposar ganxos ni potes.
L'empalmament per soldadura s'ha de fer seguint les prescripcions de l'article 49.5.2.5 del CODI ESTRUCTURAL amb els procediments descrits en la UNE 36832.
No es poden disposar empalmaments per soldadura a les zones de forta curvatura de l'armadura.
Queda prohibida la soldadura d'armadures galvanitzades o amb recobriments epoxídics.
Els empalmaments mitjançant dispositius mecànics d'unió, s'han de realitzar segons les especificacions de la DT i les indicacions del fabricant, en qualsevol cas, s'ha de complir l'especificat en l'article 49.5.2.6 del CODI ESTRUCTURAL.
Les armadures han d'estar subjectades entre elles i a l'encofrat de manera que mantinguin la seva posició durant l'abocada i la compactació del formigó.
Les armadures d'espera han d'estar subjectades a l'engraellat dels fonaments.
Quan és necessari recobriments superiors a 50 mm, s'ha de col·locar una malla de repartiment en mig d'aquest gruix, en la zona de tracció, segons s'especifica a l'article 44.2.1.1 del CODI ESTRUCTURAL, excepte en el cas d'elements que hagin de quedar soterrats.
La DF ha d'aprovar la col·locació de les armadures abans de començar el formigonament.
Per a qualsevol classe d'armadures passives, inclosos els estreps, el recobriment no ha de ser inferior, en cap punt, als valors determinats en la taula de l'apartat 44 del CODI ESTRUCTURAL, en funció de la classe d'exposició ambiental a que es sotmetrà el formigó armat, segons l'article 27.1 del CODI ESTRUCTURAL.
Els sistemes auxiliars per a l'armat de la peça formats per barres o filferros, encara que no formen part de l'armadura, han de complir els recobriments mínims, a efectes de garantir la durabilitat de la peça.
Distància lliure armadura parament: >= D màxim, >= 0,80 granulat màxim
(on: D diàmetre armadura principal o diàmetre equivalent)
Recobriment en peces formigonades contra el terreny: >= 70 mm
Distància lliure barra doblegada - parament: >= 2 D
La realització dels ancoratges de les barres al formigó, pel que fa a la forma, posició dins la peça i llargària de les barres ha de seguir les prescripcions del CODI ESTRUCTURAL a l'article 49.5.1.
Toleràncies d'execució:
- Llargària solapa: - 0 mm, + 50 mm
- Llargària d'ancoratge i solapa: -0,05L (<= 50 mm, mínim 12 mm), + 0,10 L (<=50 mm)
- Posició: - En series de barres paral·leles: ± 50 mm - En estreps i cèrcols: ± b/12 mm
(on b es el costat menor de la secció de l'element)
Les toleràncies en el recobriment i la posició de les armadures han de complir l'especificat a l'UNE 36831.
BARRES CORRUGADES:
Es poden col·locar en contacte tres barres, com a màxim, de l'armadura principal i quatre en el cas de peces comprimides, formigonades en posició vertical, on no sigui necessari realitzar empalmaments en les armadures.
El diàmetre equivalent del grup de les barres no ha de ser de més de 50 mm. (on diàmetre equivalent es el de la secció circular equivalent a la suma de les seccions de les barres que formen el grup).
Si la peça ha de suportar esforços de compressió i es formigona en posició vertical, el diàmetre equivalent no ha de ser de més de 70 mm.
No s'han de solapar barres de D >= 32 mm sense justificar satisfactòriament el seu comportament.
Els empalmaments per solapa de barres agrupades han de complir l'article 49.5.2.3 del CODI ESTRUCTURAL.
Es prohibeix l'empalmament per solapa en grups de quatre barres.
En la zona de solapament s'ha de disposar armadures transversals amb secció igual o superior a la secció de la barra solapada més gran.
Distància lliure vertical i horitzontal entre 2 barres aïllades consecutives: >= D màxim, >= 1,25 granulat màxim, >= 20 mm

Distància entre els centres dels empalmaments de barres consecutives, segons direcció de l'armadura: >= longitud bàsica d'ancoratge (Lb)
Distància entre les barres d'un empalmament per solapa: <= 4 D
Distància entre barres traccionades empalmades per solapa: <= 4 D, >= D màxim, >= 20 mm, >= 1,25 granulat màxim
Llargària solapa: a x Lb neta:
(on: a coeficient indicat en la taula 49.5.2.2; Lb neta valor de la taula 49.5.1.2.b del CODI ESTRUCTURAL)
ENCEPS:
L'armadura inferior ha de quedar col·locada en tota la llargària de l'element, sense reduir la seva secció. Aquesta armadura ha de quedar ancorada per prolongació recta o en angle recte, o mitjançant barres transversals soldades, a partir de plans verticals que passin per l'eix de cada pilot.
2.- CONDICIONS DEL PROCÉS D'EXECUCIÓ
CONDICIONS GENERALS:
El doblegat de les armadures s'ha de fer a temperatura ambient, mitjançant doblegadores mecàniques i a velocitat constant, amb l'ajut de mandrí, de manera que es garanteixi una curvatura constant en tota la zona.
No s'han d'adreçar colzes excepte si es pot verificar que no es faran malbé.
S'han de col·locar separadors per a garantir el recobriment mínim i no han de produir fissures ni filtracions al formigó. La disposició dels separadors ha de complir l'especificat en la taula 49.8.2 del CODI ESTRUCTURAL.
Els separadors han d'estar expressament dissenyats per a aquesta finalitat i han de complir l'especificat en l'article 43.4.2 del CODI ESTRUCTURAL. Es prohibeix l'ús de fusta o qualsevol material residual de construcció (maó, formigó, etc.). Si han de quedar vistos, no poden ser metàl·lics.
En cas de realitzar soldadures s'han de seguir les disposicions de la norma UNE 36832 i les han d'executar operaris qualificats d'acord amb la normativa vigent.
3.- UNITAT I CRITERI D'AMIDAMENT
BARRES CORRUGADES:
kg de pes calculat segons les especificacions de la DT, d'acord amb els criteris següents:
- El pes unitari per al seu càlcul ha de ser el teòric
- Per a poder utilitzar un altre valor diferent del teòric, cal l'acceptació expressa de la DF.
- El pes s'obtindrà amidant la llargària total de les barres (barra+cavalcament)
- L'escreix d'amidament corresponent als retalls està incorporat al preu de la unitat d'obra com a increment del rendiment (1,05 kg de barra d'acer per kg de barra ferrallada, dins de l'element compost)
4.- NORMATIVA DE COMPLIMENT OBLIGATORI
NORMATIVA GENERAL:
Documento Básico de Seguridad estructural DB-SE, parte II del CTE, aprobado por el Real Decreto 314/2006.
Real Decreto 470/2021, de 29 de junio, por el que se aprueba el Código Estructural.
5.- CONDICIONS DE CONTROL D'EXECUCIÓ I DE L'OBRA ACABADA
OPERACIONS DE CONTROL:
Els punts de control més destacables són els següents:
- Recepció i aprovació del informe d'especejament per part del contractista.
- Inspecció abans del formigonat de totes les unitats d'obra estructurals amb observació dels següents punts: - Tipus, diàmetre, longitud i disposició de les barres i malles col·locades. - Rectitud. - Lligams entre les barres. - Rigidesa del conjunt.
- Netedat dels elements.
CRITERIS DE PRESA DE MOSTRES:
Bàsicament el control de l'execució està confiat a la inspecció visual de les persones que l'exerceixen, amb la qual cosa el seu bon sentit, coneixements tècnics i experiència son fonamentals per aconseguir el nivell de qualitat previst.
INTERPRETACIÓ DE RESULTATS I ACTUACIONS EN CAS D'INCOMPLIMENT:
Desautorització del formigonat fins que no es prenguin les mesures de correcció adequades.

P3 FONAMENTS, CONTENCIONS I TÚNELS

P3F ENCEPS

P3F2- FORMIGONAMENT D'ENCEPS (CE, EHE)

0.- ELEMENTS QUE CONTEMPLA EL PLEC

P3F2-JH8K.

1.- DEFINICIÓ I CONDICIONS DE LES PARTIDES D'OBRA EXECUTADES
Formigonament d'estructures i elements estructurals, amb formigó en massa, armat, per a pretensar, formigó autocompactant i formigó lleuger, de central o elaborat a l'obra en planta dosificadora, que compleixi les prescripcions del CODI ESTRUCTURAL, abocat directament des de camió, amb bomba o amb cubilot, i operacions auxiliars relacionades amb el formigonament i la cura del formigó.
S'han considerat els elements a formigonar següents:
- Enceps
L'execució de la unitat d'obra inclou les operacions següents:
Formigonament:
- Preparació de la zona de treball
- Humectació de l'encofrat
- Abocada del formigó
- Compactació del formigó mitjançant vibratge, en el seu cas
- Curat del formigó
CONDICIONS GENERALS:
En l'execució de l'element s'han de complir les prescripcions establertes en la normativa aplicable, en especial les que fan referència a la durabilitat del formigó i les armadures (article 43 del CODI ESTRUCTURAL) en funció de les classes d'exposició.
El formigó estructural ha de fabricar-se en centrals específiques
En cap cas es tolerarà la col·locació en obra de masses que acusin principi d'adormiment.
El formigó col·locat no ha de tenir disgregacions o buits a la massa.
Després del formigonament les armadures han de mantenir la posició prevista a la DT.
La secció de l'element no ha de quedar disminuïda en cap punt per la introducció d'elements de l'encofrat ni d'altres.
L'element acabat ha de tenir una superfície uniforme, sense irregularitats.
Si la superfície ha de quedar vista ha de tenir, a més, una coloració uniforme sense regalims, taques, o elements adherits.
La resistència característica del formigó es comprovarà d'acord amb l'article 57 del capítol 13 del CODI ESTRUCTURAL.
Les toleràncies en el recobriment i la posició de les armadures han de complir l'especificat a l'UNE 36831.
No s'accepten toleràncies en el replanteig d'eixos en l'execució de fonaments de mitgeres, buits d'ascensor, passos d'instal·lacions, etc., fora que ho autoritzi explícitament la DF.
ENCEPS:
Toleràncies d'execució:
- Replanteig parcial dels eixos: ± 20 mm
- Replanteig total dels eixos: ± 50 mm
- Horitzontalitat: ± 5 mm/m, <= 15 mm
- Aplomat: ± 10 mm
- Desviació en planta, del centre de gravetat: < 2% dimensió en la direcció considerada, ± 50 mm
- Nivells: - Cara superior del formigó de neteja: + 20 mm, - 50 mm - Cara superior del fonament: + 20 mm, - 50 mm - Gruix del formigó de neteja: - 30 mm
- Dimensions en planta: - Fonaments encofrats: + 40 mm; -20mm - Fonaments formigonats contra el terreny (D:dimensió considerada): - D <= 1 m: + 80 mm; -20mm - 1 m < D <= 2,5 m: + 120 mm , -20mm - D > 2,5 m: + 200 mm , -20mm
- Secció transversal (D:dimensió considerada): - En tots els casos: + 5%(<= 120 mm), - 5%(<= 20 mm) - D <= 30 cm: + 10 mm, - 8 mm - 30 cm < D <= 100 cm: + 12 mm, -10 mm - 100 cm < D: + 24 mm, - 20 mm
Planor: - Formigó de neteja: ± 16 mm/2 m - Cara superior del fonament: ± 16 mm/2 m - Cares laterals (fonaments encofrats)± 16 mm/2 m
Les toleràncies d'execució han de complir l'especificat en el punt 5 de l'annex 14 del CODI ESTRUCTURAL.

2.- CONDICIONS DEL PROCÉS D'EXECUCIÓ
FORMIGONAMENT:
Si la superfície sobre la que s'ha de formigonar ha sofert gelada, s'ha d'eliminar prèviament la part afectada.
La temperatura dels elements on s'aboca el formigó ha de ser superior als 0°C.
El formigó s'ha de posar a l'obra abans que comenci l'adormiment, i a una temperatura >= 5°C.
La temperatura per a formigonar ha d'estar entre 5°C i 40°C. El formigonament s'ha de suspendre quan es prevegi que durant les 48 h següents la temperatura pot ser inferior a 0°C. Fora d'aquests límits, el formigonament requereix precaucions explícites i l'autorització de la DF En aquest cas, s'han de fer provetes amb les mateixes condicions de l'obra, per a poder verificar la resistència realment assolida.
Si l'encofrat és de fusta, ha de tenir la humitat necessària per tal que no absorbeixi l'aigua del formigó.
No s'admet l'alumini en motlles que hagin d'estar en contacte amb el formigó.
Segons el capítol 11 article 48.3 del CODI ESTRUCTURAL, s'admet l'alumini en motlles que hagin d'estar en contacte amb el formigó sempre que pugui facilitar-se a la DF un certificat, elaborat per una entitat de control i signat per una persona física, que els panells emprats han estat sotmesos amb anterioritat a un tractament de protecció superficial que evitar la reacció amb els álcalis del ciment.
No es procedirà al formigonat fins que la DF doni el vist-i-plau havent revisat armadures col·locades en posició definitiva.
La DF comprovarà l'absència de defectes significatius en la superfície de formigó. En cas de considerar els defectes inadmissibles d'acord amb el projecte la DF valorarà la reparació.
No es col·locarà en obra capes o tongades de formigó amb un gruix superior al que permeti una compactació completa de la massa
Si l'abocada del formigó es fa amb bomba, la DF ha d'aprovar la instal·lació de bombeig prèviament al formigonament.
No pot transcórrer més d'1,5 hora des de la fabricació del formigó fins el formigonament, a menys que la DF ho cregui convenient per aplicar medis que retardin l'adormiment.
No s'han de posar en contacte formigons fabricats amb tipus de ciments incompatibles entre ells.
L'abocada s'ha de fer des d'una alçària petita i sense que es produeixin disgregacions.
La compactació del formigó es realitzarà mitjançant processos adequats a la consistència de la mescla i de manera que s'eliminin forats i s'eviti la segregació.
S'ha de garantir que durant l'abocat i compactat del formigó no es produeixen desplaçaments de l'armadura.
La velocitat de formigonament ha de ser suficient per assegurar que l'aire no quedi agafat i assenti el formigó.
El formigonament s'ha de suspendre en cas de pluja o de vent fort. Eventualment, la continuació dels treballs, en la forma que es proposi, ha de ser aprovada per la DF.
En cap cas s'ha d'aturar el formigonament si no s'ha arribat a un junt adequat.
Els junts de formigonament han de ser aprovats per la DF abans del formigonat del junt.
En tornar a iniciar el formigonament del junt s'ha de retirar la capa superficial de morter, deixant els granulats al descobert i el junt net. Per a fer-ho no s'han d'utilitzar productes corrosius.
Abans de formigonar el junt s'ha d'humitejar, evitant que es facin tolls d'aigua en el junt.
Es poden utilitzar productes específics (com les resines epoxi) per a l'execució de junts sempre que es justifiqui i es supervisi per la DF.
Un cop reblert l'element no s'ha de corregir el seu aplomat, ni el seu anivellament.
Durant l'adormiment i primer període d'enduriment del formigó cal assegurar el manteniment de la humitat de l'element de formigó mitjançant el curat adequat.
Durant l'adormiment s'han d'evitar sobrecàrregues i vibracions que puguin provocar la fissuració de l'element.
FORMIGÓ ESTRUCTURAL:
La compactació s'ha de realitzar per vibratge. El gruix màxim de la tongada depèn del vibrador utilitzat. S'ha de vibrar fins que s'aconsegueixi una massa compacta i sense que es produeixin disgregacions.
El vibratge ha de fer-se més intens a les zones d'alta densitat d'armadures, a les cantonades i als paraments.
ENCEPS:
El formigonament s'ha de fer sense interrupcions.
3.- UNITAT I CRITERI D'AMIDAMENT
FORMIGONAMENT:
m3 de volum amidat segons les especificacions de la DT, amb aquelles modificacions i singularitats acceptades prèviament i expressament per la DF.

4.- NORMATIVA DE COMPLIMENT OBLIGATORI
Real Decreto 470/2021, de 29 de junio, por el que se aprueba el Código Estructural.
5.- CONDICIONS DE CONTROL D'EXECUCIÓ I DE L'OBRA ACABADA
CONTROL D'EXECUCIÓ. OPERACIONS DE CONTROL:
Els punts de control més destacables són els següents:
- Aprovació del pla de formigonat presentat pel contractista.
- Inspecció visual de totes les excavacions abans de la col·locació de les armadures, amb observació de l'estat de neteja i entrada d'aigua en tot el recinte.
- Presa de coordenades i cotes de totes les unitats d'obra abans del formigonat.
- Observació de la superfície sobre la que s'ha d'estendre el formigó i de les condicions d'encofrat. Mesura de les dimensions de totes les unitats estructurals d'obra, entre els encofrats, abans de formigonar.
- Verificació de la correcte disposició de l'armat i de les mesures constructives per tal d'evitar moviments de la ferralla durant el formigonat.
- Inspecció del procés de formigonat amb control, entre d'altres aspectes, de la temperatura i condicions ambientals.
- Control del desencofrat i del procés i condicions de curat.
- Presa de coordenades i cotes dels punts que hagin de rebre prefabricats, després del formigonat.
CONTROL D'EXECUCIÓ. CRITERIS DE PRESA DE MOSTRES:
Els controls s'han de realitzar segons les indicacions de la DF, i el contingut del capítol 12 article 55 del CODI ESTRUCTURAL.
CONTROL D'EXECUCIÓ. INTERPRETACIÓ DE RESULTATS I ACTUACIONS EN CAS D'INCOMPLIMENT:
No es podrà iniciar el formigonat d'un element sense la corresponent aprovació de la DF.
CONTROL DE L'OBRA ACABADA. OPERACIONS DE CONTROL:
Els punts de control més destacables són els següents:
Inspecció visual de la unitat finalitzada i control de les condicions geomètriques d'acabat, segons el capítol 5 de l'annex 14 del CODI ESTRUCTURAL.
- Assaigs d'informació complementària.
De les estructures projectades i construïdes en les que els materials i l'execució hagin assolit la qualitat prevista, comprovada mitjançant els controls preceptius, sols necessiten sotmetre's a assaigs d'informació i en particular a proves de càrrega, les incloses en els següents supòsits:
- Quan així ho disposi les Instruccions, reglaments específics d'un tipus d'estructura o el plec de prescripcions tècniques particulars.
- Quan degut a caràcter particular de l'estructura convingui comprovar que la mateixa reuneix certes condicions específiques. En aquest cas el plec de prescripcions tècniques particulars establirà els assaigs oportuns que s'han de realitzar, indicant amb tota precisió la forma de realitzar-los i la manera d'interpretar els resultats.
- Quan a judici de la Direcció Facultativa existeixin dubtes raonables sobre la seguretat, funcionalitat o durabilitat de l'estructura.
CONTROL DE L'OBRA ACABADA. CRITERIS DE PRESA DE MOSTRES:
Els controls s'han de realitzar segons les indicacions de la DF, i el contingut del capítol 12 article 55 del CODI ESTRUCTURAL.
CONTROL DE L'OBRA ACABADA. INTERPRETACIÓ DE RESULTATS I ACTUACIONS EN CAS D'INCOMPLIMENT:
Si s'aprecien deficiències importants en l'element construït, la DF podrà encarregar assaigs d'informació complementaria (testimonis, ultrasons, escleròmetre) sobre el formigó endurit, per tal de tenir coneixement de les condicions de resistència assolides o altres característiques de l'element formigonat.

P3 FONAMENTS, CONTENCIONS I TÚNELS

P3Z ELEMENTS ESPECIALS PER A FONAMENTS

P3Z3- CAPA DE NETEJA I ANIVELLAMENT

0.- ELEMENTS QUE CONTEMPLA EL PLEC

P3Z3-D52S.

1.- DEFINICIÓ I CONDICIONS DE LES PARTIDES D'OBRA EXECUTADES
Formació de capa de neteja i anivellament, mitjançant l'abocada de formigó al fons de les rases o dels pous de fonamentació prèviament excavats.
L'execució de la unitat d'obra inclou les operacions següents:
- Neteja, refinat i preparació de la superfície del fons de l'excavació
- Situació dels punts de referència dels nivells
- Abocada i estesa del formigó
- Curat del formigó
CONDICIONS GENERALS:
La superfície ha de ser plana i anivellada.
Els formigons de neteja han de tenir una dosificació mínima de 150 kg/m3 de ciment.
La mida màxima del granulat es recomanable sigui inferior a 30 mm.
Es tipificaran de la manera següent: HL-150/C/TM, on C = consistència i TM= mida màxima del granulat.
El formigó no ha de tenir disgregacions ni buits a la massa.
Gruix de la capa de formigó: >= 10 cm
Toleràncies d'execució:
- Gruix de la capa: - 30 mm
- Nivell: +20 / - 50 mm
- Planor: ± 16 mm/2 m
2.- CONDICIONS DEL PROCÉS D'EXECUCIÓ
L'acabat del fons de la rasa o pou, s'ha de fer immediatament abans de col·locar el formigó de neteja. Si ha de passar un temps entre l'excavació i l'abocada del formigó, cal deixar els 10 o 15 cm finals del terreny sense extreure, i fer l'acabat final del terreny just abans de fer la capa de neteja.
La temperatura ambient per a formigonar ha d'estar entre 5°C i 40°C.
El formigonament s'ha d'aturar, com a norma general, en cas de pluja o quan es preveu que durant les 48 hores següents la temperatura pot ser inferior a 0°C.
El formigó s'ha de col·locar abans d'iniciar l'adormiment.
L'abocada s'ha de fer sense que es produeixin disgregacions.
3.- UNITAT I CRITERI D'AMIDAMENT
m2 de superfície amidada segons les especificacions de la DT.
4.- NORMATIVA DE COMPLIMENT OBLIGATORI
Documento Básico de Seguridad estructural DB-SE, parte II del CTE, aprobado por el Real Decreto 314/2006.
Real Decreto 470/2021, de 29 de junio, por el que se aprueba el Código Estructural.
5.- CONDICIONS DE CONTROL D'EXECUCIÓ I DE L'OBRA ACABADA
OPERACIONS DE CONTROL:
Les tasques de control a realitzar són les següents:
- Observació de la superfície sobre la que s'ha d'estendre la capa de neteja.
- Inspecció del procés de formigonat amb control de la temperatura ambient.
- Control de les condicions geomètriques d'acabat (gruix, nivell i planor).
CRITERIS DE PRESA DE MOSTRES:
Les operacions de control s'han de realitzar segons les indicacions de la DF.
INTERPRETACIÓ DE RESULTATS I ACTUACIONS EN CAS D'INCOMPLIMENT:
No es podrà iniciar el formigonat d'un element sense la corresponent aprovació de la DF.
La correcció dels defectes observats ha d'anar a càrrec del contractista.

P4 ESTRUCTURES

P44 ESTRUCTURES D'ACER

P446- ELEMENT D'ANCORATGE, COL·LOCAT

0.- ELEMENTS QUE CONTEMPLA EL PLEC

P446-DM8A.

1.- DEFINICIÓ I CONDICIONS DE LES PARTIDES D'OBRA EXECUTADES
Formació d'elements estructurals amb perfils normalitzats d'acer, utilitzats directament o formant peces compostes.
S'han considerat els elements següents:
- Elements d'ancoratge
S'han considerat els tipus de perfils següents:
- Perfils d'acer laminat en calent, de les sèries IPN, IPE, HEA, HEB, HEM o UPN, d'acer S275JR, S275J0, S275J2, S355JR, S355J0 o S355J2, segons CÓDIGO ESTRUCTURAL (RD 470/2021), UNE-EN 10025-2
- Perfils d'acer laminat en calent de les sèries L, LD, T, rodó, quadrat, rectangular o planxa, d'acer S275JR, S275J0, S275J2, S355JR, S355J0 o S355J2, segons CÓDIGO ESTRUCTURAL (RD 470/2021), UNE-EN 10025-2
- Perfils foradats d'acer laminat en calent de les sèries rodó, quadrat o rectangular d'acer S275J0H o S355J2H, segons CÓDIGO ESTRUCTURAL (RD 470/2021), UNE-EN 10210-1
- Perfils foradats conformats en fred de les sèries rodó, quadrat o rectangular d'acer S275J0H o S355J2H, segons CÓDIGO ESTRUCTURAL (RD 470/2021), UNE-EN 10219-1
- Perfils conformats en fred, de les sèries L, LD, U, C, Z, o Omega, d'acer S235JRC, segons CÓDIGO ESTRUCTURAL (RD 470/2021), UNE-EN 10025-2
S'han considerat els acabats superficials següents:
- Pintat amb una capa d'emprimació antioxidant
- Galvanitzat
S'han considerat els tipus de col·locació següents:
- Col·locació amb soldadura
- Col·locació amb cargols
- Col·locació sobre obres de fàbrica o de formigó, recolzats o encastats
L'execució de la unitat d'obra inclou les operacions següents:
- Preparació de la zona de treball
- Replanteig i marcat dels eixos
- Col·locació i fixació provisional de la peça
- Aplomat i anivellació definitius
- Execució de les unions, en el seu cas
- Comprovació final de l'aplomat i dels nivells
CONDICIONS GENERALS:
Els materials utilitzats han de tenir la qualitat establerta a la DT. No s'han de fer modificacions sense autorització de la DF encara que suposin un increment de les característiques mecàniques.
La peça ha d'estar col·locada a la posició indicada a la DT, amb les modificacions aprovades per la DF.
La peça ha d'estar correctament aplomada i nivellada.
Quan la peça sigui composta, la disposició dels diferents elements de la peça, les seves dimensions, tipus d'acer i perfils s'han de correspondre amb les indicacions de la DT.
Cada component de l'estructura ha de dur una marca d'identificació que ha de ser visible després del muntatge. Aquesta marca no ha d'estar feta amb entalladura cisellada.
La marca d'identificació ha d'indicar l'orientació de muntatge del component estructural quan aquesta no es dedueixi clarament de la seva forma.
Els elements de fixació, i les xapes, plaques petites i accessoris de muntatge han d'anar embalats i identificats adequadament.
L'element ha d'estar pintat amb una capa de protecció de pintura antioxidant, excepte si està galvanitzat.
Els cantells de les peces no han de tenir òxid adherit, rebaves, estries o irregularitats que dificultin el contacte amb l'element que s'han d'unir.
Si el perfil està galvanitzat, la col·locació de l'element no ha de produir desperfectes en el recobriment del zenc.
L'element no s'ha d'adreçar un cop col·locat definitivament.
No es permet reblir amb soldadura els forats que han estat practicats a l'estructura per a disposar cargols provisionals de muntatge.

Toleràncies d'execució:
- En obres d'edificació: Límits establerts als apartats 11.1 i 11.2 del DB-SE A i a l'annexe 16 del CODI ESTRUCTURAL.
- En obres d'enginyeria civil: Límits establerts a l'article 640.12 del PG3 i l'annexe 16 del CODI ESTRUCTURAL.

COL·LOCACIÓ AMB CARGOLS:
S'utilitzaran cargols normalitzats d'acord a les normes recollides a la taula 85.2.b del CODI ESTRUCTURAL
Els cargols aixamfranats, cargols calibrats, perns articulats i els cargols hexagonals d'injecció s'han d'utilitzar seguint les instruccions del seu fabricant i han de complir els requisits addicionals establerts a l'article 85.2 del CODI ESTRUCTURAL.
La situació dels cargols a la unió ha de ser tal que redueixi la possibilitat de corrosió i pandeig local de les xapes, i ha de facilitar el muntatge i les inspeccions.
El diàmetre nominal mínim dels cargols ha de ser de 12 mm.
La rosca pot estar inclosa en el pla de tall, excepte en el cas que els cargols s'utilitzin com a calibrats.
Després del collat l'espiga del cargol ha de sobresortir de la rosca de la femella. Entre la superfície de recolzament de la femella i la part no roscada de l'espiga ha d'haver, com a mínim:
- En cargols pretesats: 4 filets complerts més la sortida de la rosca
- En cargols sense pretesar: 1 filet complert més la sortida de la rosca

Les superfícies dels caps de cargols i femelles han d'estar perfectament planes i netes.
En els cargols col·locats en posició vertical, la femella ha d'estar situada per sota del cap del cargol.
En els forats rodons normals i amb cargols sense pretesar no és necessari utilitzar volanderes. Si s'utilitzen han d'anar sota el cap dels cargols, han de ser aixamfranades i el xamfrà ha d'estar situat en direcció al cap del cargol.
En els cargols pretesats, les volanderes han de ser planes endurides i han d'anar col·locades de la forma següent:
- Cargols 10.9: sota el cap del cargol i de la femella
- Cargols 8.8: sota de l'element que gira

Toleràncies d'execució:
- Franquícia màxima entre superfícies adjacents: - Si s'utilitzen cargols no pretesats: 2 mm - Si s'utilitzen cargols pretesats: 1 mm
- Diàmetre dels forats: - En obres d'edificació: Límits establerts a l'apartat 11.1 del DB-SE A i a l'article 93.2 del CODI ESTRUCTURAL - En obres d'enginyeria civil: Límits establerts als apartats 640.5.1.3 i 640.5.1.4 del PG3 i a l'article 93.2 del CODI ESTRUCTURAL.
- Posició dels forats: - En obres d'edificació: Límits establerts a l'apartat 11.1 del DB-SE A i a l'article 93.2 del CODI ESTRUCTURAL. - En obres d'enginyeria civil: Límits establerts a l'apartat 640.5.1.1 del PG3 i a l'article 93.2 del CODI ESTRUCTURAL.

COL·LOCACIÓ AMB SOLDADURA:
El material d'aportació utilitzat ha de ser apropiat als materials a soldar i al procediment de soldadura.
Les característiques mecàniques del material d'aportació han de ser superiors a les del material base.
En acers de resistència millorada a la corrosió atmosfèrica, la resistència a la corrosió del material d'aportació ha de ser equivalent a la del material base.
El plec de prescripcions tècniques particulars definirà el sistema de protecció enfront la corrossió.
Els mètodes de protecció podran ser:
- Metalització, segons l'UNE-EN ISO 2063.
- Galvanització en calent, segons l'UNE-EN ISO 1461.
- Sistemes de pintura, segons l'UNE-EN ISO 12944.

2.- CONDICIONS DEL PROCÉS D'EXECUCIÓ
CONDICIONS GENERALS:
El constructor ha d'elaborar els plànols de taller i un programa de muntatge que han de ser aprovats per la DF abans d'iniciar els treballs en obra.
Qualsevol modificació durant els treballs ha d'aprovar-la la DF i reflectir-se posteriorment en els plànols de taller.
Els components estructurals s'han de manipular evitant que es produeixin deformacions permanents i procurant que els desperfectes superficials siguin mínims. Han d'anar protegits en els punts de subjecció.
Tot subconjunt estructural que durant les operacions de càrrega, transport, emmagatzematge i muntatge experimenti desperfectes, s'ha de reparar fins que sigui conforme.

Si durant el transport el material ha sofert desperfectes que no poden ser corregits o es preveu que després d'arreglar-los afectarà al seu treball estructural, la peça ha de ser substituïda.
Els components de l'estructura s'han d'emmagatzemar apilats sobre el terreny sense estar en contacte amb el terra i de forma que no es produeixi acumulació d'aigua.
El muntatge de l'estructura s'ha de fer d'acord amb el programa de muntatge i garantint la seguretat estructural en tot moment.
Durant les operacions de muntatge, l'estructura ha de resistir, en condicions de seguretat, les càrregues provisionals de muntatge i els efectes de les càrregues de vent.
Les traves i encastaments o subjeccions provisionals s'han de mantenir en la seva posició fins que l'avanç del muntatge permeti que puguin ser retirats de forma segura.
Les unions per a peces provisionals necessàries per al muntatge s'han de fer de forma que no debilitin l'estructura ni disminueixin la seva capacitat de servei.
La secció de l'element no ha de quedar disminuida pels sistemes de muntatges utilitzats.
Els dispositius d'ancoratge provisionals s'han d'assegurar per a evitar que s'afluixin de forma involuntària.
Durant el procés de muntatge, el constructor ha de garantir que ninguna part de l'estructura estigui deformada o sobrecarregada permanentment per l'apilament de materials estructurals o per càrregues provisionals de muntatge.
Un cop muntada una part de l'estructura, s'ha d'alinear al més aviat possible i immediatament després completar el cargolament.
No s'han de fer unions permanents fins que una part suficient de l'estructura no estigui ben alineada, anivellada, aplomada i unida provisionalment de manera que no es produeixin desplaçaments durant el muntatge o l'alineació posterior de la resta de l'estructura.
La preparació de les unions que s'hagin de realitzar a obra es farà a taller.
Els desperfectes que les operacions de magatzematge i manipulació ocasionin en l'acabat superficial de l'estructura s'han de reparar amb procediments adequats.
Es tindrà especial cura del drenatge de cobertes i façanes, així com s'evitaran zones on es pugui dipositar l'aigua de forma permanent.
Els elements de fixació i ancoratge dispossaran de protecció adient a la classe d'expossició ambiental.
Per a la reparació de superfícies galvanitzades s'han d'utilitzar productes de pintura adequats aplicats sobre àrees que agafin, com a mínim, 10 mm de galvanització intacta.
Les parts que hagin de quedar de difícil accés després del seu muntatge han de rebre el tractament de protecció després de la inspecció i acceptació de la DF i abans del muntatge.
Les estructures amb planxes i peces primes conformades en fred s'executaran considerant els requisits addicionals de l'UNE-ENV 1090-2.
Les estructures amb acers d'alt límit elàstic s'executaran considerant els requisits addicionals de l'UNE-ENV 1090-3.
Les estructures amb gelosia de secció foradada s'executaran tenint en compte els requisits addicionals de l'UNE-ENV 1090-4.
COL·LOCACIÓ AMB CARGOLS:
Els forats per als cargols s'han de fer amb perforadora mecànica. S'admet un altre procediment sempre que proporcioni un acabat equivalent.
Es permet l'execució de forats amb punxonatge sempre que es compleixin els requisits establerts a l'apartat 10.2.3 del DB-SE A en obres d'edificació o els establerts a l'apartat 640.5.1.1 del PG3 en obres d'enginyeria civil.
És recomanable que, sempre que sigui possible, es perforin d'un sol cop els forats que travessin dues o més peces.
Els forats allargats s'han de fer amb una operació de punxonatge, o amb la perforació o punxonatge de dos forats i posterior oxitall.
Després de perforar les peces i abans d'unir-les s'han d'eliminar les rebaves.
Els cargols i les femelles no s'han de soldar, a menys que així ho expliciti el plec de condicions tècniques particulars.
S'han de col·locar el nombre suficient de cargols de muntatge per assegurar la immobilitat de les peces armades i el contacte íntim de les peces d'unió.
Les femelles s'han de muntar de manera que la seva marca de designació sigui visible després del muntatge.
En els cargols sense pretesar, cada conjunt de cargol, femella i volandera(es) s'ha de collar fins arribar al "collat a tocar" sense sobretesar els cargols. En grups de cargols aquest procés s'ha de fer progressivament començant pels cargols situats al centre. Si és necessari s'han de fer cicles addicionals de collat .
Abans de començar el pretesat, els cargols pretesats d'un grup s'han de collar d'acord amb el que s'ha indicat per als cargols sense pretesar. Per a que el pretesat sigui uniforme s'han de fer cicles addicionals de collat.
S'han de retirar els conjunts de cargol pretesat, femella i volandera(es) que després de collats fins al pretesat mínim, s'afluixin.

El collat dels cargols pretesats s'ha de fer seguint un dels procediments següents:
- Mètode de la clau dinamomètrica.
- Mètode de la femella indicadora.
- Mètode convinat.

Les superfícies que han de transmetre esforços per fricció s'han de netejar d'olis amb netejadors químics. Després de la preparació i fins l'armat i cargolat s'han de protegir amb cobertes impermeables.
La zona sense revestir situada al voltant del perímetre de la unió amb cargols no s'ha de tractar fins que no s'hagi inspeccionat la unió.
COL·LOCACIÓ AMB SOLDADURA:
Els procediments autoritzats per a realitzar unions soldades són:
- Per arc elèctric manual amb elèctrode revestit
- Per arc amb fil tubular, sense protecció gasosa
- Per arc submergit amb fil/filferro
- Per arc submergit amb elèctrode nu
- Per arc amb gas inert
- Per arc amb gas actiu
- Per arc amb fil tubular, amb protecció de gas actiu
- Per arc amb fil tubular, amb protecció de gas inert
- Per arc amb elèctrode de wolfram i gas inert
- Per arc de connectors

Les soldadures s'han de fer protegides dels efectes directes del vent, de la pluja i de la neu.
A l'obra i a disposició del personal encarregat de soldar hi ha d'haver un pla de soldatge, que ha d'incloure, com a mínim, els detalls, mida i tipus de les unions, especificacions dels tipus d'electròdes i preescalfament, seqüència de soldadura, limitacions a la soldadura discontinua i comprovacions intermèdies, girs o voltes de les peces necessàries per la soldadura, detall de les fixacions provisionals, disposicions en front l'esquinçament laminar, referència al pla d'inspecció i assaigs, i tots els requeriments per al identificació de les soldadures.
Les soldadures s'han de fer per soldadors certificats per un organisme acreditat i qualificats segons l'UNE-EN 287-1.
La coordinació de les tasques de soldadura s'ha de fer per soldadors qualificats i amb experiència amb el tipus d'operació que supervisen.
Abans de començar a soldar s'ha de verificar que les superfícies i vores a soldar són adequades al procés de soldadura i que estan lliures de fissures.
Totes les superfícies a soldar s'han de netejar de qualsevol material que pugui afectar negativament la qualitat de la soldadura o perjudicar el procés de soldatge. S'han de mantenir seques i lliures de condensacions.
Els components a soldar han d'estar correctament col·locats i fixos en la seva posició mitjançant dispositius adequats o soldadures de punteig, de manera que les unions a soldar siguin accessibles i visibles per al soldador. No s'han d'introduir soldadures addicionals.
El muntatge de l'estructura s'ha de fer de manera que les dimensions finals dels components estructurals estiguin dintre de les toleràncies establertes.
Els dispositius provisionals utilitzats per al muntatge de l'estructura, s'han de retirar sense fer malbé les peces.
Les soldadures provisionals s'han d'executar seguint les especificacions generals. S'han d'eliminar totes les soldadures de punteig que no s'incorporin a les soldadures finals.
Quan el tipus de material de l'acer i/o la velocitat de refredament puguin produir un enduriment de la zona tèrmicament afectada s'ha de considerar la utilització del precalentament. Aquest s'ha d'estendre 75 mm en cada component del metall base.
No s'ha d'accelerar el refredament de les soldadures amb mitjans artificials.
Els cordons de soldadura successius no han de produir osques.
Després de fer un cordó de soldadura i abans de fer el següent, cal netejar l'escòria per mitjà d'una picola i d'un raspall.
L'execució dels diferents tipus de soldadures s'ha de fer d'acord amb els requisits establerts a l'apartat 10.3.4 del DB-SE A i l'article 94 del CODI ESTRUCTURAL per a obres d'edificació o d'acord amb l'article 640.5.2 del PG3 i l'article 94 del CODI ESTRUCTURAL per a obres d'enginyeria civil.
No s'han d'utilitzar materials de protecció que perjudiquin la qualitat de la soldadura a menys de 150 mm de la zona a soldar.
Les soldadures i el metall base adjacent no s'han de pintar sense haver eliminat prèviament l'escòria.
3.- UNITAT I CRITERI D'AMIDAMENT
BIGUES, BIGUETES, CORRETGES, ENCAVALLADES, LLINDES, PILARS, TRAVES, ELEMENTS D'ANCORATGE, ELEMENTS AUXILIARS:

kg de pes calculat segons les especificacions de la DT, d'acord amb els criteris següents:
- El pes unitari per al seu càlcul ha de ser el teòric
- Per a poder utilitzar un altre valor diferent del teòric, cal l'acceptació expressa de la DF.

Aquest criteri inclou les pèrdues de material corresponents a retalls.

4.- NORMATIVA DE COMPLIMENT OBLIGATORI

OBRES D'EDIFICACIÓ:

Real Decreto 470/2021, de 29 de junio, por el que se aprueba el Código Estructural.
Real Decreto 314/2006, de 17 de marzo, por el que se aprueba el Código Técnico de la Edificación Parte 2. Documento Básico de Acero DB-SE-A.
* UNE-ENV 1090-1:1997 Ejecución de estructuras de acero. Parte 1: Reglas generales y reglas para edificación.

OBRES D'ENGINYERIA CIVIL:

Real Decreto 470/2021, de 29 de junio, por el que se aprueba el Código Estructural.
Orden de 6 de febrero de 1976 por la que se aprueba el Pliego de Prescripciones Técnicas Generales para Obras de Carreteras y Puentes (PG-3).

5.- CONDICIONS DE CONTROL D'EXECUCIÓ I DE L'OBRA ACABADA

CONTROL D'EXECUCIÓ. OPERACIONS DE CONTROL:

Abans de l'inici de l'execució, la DF verificarà que existeix un programa de control desenvolupat pel constructor, tant per als productes com per a l'execució.
Previ al subministrament, el constructor presentarà a la DF la següent documentació:
- creditació que el procés de muntatge al taller dels elements de l'estructura posseeix distintiu de qualitat reconegut.
- Acreditació que els productes d'acer posseeixen distintiu de qualitat reconegut.
- En processos de soldadura, certificats d'homologació dels soldadors segons UNE-EN 2871 i del procés de soldadura segons UNE-EN ISO 15614-1.

La DF comprovarà que els productes d'acer subministrats pel taller a l'obra, s'acompanyen de la seva fulla de subministrament, en cas que no es pugui realitzar la traçabilitat de la mateixa, aquesta serà rebutjada.
Prèvi a l'execució es fabricaran per a cada element i cada material a tallar, com a mínim quatre provetes, per part del control extern de l'entitat de control.
Es comprovarà que les dimensions dels elements elaborats al taller son les mateixes que les dels plànols de taller , considerant-se les toleràncies al plec de condicions.
Amb anterioritat a la fabricació, el constructor proposarà la seqüència d'armat i soldadura, aquesta haurà de ser aprovada per la DF.
Es marcaran les peces amb pintura segons plànols de taller, per identificar-les durant el muntatge al taller i a l'obra.
L'autocontrol del procés de muntatge inclourà com a mínim:
-Identificació del elements.
-Situació dels eixos de simetria.
-Situació de les zones de suport contigües.
-Paral·lelisme d'ales i platabandes.
-Perpendicularitat d'ales i ànimes.
-Abonyegament, rectitud i planor d'ales i ànimes.
-Contrafletxes.

La freqüència de comprovació serà del 100% per elements principals i del 25% per a elements secundaris.
La DF comprovarà amb antelació al muntatge la correspondència entre el projecte i els elements elaborats al taller, i la documentació del subministrament.
El constructor elaborarà la documentació corresponent al muntatge, aquesta será aprovada per la DF, i com a mínim inclourà:
-Memòria de muntatge.
-Plànols de muntatge.
-Programa d'inspecció.

Es comprovarà la conformitat de totes les operacions de muntatge, especialment:
-L'ordre de cada operació.
-Eines utilitzades.
-Qualificació del personal.
-Traçabilitat del sistema.

UNIONS SOLDADES:

Els soldadors hauran d'estar en disposició de la qualificació adient conforme a l'apartat 94.4.2 del CODI ESTRUCTURAL.
Cada soldador identificarà el seu treball amb marques personals no transferibles.
La soldadura es realitzarà segons l'apartat 94.4.1 del CODI ESTRUCTURAL, el constructor realitzarà el assajos i probes necessàries per establir el mètode de soldadura més adient.

Abans de realitzar la soldadura, es farà una inspecció de les peces a unir segons l'UNE-EN iso 17637.
Les inspeccions de les soldadures les realitzarà un inspector de soldadura de nivell 2 o persona autoritzada per la DF.
UNIONS CARGOLADES:
Es comprovaran .els parells de serratge aplicats als cargols.
En el cas de cargols pretesats es comprovarà que l'esforç aplicat és superior al mínim establert.
CONTROL D'EXECUCIÓ. CRITERIS DE PRESA DE MOSTRES:
Els controls s'han de fer segons les indicacions de la DF.
La mesura de les longituds es farà amb regla o cinta metàl·lica, d'exactitud no menor de 0,1 mm en cada metre, i no menor que 0,1 per mil en longituds majors.
La mesura de les fletxes de les barres es realitzarà per comparació entre la directriu del perfil i la línia recta definida entre les seccions extremes materialitzada amb un filferro tesat.
UNIONS SOLDADES:
La DF determinarà les soldadures que han de ser objecte d'anàlisi.
Els percentatges indicats poden ser variats, segons criteris de la DF, en funció dels resultats de la inspecció visual realitzada i dels anàlisis anteriors.
UNIONS CARGOLADES:
La DF determinarà les unions que han de ser objecte d'anàlisi.
CONTROL D'EXECUCIÓ. INTERPRETACIÓ DE RESULTATS I ACTUACIONS EN CAS D'INCOMPLIMENT:
El taller de fabricació ha de disposar d'un control dimensional adequat.
Quan es sobrepassi alguna de les toleràncies especificades en algun control, es corregirà la implantació en obra. A més a més, s'augmentarà el control, en l'apartat incomplet, fins a un 20% d'unitats. Si encara es troben irregularitats, es faran les oportunes correccions i/o rebuigs i es farà el control sobre el 100 % de les unitats amb les oportunes actuacions segons el resultat.
UNIONS SOLDADES:
La qualificació dels defectes observats en les inspeccions visuals i en les realitzades per mètodes no destructius, es farà d'acord amb les especificacions fixades al Plec de Condicions Particulars de l'obra.
CONTROL DE L'OBRA ACABADA. OPERACIONS DE CONTROL:
Inspecció visual de la unitat acabada.
En l'estructura acabada han de realitzar-se, les comprovacions i proves de servei previstes en projecte i/o ordenades per DF conjuntament amb les exigides per la normativa vigent.
UNIONS SOLDADES:
En l'estructura acabada han de realitzar-se, les comprovacions i proves de servei previstes en projecte i/o ordenades per DF conjuntament amb les exigides per la normativa vigent.
Es controlaran tots els cordons de soldadura.
Les soldadures que durant el procés de fabricació resultin inaccessibles, seran inspeccionades amb anterioritat.
A l'autocontrol de les soldadures es comprovarà com a mínim:
-Inspecció visual de tots els cordons.
-Comprovacions mitjançant assajos no destructius.
Es realitzaran els següents assajos no destructius segons la norma EN12062
-Líquids penetrants(LP) segons UNE-EN 1289.
-Partícules magnètiques(PM),segons UNE-EN 1290.
-Ultrasons(US), segons UNE-EN 1714.
-Radiografies(RX), segons UNE-EN 12517.
A tots els punt a on existeixin creuament de cordons de soldadura es realitzarà una radiografia addicional
Es realitzarà una inspecció mitjançant partícules magnètiques o líquids penetrants d'un 15% del total de la longitud de les soldadures en angle.
Es realitzarà una inspecció radiogràfica i ultrasònica de les soldadures a topar en planxes i unions en T quan aquestes siguin a topar.
Els criteris d'acceptació de les soldadures es basaran en l'UNE-EN ISO 5817.
UNIONS CARGOLADES:
La freqüència de comprovació serà del 100% per elements principals com bigues, i del 25% per a elements secundaris com rigiditzadors.
CONTROL DE L'OBRA ACABADA. CRITERIS DE PRESA DE MOSTRES:
Els controls s'han de fer segons les indicacions de la DF.
CONTROL DE L'OBRA ACABADA. INTERPRETACIÓ DE RESULTATS I ACTUACIONS EN CAS D'INCOMPLIMENT:
Correcció per part del contractista de les irregularitats observades.
UNIONS SOLDADES:
No s'acceptaran soldadures que no compleixin amb les especificacions.

No s'acceptaran unions soldades que no compleixin amb els assaigs no destructius.
No s'acceptaran soldadures realitzades per soldadors no qualificats

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P4 ESTRUCTURES

P44 ESTRUCTURES D'ACER

P44C- PILAR D'ACER

0.- ELEMENTS QUE CONTEMPLA EL PLEC

P44C-DP13.

1.- DEFINICIÓ I CONDICIONS DE LES PARTIDES D'OBRA EXECUTADES
Formació d'elements estructurals amb perfils normalitzats d'acer, utilitzats directament o formant peces compostes.
S'han considerat els elements següents:
- Pilars
S'han considerat els tipus de perfils següents:
- Perfils d'acer laminat en calent, de les sèries IPN, IPE, HEA, HEB, HEM o UPN, d'acer S275JR, S275J0, S275J2, S355JR, S355J0 o S355J2, segons CÓDIGO ESTRUCTURAL (RD 470/2021), UNE-EN 10025-2
- Perfils d'acer laminat en calent de les sèries L, LD, T, rodó, quadrat, rectangular o planxa, d'acer S275JR, S275J0, S275J2, S355JR, S355J0 o S355J2, segons CÓDIGO ESTRUCTURAL (RD 470/2021), UNE-EN 10025-2
- Perfils foradats d'acer laminat en calent de les sèries rodó, quadrat o rectangular d'acer S275J0H o S355J2H, segons CÓDIGO ESTRUCTURAL (RD 470/2021), UNE-EN 10210-1
- Perfils foradats conformats en fred de les sèries rodó, quadrat o rectangular d'acer S275J0H o S355J2H, segons CÓDIGO ESTRUCTURAL (RD 470/2021), UNE-EN 10219-1
- Perfils conformats en fred, de les sèries L, LD, U, C, Z, o Omega, d'acer S235JRC, segons CÓDIGO ESTRUCTURAL (RD 470/2021), UNE-EN 10025-2
S'han considerat els acabats superficials següents:
- Pintat amb una capa d'emprimació antioxidant
- Galvanitzat
S'han considerat els tipus de col·locació següents:
- Col·locació amb soldadura
- Col·locació amb cargols
- Col·locació sobre obres de fàbrica o de formigó, recolzats o encastats
L'execució de la unitat d'obra inclou les operacions següents:
- Preparació de la zona de treball
- Replanteig i marcat dels eixos
- Col·locació i fixació provisional de la peça
- Aplomat i anivellació definitius
- Execució de les unions, en el seu cas
- Comprovació final de l'aplomat i dels nivells
CONDICIONS GENERALS:
Els materials utilitzats han de tenir la qualitat establerta a la DT. No s'han de fer modificacions sense autorització de la DF encara que suposin un increment de les característiques mecàniques.
La peça ha d'estar col·locada a la posició indicada a la DT, amb les modificacions aprovades per la DF.
La peça ha d'estar correctament aplomada i nivellada.
Quan la peça sigui composta, la disposició dels diferents elements de la peça, les seves dimensions, tipus d'acer i perfils s'han de correspondre amb les indicacions de la DT.
Cada component de l'estructura ha de dur una marca d'identificació que ha de ser visible després del muntatge. Aquesta marca no ha d'estar feta amb entalladura cisellada.
La marca d'identificació ha d'indicar l'orientació de muntatge del component estructural quan aquesta no es dedueixi clarament de la seva forma.

Els elements de fixació, i les xapes, plaques petites i accessoris de muntatge han d'anar embalats i identificats adequadament.
L'element ha d'estar pintat amb una capa de protecció de pintura antioxidant, excepte si està galvanitzat.
Els cantells de les peces no han de tenir òxid adherit, rebaves, estries o irregularitats que dificultin el contacte amb l'element que s'han d'unir.
Si el perfil està galvanitzat, la col·locació de l'element no ha de produir desperfectes en el recobriment del zenc.
L'element no s'ha d'adreçar un cop col·locat definitivament.
No es permet reblir amb soldadura els forats que han estat practicats a l'estructura per a disposar cargols provisionals de muntatge.
Toleràncies d'execució:
- En obres d'edificació: Límits establerts als apartats 11.1 i 11.2 del DB-SE A i a l'annexe 16 del CODI ESTRUCTURAL.
- En obres d'enginyeria civil: Límits establerts a l'article 640.12 del PG3 i l'annexe 16 del CODI ESTRUCTURAL.
PILARS:
Si la base del pilar ha de quedar embeguda dins de formigó no necessitarà protecció de 50 mm segons el CODI ESTRUCTURAL per sota del nivell del formigó.
L'espai entre la placa de recolzament del pilar i els fonaments s'ha de reblir amb beurada de ciment, beurades especials o formigó fi.
Abans del rebliment, l'espai situat sota la placa de recolzament d'acer, ha d'estar net de líquids, gel, residus i de qualsevol material contaminant.
La quantitat de beurada utilitzada ha de ser suficient per a que aquest espai quedi completament reblert.
Segons el gruix a reblir les beurades han de ser dels següents tipus:
- Gruixos nominals inferiors a 25 mm: barreja de ciment pòrtland i aigua
- Gruixos nominals entre 25 i 50 mm: morter fluït de ciment pòrtland de dosificació no inferior a 1:1
- Gruixos nominals superiors a 50 mm: morter sec de ciment pòrtland de dosificació no inferior a 1:2 o formigó fi
Les beurades especials han de ser de baixa retracció i s'han d'utilitzar seguint les instruccions del seu fabricant.
COL·LOCACIÓ AMB CARGOLS:
S'utilitzaran cargols normalitzats d'acord a les normes recollides a la taula 85.2.b del CODI ESTRUCTURAL
Els cargols aixamfranats, cargols calibrats, perns articulats i els cargols hexagonals d'injecció s'han d'utilitzar seguint les instruccions del seu fabricant i han de complir els requisits addicionals establerts a l'article 85.2 del CODI ESTRUCTURAL.
La situació dels cargols a la unió ha de ser tal que redueixi la possibilitat de corrosió i pandeig local de les xapes, i ha de facilitar el muntatge i les inspeccions.
El diàmetre nominal mínim dels cargols ha de ser de 12 mm.
La rosca pot estar inclosa en el pla de tall, excepte en el cas que els cargols s'utilitzin com a calibrats.
Després del collat l'espiga del cargol ha de sobresortir de la rosca de la femella. Entre la superfície de recolzament de la femella i la part no roscada de l'espiga ha d'haver, com a mínim:
- En cargols pretesats: 4 filets complerts més la sortida de la rosca
- En cargols sense pretesar: 1 filet complert més la sortida de la rosca
Les superfícies dels caps de cargols i femelles han d'estar perfectament planes i netes.
En els cargols col·locats en posició vertical, la femella ha d'estar situada per sota del cap del cargol.
En els forats rodons normals i amb cargols sense pretesar no és necessari utilitzar volanderes. Si s'utilitzen han d'anar sota el cap dels cargols, han de ser aixamfranades i el xamfrà ha d'estar situat en direcció al cap del cargol.
En els cargols pretesats, les volanderes han de ser planes endurides i han d'anar col·locades de la forma següent:
- Cargols 10.9: sota el cap del cargol i de la femella
- Cargols 8.8: sota de l'element que gira
Toleràncies d'execució:
- Franquícia màxima entre superfícies adjacents: - Si s'utilitzen cargols no pretesats: 2 mm - Si s'utilitzen cargols pretesats: 1 mm
- Diàmetre dels forats: - En obres d'edificació: Límits establerts a l'apartat 11.1 del DB-SE A i a l'article 93.2 del CODI ESTRUCTURAL - En obres d'enginyeria civil: Límits establerts als apartats 640.5.1.3 i 640.5.1.4 del PG3 i a l'article 93.2 del CODI ESTRUCTURAL.

- Posició dels forats: - En obres d'edificació: Límits establerts a l'apartat 11.1 del DB-SE A i a l'article 93.2 del CODI ESTRUCTURAL. - En obres d'enginyeria civil: Límits establerts a l'apartat 640.5.1.1 del PG3 i a l'article 93.2 del CODI ESTRUCTURAL.
COL·LOCACIÓ AMB SOLDADURA:
El material d'aportació utilitzat ha de ser apropiat als materials a soldar i al procediment de soldadura.
Les característiques mecàniques del material d'aportació han de ser superiors a les del material base.
En acers de resistència millorada a la corrosió atmosfèrica, la resistència a la corrosió del material d'aportació ha de ser equivalent a la del material base.
El plec de prescripcions tècniques particulars definirà el sistema de protecció enfront la corrossió.
Els mètodes de protecció podran ser:
- Metalització, segons l'UNE-EN ISO 2063.
- Galvanització en calent, segons l'UNE-EN ISO 1461.
- Sistemes de pintura, segons l'UNE-EN ISO 12944.
2.- CONDICIONS DEL PROCÉS D'EXECUCIÓ
CONDICIONS GENERALS:
El constructor ha d'elaborar els plànols de taller i un programa de muntatge que han de ser aprovats per la DF abans d'iniciar els treballs en obra.
Qualsevol modificació durant els treballs ha d'aprovar-la la DF i reflectir-se posteriorment en els plànols de taller.
Els components estructurals s'han de manipular evitant que es produeixin deformacions permanents i procurant que els desperfectes superficials siguin mínims. Han d'anar protegits en els punts de subjecció.
Tot subconjunt estructural que durant les operacions de càrrega, transport, emmagatzematge i muntatge experimenti desperfectes, s'ha de reparar fins que sigui conforme.
Si durant el transport el material ha sofert desperfectes que no poden ser corregits o es preveu que després d'arreglar-los afectarà al seu treball estructural, la peça ha de ser substituïda.
Els components de l'estructura s'han d'emmagatzemar apilats sobre el terreny sense estar en contacte amb el terra i de forma que no es produeixi acumulació d'aigua.
El muntatge de l'estructura s'ha de fer d'acord amb el programa de muntatge i garantint la seguretat estructural en tot moment.
Durant les operacions de muntatge, l'estructura ha de resistir, en condicions de seguretat, les càrregues provisionals de muntatge i els efectes de les càrregues de vent.
Les traves i encastaments o subjeccions provisionals s'han de mantenir en la seva posició fins que l'avanç del muntatge permeti que puguin ser retirats de forma segura.
Les unions per a peces provisionals necessàries per al muntatge s'han de fer de forma que no debilitin l'estructura ni disminueixin la seva capacitat de servei.
La secció de l'element no ha de quedar disminuida pels sistemes de muntatges utilitzats.
Els dispositius d'ancoratge provisionals s'han d'assegurar per a evitar que s'afluixin de forma involuntària.
Durant el procés de muntatge, el constructor ha de garantir que ninguna part de l'estructura estigui deformada o sobrecarregada permanentment per l'apilament de materials estructurals o per càrregues provisionals de muntatge.
Un cop muntada una part de l'estructura, s'ha d'alinear al més aviat possible i immediatament després completar el cargolament.
No s'han de fer unions permanents fins que una part suficient de l'estructura no estigui ben alineada, anivellada, aplomada i unida provisionalment de manera que no es produeixin desplaçaments durant el muntatge o l'alineació posterior de la resta de l'estructura.
La preparació de les unions que s'hagin de realitzar a obra es farà a taller.
Els desperfectes que les operacions de magatzematge i manipulació ocasionin en l'acabat superficial de l'estructura s'han de reparar amb procediments adequats.
Es tindrà especial cura del drenatge de cobertes i façanes, així com s'evitaran zones on es pugui dipositar l'aigua de forma permanent.
Els elements de fixació i ancoratge dispossaran de protecció adient a la classe d'expossició ambiental.
Per a la reparació de superfícies galvanitzades s'han d'utilitzar productes de pintura adequats aplicats sobre àrees que agafin, com a mínim, 10 mm de galvanització intacta.
Les parts que hagin de quedar de difícil accés després del seu muntatge han de rebre el tractament de protecció després de la inspecció i acceptació de la DF i abans del muntatge.
Les estructures amb planxes i peces primes conformades en fred s'executaran considerant els requisits addicionals de l'UNE-ENV 1090-2.
Les estructures amb acers d'alt límit elàstic s'executaran considerant els requisits addicionals de l'UNE-ENV 1090-3.

Les estructures amb gelosia de secció foradada s'executaran tenint en compte els requisits addicionals de l'UNE-ENV 1090-4.
COL·LOCACIÓ AMB CARGOLS:
Els forats per als cargols s'han de fer amb perforadora mecànica. S'admet un altre procediment sempre que proporcioni un acabat equivalent.
Es permet l'execució de forats amb punxonatge sempre que es compleixin els requisits establerts a l'apartat 10.2.3 del DB-SE A en obres d'edificació o els establerts a l'apartat 640.5.1.1 del PG3 en obres d'enginyeria civil.
És recomanable que, sempre que sigui possible, es perforin d'un sol cop els forats que travessin dues o més peces.
Els forats allargats s'han de fer amb una operació de punxonatge, o amb la perforació o punxonatge de dos forats i posterior oxitall.
Després de perforar les peces i abans d'unir-les s'han d'eliminar les rebaves.
Els cargols i les femelles no s'han de soldar, a menys que així ho expliciti el plec de condicions tècniques particulars.
S'han de col·locar el nombre suficient de cargols de muntatge per assegurar la immobilitat de les peces armades i el contacte íntim de les peces d'unió.
Les femelles s'han de muntar de manera que la seva marca de designació sigui visible després del muntatge.
En els cargols sense pretesar, cada conjunt de cargol, femella i volandera(es) s'ha de collar fins arribar al "collat a tocar" sense sobretesar els cargols. En grups de cargols aquest procés s'ha de fer progressivament començant pels cargols situats al centre. Si és necessari s'han de fer cicles addicionals de collat .
Abans de començar el pretesat, els cargols pretesats d'un grup s'han de collar d'acord amb el que s'ha indicat per als cargols sense pretesar. Per a que el pretesat sigui uniforme s'han de fer cicles addicionals de collat.
S'han de retirar els conjunts de cargol pretesat, femella i volandera(es) que després de collats fins al pretesat mínim, s'afluixin.
El collat dels cargols pretesats s'ha de fer seguint un dels procediments següents:
- Mètode de la clau dinamomètrica.
- Mètode de la femella indicadora.
- Mètode convinat.

Les superfícies que han de transmetre esforços per fricció s'han de netejar d'olis amb netejadors químics. Després de la preparació i fins l'armat i cargolat s'han de protegir amb cobertes impermeables.
La zona sense revestir situada al voltant del perímetre de la unió amb cargols no s'ha de tractar fins que no s'hagi inspeccionat la unió.
COL·LOCACIÓ AMB SOLDADURA:
Els procediments autoritzats per a realitzar unions soldades són:
- Per arc elèctric manual amb elèctrode revestit
- Per arc amb fil tubular, sense protecció gasosa
- Per arc submergit amb fil/filferro
- Per arc submergit amb elèctrode nu
- Per arc amb gas inert
- Per arc amb gas actiu
- Per arc amb fil tubular, amb protecció de gas actiu
- Per arc amb fil tubular, amb protecció de gas inert
- Per arc amb elèctrode de wolfram i gas inert
- Per arc de connectors

Les soldadures s'han de fer protegides dels efectes directes del vent, de la pluja i de la neu.
A l'obra i a disposició del personal encarregat de soldar hi ha d'haver un pla de soldatge, que ha d'incloure, com a mínim, els detalls, mida i tipus de les unions, especificacions dels tipus d'electròdes i preescalfament, seqüència de soldadura, limitacions a la soldadura discontinua i comprovacions intermèdies, girs o voltes de les peces necessàries per la soldadura, detall de les fixacions provisionals, disposicions en front l'esquinçament laminar, referència al pla d'inspecció i assaigs, i tots els requeriments per al identificació de les soldadures.
Les soldadures s'han de fer per soldadors certificats per un organisme acreditat i qualificats segons l'UNE-EN 287-1.
La coordinació de les tasques de soldadura s'ha de fer per soldadors qualificats i amb experiència amb el tipus d'operació que supervisen.
Abans de començar a soldar s'ha de verificar que les superfícies i vores a soldar són adequades al procés de soldadura i que estan lliures de fissures.
Totes les superfícies a soldar s'han de netejar de qualsevol material que pugui afectar negativament la qualitat de la soldadura o perjudicar el procés de soldatge. S'han de mantenir seques i lliures de condensacions.

Els components a soldar han d'estar correctament col·locats i fixos en la seva posició mitjançant dispositius adequats o soldadures de punteig, de manera que les unions a soldar siguin accessibles i visibles per al soldador. No s'han d'introduir soldadures addicionals.
El muntatge de l'estructura s'ha de fer de manera que les dimensions finals dels components estructurals estiguin dintre de les toleràncies establertes.
Els dispositius provisionals utilitzats per al muntatge de l'estructura, s'han de retirar sense fer malbé les peces.
Les soldadures provisionals s'han d'executar seguint les especificacions generals. S'han d'eliminar totes les soldadures de punteig que no s'incorporin a les soldadures finals.
Quan el tipus de material de l'acer i/o la velocitat de refredament puguin produir un enduriment de la zona tèrmicament afectada s'ha de considerar la utilització del precalentament. Aquest s'ha d'estendre 75 mm en cada component del metall base.
No s'ha d'accelerar el refredament de les soldadures amb mitjans artificials.
Els cordons de soldadura successius no han de produir osques.
Després de fer un cordó de soldadura i abans de fer el següent, cal netejar l'escòria per mitjà d'una picola i d'un raspall.
L'execució dels diferents tipus de soldadures s'ha de fer d'acord amb els requisits establerts a l'apartat 10.3.4 del DB-SE A i l'article 94 del CODI ESTRUCTURAL per a obres d'edificació o d'acord amb l'article 640.5.2 del PG3 i l'article 94 del CODI ESTRUCTURAL per a obres d'enginyeria civil.
No s'han d'utilitzar materials de protecció que perjudiquin la qualitat de la soldadura a menys de 150 mm de la zona a soldar.
Les soldadures i el metall base adjacent no s'han de pintar sense haver eliminat prèviament l'escòria.
3.- UNITAT I CRITERI D'AMIDAMENT
BIGUES, BIGUETES, CORRETGES, ENCAVALLADES, LLINDES, PILARS, TRAVES, ELEMENTS D'ANCORATGE, ELEMENTS AUXILIARS:
kg de pes calculat segons les especificacions de la DT, d'acord amb els criteris següents:
- El pes unitari per al seu càlcul ha de ser el teòric
- Per a poder utilitzar un altre valor diferent del teòric, cal l'acceptació expressa de la DF.
Aquest criteri inclou les pèrdues de material corresponents a retalls.
4.- NORMATIVA DE COMPLIMENT OBLIGATORI
OBRES D'EDIFICACIÓ:
Real Decreto 470/2021, de 29 de junio, por el que se aprueba el Código Estructural.
Real Decreto 314/2006, de 17 de marzo, por el que se aprueba el Código Técnico de la Edificación Parte 2. Documento Básico de Acero DB-SE-A.
* UNE-ENV 1090-1:1997 Ejecución de estructuras de acero. Parte 1: Reglas generales y reglas para edificación.
OBRES D'ENGINYERIA CIVIL:
Real Decreto 470/2021, de 29 de junio, por el que se aprueba el Código Estructural.
Orden de 6 de febrero de 1976 por la que se aprueba el Pliego de Prescripciones Técnicas Generales para Obras de Carreteras y Puentes (PG-3).
5.- CONDICIONS DE CONTROL D'EXECUCIÓ I DE L'OBRA ACABADA
CONTROL D'EXECUCIÓ. OPERACIONS DE CONTROL:
Abans de l'inici de l'execució, la DF verificarà que existeix un programa de control desenvolupat pel constructor, tant per als productes com per a l'execució.
Previ al subministrament, el constructor presentarà a la DF la següent documentació:
- creditació que el procés de muntatge al taller dels elements de l'estructura posseeix distintiu de qualitat reconegut.
- Acreditació que els productes d'acer posseeixen distintiu de qualitat reconegut.
- En processos de soldadura, certificats d'homologació dels soldadors segons UNE-EN 2871 i del procés de soldadura segons UNE-EN ISO 15614-1.
La DF comprovarà que els productes d'acer subministrats pel taller a l'obra, s'acompanyen de la seva fulla de subministrament, en cas que no es pugui realitzar la traçabilitat de la mateixa, aquesta serà rebutjada.
Prèvi a l'execució es fabricaran per a cada element i cada material a tallar, com a mínim quatre provetes, per part del control extern de l'entitat de control.
Es comprovarà que les dimensions dels elements elaborats al taller son les mateixes que les dels plànols de taller , considerant-se les toleràncies al plec de condicions.
Amb anterioritat a la fabricació, el constructor proposarà la seqüència d'armat i soldadura, aquesta haurà de ser aprovada per la DF.
Es marcaran les peces amb pintura segons plànols de taller, per identificar-les durant el muntatge al taller i a l'obra.
L'autocontrol del procés de muntatge inclourà com a mínim:
-Identificació del elements.

-Situació dels eixos de simetria.
-Situació de les zones de suport contigües.
-Paral·lelisme d'ales i platabandes.
-Perpendicularitat d'ales i ànimes.
-Abonyegament, rectitud i planor d'ales i ànimes.
-Contrafletxes.
La freqüència de comprovació serà del 100% per elements principals i del 25% per a elements secundaris.
La DF comprovarà amb antelació al muntatge la correspondència entre el projecte i els elements elaborats al taller, i la documentació del subministrament.
El constructor elaborarà la documentació corresponent al muntatge, aquesta serà aprovada per la DF, i com a mínim inclourà:
-Memòria de muntatge.
-Plànols de muntatge.
-Programa d'inspecció.
Es comprovarà la conformitat de totes les operacions de muntatge, especialment:
-L'ordre de cada operació.
-Eines utilitzades.
-Qualificació del personal.
-Traçabilitat del sistema.
UNIONS SOLDADES:
Els soldadors hauran d'estar en disposició de la qualificació adient conforme a l'apartat 94.4.2 del CODI ESTRUCTURAL.
Cada soldador identificarà el seu treball amb marques personals no transferibles.
La soldadura es realitzarà segons l'apartat 94.4.1 del CODI ESTRUCTURAL, el constructor realitzarà el assajos i probes necessàries per establir el mètode de soldadura més adient.
Abans de realitzar la soldadura, es farà una inspecció de les peces a unir segons l'UNE-EN iso 17637.
Les inspeccions de les soldadures les realitzarà un inspector de soldadura de nivell 2 o persona autoritzada per la DF.
UNIONS CARGOLADES:
Es comprovaran .els parells de serratge aplicats als cargols.
En el cas de cargols pretesats es comprovarà que l'esforç aplicat és superior al mínim establert.
CONTROL D'EXECUCIÓ. CRITERIS DE PRESA DE MOSTRES:
Els controls s'han de fer segons les indicacions de la DF.
La mesura de les longituds es farà amb regla o cinta metàl·lica, d'exactitud no menor de 0,1 mm en cada metre, i no menor que 0,1 per mil en longituds majors.
La mesura de les fletxes de les barres es realitzarà per comparació entre la directriu del perfil i la línia recta definida entre les seccions extremes materialitzada amb un filferro tesat.
UNIONS SOLDADES:
La DF determinarà les soldadures que han de ser objecte d'anàlisi.
Els percentatges indicats poden ser variats, segons criteris de la DF, en funció dels resultats de la inspecció visual realitzada i dels anàlisis anteriors.
UNIONS CARGOLADES:
La DF determinarà les unions que han de ser objecte d'anàlisi.
CONTROL D'EXECUCIÓ. INTERPRETACIÓ DE RESULTATS I ACTUACIONS EN CAS D'INCOMPLIMENT:
El taller de fabricació ha de disposar d'un control dimensional adequat.
Quan es sobrepassi alguna de les toleràncies especificades en algun control, es corregirà la implantació en obra. A més a més, s'augmentarà el control, en l'apartat incomplet, fins a un 20% d'unitats. Si encara es troben irregularitats, es faran les oportunes correccions i/o rebuigs i es farà el control sobre el 100 % de les unitats amb les oportunes actuacions segons el resultat.
UNIONS SOLDADES:
La qualificació dels defectes observats en les inspeccions visuals i en les realitzades per mètodes no destructius, es farà d'acord amb les especificacions fixades al Plec de Condicions Particulars de l'obra.
CONTROL DE L'OBRA ACABADA. OPERACIONS DE CONTROL:
Inspecció visual de la unitat acabada.
En l'estructura acabada han de realitzar-se, les comprovacions i proves de servei previstes en projecte i/o ordenades per DF conjuntament amb les exigides per la normativa vigent.
UNIONS SOLDADES:
En l'estructura acabada han de realitzar-se, les comprovacions i proves de servei previstes en projecte i/o ordenades per DF conjuntament amb les exigides per la normativa vigent.

Es controlaran tots els cordons de soldadura.
Les soldadures que durant el procés de fabricació resultin inaccessibles, seran inspeccionades amb anterioritat.
A l'autocontrol de les soldadures es comprovarà com a mínim:
-Inspecció visual de tots els cordons.
-Comprovacions mitjançant assajos no destructius.
Es realitzaran els següents assajos no destructius segons la norma EN12062
-Líquids penetrants(LP) segons UNE-EN 1289.
-Partícules magnètiques(PM),segons UNE-EN 1290.
-Ultrasons(US), segons UNE-EN 1714.
-Radiografies(RX), segons UNE-EN 12517.
A tots els punt a on existeixin creuament de cordons de soldadura es realitzarà una radiografia addicional
Es realitzarà una inspecció mitjançant partícules magnètiques o líquids penetrants d'un 15% del total de la longitud de les soldadures en angle.
Es realitzarà una inspecció radiogràfica i ultrasònica de les soldadures a topar en planxes i unions en T quan aquestes siguin a topar.
Els criteris d'acceptació de les soldadures es basaran en l'UNE-EN ISO 5817.
UNIONS CARGOLADES:
La freqüència de comprovació serà del 100% per elements principals com bigues, i del 25% per a elements secundaris com rigiditzadors.
CONTROL DE L'OBRA ACABADA. CRITERIS DE PRESA DE MOSTRES:
Els controls s'han de fer segons les indicacions de la DF.
CONTROL DE L'OBRA ACABADA. INTERPRETACIÓ DE RESULTATS I ACTUACIONS EN CAS D'INCOMPLIMENT:
Correcció per part del contractista de les irregularitats observades.
UNIONS SOLDADES:
No s'acceptaran soldadures que no compleixin amb les especificacions.
No s'acceptaran unions soldades que no compleixin amb els assaigs no destructius.
No s'acceptaran soldadures realitzades per soldadors no qualificats

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P5 COBERTES

P54 COBERTES DE PLANXES METÀL·LIQUES

P542- COBERTA AMB PERFIL NERVAT DE PLANXA D'ACER

0.- ELEMENTS QUE CONTEMPLA EL PLEC

P542-8ZZV.

1.- DEFINICIÓ I CONDICIONS DE LES PARTIDES D'OBRA EXECUTADES
Formació de cobertes amb pendent, mitjançant planxes conformades nervades d'acer, col·locades amb fixacions mecàniques, d'una planxa o de dues amb aïllament de fibra de vidre, i separadors amb perfils omega (sandvitx in situ).
L'execució de la unitat d'obra inclou les operacions següents:
- Replanteig dels eixos de les pendents.
- Col·locació de les planxes metàl·liques mitjançant fixacions mecàniques.
- Execució dels junts entre planxes.
- Comprovació de l'estanquitat.
- Replanteig dels perfils omega (sandwich in situ)
- Fixació dels perfils omega i de l'aïllament de fibra de vidre (sandwich in situ)
- Col·locació de les planxes metàl·liques mitjançant fixacions mecàniques (sandwich in situ)
- Execució dels junts entre planxes (sandwich in situ)
- Comprovació de l'estanquitat (sandwich in situ)
CONDICIONS GENERALS:
Els talls de les planxes han de ser rectes, i han d'estar polits.
S'han de respectar els junts estructurals.
Les peces han de quedar fixades sòlidament al suport.

El conjunt dels elements col·locats ha de ser estanc.
Les planxes han de quedar alineades longitudinalment en la direcció del pendent.
Les peces han de cavalcar entre elles i sobre les peces del faldó.
El cavalcament entre les peces ha de ser l'adequat en funció del pendent del suport i les condicions de l'entorn (zona eòlica, tempestes, altitud topogràfica, etc.).
La planxa s'ha de fixar amb cargols autorroscants d'acer cadmiat o galvanitzat, cargols amb rosca tallant o rematxes d'acer cadmiat, d'alumini o d'acer inoxidable.
Les fixacions han d'estar a la zona superior dels nervis, i han de tenir volanderes d'estanqueitat.
Cavalcament entre planxes:
- Sobre la planxa inferior en el sentit de la pendent: 15 -20 cm
- Sobre la planxa lateral: >= un nervi sencer
Volada de les planxes:
- En la zona del ràfec: >= 5 cm; <= 35 cm
- En els laterals: >= 5 cm; <= un nervi
Cavalcament entre les peces i els aiguafons: >= 5 cm
Separació entre les peces de les dues vessants en l'aiguafons: >= 20 cm
Distància entre punts de fixació als punts singulars:
- Corretges intermitges i d'aiguafons: <= 333 mm
- Corretges de ràfec i carener: <= 250 mm
Distància entre anelles de seguretat: <= radi 5 mt
PLANXA FIXADA AMB CARGOLS:
Els cargols es col·locaran en la zona superior o inferior dels nervis.
La planxa s'ha de fixar amb cargols autoroscants d'acer cadmiat o galvanitzat, cargols amb rosca tallant o remats d'acer cadmiat, d'alumini o d'acer inoxidable
Els cargols portaran volanderes d'estanqueïtat.
2.- CONDICIONS DEL PROCÉS D'EXECUCIÓ
No s'ha de treballar amb pluja intensa, neu o vent superior a 50 km/h. En aquests supòsits, s'ha d'assegurar l'estabilitat de coberta feta.
Si l'alçada de caiguda es superior a 2 m s'ha de treballar amb cinturó de seguretat.
S'ha d'evitar el contacte directe de la planxa d'acer galvanitzat amb el guix, els morters de calç i de ciment portland frescos i amb les fustes dures (roure, castanyer ,etc.), l'acer no protegit a la corrosió i amb l'aigua que previament ha estat amb contacte amb el coure.
En el supòsit de voler pintar la planxa d'acer galvanitzat, aquestes portaran una protecció prèvia de pintura.
El pintat s'ha d'aplicar sobre superfícies netes.
3.- UNITAT I CRITERI D'AMIDAMENT
m2 de superfície amidada segons les especificacions de la DT.
Amb deducció de la superfície corresponent a obertures, d'acord amb els criteris següents:
- Obertures <= 1 m2: No es dedueixen
- Obertures > 1 m2: Es dedueix el 100%
4.- NORMATIVA DE COMPLIMENT OBLIGATORI
Documento Básico de Salubridad DB-HS, parte II del CTE, aprobado por el Real Decreto 314/2006.
5.- CONDICIONS DE CONTROL D'EXECUCIÓ I DE L'OBRA ACABADA
CONTROL D'EXECUCIÓ. OPERACIONS DE CONTROL:
Sense caràcter limitatiu, els punts de control més destacables són els següents:
- Inspecció visual del material abans de la seva col·locació, rebutjant les peces malmeses
- Replanteig dels eixos dels pendents i de les planxes i suports.
- Neteja i repàs del suport.
- Inspecció visual del procediment d'execució, amb especial atenció a les subjeccions i cavalcaments.
- Comprovació de la geometria de la coberta i del cavalcament entre les peces.
- Comprovació dels eixos dels pendents de la coberta.
CONTROL DE L'OBRA ACABADA. OPERACIONS DE CONTROL:
Els punts de control més destacables són els següents:
- Inspecció visual de la unitat acabada. Proves finals d'estanquitat.
CRITERIS DE PRESA DE MOSTRES:
Els controls s'han de fer segons les indicacions de la DF.
INTERPRETACIÓ DE RESULTATS I ACTUACIONS EN CAS D'INCOMPLIMENT:
Correcció per part del contractista de les irregularitats observades.
No s'ha de permetre la continuació dels treballs fins que no estiguin solucionats els defectes d'execució.

P5 COBERTES

P5Z ELEMENTS ESPECIALS PER A COBERTES

P5Z5 ESTRUCTURES METÀL·LIQUES LLEUGERES PER A FORMACIÓ DE PENDENTS

P5Z50- ESTRUCTURA LLEUGERA PER A TEULADA

0.- ELEMENTS QUE CONTEMPLA EL PLEC

P5Z50-A8I1.

1.- DEFINICIÓ I CONDICIONS DE LES PARTIDES D'OBRA EXECUTADES
Formació d'estructura metàl·lica lleugera per a suport de teulada, amb perfils normalitzats d'acer galvanitzat cargolats formant peces compostes, fixada mecànicament al sostre.
L'execució de la unitat d'obra inclou les operacions següents:
- Preparació de la zona de treball
- Replanteig i marcat dels eixos
- Col·locació i fixació provisional de les diferents peces de l'estructura
- Aplomat i anivellació definitius
- Execució de les unions entre les diferents parts de l'estructura
- Neteja i preparació de la superfície de suport
- Subjecció de l'estructura al sostre
- Comprovació final de l'aplomat i dels nivells
CONDICIONS GENERALS:
Els materials utilitzats han de tenir la qualitat establerta a la DT. No s'han de fer modificacions sense autorització de la DF encara que suposin un increment de les característiques mecàniques.
L'estructura ha d'estar col·locada a la posició indicada a la DT, amb les modificacions aprovades per la DF.
Les diferents peces de l'estructura han d'estar correctament aplomades i nivellades.
Quan la peça sigui composta, la disposició dels diferents elements de la peça, les seves dimensions, tipus d'acer i perfils s'han de correspondre amb les indicacions de la DT.
Cada component de l'estructura ha de dur una marca d'identificació que ha de ser visible després del muntatge. Aquesta marca no ha d'estar feta amb entalladura cisellada.
La marca d'identificació ha d'indicar l'orientació de muntatge del component estructural quan aquesta no es dedueixi clarament de la seva forma.
Els elements de fixació, i les xapes, plaques petites i accessoris de muntatge han d'anar embalats i identificats adequadament.
L'element ha d'estar pintat amb una capa de protecció de pintura antioxidant, excepte si està galvanitzat.
Els cantells de les peces no han de tenir òxid adherit, rebaves, estries o irregularitats que dificultin el contacte amb l'element que s'han d'unir.
Si el perfil està galvanitzat, la col·locació de l'element no ha de produir desperfectes en el recobriment del zenc.
L'element no s'ha d'adreçar un cop col·locat definitivament.
No es permet reblir amb soldadura els forats que han estat practicats a l'estructura per a disposar cargols provisionals de muntatge.
S'utilitzaran cargols normalitzats d'acord a les normes recollides a la taula 85.2.b del CODI ESTRUCTURAL.
Els cargols aixamfranats, cargols calibrats, perns articulats i els cargols hexagonals d'injecció s'han d'utilitzar seguint les instruccions del seu fabricant.
La situació dels cargols a la unió ha de ser tal que redueixi la possibilitat de corrosió i pandeig local de les xapes, i ha de facilitar el muntatge i les inspeccions.
El diàmetre nominal mínim dels cargols ha de ser de 12 mm.
La rosca pot estar inclosa en el pla de tall, excepte en el cas que els cargols s'utilitzin com a calibrats.

Després del collat l'espiga del cargol ha de sobresortir de la rosca de la femella. Entre la superfície de recolzament de la femella i la part no roscada de l'espiga ha d'haver, com a mínim:
- En cargols pretesats: 4 filets complerts més la sortida de la rosca
- En cargols sense pretesar: 1 filet complert més la sortida de la rosca
Les superfícies dels caps de cargols i femelles han d'estar perfectament planes i netes.
En els cargols col·locats en posició vertical, la femella ha d'estar situada per sota del cap del cargol.
En els forats rodons normals i amb cargols sense pretesar no és necessari utilitzar volanderes. Si s'utilitzen han d'anar sota el cap dels cargols, han de ser aixamfranades i el xamfrà ha d'estar situat en direcció al cap del cargol.
En els cargols pretesats, les volanderes han de ser planes endurides i han d'anar col·locades de la forma següent:
- Cargols 10.9: sota el cap del cargol i de la femella
- Cargols 8.8: sota de l'element que gira
Toleràncies d'execució:
- Límits establerts als apartats 11.1 i 11.2 del DB-SE A
2.- CONDICIONS DEL PROCÉS D'EXECUCIÓ
El constructor ha d'elaborar els plànols de taller i un programa de muntatge que han de ser aprovats per la DF abans d'iniciar els treballs en obra.
Qualsevol modificació durant els treballs ha d'aprovar-la la DF i reflectir-se posteriorment en els plànols de taller.
Els components estructurals s'han de manipular evitant que es produeixin deformacions permanents i procurant que els desperfectes superficials siguin mínims. Han d'anar protegits en els punts de subjecció.
Tot subconjunt estructural que durant les operacions de càrrega, transport, emmagatzematge i muntatge experimenti desperfectes, s'ha de reparar fins que sigui conforme.
Si durant el transport el material ha sofert desperfectes que no poden ser corregits o es preveu que després d'arreglar-los afectarà al seu treball estructural, la peça ha de ser substituïda.
Els components de l'estructura s'han d'emmagatzemar apilats sobre el terreny sense estar en contacte amb el terra i de forma que no es produeixi acumulació d'aigua.
El muntatge de l'estructura s'ha de fer d'acord amb el programa de muntatge i garantint la seguretat estructural en tot moment.
Durant les operacions de muntatge, l'estructura ha de resistir, en condicions de seguretat, les càrregues provisionals de muntatge i els efectes de les càrregues de vent.
Les traves i encastaments o subjeccions provisionals s'han de mantenir en la seva posició fins que l'avanç del muntatge permeti que puguin ser retirats de forma segura.
Les unions per a peces provisionals necessàries per al muntatge s'han de fer de forma que no debilitin l'estructura ni disminueixin la seva capacitat de servei.
La secció de l'element no ha de quedar disminuida pels sistemes de muntatges utilitzats.
Els dispositius d'ancoratge provisionals s'han d'assegurar per a evitar que s'afluixin de forma involuntària.
Durant el procés de muntatge, el constructor ha de garantir que ninguna part de l'estructura estigui deformada o sobrecarregada permanentment per l'apilament de materials estructurals o per càrregues provisionals de muntatge.
Un cop muntada una part de l'estructura, s'ha d'alinear al més aviat possible i immediatament després completar el cargolament.
No s'han de fer unions permanents fins que una part suficient de l'estructura no estigui ben alineada, anivellada, aplomada i unida provisionalment de manera que no es produeixin desplaçaments durant el muntatge o l'alineació posterior de la resta de l'estructura.
La preparació de les unions que s'hagin de realitzar a obra es farà a taller.
Els desperfectes que les operacions de magatzematge i manipulació ocasionin en l'acabat superficial de l'estructura s'han de reparar amb procediments adequats.
Per a la reparació de superfícies galvanitzades s'han d'utilitzar productes de pintura adequats aplicats sobre àrees que agafin, com a mínim, 10 mm de galvanització intacta.
Les parts que hagin de quedar de difícil accés després del seu muntatge han de rebre el tractament de protecció després de la inspecció i acceptació de la DF i abans del muntatge.
Les estructures amb planxes i peces primes conformades en fred s'executaran considerant els requisits addicionals de l'UNE-ENV 1090-2.
Les estructures amb acers d'alt límit elàstic s'executaran considerant els requisits addicionals de l'UNE-ENV 1090-3.
Les estructures amb gelosia de secció foradada s'executaran tenint en compte els requisits addicionals de l'UNE-ENV 1090-4.
Els forats per als cargols s'han de fer amb perforadora mecànica. S'admet un altre procediment sempre que proporcioni un acabat equivalent.

Es permet l'execució de forats amb punxonatge sempre que es compleixin els requisits establerts a l'apartat 10.2.3 del DB-SE A.
És recomanable que, sempre que sigui possible, es perforin d'un sol cop els forats que travessin dues o més peces.
Els forats allargats s'han de fer amb una operació de punxonatge, o amb la perforació o punxonatge de dos forats i posterior oxitall.
Després de perforar les peces i abans d'unir-les s'han d'eliminar les rebaves.
S'han de col·locar el nombre suficient de cargols de muntatge per assegurar la immobilitat de les peces armades i el contacte íntim de les peces d'unió.
Les femelles s'han de muntar de manera que la seva marca de designació sigui visible després del muntatge.
En els cargols sense pretesar, cada conjunt de cargol, femella i volandera(es) s'ha de collar fins arribar al "collat a tocar" sense sobretesar els cargols. En grups de cargols aquest procés s'ha de fer progressivament començant pels cargols situats al centre. Si és necessari s'han de fer cicles addicionals de collat .
Abans de començar el pretesat, els cargols pretesats d'un grup s'han de collar d'acord amb el que s'ha indicat per als cargols sense pretesar. Per a que el pretesat sigui uniforme s'han de fer cicles addicionals de collat.
S'han de retirar els conjunts de cargol pretesat, femella i volandera(es) que després de collats fins al pretesat mínim, s'afluixin.
El collat dels cargols pretesats s'ha de fer seguint un dels procediments següents:
- Mètode de la clau dinamomètrica.
- Mètode de la femella indicadora.
- Mètode convinat.

Les superfícies que han de transmetre esforços per fricció s'han de netejar d'olis amb netejadors químics. Després de la preparació i fins l'armat i cargolat s'han de protegir amb cobertes impermeables.
La zona sense revestir situada al voltant del perímetre de la unió amb cargols no s'ha de tractar fins que no s'hagi inspeccionat la unió.
3.- UNITAT I CRITERI D'AMIDAMENT
m2 de superfície amidada en projecció horitzontal, segons les especificacions de la DT.
4.- NORMATIVA DE COMPLIMENT OBLIGATORI
Real Decreto 314/2006, de 17 de marzo, por el que se aprueba el Código Técnico de la Edificación Parte 2. Documento Básico de Acero DB-SE-A.
* UNE-ENV 1090-1:1997 Ejecución de estructuras de acero. Parte 1: Reglas generales y reglas para edificación.

P6 TANCAMENTS I DIVISÒRIES

P64 TANCAMENTS DE PLANXES METÀL·LIQUES

P641- TANCAMENT DE PLANXES D'ACER, EN SEGURETAT I SALUT

0.- ELEMENTS QUE CONTEMPLA EL PLEC

P641-423N.

1.- DEFINICIÓ I CONDICIONS DE LES PARTIDES D'OBRA EXECUTADES
Col·locació de tanca provisional de 2 m d'alçària, de planxa grecada d'acer, fixada a peus d'acer conformat amb desmuntatge inclòs.
L'execució de la unitat d'obra inclou les operacions següents:
- Replanteig
- Col·locació dels peus
- Col·locació de les planxes entre els suports
- Desmuntatge del conjunt

CONDICIONS GENERALS:

La tanca ha de quedar ben fixada al suport. Ha d'estar aplomada i amb els angles i els nivells previstos.
Els muntants han de quedar verticals, independentment del pendent del terreny.
Toleràncies d'execució:
- Distància entre els suports: ± 5 mm
- Replanteig: ± 10 mm
- Nivell: ± 5 mm
- Aplomat: ± 5 mm
2.- CONDICIONS DEL PROCÉS D'EXECUCIÓ
Durant tot el procés constructiu, s'ha de garantir la protecció contra les empentes i els impactes i s'ha de mantenir l'aplomat amb l'ajuda d'elements auxiliars.
3.- UNITAT I CRITERI D'AMIDAMENT
m de llargària amidada segons les especificacions de la DT.
4.- NORMATIVA DE COMPLIMENT OBLIGATORI
No hi ha normativa de compliment obligatori.

P9 FERMS I PAVIMENTS

P93 BASES, SOLERES I RECRESCUDES

P930- BASE DE FORMIGÓ NO ESTRUCTURAL

0.- ELEMENTS QUE CONTEMPLA EL PLEC

P930-11ABR.

1.- DEFINICIÓ I CONDICIONS DE LES PARTIDES D'OBRA EXECUTADES
Formació de subbase o base de formigó per a suport de paviment.
Es considera estesa i vibració manual la col·locació del formigó amb regle vibratori, i estesa i vibració mecànica la col·locació del formigó amb estenedora.
En actuacions de reparació, s'han considerat els graus de dificultat següents:
- Grau de dificultat associat a la mobilitat en l'actuació: - Sense dificultat de mobilitat: actuacions en què hi ha una interferència pròpia de l'entorn on es desenvolupen. - Amb dificultat de mobilitat: actuacions en entorns amb dificultat de mobilitat i/o amb el material aplegat lluny de la zona de treball: - Actuacions amb dificultat d'accessibilitat, per la poca mobilitat de la maquinària, per l'elevada presència de guals particulars i passos de vianants, per la impossibilitat d'ubicar una plataforma de treball lateral, per la impossibilitat d'ocupació de la calçada per fer l'aplec de materials que impliqui fer l'actuació per fases per tal de mantenir el pas de vianants i/o per estar en una zona amb tràfic rodat important - Actuacions en les què els materials estan aplegats lluny de la zona de treball per manca d'espai en la proximitat d'on s'executen les tasques.
- Grau de dificultat associat a l'àmbit de l'actuació en funció de l'amplària de la vorera, calçada o plataforma única
- Grau de dificultat associat a la presència d'elements externs a l'actuació: - Sense afectació per serveis o elements de mobiliari urbà: actuacions sense serveis (canalitzacions d'aigua, semàfors, enllumenat, etc.) ni elements urbans de grans dimensions (marquesines, mòduls d'aparcament de bicicletes, etc.) que interfereixin (o que puguin interferir) en les tasques - Amb afectació per serveis o elements de mobiliari urbà: actuacions amb serveis (canalitzacions d'aigua, semàfors, enllumenat, etc.) o elements urbans de grans dimensions (marquesines, mòduls d'aparcament de bicicletes, etc) que interfereixen en les tasques.
- Grau de dificultat associat a l'abast de l'actuació
L'execució de la unitat d'obra inclou les operacions següents:
CONDICIONS GENERALS:
La superfície acabada ha d'estar reglejada.
No ha de tenir esquerdes ni discontinuïtats.
Ha de formar una superfície plana amb una textura uniforme i s'ha d'ajustar a les alineacions i a les rasants previstes.
Ha de tenir junts de dilatació fets a distàncies no superiors a 25 m; han de ser de 2 cm d'amplària i han d'estar plens d'un material flexible.

Els junts de formigonat han de ser de tot el gruix i s'ha de procurar de fer-los coincidir amb els junts de retracció.
La resistència característica del formigó es comprovarà d'acord amb l'article 57 del CODI ESTRUCTURAL.
Toleràncies d'execució:
- Gruix: - 15 mm
- Nivell: ± 10 mm
2.- CONDICIONS DEL PROCÉS D'EXECUCIÓ
El formigonament s'ha de fer a una temperatura ambient entre 5°C i 40°C.
S'han d'aturar els treballs quan la pluja pugui llevar la capa superficial del formigó fresc.
S'ha de vibrar fins aconseguir una massa compacta i sense que es produeixin segregacions.
Durant l'adormiment i fins que s'aconsegueixi el 70% de la resistència prevista, s'ha de mantenir humida la superfície del formigó amb els mitjans necessaris segons el tipus de ciment utilitzat i les condicions climatològiques del lloc.
Aquest procés ha de durar com a mínim:
- 15 dies en temps calorós i sec
- 7 dies en temps humit
La capa no s'ha de trepitjar durant les 24 h següents a la seva formació.
4.- NORMATIVA DE COMPLIMENT OBLIGATORI
Real Decreto 470/2021, de 29 de junio, por el que se aprueba el Código Estructural.

P9 FERMS I PAVIMENTS

P93 BASES, SOLERES I RECRESCUDES

P931- BASE DE FORMIGÓ

0.- ELEMENTS QUE CONTEMPLA EL PLEC

P931-10RJI.

1.- DEFINICIÓ I CONDICIONS DE LES PARTIDES D'OBRA EXECUTADES
Formació de subbase o base de formigó per a suport de paviment.
Es considera estesa i vibració manual la col·locació del formigó amb regle vibratori, i estesa i vibració mecànica la col·locació del formigó amb estenedora.
En actuacions de reparació, s'han considerat els graus de dificultat següents:
- Grau de dificultat associat a la mobilitat en l'actuació: - Sense dificultat de mobilitat: actuacions en què hi ha una interferència pròpia de l'entorn on es desenvolupen. - Amb dificultat de mobilitat: actuacions en entorns amb dificultat de mobilitat i/o amb el material aplegat lluny de la zona de treball: - Actuacions amb dificultat d'accessibilitat, per la poca mobilitat de la maquinària, per l'elevada presència de guals particulars i passos de vianants, per la impossibilitat d'ubicar una plataforma de treball lateral, per la impossibilitat d'ocupació de la calçada per fer l'aplec de materials que impliqui fer l'actuació per fases per tal de mantenir el pas de vianants i/o per estar en una zona amb tràfic rodat important - Actuacions en les què els materials estan aplegats lluny de la zona de treball per manca d'espai en la proximitat d'on s'executen les tasques.
- Grau de dificultat associat a l'àmbit de l'actuació en funció de l'amplària de la vorera, calçada o plataforma única
- Grau de dificultat associat a la presència d'elements externs a l'actuació: - Sense afectació per serveis o elements de mobiliari urbà: actuacions sense serveis (canalitzacions d'aigua, semàfors, enllumenat, etc.) ni elements urbans de grans dimensions (marquesines, mòduls d'aparcament de bicicletes, etc.) que interfereixin (o que puguin interferir) en les tasques - Amb afectació per serveis o elements de mobiliari urbà: actuacions amb serveis (canalitzacions d'aigua, semàfors, enllumenat, etc.) o elements urbans de grans dimensions (marquesines, mòduls d'aparcament de bicicletes, etc) que interfereixen en les tasques.
- Grau de dificultat associat a l'abast de l'actuació
L'execució de la unitat d'obra inclou les operacions següents:
- Preparació i comprovació de la superfície d'assentament

- Muntatge d'encofrats
- Col·locació del formigó
- Execució de junts de dilatació i formigonament
- Protecció del formigó fresc i curat
- Desmuntatge dels encofrats

CONDICIONS GENERALS:
La superfície acabada ha d'estar reglejada.
No ha de tenir esquerdes ni discontinuïtats.
Ha de formar una superfície plana amb una textura uniforme i s'ha d'ajustar a les alineacions i a les rasants previstes.
Ha de tenir junts de dilatació fets a distàncies no superiors a 25 m; han de ser de 2 cm d'amplària i han d'estar plens d'un material flexible.
Els junts de formigonat han de ser de tot el gruix i s'ha de procurar de fer-los coincidir amb els junts de retracció.
La resistència característica del formigó es comprovarà d'acord amb l'article 57 del CODI ESTRUCTURAL.
Toleràncies d'execució:
- Gruix: - 15 mm
- Nivell: ± 10 mm

2.- CONDICIONS DEL PROCÉS D'EXECUCIÓ
El formigonament s'ha de fer a una temperatura ambient entre 5°C i 40°C.
S'han d'aturar els treballs quan la pluja pugui llevar la capa superficial del formigó fresc.
S'ha de vibrar fins aconseguir una massa compacta i sense que es produeixin segregacions.
Durant l'adormiment i fins que s'aconsegueixi el 70% de la resistència prevista, s'ha de mantenir humida la superfície del formigó amb els mitjans necessaris segons el tipus de ciment utilitzat i les condicions climatològiques del lloc.
Aquest procés ha de durar com a mínim:
- 15 dies en temps calorós i sec
- 7 dies en temps humit

La capa no s'ha de trepitjar durant les 24 h següents a la seva formació.
3.- UNITAT I CRITERI D'AMIDAMENT
m3 de volum amidat segons les especificacions de la DT.
4.- NORMATIVA DE COMPLIMENT OBLIGATORI
Real Decreto 470/2021, de 29 de junio, por el que se aprueba el Código Estructural.

P9 FERMS I PAVIMENTS

P96 VORALS I VORADES

P967- VORADA RECTA DE PECES DE FORMIGÓ

0.- ELEMENTS QUE CONTEMPLA EL PLEC

P967-E9W9.

1.- DEFINICIÓ I CONDICIONS DE LES PARTIDES D'OBRA EXECUTADES
Formació de vorada amb materials diferents.
S'han considerat les unitats d'obra següents:
- Vorada de peces pedra o de formigó col·locades sobre base de formigó

En actuacions de reparació, s'han considerat els graus de dificultat següents:
- Grau de dificultat associat a la mobilitat en l'actuació: - Sense dificultat de mobilitat: actuacions en què hi ha una interferència pròpia de l'entorn on es desenvolupen. - Amb dificultat de mobilitat: actuacions en entorns amb dificultat de mobilitat i/o amb el material aplegat lluny de la zona de treball: - Actuacions amb dificultat d'accessibilitat, per la poca mobilitat de la maquinària, per l'elevada presència de guals particulars i passos de vianants, per la impossibilitat d'ubicar una plataforma de treball lateral, per la impossibilitat d'ocupació de la calçada per fer l'aplec de materials que impliqui fer l'actuació per fases per tal de mantenir el pas de vianants i/o per estar en una zona amb tràfic rodat important - Actuacions en les

què els materials estan aplegats lluny de la zona de treball per manca d'espai en la proximitat d'on s'executen les tasques.
- Grau de dificultat associat a l'àmbit de l'actuació en funció de l'amplària de la vorera, calçada o plataforma única
- Grau de dificultat associat a la presència d'elements externs a l'actuació: - Sense afectació per serveis o elements de mobiliari urbà: actuacions sense serveis (canalitzacions d'aigua, semàfors, enllumenat, etc.) ni elements urbans de grans dimensions (marquesines, mòduls d'aparcament de bicicletes, etc.) que interfereixin (o que puguin interferir) en les tasques - Amb afectació per serveis o elements de mobiliari urbà: actuacions amb serveis (canalitzacions d'aigua, semàfors, enllumenat, etc.) o elements urbans de grans dimensions (marquesines, mòduls d'aparcament de bicicletes, etc) que interfereixen en les tasques.
- Grau de dificultat associat a l'abast de l'actuació
L'execució de la unitat d'obra inclou les operacions següents:
- Preparació i comprovació de la superfície d'assentament
- Col·locació del formigó de la base
- Col·locació de les peces de la vorada rejuntades amb morter
VORADA DE PEDRA O FORMIGÓ:
L'element col·locat ha de tenir un aspecte uniforme, net, sense escantonaments ni d'altres defectes.
S'ha d'ajustar a les alineacions previstes i ha de sobresortir de 10 a 15 cm per damunt de la rigola.
Els junts entre les peces han de ser <= 1 cm i han de quedar rejuntats amb morter.
En el cas de la col·locació sobre base de formigó, ha de quedar assentada 5 cm sobre el llit de formigó.
Dimensions de la base de formigó (al seu cas):
- Amplària de la base de formigó: Gruix de la vorada + 5 cm
- Gruix de la base de formigó: 4 cm
Pendent transversal: >= 2%
Toleràncies d'execució:
- Replanteig: ± 10 mm (no acumulatius)
- Nivell: ± 10 mm
- Planor: ± 4 mm/2 m (no acumulatius)
2.- CONDICIONS DEL PROCÉS D'EXECUCIÓ
CONDICIONS GENERALS:
S'ha de treballar a una temperatura ambient que oscil·li entre els 5°C i els 40°C i sense pluges.
Hi ha d'haver punts fixos de referència exteriors a la zona de treball, als quals s'hi han de referir totes les lectures topogràfiques.
No s'ha de treballar amb pluja, neu o vent superior als 60 km/h.
L'abocada del formigó s'ha de fer sense que es produeixin disgregacions i s'ha de vibrar fins aconseguir una massa compacta.
Per a realitzar junts de formigonat no previstos en el projecte, cal l'autorització i les indicacions explícites de la DF.
Les peces s'han de col·locar abans que el formigó comenci el seu adormiment.
Durant l'adormiment i fins aconseguir el 70% de la resistència prevista s'ha de mantenir humida la superfície del formigó. Aquest procés ha de ser, com a mínim, de 3 dies.
3.- UNITAT I CRITERI D'AMIDAMENT
m de llargària amidada segons les especificacions de la DT.
4.- NORMATIVA DE COMPLIMENT OBLIGATORI
No hi ha normativa de compliment obligatori.
5.- CONDICIONS DE CONTROL D'EXECUCIÓ I DE L'OBRA ACABADA
CONTROL D'EXECUCIÓ. OPERACIONS DE CONTROL:
Els punts de control més destacables són els següents:
- Control d'execució i acabats de la base de formigó sobre la que es col·loquen les peces de vorada o de rigola.
- Control de l'aspecte de les peces abans de la seva col·locació.
- Inspecció visual del procediment d'execució, d'acord a les condicions del plec i al procediment adoptat
CONTROL DE L'OBRA ACABADA. OPERACIONS DE CONTROL:
Els punts de control més destacables són els següents:
Inspecció visual de la unitat acabada.
- Comprovació topogràfica de les alineacions i condicions generals d'acabat.
CRITERIS DE PRESA DE MOSTRES:
Els controls s'han de realitzar segons les instruccions de la DF.
INTERPRETACIÓ DE RESULTATS I ACTUACIONS EN CAS D'INCOMPLIMENT:
Correcció per part del contractista de les irregularitats observades.

P9 FERMS I PAVIMENTS

P97 RIGOLES

P976- RIGOLA DE PECES DE FORMIGÓ

0.- ELEMENTS QUE CONTEMPLA EL PLEC

P976-HH1K.

1.- DEFINICIÓ I CONDICIONS DE LES PARTIDES D'OBRA EXECUTADES
Execució de les operacions necessaries per a la formació de rigoles.
S'han considerat les unitats d'obra següents:
- Formació de rigola o encintat amb peces de pedra natural, morter o formigó, col·locades amb morter.
En actuacions de reparació, s'han considerat els graus de dificultat següents:
- Grau de dificultat associat a la mobilitat en l'actuació: - Sense dificultat de mobilitat: actuacions en què hi ha una interferència pròpia de l'entorn on es desenvolupen. - Amb dificultat de mobilitat: actuacions en entorns amb dificultat de mobilitat i/o amb el material aplegat lluny de la zona de treball: - Actuacions amb dificultat d'accessibilitat, per la poca mobilitat de la maquinària, per l'elevada presència de guals particulars i passos de vianants, per la impossibilitat d'ubicar una plataforma de treball lateral, per la impossibilitat d'ocupació de la calçada per fer l'aplec de materials que impliqui fer l'actuació per fases per tal de mantenir el pas de vianants i/o per estar en una zona amb tràfic rodat important - Actuacions en les què els materials estan aplegats lluny de la zona de treball per manca d'espai en la proximitat d'on s'executen les tasques.
- Grau de dificultat associat a l'àmbit de l'actuació en funció de l'amplària de la vorera, calçada o plataforma única
- Grau de dificultat associat a la presència d'elements externs a l'actuació: - Sense afectació per serveis o elements de mobiliari urbà: actuacions sense serveis (canalitzacions d'aigua, semàfors, enllumenat, etc.) ni elements urbans de grans dimensions (marquesines, mòduls d'aparcament de bicicletes, etc.) que interfereixin (o que puguin interferir) en les tasques - Amb afectació per serveis o elements de mobiliari urbà: actuacions amb serveis (canalitzacions d'aigua, semàfors, enllumenat, etc.) o elements urbans de grans dimensions (marquesines, mòduls d'aparcament de bicicletes, etc) que interfereixen en les tasques.
- Grau de dificultat associat a l'abast de l'actuació
L'execució de la unitat d'obra inclou les operacions següents:
Rigola amb peces col·locades amb morter:
- Preparació i comprovació de la superfície d'assentament
- Col·locació de la capa de morter
- Col·locació de les peces
- Col·locació de la beurada
- Neteja de la superfície acabada
RIGOLA:
S'ha d'ajustar a les alineacions previstes.
Ha de tenir un aspecte uniforme i sense defectes.
Quan la rigola és sense forma de cuneta, la cara superior ha de tenir un pendent transversal del 2% al 4% per al desguàs del ferm, excepte quan siguin rigoles sense desnivell.
Toleràncies d'execució:
- Replanteig: ± 10 mm (no acumulatius)
- Nivell: ± 10 mm
- Planor: ± 4 mm/2 m
RIGOLA AMB PECES:
Les peces no han d'estar trencades, escantonades o tacades.
Les peces han de formar una superfície plana i uniforme, han d'estar ben assentades, col·locades a fil i a tocar i en alineacions rectes.

Els junts entre les peces han de ser <= 5 mm i han de quedar rejuntats amb beurada de ciment.
2.- CONDICIONS DEL PROCÉS D'EXECUCIÓ
CONDICIONS GENERALS:
El suport ha de tenir el grau de compactació adequat i les rasants previstes.
Grau de compactació (assaig PM)
- Base de formigó o rigola amb peces: >= 95%
- Rigola de formigó: >= 90%
RIGOLA AMB PECES:
S'ha de treballar a una temperatura ambient que oscil·li entre els 5°C i els 40°C i sense pluges.
S'ha de col·locar a truc de maceta sobre una capa de morter de 3 cm de gruix.
No es pot trepitjar la rigola després d'haver-se abeurat fins al cap de 24 h a l'estiu, 48 h a l'hivern.
3.- UNITAT I CRITERI D'AMIDAMENT
RIGOLA:
m de llargària amidada segons les especificacions de la DT.
4.- NORMATIVA DE COMPLIMENT OBLIGATORI
RIGOLA AMB PECES:
No hi ha normativa de compliment obligatori.
5.- CONDICIONS DE CONTROL D'EXECUCIÓ I DE L'OBRA ACABADA
CONTROL D'EXECUCIÓ. OPERACIONS DE CONTROL:
Els punts de control més destacables són els següents:
- Control d'execució i acabats de la base de formigó sobre la que es col·loquen les peces de vorada o de rigola.
- Control de l'aspecte de les peces abans de la seva col·locació.
- Inspecció visual del procediment d'execució, d'acord a les condicions del plec i al procediment adoptat
CONTROL DE L'OBRA ACABADA. OPERACIONS DE CONTROL:
Els punts de control més destacables són els següents:
Es comprovarà que s'han adoptat les mesures necessàries per assegurar la compatibilitat entre els diferents productes, elements i sistemes constructius.
Inspecció visual de la unitat acabada.
- Comprovació topogràfica de les alineacions i condicions generals d'acabat.
CRITERIS DE PRESA DE MOSTRES:
Els controls s'han de realitzar segons les instruccions de la DF.
INTERPRETACIÓ DE RESULTATS I ACTUACIONS EN CAS D'INCOMPLIMENT:
Correcció per part del contractista de les irregularitats observades.

P9 FERMS I PAVIMENTS

P9E PAVIMENTS DE PANOT I RAJOLA HIDRÀULICA

P9E1- PAVIMENT DE PANOT

0.- ELEMENTS QUE CONTEMPLA EL PLEC

P9E1-V6R2.

1.- DEFINICIÓ I CONDICIONS DE LES PARTIDES D'OBRA EXECUTADES
Formació de paviments de panot.
S'han considerat els casos següents:
- Paviments de panot col·locats a l'estesa amb sorra-ciment, amb o sense suport de 3 cm de sorra
- Paviments de panot col·locats a truc de maceta amb morter, amb o sense suport de 3 cm de sorra
En actuacions de reparació, s'han considerat els graus de dificultat següents:
- Grau de dificultat associat a la mobilitat en l'actuació: - Sense dificultat de mobilitat: actuacions en què hi ha una interferència pròpia de l'entorn on es

desenvolupen. - Amb dificultat de mobilitat: actuacions en entorns amb dificultat de mobilitat i/o amb el material aplegat lluny de la zona de treball: - Actuacions amb dificultat d'accessibilitat, per la poca mobilitat de la maquinària, per l'elevada presència de guals particulars i passos de vianants, per la impossibilitat d'ubicar una plataforma de treball lateral, per la impossibilitat d'ocupació de la calçada per fer l'aplec de materials que impliqui fer l'actuació per fases per tal de mantenir el pas de vianants i/o per estar en una zona amb tràfic rodat important - Actuacions en les què els materials estan aplegats lluny de la zona de treball per manca d'espai en la proximitat d'on s'executen les tasques.
- Grau de dificultat associat a l'àmbit de l'actuació en funció de l'amplària de la vorera, calçada o plataforma única
- Grau de dificultat associat a la presència d'elements externs a l'actuació: - Sense afectació per serveis o elements de mobiliari urbà: actuacions sense serveis (canalitzacions d'aigua, semàfors, enllumenat, etc.) ni elements urbans de grans dimensions (marquesines, mòduls d'aparcament de bicicletes, etc.) que interfereixin (o que puguin interferir) en les tasques - Amb afectació per serveis o elements de mobiliari urbà: actuacions amb serveis (canalitzacions d'aigua, semàfors, enllumenat, etc.) o elements urbans de grans dimensions (marquesines, mòduls d'aparcament de bicicletes, etc) que interfereixen en les tasques.
- Grau de dificultat associat a l'abast de l'actuació
L'execució de la unitat d'obra inclou les operacions següents:
En la col·locació a l'estesa amb sorra-ciment:
- Preparació i comprovació de la superfície d'assentament
- Col·locació de la capa de sorra, en el seu cas
- Col·locació de la sorra-ciment
- Col·locació de les peces de panot
- Humectació de la superfície
- Confecció i col·locació de la beurada
En la col·locació a truc de maceta amb morter:
- Preparació i comprovació de la superfície d'assentament
- Col·locació de la capa de sorra, en el seu cas
- Col·locació de la capa de morter
- Humectació de les peces per col·locar
- Col·locació de les peces
- Humectació de la superfície
- Confecció i col·locació de la beurada
CONDICIONS GENERALS:
El paviment ha de formar una superfície plana,sense resalts entre peces, uniforme i s'ha d'ajustar a les alineacions i a les rasants previstes.
En el paviment no hi ha d'haver peces escantonades, taques ni d'altres defectes superficials.
Les peces han d'estar col·locades a tocar i alineades.
Les peces han de quedar ben assentades, amb la cara més polida o més ample a dalt.
Les peces han d'estar disposades formant alineacions rectes, segons l'especejament definit en la DT.
Excepte en les zones classificades com d'ús restringit pel CTE no s'admetran les discontinuïtats següents en el propi paviment ni en els encontres d'aquest amb altres elements:
- Imperfeccions o irregularitats que suposin una diferència de nivell de més de 6 mm
- Els desnivells que no superin els 50 mm s'han de resoldre amb una pendent que no excedeixi del 25%
- En les zones interiors de circulació de persones, no presentarà perforacions o forats pels que es pugui introduir una esfera de 15 mm de diàmetre
Els acords del paviment han de quedar fets contra les voreres o els murets.
Ha de tenir junts laterals de contracció cada 25 m2, de 2 cm de gruix, segellats amb sorra. Aquests junts han d'estar el més aprop possible dels junts de contracció de la base.
Els junts que no siguin de contracció han de quedar plens de beurada de ciment pòrtland.
Pendent transversal: >= 2%
Toleràncies d'execució:
- Nivell: ± 10 mm
- Planor: ± 4 mm/2 m
- Rectitud dels junts: ± 3 mm/2 m
- Replanteig: ± 10 mm
2.- CONDICIONS DEL PROCÉS D'EXECUCIÓ
S'han de col·locar començant per les vorades o els murets.
Una vegada col·locades les peces s'ha d'estendre la beurada.

No s'ha de trepitjar després d'haver-se abeurat, fins al cap de 24 h a l'estiu i 48 h a l'hivern.
COL·LOCACIÓ AMB MORTER I JUNTS REBLERTS AMB BEURADA:
S'han de suspendre els treballs quan la temperatura sigui < 5°C.
Les peces per col·locar han de tenir la humitat necessària per tal que no absorbeixin l'aigua del morter.
3.- UNITAT I CRITERI D'AMIDAMENT
m2 de superfície executada d'acord amb les especificacions de la DT, amb deducció de la superfície corresponent a obertures interiors, d'acord amb els criteris següents:
- Obertures <= 1,5 m2: No es dedueixen
- Obertures > 1,5 m2: Es dedueix el 100%
Aquests criteris inclouen l'acabament específic dels acords a les vores, sense que comporti l'ús de materials diferents d'aquells que normalment conformen la unitat.
4.- NORMATIVA DE COMPLIMENT OBLIGATORI
PAVIMENT COL·LOCAT SOBRE MORTER O LLIT DE SORRA
No hi ha normativa de compliment obligatori.
5.- CONDICIONS DE CONTROL D'EXECUCIÓ I DE L'OBRA ACABADA
CONTROL D'EXECUCIÓ. OPERACIONS DE CONTROL:
Els punts de control més destacables són els següents:
- Control d'execució i acabats de la base de formigó sobre la que es col·loquen les peces de panot.
- Control de l'aspecte de les peces abans de la seva col·locació.
- Inspecció del procés d'execució, d'acord a les indicacions del plec.
- Comprovació topogràfica de les alineacions i condicions generals d'acabat.
CONTROL DE L'OBRA ACABADA. OPERACIONS DE CONTROL:
- Inspecció visual de la unitat acabada.
- Comprovació topogràfica de les alineacions i condicions generals d'acabat.
CRITERIS DE PRESA DE MOSTRES:
Els controls s'han de fer segons les indicacions de la DF.
CONTROL D'EXECUCIÓ. INTERPRETACIÓ DE RESULTATS I ACTUACIONS EN CAS D'INCOMPLIMENT:
Correcció per part del contractista, dels defectes de col·locació segons les instruccions de la DF.
CONTROL DE L'OBRA ACABADA. INTERPRETACIÓ DE RESULTATS I ACTUACIONS EN CAS D'INCOMPLIMENT:
Correcció per part del contractista de les irregularitats observades.

P9 FERMS I PAVIMENTS

P9G PAVIMENTS DE FORMIGÓ

P9GG- PAVIMENT DE FORMIGÓ SENSE ADDITIUS

0.- ELEMENTS QUE CONTEMPLA EL PLEC

P9GG-4Y5D,P9GG-4YTA.

1.- DEFINICIÓ I CONDICIONS DE LES PARTIDES D'OBRA EXECUTADES
Paviments de formigó.
S'han considerat els tipus de paviments de formigó següents:
- Paviment amb formigó estructural, amb acabat remolinat, remolinat més ciment pòrtland i pols de quars o amb l'execució d'una textura superficial
- Paviment per a carreteres amb formigó HF, format per un conjunt de lloses de formigó en massa separades per junts transversals, o per una llosa continua de formigó armat, en tots dos casos eventualment dotat de juntsongitudinals
S'han considerat les col·locacions del formigó següents:
- Amb estenedora de formigó
- Amb regle vibratori
L'execució de la unitat d'obra inclou les operacions següents:
Paviments amb formigó estructural col·locats amb estenedora:
- Preparació i comprovació de la superfície d'assentament

- Col·locació d'elements de guiat de les màquines
- Col·locació del formigó
- Realització de la textura superficial
- Protecció del formigó i cura

Paviments amb formigó estructural col·locats amb regle vibratori:
- Preparació i comprovació de la superfície d'assentament
- Col·locació dels encofrats laterals, en el seu cas
- Abocat, escampat i vibrat del formigó
- Realització de la textura superficial
- Protecció del formigó i cura

Paviments per a carreteres amb formigó HF:
- Estudi i obtenció de la fórmula de treball
- Preparació i comprovació de la superfície d'assentament
- Col·locació d'elements de guiat de les màquines i condicionament dels camins de rodament
- Col·locació del formigó
- Execució del junt longitudinal en fresc, i en el seu cas dels transversals
- Acabament de les vores i realització de la textura superficial
- Protecció del formigó i cura

CONDICIONS GENERALS:

La superfície del paviment ha de tenir una textura uniforme i sense segregacions.
El formigó col·locat no ha de tenir disgregacions o buits a la massa.
Les lloses no han de tenir esquerdes.
Hi ha d'haver els junts de retracció i de dilatació especificats a la DT o, en el seu defecte, els indicats per la DF.
Aquests junts han de complir les especificacions del seu plec de condicions.
Els cantells de les lloses i els llavis dels junts amb estelladures s'han de reparar amb resina epoxi, segons les instruccions de la DF.
L'amplària del paviment no ha de ser inferior en cap cas a la prevista a la DT.
El gruix del paviment no ha de ser inferior en cap punt al previst a la DT.
La capa ha de tenir el pendent especificat a la DT o, en el seu defecte, el que especifiqui la DF.
L'acabat de la superfície tindrà la textura indicada a la DT o el que estipuli la DF.

PAVIMENT AMB FORMIGÓ ESTRUCTURAL O LLEUGER:

La resistència característica del formigó es comprovarà d'acord amb l'article 57 del CODI ESTRUCTURAL.
Toleràncies d'execució:
- Nivell: ± 10 mm
- Planor: - En direcció longitudinal: ± 3 mm amb regla de 3 m - En direcció transversal: ± 6 mm amb regla de 3 m - Voreres i rampes en qualsevol direcció: ± 6 mm amb regla de 3 m

Les toleràncies d'execució han de complir l'especificat en l'article 5.9 de l'annex 14 del CODI ESTRUCTURAL.

PAVIMENT AMB FORMIGÓ HF:

La textura ha de consistir en l'eliminació del morter de la superfície, en un estriat o ranurat longitudinal en la calçada i en un estriat o ranurat longitudinal o transversal en els vorals.
Resistència a flexotracció als 28 dies (UNE-EN 12390-5):
Formigó HF-3,5: >= 3,5 MPa
Formigó HF-4,0: >= 4,0 MPa
Formigó HF-4,5: >= 4,5 MPa
Índex de Regularitat superficial IRI (NLT 330): Ha de complir amb els valors de la taula 550.9 del PG 3 vigent.
Macrotextura superficial (UNE-EN 13036-1): > 0,9 mm
Resistència al lliscament (UNE 41201 IN): > 75%
Toleràncies d'execució:
- Desviacions en planta: ± 30 mm
- Rasant de la superfície acabada: ± 10 mm

2.- CONDICIONS DEL PROCÉS D'EXECUCIÓ

CONDICIONS GENERALS:

El formigonament s'ha d'aturar quan es preveu que durant les 48 h següents la temperatura pot ser inferior a 0°C. Si en algun cas fos imprescindible formigonar en aquestes condicions, s'han de prendre les mesures necessàries per tal de garantir que en el procés d'enduriment del formigó no es produiran defectes en els elements ni pèrdues de resistència.
La capa no s'ha d'estendre fins que s'hagi comprovat que la superfície sobre la que ha d'assentar-se té les condicions de qualitat i formes previstes, amb les toleràncies establertes. Si en aquesta superfície hi ha defectes o irregularitats que excedeixen les

tolerables, s'han de corregir abans de l'execució de la partida d'obra, d'acord amb les instruccions de la DF.
En temps calorós, o amb vent i humitat relativa baixa, s'han d'extremar les precaucions per a evitar dessecacions superficials i fissuracions, segons les indicacions de la DF.
Quan la temperatura ambient sigui superior als 30°C, s'ha de controlar constantment la temperatura del formigó, que no ha de superar en cap moment els 35°C.
S'ha de fer un tram de prova >= 200 m amb la mateixa dosificació, equip, velocitat de formigonament i gruix que després s'utilitzin a l'obra.
No s'ha de procedir a la construcció de la capa sense que un tram de prova hagi estat aprovat per la DF.
S'ha d'interrompre el formigonament quan plogui amb una intensitat que pugui provocar la deformació del cantell de les lloses o la pèrdua de la textura superficial del formigó fresc.
Entre la fabricació del formigó i el seu acabat no pot passar més d'1 h. La DF podrà ampliar aquest termini fins a un màxim de 2 h, si es prenen mesures per tal d'inhibir l'enduriment del formigó o si les condicions ambientals son molt favorables.
El formigó s'ha de posar a l'obra abans que comenci l'adormiment, i a una temperatura >= 5°C.
Davant de la reglada enrasadora s'ha de mantenir en tot moment i a tota l'amplada de la pavimentadora un excés de formigó fresc en forma de cordó d'alçària <= 10 cm.
L'abocada i l'estesa s'han de realitzar tenint cura d'evitar segregacions i contaminacions.
S'han de facilitar els mitjans necessaris per tal de permetre la circulació del personal i evitar danys al formigó fresc.
Els talls de formigonat han de tenir tots els accessos senyalitzats i condicionats per a protegir la capa construïda.
Als junts longitudinals s'ha d'aplicar un producte antiadherent al cantell de la franja ja construïda. S'ha de cuidar que el formigó que es col·loqui al llarg d'aquest junt sigui homogeni i quedi compactat.
S'han de disposar junts transversals de formigonament al final de la jornada, o quan s'hagi produït una interrupció del formigonament que faci témer un inici de l'adormiment al front d'avanç.
Sempre que sigui possible s'han de fer coincidir aquests junts amb un de contracció o de dilatació, modificant si és necessari la situació d'aquells, segons les instruccions de la DF.
Si no es pot fer d'aquesta forma, s'han de disposar a una distància del junt més proper >= 1,5 m.
S'han de retocar manualment les imperfeccions dels llavis dels junts transversals de contracció executats al formigó fresc.
S'ha de prohibir el reg amb aigua o l'extensió de morter sobre la superfície del formigó fresc per a facilitar el seu acabat.
On sigui necessari aportar material per a corregir una zona baixa, s'ha d'utilitzar formigó no estès.
En el cas que es formigoni en dues capes, s'ha d'estendre la segona abans que la primera comenci el seu adormiment. Entre la posada a l'obra de les dues capes no han de passar més de 30 minuts.
En el cas que s'aturi la posada en obra del formigó més de 30 minuts, s'ha de cobrir el front de forma que no s'evapori l'aigua. Si el termini d'interrupció és superior al màxim admès entre la fabricació i posada en obra del formigó, es disposarà un junt transversal.
Quan el formigó estigui fresc, s'han d'arrodonir els cantells de la capa amb una aplanadora corba.
El formigó s'ha de curar amb un producte filmogen, excepte en el cas que la DF autoritzi un altre sistema, el reg de cura, en el seu cas, ha de complir l'especificat en el Plec de condicions corresponent.
S'ha de prohibir tot tipus de circulació sobre la capa durant els 3 dies següents al formigonament, a excepció del imprescindible per a l'execució de junts i la comprovació de la regularitat superficial.
El trànsit d'obra no ha de circular abans de que el formigó hagi assolit el 80% de la resistència exigida a 28 dies.
L'obertura a la circulació ordinària no s'ha de fer abans de 7 dies de l'acabat del paviment.
PAVIMENT PER A CARRETERES:
La fabricació del formigó, el seu transport i posada en obra, s'ha de fer amb maquinària que compleixi els requisits indicats a l'apartat 550.4 del PG 3 vigent.
En el cas que la calçada tingui dos o més carrils en el mateix sentit de circulació, s'han de formigonar com a mínim dos carrils al mateix temps.
Els junts longitudinals i transversals de posada en obra del formigó fresc s'han d'executar seguint les indicacions de l'apartat 550.5.9 del PG 3 vigent.

L'acabat de la superfície s'ha de fer abans de l'inici de l'adormiment del formigó, amb les tècniques descrites a l'article 550.5.10.4 del PG 3 vigent.
El formigó fresc s'ha de protegir i s'ha de curar d'acord amb les indicacions de l'article 550.5.11 del PG 3 vigent.
ESTESA AMB ESTENEDORA:
El camí de rodadura de les màquines estarà suficientment compactat i es mantindrà net. No tindrà irregularitats superiors a 15 mm, mesurat amb regle de 3 m (NLT-334).
Els elements vibratoris de les màquines no s'han de recolzar sobre paviments acabats, i han de deixar de funcionar a l'instant que aquestes s'aturin.
La llargària de la reglada enrasadora de la pavimentadora ha de ser suficient per a que no s'apreciïn ondulacions a la superfície del formigó.
L'espaiament entre les piquetes que sustenten el cable de guia de l'estenedora no ha de ser superior a 10 m.
Aquesta distància s'ha de reduir a 5 m a les corbes de radi inferior a 500 m i als acords verticals de paràmetre inferior a 2000 m.
S'ha de tensar el cable de guia de forma que la fletxa entre dos piquetes consecutives sigui <= 1 mm.
S'ha de protegir la zona dels junts de l'acció de les erugues interposant bandes de goma, xapes metàl·liques o d'altres materials adequats en el cas que es formigoni una franja junt a un altra existent i s'utilitzi aquesta com a guia de les màquines.
En cas que la maquinària utilitzi com a element de rodadura una franja de formigó prèviament construït, ha d'haver assolit una edat mínima de 3 dies.
L'abocada i estesa del formigó s'ha de fer de forma suficientment uniforme per a no desequilibrar l'avanç de la pavimentadora. Aquesta precaució s'ha d'extremar en el cas de formigonament en rampa.
La superfície del paviment no s'ha de retocar, excepte en zones aïllades, comprovades amb un regle no inferior a 4 m.
ESTESA AMB REGLE VIBRATORI:
La quantitat d'encofrat disponible ha de ser suficient perquè, amb un termini mínim de desencofrat del formigó de 16 h, es tingui en tot moment col·locada i a punt una llargària d'encofrat no inferior a la corresponent a 3 h de formigonament.
3.- UNITAT I CRITERI D'AMIDAMENT
m3 de volum realment executat, mesurat d'acord amb les seccions-tipus senyalades a la DT
Aquests criteris inclouen l'acabament específic dels acords amb les vores, sense que comporti l'ús de materials diferents d'aquells que normalment conformen la unitat.
No s'inclouen en aquests criteri les reparacions d'irregularitat superiors a les tolerables.
No és d'abonament en aquesta unitat d'obra el reg de cura.
No són d'abonament en aquesta unitat d'obra els junts de retracció ni els de dilatació.
No s'inclou dins d'aquesta unitat d'obra l'abonament dels treballs de preparació de la superfície existent.
ESTESA AMB REGLE VIBRATORI:
Queda inclòs el muntatge i desmuntatge de l'encofrat lateral, en el cas que sigui necessari.
4.- NORMATIVA DE COMPLIMENT OBLIGATORI
Real Decreto 470/2021, de 29 de junio, por el que se aprueba el Código Estructural.
* Orden de 6 de febrero de 1976 por la que se aprueba el Pliego de Prescripciones Técnicas Generales para Obras de Carreteras y Puentes (PG-3).
* Orden FOM/2523/2014, de 12 de diciembre, por la que se actualizan determinados artículos del Pliego de Prescripciones Técnicas Generales para Obras de Carreteras y Puentes, relativos a materiales básicos, a firmes y pavimentos, y a señalización, balizamiento y sistemas de contención de vehículos (PG-3).
* Orden FOM/510/2018, de 8 de mayo, por la que se modifica la Orden FOM/2523/2014, de 12 de diciembre, por la que se actualizan determinados artículos del Pliego de Prescripciones Técnicas Generales para Obras de Carreteras y Puentes, relativos a materiales básicos, a firmes y pavimentos, y a señalización, balizamiento y sistemas de contención de vehículos (PG-3).

PD INSTAL·LACIONS D'EVACUACIÓ, CANALITZACIÓ I VENTILACIÓ ESTÀTICA

PDG CANALITZACIONS DE SERVEIS

PDG4- CANALITZACIÓ AMB TUBS DE PVC

0.- ELEMENTS QUE CONTEMPLA EL PLEC

PDG4-M98D.

1.- DEFINICIÓ I CONDICIONS DE LES PARTIDES D'OBRA EXECUTADES
Canalitzacions amb tubs de formigó, de PVC, de polietilè, o combinacions de tubs de fibrociment NT i PVC, col·locats en una rasa i recoberts.
S'han considerat els reblerts de rasa següents:
- Reblert de la rasa amb terres
- Reblert de la rasa amb formigó
En actuacions de reparació, s'han considerat els graus de dificultat següents:
- Grau de dificultat associat a la mobilitat en l'actuació: - Sense dificultat de mobilitat: actuacions en què hi ha una interferència pròpia de l'entorn on es desenvolupen. - Amb dificultat de mobilitat: actuacions en entorns amb dificultat de mobilitat i/o amb el material aplegat lluny de la zona de treball: - Actuacions amb dificultat d'accessibilitat, per la poca mobilitat de la maquinària, per l'elevada presència de guals particulars i passos de vianants, per la impossibilitat d'ubicar una plataforma de treball lateral, per la impossibilitat d'ocupació de la calçada per fer l'aplec de materials que impliqui fer l'actuació per fases per tal de mantenir el pas de vianants i/o per estar en una zona amb tràfic rodat important - Actuacions en les què els materials estan aplegats lluny de la zona de treball per manca d'espai en la proximitat d'on s'executen les tasques.
- Grau de dificultat associat a l'àmbit de l'actuació en funció de l'amplària de la vorera, calçada o plataforma única
- Grau de dificultat associat a la presència d'elements externs a l'actuació: - Sense afectació per serveis o elements de mobiliari urbà: actuacions sense serveis (canalitzacions d'aigua, semàfors, enllumenat, etc.) ni elements urbans de grans dimensions (marquesines, mòduls d'aparcament de bicicletes, etc.) que interfereixin (o que puguin interferir) en les tasques - Amb afectació per serveis o elements de mobiliari urbà: actuacions amb serveis (canalitzacions d'aigua, semàfors, enllumenat, etc.) o elements urbans de grans dimensions (marquesines, mòduls d'aparcament de bicicletes, etc) que interfereixen en les tasques.
- Grau de dificultat associat a l'abast de l'actuació
L'execució de la unitat d'obra inclou les operacions següents:
- Col·locació dels tubs
- Unió dels tubs
- Reblert de la rasa amb terres o formigó
CONDICIONS GENERALS:
Els tubs col·locats han de quedar a la rasant prevista. Han de quedar rectes.
Els tubs s'han de situar regularment distribuïts dins la rasa.
No hi ha d'haver contactes entre els tubs.
REBLERT DE LA RASA AMB TERRES:
La rasa ha de quedar reblerta de terres seleccionades degudament compactades.
Partícules que passen pel tamís 0,08 UNE 7-056 (NLT-152), en pes: < 25%
Contingut en matèria orgànica (UNE 103-204): Nul
Contingut de pedres de mida > 8 cm (NLT-152): Nul
REBLERT DE LA RASA AMB FORMIGÓ:
El formigó no ha de tenir esquerdes o defectes de formigonament, com és ara disgregacions o buits a la massa.
Gruix del formigó per sota del tub més baix: >= 5 cm
La resistència característica del formigó es comprovarà d'acord amb l'article 57 del CODI ESTRUCTURAL.
2.- CONDICIONS DEL PROCÉS D'EXECUCIÓ
CONDICIONS GENERALS:
No s'han de col·locar més de 100 m de canalització sense haver acabat les operacions d'execució de junts i reblert de rasa.
REBLERT DE LA RASA AMB TERRES:
S'ha de treballar a una temperatura superior a 5°C i sense pluja.
Abans de procedir al rebliment de terres, s'han de subjectar els tubs per punts, amb material de reblert.
Cal evitar el pas de vehicles fins que la compactació s'hagi completat.
REBLERT DE LA RASA AMB FORMIGÓ:
La temperatura ambient per a formigonar ha d'estar entre 5°C i 40°C.

El formigó s'ha de col·locar a la rasa abans que s'inicïi el seu adormiment i l'abocada s'ha de fer de manera que no es produeixin disgregacions.
El procés de formigonament no ha de modificar la situació del tub dins del dau de formigó.
3.- UNITAT I CRITERI D'AMIDAMENT
m de llargària instal·lada, amidada segons les especificacions de la DT, entre els eixos dels elements o dels punts per connectar.
4.- NORMATIVA DE COMPLIMENT OBLIGATORI
NORMATIVA GENERAL:
La normativa ha de ser l'específica de l'ús al que es destina la canalització.
REBLERT DE LA RASA AMB FORMIGÓ:
Real Decreto 470/2021, de 29 de junio, por el que se aprueba el Código Estructural.
5.- CONDICIONS DE CONTROL D'EXECUCIÓ I DE L'OBRA ACABADA
CONTROL D'EXECUCIÓ. OPERACIONS DE CONTROL EN CANALITZACIONS AMB TUBS DE PVC:
Les tasques de control a realitzar són les següents:
- Control de l'excavació de la rasa. Comprovació topogràfica de les alineacions.
- Inspecció visual del fons de la rasa sobre la que s'assentaran els tubs i comprovació de les toleràncies d'execució.
- Inspecció visual dels tubs abans de la seva col·locació, rebutjant els que presentin defectes.
- Control de l'execució del dau de formigó de recobriment.
- Control d'execució del reblert (veure plec corresponent)
CONTROL D'EXECUCIÓ. CRITERIS DE PRESA DE MOSTRES EN CANALITZACIONS AMB TUBS DE PVC:
Es seguiran els criteris que en cada cas, indiqui la DF.
CONTROL D'EXECUCIÓ. INTERPRETACIÓ DE RESULTATS I ACTUACIONS EN CAS D'INCOMPLIMENT EN CANALITZACIONS AMB TUBS DE PVC:
Correcció per part del contractista de les irregularitats observades.
CONTROL DE L'OBRA ACABADA. OPERACIONS DE CONTROL EN CANALITZACIONS AMB TUBS DE PVC:
- Control visual de les alineacions dels tubs col·locats.
CONTROL DE L'OBRA ACABADA. CRITERIS DE PRESA DE MOSTRES EN CANALITZACIONS AMB TUBS DE PVC:
Els controls s'han de realitzar segons les instruccions de la DF.
CONTROL DE L'OBRA ACABADA. INTERPRETACIÓ DE RESULTATS I ACTUACIONS EN CAS D'INCOMPLIMENT EN CANALITZACIONS AMB TUBS DE PVC:
Correcció per part del contractista de les irregularitats observades.

PD INSTAL·LACIONS D'EVACUACIÓ, CANALITZACIÓ I VENTILACIÓ ESTÀTICA

PDK PERICONS PER A CANALITZACIONS DE SERVEIS

PDK1- BASTIMENT I TAPA PER A PERICONS DE CANALITZACIONS DE SERVEIS, COL·LOCATS

0.- ELEMENTS QUE CONTEMPLA EL PLEC

PDK1-DX9W.

1.- DEFINICIÓ I CONDICIONS DE LES PARTIDES D'OBRA EXECUTADES
Subministrament i col·locació de bastiment i tapa per a pericó.
En actuacions de reparació, s'han considerat els graus de dificultat següents:
- Grau de dificultat associat a la mobilitat en l'actuació: - Sense dificultat de mobilitat: actuacions en què hi ha una interferència pròpia de l'entorn on es desenvolupen. - Amb dificultat de mobilitat: actuacions en entorns amb dificultat de mobilitat i/o amb el material aplegat lluny de la zona de treball: - Actuacions amb dificultat d'accessibilitat, per la poca mobilitat de la maquinària, per l'elevada presència de guals particulars i passos de vianants, per la impossibilitat d'ubicar una plataforma de treball lateral, per la impossibilitat d'ocupació de la calçada per fer l'aplec de materials que impliqui fer l'actuació per fases per tal de mantenir el pas de vianants i/o per estar en una zona amb tràfic rodat important - Actuacions en les

què els materials estan aplegats lluny de la zona de treball per manca d'espai en la proximitat d'on s'executen les tasques.
- Grau de dificultat associat a l'àmbit de l'actuació en funció de l'amplària de la vorera, calçada o plataforma única
- Grau de dificultat associat a la presència d'elements externs a l'actuació: - Sense afectació per serveis o elements de mobiliari urbà: actuacions sense serveis (canalitzacions d'aigua, semàfors, enllumenat, etc.) ni elements urbans de grans dimensions (marquesines, mòduls d'aparcament de bicicletes, etc.) que interfereixin (o que puguin interferir) en les tasques - Amb afectació per serveis o elements de mobiliari urbà: actuacions amb serveis (canalitzacions d'aigua, semàfors, enllumenat, etc.) o elements urbans de grans dimensions (marquesines, mòduls d'aparcament de bicicletes, etc) que interfereixen en les tasques.
- Grau de dificultat associat a l'abast de l'actuació
L'execució de la unitat d'obra inclou les operacions següents:
- Comprovació de la superfície de recolzament
- Col·locació del morter d'anivellament
- Col·locació del conjunt de bastiment i tapa, agafat amb morter
CONDICIONS GENERALS:
El bastiment col·locat ha de quedar ben assentat sobre les parets de l'element que s'ha de tapar, anivellades prèviament amb morter.
Ha de quedar sòlidament travat per una anella perimetral de morter.
L'anella no ha de provocar el trencament del paviment perimetral i no ha de sortir lateralment de les parets del pou.
La tapa ha de quedar recolzada a sobre del bastiment a tot el seu perímetre. No ha de tenir moviments que puguin provocar el seu trencament per impacte o bé produir sorolls.
Un cop col·locada la tapa, el dispositiu de fixació ha de garantir que només podrà ser retirada per personal autoritzat i que no podrà tenir desplaçaments accidentals.
Les tapes practicables, han d'obrir i tancar correctament.
La part superior del bastiment i la tapa ha de quedar al mateix pla que el paviment perimetral i mantenir el seu pendent.
Toleràncies d'execució:
- Nivell entre la tapa i el paviment: ± 2 mm
- Ajust lateral entre bastiment i tapa: ± 4 mm
- Nivell entre tapa i paviment: ± 5 mm
2.- CONDICIONS DEL PROCÉS D'EXECUCIÓ
El procés de col·locació no ha de produir desperfectes, ni ha de modificar les condicions exigides per al material.
3.- UNITAT I CRITERI D'AMIDAMENT
Unitat mesurada segons les especificacions de la DT.
4.- NORMATIVA DE COMPLIMENT OBLIGATORI
* Orden de 6 de febrero de 1976 por la que se aprueba el Pliego de Prescripciones Técnicas Generales para Obras de Carreteras y Puentes (PG-3).
* Orden FOM/1382/2002 de 16 de mayo, por la que se actualizan determinados artículos del pliego de prescripciones técnicas generales para obras de carreteras y puentes relativos a la construcción de explanaciones, drenajes y cimentaciones (PG-3).
5.- CONDICIONS DE CONTROL D'EXECUCIÓ I DE L'OBRA ACABADA
CONTROL D'EXECUCIÓ. OPERACIONS DE CONTROL EN BASTIMENTS I TAPES DE FOSA:
Les tasques de control a realitzar són les següents:
- Seguiment del procés de col·locació.
CONTROL DE L'OBRA ACABADA. OPERACIONS DE CONTROL EN BASTIMENTS I TAPES DE FOSA:
Les tasques de control a realitzar són les següents:
- Inspecció de les condicions d'assentament del bastiment
- Comprovació de les toleràncies d'ajust i de nivell respecte al paviment
CRITERIS DE PRESA DE MOSTRES:
El control es realitzarà sobre totes les unitats existents a l'obra.
INTERPRETACIÓ DE RESULTATS I ACTUACIONS EN CAS D'INCOMPLIMENT:
Correcció per part del contractista de les irregularitats observades.

PD INSTAL·LACIONS D'EVACUACIÓ, CANALITZACIÓ I VENTILACIÓ ESTÀTICA

PDK PERICONS PER A CANALITZACIONS DE SERVEIS

PDK4- PERICÓ FORMIGÓ PREFABRICAT PER A INSTAL·LACIONS DE SERVEIS

0.- ELEMENTS QUE CONTEMPLA EL PLEC

PDK4-LP57.

1.- DEFINICIÓ I CONDICIONS DE LES PARTIDES D'OBRA EXECUTADES
Pericó per a registre de canalitzacions de serveis
S'han considerat els tipus següents:
- Pericó prefabricat amb tapa (si és el cas), sobre solera de formigó o llit de grava, i reblert lateral amb terres.
En actuacions de reparació, s'han considerat els graus de dificultat següents:
- Grau de dificultat associat a la mobilitat en l'actuació: - Sense dificultat de mobilitat: actuacions en què hi ha una interferència pròpia de l'entorn on es desenvolupen. - Amb dificultat de mobilitat: actuacions en entorns amb dificultat de mobilitat i/o amb el material aplegat lluny de la zona de treball: - Actuacions amb dificultat d'accessibilitat, per la poca mobilitat de la maquinària, per l'elevada presència de guals particulars i passos de vianants, per la impossibilitat d'ubicar una plataforma de treball lateral, per la impossibilitat d'ocupació de la calçada per fer l'aplec de materials que impliqui fer l'actuació per fases per tal de mantenir el pas de vianants i/o per estar en una zona amb tràfic rodat important - Actuacions en les què els materials estan aplegats lluny de la zona de treball per manca d'espai en la proximitat d'on s'executen les tasques.
- Grau de dificultat associat a l'àmbit de l'actuació en funció de l'amplària de la vorera, calçada o plataforma única
- Grau de dificultat associat a la presència d'elements externs a l'actuació: - Sense afectació per serveis o elements de mobiliari urbà: actuacions sense serveis (canalitzacions d'aigua, semàfors, enllumenat, etc.) ni elements urbans de grans dimensions (marquesines, mòduls d'aparcament de bicicletes, etc.) que interfereixin (o que puguin interferir) en les tasques - Amb afectació per serveis o elements de mobiliari urbà: actuacions amb serveis (canalitzacions d'aigua, semàfors, enllumenat, etc.) o elements urbans de grans dimensions (marquesines, mòduls d'aparcament de bicicletes, etc) que interfereixen en les tasques.
- Grau de dificultat associat a l'abast de l'actuació
L'execució de la unitat d'obra inclou les operacions següents:
Pericó prefabricat:
- Comprovació de la superfície d'assentament
- Col·locació del formigó o de la grava de la solera
- Formació de forats per a connexionat tubs
- Preparació per a la col·locació del marc de la tapa
- Acoblament dels tubs
- Reblert lateral amb terres
- Col·locació de la tapa en el seu cas
CONDICIONS GENERALS:
La solera ha de quedar plana, anivellada i a la fondària prevista a la DT.
Toleràncies d'execució:
- Nivell de la solera: ± 20 mm
PERICONS PREFABRICATS:
El pericó ha de quedar ben subjectat a la solera.
El nivell del coronament ha de permetre la col·locació del bastiment i la reixa enrasats amb el paviment o zona adjacent sense sobresortir d'ella.
El forat per al pas del tub de desguàs ha de quedar preparat.
La tapa (si és el cas) serà dissenyada per tal que pugui suportar el pas del trànsit i es prendran les mesures necessàries per tal d'evitar el seu desplaçament o el seu robatori.
Gruix de la solera: >= 10 cm
Toleràncies d'execució:
- Planor: ± 5 mm/m
- Escairat: ±5 mm respecte el rectangle teòric
2.- CONDICIONS DEL PROCÉS D'EXECUCIÓ
CONDICIONS GENERALS:
El procés de col·locació no ha de produir desperfectes, ni ha de modificar les condicions exigides per al material.
Es realitzarà una prova d'estanquitat en el cas que la DF ho consideri necessari.
PERICONS PREFABRICATS:

S'ha de treballar a una temperatura ambient que oscil·li entre els 5°C i els 40°C, sense pluja.
3.- UNITAT I CRITERI D'AMIDAMENT
Unitat mesurada segons les especificacions de la DT.
4.- NORMATIVA DE COMPLIMENT OBLIGATORI
Real Decreto 470/2021, de 29 de junio, por el que se aprueba el Código Estructural.

PG INSTAL·LACIONS ELÈCTRIQUES, DOMÓTICA, FOTOVOLTAICA I MINIEÒLICA

PG3 CABLES ELÈCTRICS PER A TENSIÓ BAIXA I SISTEMES DE DISTRIBUCIÓ ELÈCTRICA

PG33- CABLE DE COURE DE 0,6/1 KV, COL·LOCAT

0.- ELEMENTS QUE CONTEMPLA EL PLEC

PG33-E6KY.

1.- DEFINICIÓ I CONDICIONS DE LES PARTIDES D'OBRA EXECUTADES
Estesa i col·locació de cable elèctric destinat a sistemes de distribució en tensió baixa i instal·lacions en general, per a serveis fixes, amb conductor de coure, de tensió assignada 0,6/1kV.
S'han considerat els tipus següents:
- Cable flexible de designació RZ1-K (AS), amb aïllament de barreja de polietilè reticulat (XLPE) i coberta de poliolefines termoplàstiques , UNE 21123-4
- Cable flexible de designació RV-K amb aïllament de barreja de polietilè reticulat (XLPE) i coberta de barreja de policlorur de vinil (PVC), UNE 21123-2
- Cable flexible de designació RZ1-K (AS+), amb aïllament de barreja de polietilè reticulat (XLPE) + mica i coberta de poliolefines termoplàstiques , UNE 21123-4
- Cable flexible de designació SZ1-K (AS+), amb aïllament d'elastòmers vulcanitzats i coberta de poliolefines termoplàstiques , UNE 21123-4
- Cable rígid de designació RV, amb aïllament de barreja de polietilè reticulat (XLPE) i coberta de barreja de policlorur de vinil (PVC), UNE 21123-2
- Cable rígid de designació RZ, amb aïllament de barreja de polietilè reticulat (XLPE), UNE 21030
- Cable rígid de designació RVFV, amb armadura de fleix d'acer, aïllament de barreja de polietilè reticulat (XLPE) i coberta de barreja de policlorur de vinil (PVC), UNE 21123-2
- Cable flexible de designació ZZ-F (AS), amb aïllament i coberta d'elastòmers termoestables.
S'han considerat els tipus de col·locació següents:
- Col·locat superficialment
- Col·locat en tub
- Col·locat en canal o safata
- Col·locat aeri
L'execució de la unitat d'obra inclou les operacions següents:
- Estesa, col·locació i tibat del cable si es el cas
CONDICIONS GENERALS:
Els empalmaments i derivacions s'han de fer amb borns o regletes de connexió, prohibint-se expressament el fer-ho per simple recargolament o enrrotllament dels fils, de forma que es garanteixi tant la continuïtat elèctrica com la de l'aïllament.
El recorregut ha de ser l'indicat a la DT.
Els conductors han de quedar estesos de manera que les seves propietats no quedin danyades.
Els conductors han d'estar protegits contra els danys mecànics que puguin venir després de la seva instal·lació.
El conductor ha de penetrar dins les caixes de derivació, de connexió dels equips i dels mecanismos elèctrics.
Tots els materials que intervenen en la instal·lació han de ser compatibles entre si. Per aquest motiu, el muntatge i les connexions han d'estar fets amb els materials i accessoris subministrats pel fabricant, o expressament aprovats per aquest.

El cable ha de portar una identificació mitjançant anelles o brides del circuit al qual pertany, a la sortida del quadre de protecció.
No ha d'haver-hi empalmaments entre les caixes de derivació, ni entre aquestes i els mecanismes.
No s'han de transmetre esforços entre els cables i les connexions elèctriques.
Penetració del conductor dins les caixes: >= 10 cm
Toleràncies d'instal·lació:
- Penetració del conductor dins les caixes: ± 10 mm
Distància mínima al terra en creuaments de vials públics:
- Sense transit rodat: >= 4 m
- Amb transit rodat: >= 6 m
COL·LOCAT SUPERFICIALMENT:
El cable ha de quedar fixat als paraments o al sostre mitjançant brides, collarins o abraçadores de forma que no en surti perjudicada la coberta.
Quan es col·loca muntat superficialment, la seva fixació al parament ha de quedar alineada paral·lelament al sostre o al paviment i la seva posició ha de ser la fixada al projecte.
Distància horitzontal entre fixacions: <= 80cm
Distància vertical entre fixacions: <= 150cm
En cables col·locats amb grapes sobre façanes s'aprofitarà, en la mesura del possible, les possibilitats d'ocultació que ofereixi aquesta.
El cable es subjectarà a la paret o sostre amb les grapes adequades. Les grapes han de ser resistents a la intempèrie i en cap cas han de malmetre el cable. Han d'estar fermament subjectes al suport amb tacs i cargols.
Quan el cable ha de recórrer un tram sense suports, com per exemple passar d'un edifici a un altre, es penjarà d'un cable fiador d'acer galvanitzat sòlidament subjectat pels extrems.
En els creuaments amb altres canalitzacions, elèctriques o no, es deixarà una distància mínima de 3 cm entre els cables i aquestes canalitzacions o be es disposarà un aïllament suplementari. Si l'encreuament es fa practicant un pont amb el mateix cable, els punts de fixació immediats han d'estar el suficientment propers per tal d'evitar que la distància indicada pugui deixar d'existir.
COL·LOCACIÓ AÈRIA:
El cable quedarà unit als suports pel neutre fiador que es el que aguantarà tot l'esforç de tracció. En cap cas està permes fer servir un conductor de fase per a subjectar el cable.
La unió del cable amb el suport es durà a terme amb una peça adient que empresoni el neutre fiador per la seva coberta aïllant sense malmètrela. Aquesta peça ha d'incorporar un sistema de tesat per tal de donar-li al cable la seva tensió de treball un cop estesa la línia. Ha de ser d'acer galvanitzat hi no ha de provocar cap retorciment al conductor neutre fiador en les operacions de tesat.
Tant les derivacions com els empalmaments es faran coincidir sempre amb un punt de fixació, ja sigui en xarxes sobre suports o en xarxes sobre façanes o be en combinacions d'aquestes.
COL·LOCAT EN TUBS:
Quan el cable passi de subterrani a aèri, es protegirà el cable soterrat des de 0,5 m per sota del paviment fins a 2,5 m per sobre amb un tub d'acer galvanitzat.
La connexió entre el cable soterrat i el que transcorre per la façana o suport es farà dintre d'una caixa de doble aïllament, situada a l'extrem del tub d'acer, resistent a la intempèrie i amb premsaestopes per a l'entrada i sortida de cables.
Els empalmaments i connexions es faran a l'interior de pericons o be en les caixes dels mecanismes.
Es duran a terme de manera que quedi garantida la continuitat tant elèctrica com de l'aïllament.
A la vegada ha de quedar assegurada la seva estanquitat i resistència a la corrossió.
El diàmetre interior dels tubs serà superior a dues vegades el diàmetre del conductor.
Si en un mateix tub hi ha més d'un cable, aleshores el diàmetre del tub ha de ser suficientment gran per evitar embussaments dels cables.
2.- CONDICIONS DEL PROCÉS D'EXECUCIÓ
CONDICIONS GENERALS:
L'instal·lador prendrà cura que no pateixi torsions ni danys a la seva coberta en treure'l de la bobina.
Es tindrà cura al treure el cable de la bobina per tal de no causar-li retorçaments ni coques.
Temperatura del conductor durant la seva instal·lació: >= 0°C
No ha de tenir contacte amb superfícies calentes, ni que desprenguin irradiacions.
Si l'estesa del cable es amb tensió, es a dir estirant per un extrem del cable mentre es va desentrrotllant de la bobina, es disposaran politges als suports i en els canvis de

direcció per tal de no sobrepassar la tensió màxima admissible pel cable. El cable s'ha d'extreure de la bobina estirant per la part superior. Durant l'operació es vigilarà permanentment la tensió del cable.
Un cop el cable a dalt dels suports es procedirà a la fixació i tibat amb els tensors que incorporen les peces de suport.
Durant l'estesa del cable i sempre que es prevegin interrupcions de l'obra, els extrems es protegiran per tal de que no hi entri aigua.
La força màxima de tracció durant el procés d'instal·lació serà tal que no provoqui allargaments superiors al 0,2%. Per a cables amb conductor de coure, la tensió màxima admissible durant l'estesa serà de 50 N/mm2.
En el traçat de l'estesa del cable es disposaran rodets en els canvis de direcció i en general allí on es consideri necessari per tal de no provocar tensions massa grans al conductor.
Radi de curvatura mínim admissible durant l'estesa:
- Cables unipolars: Radi mínim de quinze vegades el diàmetre del cable.
- Cables multiconductors: Radi mínim de dotze vegades el diàmetre del cable.
CABLE COL.LOCAT EN TUB:
El tub de protecció ha d'estar instal·lat abans d'introduir els conductors.
El conductor s'ha d'introduir dins el tub de protecció mitjançant un cable guia prenent cura que no pateixi torsions ni danys a la seva coberta.
3.- UNITAT I CRITERI D'AMIDAMENT
m de llargària instal·lada, amidada segons les especificacions del projecte, entre els eixos dels elements per connectar.
Aquest criteri inclou les pèrdues de material corresponents a retalls, així com l'excés previst per a les connexions.
4.- NORMATIVA DE COMPLIMENT OBLIGATORI
Real Decreto 842/2002 de 2 de agosto, por el que se aprueba el Reglamento Electrotécnico de Baja Tensión. REBT 2002.
5.- CONDICIONS DE CONTROL D'EXECUCIÓ I DE L'OBRA ACABADA
CONTROL D'EXECUCIÓ. OPERACIONS DE CONTROL:
Les tasques de control a realitzar són les següents:
- Comprovació de la correcta instal·lació dels conductors
- Verificar que els tipus i seccions dels conductors s'adeqüen a l'especificat al projecte
- Verificar la no existència d'empalmaments fora de les caixes
- Verificar a caixes la correcta execució dels empalmaments i l'ús de borns de connexió adequats
- Verificar l'ús adequat dels codis de colors
- Verificar les distàncies de seguretat respecte altres conduccions (aigua, gas, gasos cremats i senyals febles) segons cadascun dels reglaments d'aplicació.
- Assaigs segons REBT.
CONTROL DE L'OBRA ACABADA. OPERACIONS DE CONTROL:
Les tasques de control a realitzar són les següents:
- Realització i emissió d'informe amb resultats dels controls i assaigs realitzats, d'acord amb el que s'especifica a la taula d'assaigs i de quantificació dels mateixos.
CRITERIS DE PRESA DE MOSTRES:
Resistència d'aïllament: Es realitzarà a tots els circuits
Rigidesa dielèctrica: Es realitzarà a les línies principals
Caiguda de tensió: Es mesuraran els circuits més desfavorables i les línies que hagin sigut modificades el seu recorregut respecte projecte.
INTERPRETACIÓ DE RESULTATS I ACTUACIONS EN CAS D'INCOMPLIMENT:
En cas d'incompliment de la Normativa vigent, es procedirà a la seva substitució.
En cas de deficiències de material o execució, es procedirà d'acord amb el que determini la DF.

PH INSTAL·LACIONS D'ENLLUMENAT

PHM ELEMENTS DE SUPORT PER A LLUMS EXTERIORS

PHM2- COLUMNA, COL·LOCADA

0.- ELEMENTS QUE CONTEMPLA EL PLEC

PHM2-DBEW.

1.- DEFINICIÓ I CONDICIONS DE LES PARTIDES D'OBRA EXECUTADES
Suports metàl·lics per a llums exteriors, col·locats ancorats al paviment i els seus components acoblats a aquests.
S'han considerat els elements següents:
- Columnes d'acer galvanitzat de forma recta o troncocónica, ancorades amb un dau de formigó
L'execució de la unitat d'obra inclou les operacions següents:
Suports verticals, ancorats al paviment:
- Formigonament del dau de base, amb les perns d'ancoratge
- L'hissat, fixació i anivellament
- Connexionat a la xarxa
CONDICIONS GENERALS:
La posició ha de ser la reflectida a la DT o, en el seu defecte, la indicada per la DF.
SUPORTS VERTICALS:
S'ha d'instal·lar en posició vertical.
Ha de quedar fixada sòlidament a la base de formigó pels seus perns.
La fixació de la platina de base als perns s'ha de fer mitjançant volanderes, femelles i contrafemelles.
La situació de la porta del compartiment per a accessoris ha de ser la recomenada per l'UNE 72-402.
Ha de quedar connectat al conductor de terra mitjançant la pressió de terminal, cargol i femelles.
Toleràncies d'execució:
- Verticalitat: ± 10 mm/3 m
- Posició: ± 50 mm
2.- CONDICIONS DEL PROCÉS D'EXECUCIÓ
CONDICIONS GENERALS:
La instal·lació elèctrica s'ha de fer sense tensió a la línia.
SUPORTS VERTICALS:
S'ha d'utilitzar un camió-grua per descarregar i manipular el pal durant la seva fixació.
Durant el muntatge s'ha de deixar lliure i acotada una zona de radi igual a l'alçària del pal més 5 m.
Cal que la zona de treball quedi degudament senyalitzada amb una tanca i llums vermells durant la nit.
3.- UNITAT I CRITERI D'AMIDAMENT
Unitat de quantitat instal·lada, mesurada segons les especificacions de la DT.
4.- NORMATIVA DE COMPLIMENT OBLIGATORI
NORMATIVA GENERAL:
Real Decreto 842/2002 de 2 de agosto, por el que se aprueba el Reglamento Electrotécnico de Baja Tensión. REBT 2002.
SUPORTS VERTICALS:
UNE-EN 40-2:2006 Columnas y báculos de alumbrado. Parte 2: Requisitos generales y dimensiones.
UNE-EN 40-5:2003 Columnas y báculos de alumbrado. Parte 5: Requisitos para las columnas y báculos de alumbrado de acero.

PH INSTAL·LACIONS D'ENLLUMENAT

PHN LLUMS PER A EXTERIORS

PHN8- LLUM ASIMÈTRIC PER A EXTERIORS, AMB LÀMPADES DE VAPOR DE SODI A PRESSIÓ BAIXA, COL·LOCAT

0.- ELEMENTS QUE CONTEMPLA EL PLEC

PHN8-E7Y6.

1.- DEFINICIÓ I CONDICIONS DE LES PARTIDES D'OBRA EXECUTADES
Llum per a exteriors, col·locat acoblat al suport o encastat.
S'han considerat les unitats d'obra següents:
- Llum asimètric per a vials, amb difusor, amb allotjament per a equip o sense, per làmpada de vapor de sodi, acoblat al suport.
L'execució de la unitat d'obra inclou les operacions següents:
- Replanteig de la unitat d'obra
- Muntatge, fixació i anivellament
- Connexionat i col·locació de les làmpades
- Comprovació del funcionament
- Retirada de l'obra de les restes d'embalatges, retalls de tubs, cables, etc.
CONDICIONS GENERALS:
La posició ha de ser la reflectida a la DT o, en el seu defecte, la indicada per la DF.
Tots els materials que intervenen en la instal·lació han de ser compatibles entre si. Per aquest motiu, el muntatge i les connexions dels aparells han d'estar fets amb els materials i accessoris subministrats pel fabricant, o expressament aprovats per aquest.
Ha de quedar fixat sòlidament al suport, amb el sistema de fixació disposat pel fabricant.
Ha d'estar connectada a la xarxa d'alimentació elèctrica i a la línia de terra.
Cap part accessible de l'element instal·lat no ha d'estar en tensió, fora dels punts de connexió.
No s'han de transmetre esforços entre els elements de la instal·lació elèctrica (tubs i cables) i la lluminària.
Els cables han d'entrar al cos de la lluminària pels punts previstos pel fabricant.
La làmpada ha de quedar allotjada al portalàmpades i fent contacte amb aquest.
Un cop instal·lat ha de ser possible el desmuntatge de les parts del llum que necessitin manteniment.
2.- CONDICIONS DEL PROCÉS D'EXECUCIÓ
CONDICIONS GENERALS:
La instal·lació elèctrica s'ha de fer sense tensió a la línia.
Es tindrà cura de no embrutar el difusor ni els components de la òptica durant la col·locació del llum. Si s'embruten es netejaran adequadament.
La col·locació i connexionat de la lluminària s'han de fer seguint les instruccions del fabricant.
Abans de començar els treballs de muntatge, s'ha de fer un replanteig que ha de ser aprovat per la DF.
S'ha de comprovar que les característiques tècniques de l'aparell corresponguin a les especificades al projecte.
Tots els elements s'han d'inspeccionar abans de la seva col·locació.
La seva instal·lació no ha d'alterar les característiques de l'element.
Cal comprovar la idoneïtat de la tensió disponible amb la de l'equip de la lluminària.
Un cop instal·lat l'equip, es procedirà a la retirada de l'obra de tots els materials sobrants com ara embalatges, retalls de tubs, cables, etc.
3.- UNITAT I CRITERI D'AMIDAMENT
Unitat de quantitat instal·lada, mesurada segons les especificacions de la DT.
La instal·lació inclou la làmpada i el cablejat interior del llum.
En les instal·lacions que ho especifica, també inclou l'equip complert d'encesa.
4.- NORMATIVA DE COMPLIMENT OBLIGATORI
NORMATIVA GENERAL:
Real Decreto 842/2002 de 2 de agosto, por el que se aprueba el Reglamento Electrotécnico de Baja Tensión. REBT 2002.
UNE-EN 60598-1:2009 Luminarias. Parte 1: Requisitos generales y ensayos.

UNE-EN 60598-2-3:2003 Luminarias. Parte 2-3: Requisitos particulares. Luminarias para alumbrado público.
UNE-EN 60238:2006 Portalámparas con rosca Edison.
LLUMS D'INSTAL·LACIONS D'ENLLUMENAT EXTERIOR SUPERIORS A 1 kW
Real Decreto 1890/2008, de 14 de noviembre, por el que se aprueba el Reglamento de eficiencia energética en instalaciones de alumbrado exterior y sus Instrucciones técnicas complementarias EA-01 a EA-07.
LLUMS AMB LÀMPADES DE VAPOR DE SODI DE PRESSIÓ BAIXA:
* UNE-EN 60192:2004 Lámparas de vapor de sodio a baja presión. Requisitos de funcionamiento.
5.- CONDICIONS DE CONTROL D'EXECUCIÓ I DE L'OBRA ACABADA
CONTROL D'EXECUCIÓ. OPERACIONS DE CONTROL:
Les tasques de control a realitzar són les següents:
- Comprovació de la correcta instal·lació de les lluminàries.
- Control visual de la instal·lació (linealitat, suports).
- Verificar el funcionament de l'enllumenat, comprovant la correcta distribució de les enceses i l'equilibrat de fases, si és el cas.
- Mesurar nivells d'il·luminació
CONTROL DE L'OBRA ACABADA. OPERACIONS DE CONTROL:
Les tasques de control a realitzar són les següents:
- Realització i emissió d'informe amb resultats dels controls i mesures realitzades.
CRITERIS DE PRESA DE MOSTRES:
Es realitzarà el control visual i es verificarà el funcionament de tota la instal·lació.
Es comprovarà l'equilibrat de fases, si és el cas, de forma aleatòria en punts amb diferents distribució.
Es mesuraran els nivells d'il·luminació en cada local de característiques diferents.
INTERPRETACIÓ DE RESULTATS I ACTUACIONS EN CAS D'INCOMPLIMENT:
En cas d'incompliment de la Normativa vigent, es procedirà a la seva adequació.
En cas de deficiències de material o execució, es procedirà d'acord amb el que determini la DF.

Tortosa, a data de la signatura digital



Àngel Mulet Baubí
Enginyer de Camins, Canals i Ports
Col·legiat núm.: 31.205
Alter Enginyeria Aplicada, SLP

DOCUMENT 4 – PRESSUPOST

QUADRE DE PREUS NÚMERO 1

QUADRE DE PREUS NÚMERO 1

NÚMERO	CODI	UA	DESCRIPCIÓ	PREU
P-1	IEI040	U	Xarxa elèctrica de distribució interior per a pavelló de 1000 m², composta de: quadre general de comandament i protecció; circuits interiors amb cablejat en safates perforades de PVC rígid: 1 circuit per enllumenat, 1 circuit per preses de corrent; mecanismes gamma bàsica (tecla o tapa i marc: blanc; embellidor: blanc). (TRES MIL DOS-CENTS VINT-I-TRES EUROS AMB NORANTA-VUIT CÈNTIMS)	3.223,98 €
P-2	III075	U	Campana LED per a indústria, no regulable, de 278 mm de diàmetre i 162 mm d'altura, de 100 W, alimentació a 220/240 V i 50-60 Hz, amb llum LED SMD, temperatura de color 4000 K, cos d'alumini extrudit de color negre, feix de llum extensiu 120° i difusor de policarbonat, índex d'enlluernament unificat menor de 19, índex de reproducció cromàtica major de 80, flux lluminós 12900 lúmens, grau de protecció IP65, amb cadena d'acer de 1,5 m de longitud. Instal·lació suspesa. Inclou: Replanteig. Muntatge, connexionat i comprovació del seu correcte funcionament. Criteri d'amidament de projecte: Nombre d'unitats previstes, segons documentació gràfica de Projecte. Criteri de mesura d'obra: Es mesurarà el nombre d'unitats realment executades segons especificacions de Projecte. (DOS-CENTS DISSET EUROS AMB VUITANTA-TRES CÈNTIMS)	217,83 €
P-3	LGA020	U	Porta metàl·lica de xapa ondulada d'acer galvanitzat, de fulla corredissa, dimensions 450x300 cm, perfils rectangulars en cèrcol sòcol inferior realitzat amb xapa grecada de 1,2 mm d'espessor a dues cares, per a accés de vehicles i amb porta per a vianants integrada de 100x210cm. Obertura manual. Inclús pòrtic lateral de sustentació i topall de tancament, col·locació i fixació dels perfils guia inferior amb UPN 100 i quadrat massís de 25x25 mm asseguts amb formigó HM-25/B/20/X0 i rebuts a obra; rodes per lliscament, amb coixinet de greixatge permanent, elements d'ancoratge, ferramentes de seguretat, tancament amb doble pany i accessoris. (TRES MIL CENT TRENTA EUROS AMB VUITANTA-SET CÈNTIMS)	3.130,87 €
P-4	P060-020H	u	Mostreig, realització del con d'Abrams, elaboració de provetes, cura i determinació de la resistència a tracció per flexió de 3 provetes de formigó amb fibres, segons la norma UNE-EN 14651 (TRES-CENTS QUATRE EUROS AMB SETANTA-VUIT CÈNTIMS)	304,78 €
P-5	P0B2-00PJ	u	Determinació de les característiques mecàniques: resistència a la tracció, límit elàstic, allargament de ruptura i doblegament-desdoblegament d'una proveta d'acer amb característiques especials de ductilitat per a armar formigons, segons la norma UNE 36065 (SEIXANTA-TRES EUROS AMB QUARANTA-UN CÈNTIMS)	63,41 €
P-6	P0B3-00OE	u	Determinació de la composició química i de les característiques mecàniques d'una proveta d'acer no aliat laminat en calent, segons la norma UNE-EN 10025-2 (CENT NORANTA-DOS EUROS AMB VUITANTA-DOS CÈNTIMS)	192,82 €
P-7	P2146-DJ2J	m2	Demolició de paviment de formigó de fins a 20 cm de gruix, d'amplària més de 2 m amb retroexcavadora amb martell trencador i càrrega sobre camió amb mitjans mecànics (CINC EUROS AMB SIS CÈNTIMS)	5,06 €
P-8	P2146-DJ4I	m2	Demolició de paviment de panots col·locats sobre base de formigó de fins a 20 cm de gruix, inclòs la demolició de la base, d'amplària fins a 2 m amb retroexcavadora amb martell trencador i càrrega sobre camió amb mitjans mecànics (SIS EUROS AMB TRES CÈNTIMS)	6,03 €
P-9	P2147-DJ5U	m	Demolició de rigola de formigó, inclòs la base, amb compressor i càrrega mecànica sobre camió (QUATRE EUROS AMB CINQUANTA-SIS CÈNTIMS)	4,56 €
P-10	P2148-49L9	m	Demolició de vorada, inclòs la base, col·locada sobre formigó, amb martell trencador muntat sobre retroexcavadora i càrrega manual i mecànica de runa sobre camió o contenidor (TRES EUROS AMB CINQUANTA-VUIT CÈNTIMS)	3,58 €

QUADRE DE PREUS NÚMERO 1

NÚMERO	CODI	UA	DESCRIPCIÓ	PREU
P-11	P214W-FEMM	m	Tall en paviment de formigó de 15 cm de fondària com a mínim amb màquina tallajunts amb disc de diamant per a paviment, per a delimitar la zona a demolir (SET EUROS AMB VINT-I-TRES CÈNTIMS)	7,23 €
P-12	P21DH-8GX9	u	Desmuntatge de columna exterior, accessoris i elements de subjecció, de fins a 6 m d'alçària, com a màxim, enderroc de fonament de formigó a mà i amb compressor, aplec per a posterior aprofitament i càrrega manual de runa sobre camió o contenidor (VUITANTA-TRES EUROS AMB DIVUIT CÈNTIMS)	83,18 €
P-13	P21DH-8GXF	u	Desmuntatge de llumenera, columna exterior, accessoris i elements de subjecció, de < 12 m d'alçària, com a màxim, enderroc de fonament de formigó a mà i amb martell trencador sobre retroexcavadora, aplec per a posterior aprofitament i càrrega manual i mecànica de runa sobre camió o contenidor (CENT QUARANTA-TRES EUROS AMB SEIXANTA-TRES CÈNTIMS)	143,63 €
P-14	P21DH-8GXH	u	Desmuntatge de llumenera, accessoris i elements de subjecció, de < 12 m d'alçària, com a màxim, aplec per a posterior aprofitament (TRENTA EUROS AMB QUARANTA-CINC CÈNTIMS)	30,45 €
P-15	P21Q0-H8EJ	u	Desmuntatge d'element d'equipament fix esportiu, de 500 kg de pes com a màxim i d'una alçària de 5 m com a màxim, amb mitjans manuals i mecànics, aplec de materials per a la seva reutilització i reposició de paviment (VUITANTA-SIS EUROS AMB SETZE CÈNTIMS)	86,16 €
P-16	P221B-EL71	m3	Excavació de rasa i pou de fins a 2 m de fondària, en terreny compacte (SPT 20-50), realitzada amb retroexcavadora de combustible i càrrega mecànica sobre camió (SET EUROS AMB CINQUANTA-NOU CÈNTIMS)	7,59 €
P-17	P2255-DPIK	m3	Rebliment i piconatge de rasa d'amplària més de 0,6 i fins a 1,5 m, amb el 50% de sorra i el 50% de terra de la pròpia excavació, en tongades de gruix de fins a 25 cm, utilitzant picó vibrant de combustible, amb compactació del 95% PM (TRENTA EUROS AMB VUITANTA-DOS CÈNTIMS)	30,82 €
P-18	P2R6-4I5G	m3	Càrrega amb mitjans mecànics i transport de residus inerts o no especials a instal·lació autoritzada de gestió de residus, amb camió per a transport de 12 t, amb un recorregut de més de 10 i fins a 15 km (DEU EUROS AMB SEIXANTA-QUATRE CÈNTIMS)	10,64 €
P-19	P2RA-EU2R	m3	Disposició controlada en dipòsit autoritzat inclòs el cànon sobre la deposició controlada dels residus de la construcció, segons la LLEI 8/2008, de residus de formigó inerts amb una densitat 1,45 t/m3, procedents de construcció o demolició, amb codi 17 01 01 segons la Llista Europea de Residus (QUINZE EUROS AMB CINQUANTA-SET CÈNTIMS)	15,57 €
P-20	P2RA-EU2T	m3	Disposició controlada en dipòsit autoritzat inclòs el cànon sobre la deposició controlada dels residus de la construcció, segons la LLEI 8/2008, de residus de terra inerts amb una densitat 1,6 t/m3, procedents d'excavació, amb codi 17 05 04 segons la Llista Europea de Residus (NOU EUROS AMB VUIT CÈNTIMS)	9,08 €
P-21	P3F0-D53Z	kg	Armadura per a enceps AP500 S en barres de diàmetre fins a 20 mm, d'acer en barres corrugades B500S de límit elàstic >= 500 N/mm2 (UN EUROS AMB SEIXANTA-VUIT CÈNTIMS)	1,68 €
P-22	P3F2-JH8K	m3	Formigonament per a enceps, amb formigó per armarHA - 25 / P / 20 / IIa amb una quantitat de ciment de 275 kg/m3 i relació aigua ciment =< 0.6, abocat amb bomba en obres d'enginyeria civil (CENT VUIT EUROS AMB SEIXANTA-DOS CÈNTIMS)	108,62 €

QUADRE DE PREUS NÚMERO 1

NÚMERO	CODI	UA	DESCRIPCIÓ	PREU
P-23	P3Z3-D52S	m2	Capa de neteja i anivellament 10 cm de gruix amb formigó de neteja, amb una dosificació de 150 kg/m3 de ciment, consistència tova i grandària màxima del granulat 20 mm, HL-150/B/20, abocat des de camió (DEU EUROS AMB VUIT CÈNTIMS)	10,08 €
P-24	P446-DM8A	kg	Acer S275JR segons UNE-EN 10025-2, per a elements d'ancoratge formats per peça composta, en perfils laminats en calent sèrie L, LD, T, rodó, quadrat, rectangular i planxa, treballat a taller i galvanitzat, col·locat a l'obra amb cargols (TRES EUROS AMB SEIXANTA-TRES CÈNTIMS)	3,63 €
P-25	P44C-DP13	kg	Acer S275JR segons UNE-EN 10025-2, per a pilars formats per peça simple, en perfils tubulars o laminats en calent sèrie IPN, IPE, HEB, HEA, HEM i UPN, treballat a taller i amb una capa d'imprimació antioxidant, col·locat a l'obra amb soldadura (DOS EUROS AMB CINC CÈNTIMS)	2,05 €
P-26	P542-8ZZV	m2	Coberta amb perfil nervat de planxa d'acer per a cobertes galvanitzada i lacada, amb 4 nervis separats entre 260 i 275 mm i una alçària entre 30 i 35 mm, de 0,6 mm de gruix, amb una inèrcia entre 8 i 9 cm4 i una massa superficial entre 5 i 6 kg/m2, acabat llis de color estàndard, col·locat amb fixacions mecàniques. Inclou part proporcional de vora perimetral per a coberta inclinada, amb xapa plegada d'acer galvanitzat, de 0,6,0 mm d'espessor, 40 cm de desenvolupament i 3 plecs i canaló per a coberta inclinada, amb xapa plegada d'acer galvanitzat prelacat, de 1,0 mm d'espessor, 70 cm de desenvolupament i 4 plecs. Inclús accessoris de fixació de les peces a les plaques, massilla de base neutra monocomponent per closa de juntes i connexió a les baixants. (CATORZE EUROS AMB VINT CÈNTIMS)	14,20 €
P-27	P5Z50-A8I1	m2	Subministrament i muntatge d'estructura galvanitza en calent d'acer S235, composta d'una retícula espacial de barres tubulars (de Ø40x3 mm a Ø60x3 mm) connectades entre elles mitjançant unions caragolades a nusos de 8 eixos amb xapes de gruix 6mm, 5mm i 4mm solapades parcialment entre elles, segons disseny comunitari ÉS 1095330 O, O 201300974 i ÉS 1095305 O, O 201300985, formant mòduls de 1,3 metros, connectada a pilars mitjançant caragols de M27 qualitat 8.8, per a cobrir llums superiors a 10 m. Tota fabricada, subministrada i instal·lada sota la norma UNE 1090. (QUARANTA EUROS AMB NOU CÈNTIMS)	40,09 €
P-28	P641-423N	m	Clos de d'estructura de característiques similars al pavelló del Temple, format per panells de xapa ondulada d'acer galvanitzat de 1mm d'espesor, amb bastidor electrosoldat i pals de perfil buit d'acer galvanitzat, de secció quadrada 60x60x2 mm i d'entre 3m i 3,3m d'altura, platina de 150x150x10mm amb ancoratge mecànic per expansió M10x160 sobre paviment de formigó. Inclús accessoris per a la fixació d'els panells d'acer als pals metàl·lics. (NORANTA-UN EUROS AMB QUARANTA-DOS CÈNTIMS)	91,42 €
P-29	P930-11ABR	m3	Base per a paviment de formigó d'ús no estructural HNE-15/B/20 de resistència a compressió 15 N/mm2, consistència tova i grandària màxima del granulat 20 mm, abocat des de camió amb estesa i piconatge manual, acabat reglejat (NORANTA-SET EUROS AMB TRES CÈNTIMS)	97,03 €
P-30	P931-10RJI	m3	Base de formigó de formigó en massa HM - 20 / B / 20 / X0 amb una quantitat de ciment de 200 kg/m3 i relació aigua ciment =< 0.6, abocat des de camió amb estesa i vibratge manual, amb acabat reglejat (CENT ONZE EUROS AMB QUARANTA-TRES CÈNTIMS)	111,43 €
P-31	P967-E9W9	m	Peça recta de formigó per a vorades, monocapa, amb secció normalitzada per a vianants A4 20x8 cm, segons UNE 127340, de classe climàtica B, classe resistent a l'abrasió H i classe resistent a flexió S (R-3,5 MPa) segons UNE-EN 1340, col·locada sobre base de formigó no estructural HNE-15/P/40 de 10 a 20 cm d'alçària, i rejuntat amb morter per a ram de paleta (VINT-I-QUATRE EUROS AMB DINOU CÈNTIMS)	24,19 €

QUADRE DE PREUS NÚMERO 1

NÚMERO	CODI	UA	DESCRIPCIÓ	PREU	
P-32	P976-HH1K	m	Rigola de 30 cm d'amplària de peça prefabricada de formigó per a cuneta de 30x12 cm amb canal en V a la cara superior, col·locades amb morter i rejuntades amb beurada de ciment (TRENTA EUROS AMB CINQUANTA-SET CÈNTIMS)	30,57	€
P-33	P9E1-V6R2	m2	Paviment de panot per a vorera de color de 20x20x4 cm, classe 1a, preu alt, sobre suport de 3 cm de morter amb additius, col·locat a truc de maceta amb morter mixt 1:2:10 i beurada de color amb ciment blanc de ram de paleta (QUARANTA-QUATRE EUROS AMB CINQUANTA-TRES CÈNTIMS)	44,53	€
P-34	P9GG-4Y5D	m3	Paviment de formigó per a paviments HF-3,5 MPa de resistència a flexotracció i consistència plàstica, sense additius, escampat des de camió, estesa i vibratge mecànic i acabat ratllat manual (CENT VUIT EUROS AMB SEIXANTA-DOS CÈNTIMS)	108,62	€
P-35	P9GG-4YTA	m3	Paviment de formigó per a paviments HF-3,5 MPa de resistència a flexotracció i consistència plàstica, sense additius, escampat des de camió, estesa i vibratge mecànic i acabat remolinat mecànic (CENT NOU EUROS AMB SET CÈNTIMS)	109,07	€
P-36	PA_FONES01	u	Partida per a la col·locació d'estructura tubular sobre pilars amb mitjans mecànics (TRES MIL QUATRE-CENTS SET EUROS AMB CINQUANTA-DOS CÈNTIMS)	3.407,52	€
P-37	PA_SIS01	pa	Seguretat i Salut, a partir del pressupost de l'Estudi de Seguretat i Salut. (MIL EUROS)	1.000,00	€
P-38	PD16-HAWZ	m	Baixant de tub de xapa de zinc-titani amb unió longitudinal plegada, de diàmetre nominal 120 mm i de 0,6 mm de gruix, incloses les peces especials i fixat mecànicament amb brides (TRENTA-QUATRE EUROS AMB CINQUANTA-VUIT CÈNTIMS)	34,58	€
P-39	PDG4-M98D	m	Canalització amb dos tubs de PVC corrugat de diàmetre nominal DN80 i dau de recobriment de 40x30 cm amb formigó d'ús no estructural HNE-20/P/20 de resistència a compressió 20 N/mm2, consistència plàstica i grandària màxima del granulat 20 mm, fil guia a cada tub, part proporcional d'accessoris d'unió, separadors i obturadors, amb picó vibrant de combustible (SETZE EUROS AMB DOTZE CÈNTIMS)	16,12	€
P-40	PDK1-DX9W	u	Bastiment quadrat i tapa quadrat de fosa dúctil per a pericó de serveis, recolzada, pas lliure de 420x420 mm i classe B125 segons norma UNE-EN 124, col·locada amb morter per a ram de paleta (SEIXANTA EUROS AMB NORANTA-DOS CÈNTIMS)	60,92	€
P-41	PDK4-LP57	u	Pericó de registre de formigó prefabricat sense fons de 40x40x45 cm, per a instal·lacions de serveis, col·locat sobre solera de formigó formigó d'ús no estructural HNE-20/B/40 de resistència a compressió 20 N/mm2, consistència tova i grandària màxima del granulat 40 mm de 15 cm de gruix i reblert lateral amb terra de la mateixa excavació (SEIXANTA-DOS EUROS AMB CINQUANTA-NOU CÈNTIMS)	62,59	€
P-42	PG33-E6KY	m	Cable amb conductor de coure de tensió assignada0,6/1 kV, de designació RV-K, construcció segons norma UNE 21123-2, tetrapolar, de secció 4x6 mm2, amb coberta del cable de PVC, classe de reacció al foc Eca segons la norma UNE-EN 50575, col·locat en tub (CINC EUROS AMB QUARANTA-VUIT CÈNTIMS)	5,48	€
P-43	PHM2-DBEW	u	Recol·locació de farola existent de secció circular de fins a 6 m d'alçària, placa d'ancoratge quadrada de 400x400 mm i 10 mm de gruix amb 4 cartel·les de reforç i 4 forats colissos per a perns M22, amb anella de reforç en la base de 350 mm d'alçària i 4 mm de gruix, fixat mecànicament als perns de la fonamentació, inclòs: - excavació de pou aïllat de fins a 2 m de fondària, en terreny no classificat, amb mitjans mecànics, de .8 x 0.8 x 1 m (amplària x llargària x fondària) - fonamentació de formigó en massa HM - 20 / B / 20 / X0 amb una quantitat de ciment de 200 kg/m3 i relació aigua ciment =< 0.6, de .8 x 0.8 x (amplària x llargària x alçària) - de tub corbable corrugat de polietilè, de doble capa, llisa la interior i corrugada l'exterior, de	458,32	€

QUADRE DE PREUS NÚMERO 1

NÚMERO	CODI	UA	DESCRIPCIÓ	PREU	
			90 mm de diàmetre nominal, aïllant i no propagador de la flama, resistència a l'impacte de 20 J, resistència a compressió de 450 N, muntat com a canalització soterrada - tub flexible corrugat de PVC, de 32 mm de diàmetre nominal, aïllant i no propagador de la flama, resistència a l'impacte d'1 J, resistència a compressió de 320 N i una rigidesa dielèctrica de 2000 V, muntat encastat - conductor de coure nu, unipolar de secció 1x35 mm2, muntat superficialment - placa de connexió a terra d'acer, quadrada (massissa), de superfície 0,3 m2, de 3 mm de gruix i soterrada - cable amb conductor de coure de tensió assignada0,6/1 kV, de designació RV-K, construcció segons norma UNE 21123-2, tripolar, de secció 3x2,5 mm2, amb coberta del cable de PVC, classe de reacció al foc Eca segons la norma UNE-EN 50575 (QUATRE-CENTS CINQUANTA-VUIT EUROS AMB TRENTA-DOS CÈNTIMS)		
P-44	PHN8-E7Y6	u	Reorientació de llumenera existent per a vials, acoblada al bàcul (TRENTA-TRES EUROS AMB VUITANTA-DOS CÈNTIMS)	33,82	€
P-45	PR67-8ZSN	u	Trasplantament dins de l'obra d'arbre fins a 3.5 m d'alçària de tronc, inclou repicat amb retroexcavadora i mitjans manuals, formació de pa de terra amb mitjans manuals, excavació de clot de plantació de 120x120x60 cm amb retroexcavadora, plantació amb camió grua en el nou lloc d'ubicació, reblert del clot amb 50% de sorra, 25% de terra de l'excavació i 25% de compost, primer reg i càrrega de les terres sobrants a camió. (TRES-CENTS DISSET EUROS AMB NORANTA-CINC CÈNTIMS)	317,95	€

L´autor del projecte,

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Enginyer de camins, canals i ports
Col·legiat núm. 31.205
Alter Enginyeria Aplicada, SLP

QUADRE DE PREUS NÚMERO 2

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NÚMERO	CODI	UA	DESCRIPCIÓ		PREU
P-1	IEI040	U	Xarxa elèctrica de distribució interior per a pavelló de 1000 m², composta de: quadre general de comandament i protecció; circuits interiors amb cablejat en safates perforades de PVC rígid: 1 circuit per enllumenat, 1 circuit per preses de corrent; mecanismes gamma bàsica (tecla o tapa i marc: blanc; embellidor: blanc).	**3.223,98**	€
			Sense descomposició	3.223,98000	€
P-2	III075	U	Campana LED per a indústria, no regulable, de 278 mm de diàmetre i 162 mm d'altura, de 100 W, alimentació a 220/240 V i 50-60 Hz, amb llum LED SMD, temperatura de color 4000 K, cos d'alumini extrudit de color negre, feix de llum extensiu 120° i difusor de policarbonat, índex d'enllluernament unificat menor de 19, índex de reproducció cromàtica major de 80, flux lluminós 12900 lúmens, grau de protecció IP65, amb cadena d'acer de 1,5 m de longitud. Instal·lació suspesa. Inclou: Replanteig. Muntatge, connexionat i comprovació del seu correcte funcionament. Criteri d'amidament de projecte: Nombre d'unitats previstes, segons documentació gràfica de Projecte. Criteri de mesura d'obra: Es mesurarà el nombre d'unitats realment executades segons especificacions de Projecte.	**217,83**	€
	MT34CLG011	U	Cadena d'acer de 1,5 m de longitud, per a instal·lació suspesa de campana LED.	9,60000	€
	MT34CLG010	U	Campana tipus INDU BAY GEN4 1 (o similar) 364 LEDs 18mA NW840 Integrated lenses 7095 E99342 i 59W de potència	189,13000	€
			Altres conceptes	19,10000	€
P-3	LGA020	U	Porta metàl·lica de xapa ondulada d'acer galvanitzat, de fulla corredissa, dimensions 450x300 cm, perfils rectangulars en cèrcol sòcol inferior realitzat amb xapa grecada de 1,2 mm d'espessor a dues cares, per a accés de vehicles i amb porta per a vianants integrada de 100x210cm. Obertura manual. Inclús pòrtic lateral de sustentació i topall de tancament, col·locació i fixació dels perfils guia inferior amb UPN 100 i quadrat massís de 25x25 mm asseguts amb formigó HM-25/B/20/X0 i rebuts a obra; rodes per lliscament, amb coixinet de greixatge permanent, elements d'ancoratge, ferramentes de seguretat, tancament amb doble pany i accessoris.	**3.130,87**	€
	MT26PGC010	U	Porta corredissa metàl·lica en tanca exterior per accés de vehicles i amb porta integrada per a vianants de 100x210cm, fulla corredissa de 450x300 cm, de xapa ondulada d'acer galvanitzat, amb pòrtic lateral de sustentació i topall de tancament, guia inferior amb UPN 100 i quadrat massís de 25x25 mm, rodes de lliscament de 20 mm amb rodament de greixatge permanent, elements d'ancoratge, ferraments de seguretat, tancament i doble pany, acabat amb emprimació antioxidant i accessoris. Segons UNE-EN 13241.	2.686,78000	€
			Altres conceptes	444,09000	€
P-4	P060-020H	u	Mostreig, realització del con d'Abrams, elaboració de provetes, cura i determinació de la resistència a tracció per flexió de 3 provetes de formigó amb fibres, segons la norma UNE-EN 14651	**304,78**	€
	BV210-01QB	u	Mostreig, realització del con d'Abrams, elaboració de provetes, cura i determinació de la resistència a tracció per flexió de 3 provetes de formigó amb fibres, segons la norma UNE-EN 14651	304,78000	€
			Altres conceptes	0,00000	€
P-5	P0B2-00PJ	u	Determinació de les característiques mecàniques: resistència a la tracció, límit elàstic, allargament de ruptura i doblegament-desdoblegament d'una proveta d'acer amb característiques especials de ductilitat per a armar formigons, segons la norma UNE 36065	**63,41**	€
	BV250-00N5	u	Determinació de les característiques mecàniques: resistència a la tracció, límit elàstic, allargament de ruptura i doblegament-desdoblegament d'una proveta d'acer amb característiques especials de ductilitat per a armar formigons, segons la norma UNE 36065	63,41000	€
			Altres conceptes	0,00000	€
P-6	P0B3-00OE	u	Determinació de la composició química i de les característiques mecàniques d'una proveta d'acer no aliat laminat en calent, segons la norma UNE-EN 10025-2	**192,82**	€
	BV250-00NF	u	Determinació de la composició química i de les característiques mecàniques d'una proveta d'acer no aliat laminat en calent, segons la norma UNE-EN 10025-2	192,82000	€

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NÚMERO	CODI	UA	DESCRIPCIÓ		PREU
			Altres conceptes	0,00000	€
P-7	P2146-DJ2J	m2	Demolició de paviment de formigó de fins a 20 cm de gruix, d'amplària més de 2 m amb retroexcavadora amb martell trencador i càrrega sobre camió amb mitjans mecànics	**5,06**	€
			Altres conceptes	5,06000	€
P-8	P2146-DJ4I	m2	Demolició de paviment de panots col·locats sobre base de formigó de fins a 20 cm de gruix, inclòs la demolició de la base, d'amplària fins a 2 m amb retroexcavadora amb martell trencador i càrrega sobre camió amb mitjans mecànics	**6,03**	€
			Altres conceptes	6,03000	€
P-9	P2147-DJ5U	m	Demolició de rigola de formigó, inclòs la base, amb compressor i càrrega mecànica sobre camió	**4,56**	€
			Altres conceptes	4,56000	€
P-10	P2148-49L9	m	Demolició de vorada, inclòs la base, col·locada sobre formigó, amb martell trencador muntat sobre retroexcavadora i càrrega manual i mecànica de runa sobre camió o contenidor	**3,58**	€
			Altres conceptes	3,58000	€
P-11	P214W-FEM	m	Tall en paviment de formigó de 15 cm de fondària com a mínim amb màquina tallajunts amb disc de diamant per a paviment, per a delimitar la zona a demolir	**7,23**	€
			Altres conceptes	7,23000	€
P-12	P21DH-8GX	u	Desmuntatge de columna exterior, accessoris i elements de subjecció, de fins a 6 m d'alçària, com a màxim, enderroc de fonament de formigó a mà i amb compressor, aplec per a posterior aprofitament i càrrega manual de runa sobre camió o contenidor	**83,18**	€
			Altres conceptes	83,18000	€
P-13	P21DH-8GX	u	Desmuntatge de llumenera, columna exterior, accessoris i elements de subjecció, de < 12 m d'alçària, com a màxim, enderroc de fonament de formigó a mà i amb martell trencador sobre retroexcavadora, aplec per a posterior aprofitament i càrrega manual i mecànica de runa sobre camió o contenidor	**143,63**	€
			Altres conceptes	143,63000	€
P-14	P21DH-8GX	u	Desmuntatge de llumenera, accessoris i elements de subjecció, de < 12 m d'alçària, com a màxim, aplec per a posterior aprofitament	**30,45**	€
			Altres conceptes	30,45000	€
P-15	P21Q0-H8E	u	Desmuntatge d'element d'equipament fix esportiu, de 500 kg de pes com a màxim i d'una alçària de 5 m com a màxim, amb mitjans manuals i mecànics, aplec de materials per a la seva reutilització i reposició de paviment	**86,16**	€
			Altres conceptes	86,16000	€
P-16	P221B-EL71	m3	Excavació de rasa i pou de fins a 2 m de fondària, en terreny compacte (SPT 20-50), realitzada amb retroexcavadora de combustible i càrrega mecànica sobre camió	**7,59**	€
			Altres conceptes	7,59000	€
P-17	P2255-DPIK	m3	Rebliment i piconatge de rasa d'amplària més de 0,6 i fins a 1,5 m, amb el 50% de sorra i el 50% de terra de la pròpia excavació, en tongades de gruix de fins a 25 cm, utilitzant picó vibrant de combustible, amb compactació del 95% PM	**30,82**	€
	B03L-05N5	t	Sorra de pedrera de 0 a 3,5 mm	18,08100	€
			Altres conceptes	12,73900	€
P-18	P2R6-4I5G	m3	Càrrega amb mitjans mecànics i transport de residus inerts o no especials a instal·lació autoritzada de gestió de residus, amb camió per a transport de 12 t, amb un recorregut de més de 10 i fins a 15 km	**10,64**	€
			Altres conceptes	10,64000	€
P-19	P2RA-EU2R	m3	Disposició controlada en dipòsit autoritzat inclòs el cànon sobre la deposició controlada dels residus de la construcció, segons la LLEI 8/2008, de residus de formigó inerts amb una densitat 1,45 t/m3, procedents de construcció o demolició, amb codi 17 01 01 segons la Llista Europea de Residus	**15,57**	€

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NÚMERO	CODI	UA	DESCRIPCIÓ	PREU
	B2RA-28UQ	t	Disposició controlada en dipòsit autoritzat inclòs el cànon sobre la deposició controlada dels residus de la construcció, segons la LLEI 8/2008, de residus de formigó inerts amb una densitat 1,45 t/m3, procedents de construcció o demolició, amb codi 17 01 01 segons la Llista Europea de Residus	15,57300 €
			Altres conceptes	-0,00300 €
P-20	P2RA-EU2T	m3	Disposició controlada en dipòsit autoritzat inclòs el cànon sobre la deposició controlada dels residus de la construcció, segons la LLEI 8/2008, de residus de terra inerts amb una densitat 1,6 t/m3, procedents d'excavació, amb codi 17 05 04 segons la Llista Europea de Residus	**9,08** €
	B2RA-28V5	m3	Disposició controlada en dipòsit autoritzat inclòs el cànon sobre la deposició controlada dels residus de la construcció, segons la LLEI 8/2008, de residus de terra inerts amb una densitat 1,6 t/m3, procedents d'excavació, amb codi 17 05 04 segons la Llista Europea de Residus	9,08000 €
			Altres conceptes	0,00000 €
P-21	P3F0-D53Z	kg	Armadura per a enceps AP500 S en barres de diàmetre fins a 20 mm, d'acer en barres corrugades B500S de límit elàstic >= 500 N/mm2	**1,68** €
	B0AM-078F	kg	Filferro recuit 1,3 mm	0,01248 €
			Altres conceptes	1,66752 €
P-22	P3F2-JH8K	m3	Formigonament per a enceps, amb formigó per armarHA - 25 / P / 20 / IIa amb una quantitat de ciment de 275 kg/m3 i relació aigua ciment =< 0.6, abocat amb bomba en obres d'enginyeria civil	**108,62** €
	B06E-11CP	m3	Formigó HA-25/P / 20 / IIa de consistència plàstica, grandària màxima del granulat 20 mm, amb >= 275 kg/m3 de ciment, apte per a classe d'exposició IIa	96,63460 €
			Altres conceptes	11,98540 €
P-23	P3Z3-D52S	m2	Capa de neteja i anivellament 10 cm de gruix amb formigó de neteja, amb una dosificació de 150 kg/m3 de ciment, consistència tova i grandària màxima del granulat 20 mm, HL-150/B/20, abocat des de camió	**10,08** €
	B067-2A9V	m3	Formigó de neteja, amb una dosificació de 150 kg/m3 de ciment, consistència tova i grandària màxima del granulat 20 mm, HL-150/B/20	8,28345 €
			Altres conceptes	1,79655 €
P-24	P446-DM8A	kg	Acer S275JR segons UNE-EN 10025-2, per a elements d'ancoratge formats per peça composta, en perfils laminats en calent sèrie L, LD, T, rodó, quadrat, rectangular i planxa, treballat a taller i galvanitzat, col·locat a l'obra amb cargols	**3,63** €
	B44Z-0LZP	kg	Acer S275JR segons UNE-EN 10025-2, format per peça composta, en perfils laminats en calent sèrie L, LD, T, rodó, quadrat, rectangular i planxa, treballat al taller per a col·locar amb cargols i galvanitzat	3,07000 €
			Altres conceptes	0,56000 €
P-25	P44C-DP13	kg	Acer S275JR segons UNE-EN 10025-2, per a pilars formats per peça simple, en perfils tubulars o laminats en calent sèrie IPN, IPE, HEB, HEA, HEM i UPN, treballat a taller i amb una capa d'imprimació antioxidant, col·locat a l'obra amb soldadura	**2,05** €
	B44Z-0LY7	kg	Acer S275JR segons UNE-EN 10025-2, format per peça simple, en perfils tubulars o laminats en calent sèrie IPN, IPE, HEB, HEA, HEM i UPN, treballat al taller per a col·locar amb soldadura i amb una capa d'imprimació antioxidant	1,47000 €
			Altres conceptes	0,58000 €
P-26	P542-8ZZV	m2	Coberta amb perfil nervat de planxa d'acer per a cobertes galvanitzada i lacada, amb 4 nervis separats entre 260 i 275 mm i una alçària entre 30 i 35 mm, de 0,6 mm de gruix, amb una inèrcia entre 8 i 9 cm4 i una massa superficial entre 5 i 6 kg/m2, acabat llis de color estàndard, col·locat amb fixacions mecàniques. Inclou part proporcional de vora perimetral per a coberta inclinada, amb xapa plegada d'acer galvanitzat, de 0,6,0 mm d'espessor, 40 cm de desenvolupament i 3 plecs i canaló per a coberta inclinada, amb xapa plegada d'acer galvanitzat prelacat, de 1,0 mm d'espessor, 70 cm de desenvolupament i 4 plecs. Inclús accessoris de fixació de les peces a les plaques, massilla de base neutra monocomponent per closa de juntes i connexió a les baixants.	**14,20** €

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NÚMERO	CODI	UA	DESCRIPCIÓ	PREU	
	B0CH4-20YG	m2	Perfil nervat de planxa d'acer galvanitzada i lacada amb 4 nervis separats entre 260 i 275 mm i una alçària entre 30 i 35 mm de 0,6 mm de gruix, amb una inèrcia entre 8 i 9 cm4 i una massa superficial entre 5 i 6 kg/m2, acabat llis, per a cobertes, de color estàndard, segons la norma UNE-EN 14782	7,17650	€
	MT13CCG040	m	Junt d'estanquitat per a xapes perfilades d'acer.	0,66500	€
	MT1YF5AK	m	Xapa plegada d'acer galvanitzat, de 1 mm d'espessor, 70 cm de desenvolupament i 4 plecs, per a canaló	0,16300	€
	MT1YF5IG	m	Xapa plegada d'acer galvanitzat, de 0,6 mm d'espessor, 40 cm de desenvolupament i 3 plecs, per a vora perimetral	0,60210	€
	B0A5-06VX	u	Cargol autoroscant amb volandera	0,99000	€
	MT21VVA011	l	Massilla de base neutra monocomponent, per closa de juntes; per a aplicar amb pistola.	0,07065	€
			Altres conceptes	4,53275	€
P-27	P5Z50-A8I1	m2	Subministrament i muntatge d'estructura galvanitza en calent d'acer S235, composta d'una retícula espacial de barres tubulars (de Ø40x3 mm a Ø60x3 mm) connectades entre elles mitjançant unions caragolades a nusos de 8 eixos amb xapes de gruix 6mm, 5mm i 4mm solapades parcialment entre elles, segons disseny comunitari ÉS 1095330 O, O 201300974 i ÉS 1095305 O, O 201300985, formant mòduls de 1,3 metros, connectada a pilars mitjançant caragols de M27 qualitat 8.8, per a cobrir llums superiors a 10 m. Tota fabricada, subministrada i instal·lada sota la norma UNE 1090.	**40,09**	€
	B44Z-0LXX	kg	Acer S235JR segons UNE-EN 10025-2, format per peça simple, per a reforç d'elements d'encastament, recolzament i rigiditzadors, en perfils laminats en calent sèrie L, LD, T, rodó, quadrat, rectangular i planxa, treballat al taller per a col·locar amb cargols i amb una capa d'imprimació antioxidant	35,50200	€
			Altres conceptes	4,58800	€
P-28	P641-423N	m	Clos de d'estructura de característiques similars al pavelló del Temple, format per panells de xapa ondulada d'acer galvanitzat de 1mm d'espesor, amb bastidor electrosoldat i pals de perfil buit d'acer galvanitzat, de secció quadrada 60x60x2 mm i d'entre 3m i 3,3m d'altura, platina de 150x150x10mm amb ancoratge mecànic per expansió M10x160 sobre paviment de formigó. Inclús accessoris per a la fixació d'els panells d'acer als pals metàl·lics.	**91,42**	€
	B610-0KVT	u	Platina d'acer S275JR, treballada a taller i amb forats, de 150x1500x10 mm amb ancoratges mecànics de seguretat per expansió, d'acer galvanitzat, M10x160 100/80, de 10 mm de diàmetre i 160 mm de longitud, inserit en perforació de 12 mm de diàmetre	19,04000	€
	B640-0KVH	m	Pal de perfil buit d'acer galvanitzat, de secció quadrada 60x60x2 mm	25,93750	€
	B641-0KVP	m2	Planxa d'acer galvanitzat de 1 mm de gruix, ondulada, per a tanca metàl·lica	26,34000	€
			Altres conceptes	20,10250	€
P-29	P930-11ABR	m3	Base per a paviment de formigó d'ús no estructural HNE-15/B/20 de resistència a compressió 15 N/mm2, consistència tova i grandària màxima del granulat 20 mm, abocat des de camió amb estesa i piconatge manual, acabat reglejat	**97,03**	€
	B069-2A9H	m3	Formigó d'ús no estructural HNE-15/B/20 de resistència a compressió 15 N/mm2, consistència tova i grandària màxima del granulat 20 mm	83,68500	€
			Altres conceptes	13,34500	€
P-30	P931-10RJI	m3	Base de formigó de formigó en massa HM - 20 / B / 20 / X0 amb una quantitat de ciment de 200 kg/m3 i relació aigua ciment =< 0.6, abocat des de camió amb estesa i vibratge manual, amb acabat reglejat	**111,43**	€
	B06F1-I0IL	m3	Formigó en massa HM - 20 / B / 20 / X0 amb una quantitat de ciment de 200 kg/m3 i relació aigua ciment =< 0.6	98,09100	€
			Altres conceptes	13,33900	€
P-31	P967-E9W9	m	Peça recta de formigó per a vorades, monocapa, amb secció normalitzada per a vianants A4 20x8 cm, segons UNE 127340, de classe climàtica B, classe resistent a l'abrasió H i classe resistent a flexió S (R-3,5 MPa) segons UNE-EN 1340, col·locada sobre base de formigó no estructural HNE-15/P/40 de 10 a 20 cm d'alçària, i rejuntat amb morter per a ram de paleta	**24,19**	€

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NÚMERO	CODI	UA	DESCRIPCIÓ		PREU
	B07L-1PYA	t	Morter per a ram de paleta, classe M 5 (5 N/mm2), a granel, de designació (G) segons norma UNE-EN 998-2	0,09085	€
	B962-0GQU	m	Peça recta de formigó per a vorades, monocapa, amb secció normalitzada per a vianants A4 20x8 cm, segons UNE 127340, de classe climàtica B, classe resistent a l'abrasió H i classe resistent a flexió S (R-3,5 MPa) segons UNE-EN 1340	4,11600	€
	B069-2A9P	m3	Formigó d'ús no estructural HNE-15/P/40 de resistència a compressió 15 N/mm2, consistència plàstica i grandària màxima del granulat 40 mm	5,71470	€
			Altres conceptes	14,26845	€
P-32	P976-HH1K	m	Rigola de 30 cm d'amplària de peça prefabricada de formigó per a cuneta de 30x12 cm amb canal en V a la cara superior, col·locades amb morter i rejuntades amb beurada de ciment	**30,57**	**€**
	B07L-1PY6	t	Morter per a ram de paleta, classe M 5 (5 N/mm2), en sacs, de designació (G) segons norma UNE-EN 998-2	0,50605	€
	BDG4-1GS1	m	Peça prefabricada de formigó per a cuneta de 30x12 cm amb canal en V a la cara superior	16,17000	€
	B069-2A9P	m3	Formigó d'ús no estructural HNE-15/P/40 de resistència a compressió 15 N/mm2, consistència plàstica i grandària màxima del granulat 40 mm	5,71470	€
			Altres conceptes	8,17925	€
P-33	P9E1-V6R2	m2	Paviment de panot per a vorera de color de 20x20x4 cm, classe 1a, preu alt, sobre suport de 3 cm de morter amb additius, col·locat a truc de maceta amb morter mixt 1:2:10 i beurada de color amb ciment blanc de ram de paleta	**44,53**	**€**
	B9E2-0HOT	m2	Panot de color de 20x20x4 cm, classe 1a, preu alt	10,69980	€
	B011-05ME	m3	Aigua	0,00199	€
	B055-065W	t	Ciment blanc de ram de paleta BL 22,5 X segons UNE 80305, en sacs	0,67418	€
	B083-06UD	kg	Colorant en pols per a formigó	0,92565	€
			Altres conceptes	32,22838	€
P-34	P9GG-4Y5D	m3	Paviment de formigó per a paviments HF-3,5 MPa de resistència a flexotracció i consistència plàstica, sense additius, escampat des de camió, estesa i vibratge mecànic i acabat ratllat manual	**108,62**	**€**
	B06B-12QK	m3	Formigó per a paviments HF-3,5 MPa de resistència a flexotracció i consistència plàstica	99,33000	€
			Altres conceptes	9,29000	€
P-35	P9GG-4YTA	m3	Paviment de formigó per a paviments HF-3,5 MPa de resistència a flexotracció i consistència plàstica, sense additius, escampat des de camió, estesa i vibratge mecànic i acabat remolinat mecànic	**109,07**	**€**
	B06B-12QK	m3	Formigó per a paviments HF-3,5 MPa de resistència a flexotracció i consistència plàstica	99,33000	€
			Altres conceptes	9,74000	€
P-36	PA_FONES	u	Partida per a la col·locació d'estructura tubular sobre pilars amb mitjans mecànics	**3.407,52**	**€**
			Altres conceptes	3.407,52000	€
P-37	PA_SIS01	pa	Seguretat i Salut, a partir del pressupost de l'Estudi de Seguretat i Salut.	**1.000,00**	**€**
			Sense descomposició	1.000,00000	€
P-38	PD16-HAWZ	m	Baixant de tub de xapa de zinc-titani amb unió longitudinal plegada, de diàmetre nominal 120 mm i de 0,6 mm de gruix, incloses les peces especials i fixat mecànicament amb brides	**34,58**	**€**
	BD11-H4Y7	u	Brida de xapa d'acer galvanitzat zincat per a tub de zinc-titani de diàmetre nominal 120 mm	0,72050	€
	BD18-H6AG	m	Tub de xapa de zinc-titani amb unió longitudinal plegada, de diàmetre nominal 120 mm i de 0,6 mm de gruix	15,24600	€
	BDW1-1C2T	u	Accessori per a baixant de tub de zinc titani de DN 120 mm i 0,6 mm de gruix	4,68600	€
	BDY1-0LMJ	u	Element de muntatge per a baixant de tub de planxa de zinc-titani de DN 120 mm i 0,6 mm de gruix	1,22000	€

QUADRE DE PREUS NÚMERO 2

NÚMERO	CODI	UA	DESCRIPCIÓ		PREU
			Altres conceptes	12,70750	€
P-39	PDG4-M98D	m	Canalització amb dos tubs de PVC corrugat de diàmetre nominal DN80 i dau de recobriment de 40x30 cm amb formigó d'ús no estructural HNE-20/P/20 de resistència a compressió 20 N/mm2, consistència plàstica i grandària màxima del granulat 20 mm, fil guia a cada tub, part proporcional d'accessoris d'unió, separadors i obturadors, amb picó vibrant de combustible	**16,12**	**€**
	B069-I4H8	m3	Formigó d'ús no estructural HNE-20/P/20 de resistència a compressió 20 N/mm2, consistència plàstica i grandària màxima del granulat 20 mm	10,54944	€
	BG2Q-1KTJ	m	Tub corbable corrugat de PVC, de 80 mm de diàmetre nominal, aïllant i no propagador de la flama, resistència a l'impacte de 6 J, resistència a compressió de 250 N, per a canalitzacions soterrades	3,92700	€
	BDG2-34UA	m	Fil guia per a conductes de canalitzacions de serveis, de nylon, de 5 mm de gruix	0,30600	€
	BDG3-34IM	u	Part proporcional de separadors, conectors i obturadors de canalitzacions de serveis de 80 mm de diàmetre nominal	0,56560	€
			Altres conceptes	0,77196	€
P-40	PDK1-DX9W	u	Bastiment quadrat i tapa quadrat de fosa dúctil per a pericó de serveis, recolzada, pas lliure de 420x420 mm i classe B125 segons norma UNE-EN 124, col·locada amb morter per a ram de paleta	**60,92**	**€**
	B07L-1PY6	t	Morter per a ram de paleta, classe M 5 (5 N/mm2), en sacs, de designació (G) segons norma UNE-EN 998-2	0,22491	€
	BDK5-1KHB	u	Bastiment quadrat i tapa quadrat de fosa dúctil per a pericó de serveis, recolzada, pas lliure de 420x420 mm i classe B125 segons norma UNE-EN 124	45,31000	€
			Altres conceptes	15,38509	€
P-41	PDK4-LP57	u	Pericó de registre de formigó prefabricat sense fons de 40x40x45 cm, per a instal·lacions de serveis, col·locat sobre solera de formigó formigó d'ús no estructural HNE-20/B/40 de resistència a compressió 20 N/mm2, consistència tova i grandària màxima del granulat 40 mm de 15 cm de gruix i reblert lateral amb terra de la mateixa excavació	**62,59**	**€**
	B069-I6LP	m3	Formigó d'ús no estructural HNE-20/B/40 de resistència a compressió 20 N/mm2, consistència tova i grandària màxima del granulat 40 mm	4,48270	€
	BDK2-1KNI	u	Pericó de registre de formigó prefabricat sense fons de 40x40x45 cm, per a instal·lacions de serveis	14,84000	€
			Altres conceptes	43,26730	€
P-42	PG33-E6KY	m	Cable amb conductor de coure de tensió assignada0,6/1 kV, de designació RV-K, construcció segons norma UNE 21123-2, tetrapolar, de secció 4x6 mm2, amb coberta del cable de PVC, classe de reacció al foc Eca segons la norma UNE-EN 50575, col·locat en tub	**5,48**	**€**
	BG33-G2RM	m	Cable amb conductor de coure de tensió assignada0,6/1 kV, de designació RV-K, construcció segons norma UNE 21123-2, tetrapolar, de secció 4x6 mm2, amb coberta del cable de PVC, classe de reacció al foc Eca segons la norma UNE-EN 50575	3,63120	€
			Altres conceptes	1,84880	€
P-43	PHM2-DBE	u	Recol·locació de farola existent de secció circular de fins a 6 m d'alçària, placa d'ancoratge quadrada de 400x400 mm i 10 mm de gruix amb 4 cartel·les de reforç i 4 forats colissos per a perns M22, amb anella de reforç en la base de 350 mm d'alçària i 4 mm de gruix, fixat mecànicament als perns de la fonamentació, inclòs: - excavació de pou aïllat de fins a 2 m de fondària, en terreny no classificat, amb mitjans mecànics, de .8 x 0.8 x 1 m (amplària x llargària x fondària) - fonamentació de formigó en massa HM - 20 / B / 20 / X0 amb una quantitat de ciment de 200 kg/m3 i relació aigua ciment =< 0.6, de .8 x 0.8 x (amplària x llargària x alçària) - de tub corbable corrugat de polietilè, de doble capa, llisa la interior i corrugada l'exterior, de 90 mm de diàmetre nominal, aïllant i no propagador de la flama, resistència a l'impacte de 20 J, resistència a compressió de 450 N, muntat com a canalització soterrada - tub flexible corrugat de PVC, de 32 mm de diàmetre nominal, aïllant i no propagador de la flama, resistència a l'impacte d'1 J, resistència a compressió de 320 N i una rigidesa dielèctrica de 2000 V, muntat encastat - conductor de coure nu, unipolar de secció 1x35 mm2, muntat superficialment - placa de connexió a terra d'acer, quadrada (massissa), de superfície 0,3 m2, de 3 mm de gruix i soterrada	**458,32**	**€**

QUADRE DE PREUS NÚMERO 2

NÚMERO	CODI	UA	DESCRIPCIÓ	PREU	
			- cable amb conductor de coure de tensió assignada0,6/1 kV, de designació RV-K, construcció segons norma UNE 21123-2, tripolar, de secció 3x2,5 mm2, amb coberta del cable de PVC, classe de reacció al foc Eca segons la norma UNE-EN 50575		
	BHW8-06IY	u	Part proporcional d'accessoris per a columnes	41,06000	€
	BGYD-0B2X	u	Part proporcional d'elements especials per a plaques de connexió a terra	19,80000	€
	BG2Q-1KTE	m	Tub corbable corrugat de polietilè, de doble capa, llisa la interior i corrugada l'exterior, de 90 mm de diàmetre nominal, aïllant i no propagador de la flama, resistència a l'impacte de 20 J, resistència a compressió de 450 N, per a canalitzacions soterrades	11,95000	€
	BGD2-06US	u	Placa de connexió a terra d'acer quadrada (massissa), de 0,3 m2 de superfície i de 3 mm de gruix	111,02000	€
	BG33-G2RB	m	Cable amb conductor de coure de tensió assignada0,6/1 kV, de designació RV-K, construcció segons norma UNE 21123-2, tripolar, de secció 3x2,5 mm2, amb coberta del cable de PVC, classe de reacció al foc Eca segons la norma UNE-EN 50575	13,30000	€
	B06F1-I4HH	m3	Formigó en massa HM - 20 / B / 10 / X0 amb una quantitat de ciment de 200 kg/m3 i relació aigua ciment =< 0.6	100,95325	€
	BG3I-06W3	m	Conductor de coure nu, unipolar de secció 1x35 mm2	22,90000	€
			Altres conceptes	137,33675	€
P-44	PHN8-E7Y6	u	Reorientació de llumenera existent per a vials, acoblada al bàcul	**33,82**	**€**
			Altres conceptes	33,82000	€
P-45	PR67-8ZSN	u	Trasplantament dins de l'obra d'arbre fins a 3.5 m d'alçària de tronc, inclou repicat amb retroexcavadora i mitjans manuals, formació de pa de terra amb mitjans manuals, excavació de clot de plantació de 120x120x60 cm amb retroexcavadora, plantació amb camió grua en el nou lloc d'ubicació, reblert del clot amb 50% de sorra, 25% de terra de l'excavació i 25% de compost, primer reg i càrrega de les terres sobrants a camió.	**317,95**	**€**
	BR32-21DG	m3	Compost de classe I, d'origen vegetal, segons NTJ 05C, subministrat en sacs de 0,8 m3	2,85107	€
	B011-05ME	m3	Aigua	0,33830	€
	B03L-05MY	t	Sorra de riu rentada de 0.1 a 0.5 mm, subministrada en sacs de 0,8 m3	128,22477	€
			Altres conceptes	186,53586	€

L´autor del projecte,

Àngel Mulet Baubí
Enginyer de camins, canals i ports
Col·legiat núm. 31.205
Alter Enginyeria Aplicada, SLP

JUSTIFICACIÓ DE PREUS

JUSTIFICACIÓ DE PREUS

MA D'OBRA

CODI	UA	DESCRIPCIÓ	PREU	
A01-FEP0	h	Ajudant ferrallista	21,09000	€
A01-FEP1	h	Ajudant soldador	21,17000	€
A01-FEP3	h	Ajudant col·locador	21,09000	€
A01-FEPD	h	Ajudant electricista	21,05000	€
A01-FEPH	h	Ajudant muntador	21,09000	€
A01-FEPJ	h	Ajudant jardiner	29,10000	€
A0D-0007	h	Manobre	19,68000	€
A0D-0009	h	Manobre per a seguretat i salut	20,66000	€
A0E-000A	h	Manobre especialista	20,84000	€
A0F-000B	h	Oficial 1a	23,63000	€
A0F-000D	h	Oficial 1a col·locador	23,63000	€
A0F-000E	h	Oficial 1a electricista	24,43000	€
A0F-000I	h	Oficial 1a ferrallista	23,63000	€
A0F-000R	h	Oficial 1a muntador	24,43000	€
A0F-000S	h	Oficial 1a d'obra pública	23,63000	€
A0F-000T	h	Oficial 1a paleta	23,63000	€
A0F-000Y	h	Oficial 1a soldador	24,02000	€
A0F-0011	h	Oficial 1a jardiner especialista en arboricultura	40,16000	€
MO003	h	Oficial 1ª electricista.	24,43000	€
MO018	h	Oficial 1ª serraller.	25,97000	€
MO020	h	Oficial 1ª construcció.	25,58000	€
MO059	h	Ajudant serraller.	22,82000	€
MO102	h	Ajudant electricista.	21,05000	€
MO113	h	Peó ordinari construcció.	21,43000	€

JUSTIFICACIÓ DE PREUS

MAQUINÀRIA

CODI	UA	DESCRIPCIÓ	PREU	
C111-0055	h	Compressor amb un martell pneumàtic	13,28000	€
C111-0056	h	Compressor amb dos martells pneumàtics	13,99000	€
C115-00EE	h	Retroexcavadora amb martell trencador	57,62000	€
C138-00KQ	h	Pala carregadora sobre pneumàtics de 15 a 20 t	96,37000	€
C13A-00FR	h	Compactador combustible duplex manual de 700 kg	7,59000	€
C13C-00LP	h	Retroexcavadora sobre pneumàtics de 8 a 10 t	53,06000	€
C150-002W	h	Camió cistella de 10 a 19 m d'alçària	69,43000	€
C150-002X	h	Camió cistella de 10 m d'alçària com a màxim	50,47000	€
C151-0032	h	Camió cisterna de 10 m3	60,75000	€
C152-003B	h	Camió grua	56,50000	€
C154-003M	h	Camió per a transport de 12 t	49,88000	€
C154-003N	h	Camió per a transport de 7 t	41,84000	€
C15G-HKHF	h	Grua autopropulsada de 60 a 100 t	141,98000	€
C175-00G6	h	Estenedora per a paviments de formigó	80,31000	€
C176-00FX	h	Formigonera de 165 l	2,05000	€
C178-00GF	h	Màquina tallajunts amb disc de diamant per a paviment	8,26000	€
C206-00DW	h	Equip i elements auxiliars per a soldadura elèctrica	3,03000	€
C20K-00DP	h	Regle vibratori	5,04000	€
C20L-00DO	h	Remolinador mecànic	5,72000	€
CZ15-00E4	h	Grup electrògen de 20 a 30 kVA	9,52000	€

JUSTIFICACIÓ DE PREUS

MATERIALS

CODI	UA	DESCRIPCIÓ	PREU	
B011-05ME	m3	Aigua	1,99000	€
B03L-05MY	t	Sorra de riu rentada de 0.1 a 0.5 mm, subministrada en sacs de 0,8 m3	74,71000	€
B03L-05N5	t	Sorra de pedrera de 0 a 3,5 mm	20,09000	€
B03L-05N7	t	Sorra de pedrera per a morters	20,52000	€
B054-06DH	kg	Calç aèria hidratada CL 90-S, en sacs	0,32000	€
B055-065W	t	Ciment blanc de ram de paleta BL 22,5 X segons UNE 80305, en sacs	220,32000	€
B055-0661	t	Ciment pòrtland CEM I 32,5 R segons UNE-EN 197-1, en sacs	146,57000	€
B055-067M	t	Ciment pòrtland amb filler calcari CEM II/B-L 32,5 R segons UNE-EN 197-1, en sacs	142,00000	€
B067-2A9V	m3	Formigó de neteja, amb una dosificació de 150 kg/m3 de ciment, consistència tova i grandària màxima del granulat 20 mm, HL-150/B/20	78,89000	€
B069-2A9H	m3	Formigó d'ús no estructural HNE-15/B/20 de resistència a compressió 15 N/mm2, consistència tova i grandària màxima del granulat 20 mm	79,70000	€
B069-2A9P	m3	Formigó d'ús no estructural HNE-15/P/40 de resistència a compressió 15 N/mm2, consistència plàstica i grandària màxima del granulat 40 mm	77,54000	€
B069-I4H8	m3	Formigó d'ús no estructural HNE-20/P/20 de resistència a compressió 20 N/mm2, consistència plàstica i grandària màxima del granulat 20 mm	79,92000	€
B069-I6LP	m3	Formigó d'ús no estructural HNE-20/B/40 de resistència a compressió 20 N/mm2, consistència tova i grandària màxima del granulat 40 mm	79,06000	€
B06B-12QK	m3	Formigó per a paviments HF-3,5 MPa de resistència a flexotracció i consistència plàstica	94,60000	€
B06E-11CP	m3	Formigó HA-25/P / 20 / IIa de consistència plàstica, grandària màxima del granulat 20 mm, amb >= 275 kg/m3 de ciment, apte per a classe d'exposició IIa	93,82000	€
B06F1-I0IL	m3	Formigó en massa HM - 20 / B / 20 / X0 amb una quantitat de ciment de 200 kg/m3 i relació aigua ciment =< 0.6	93,42000	€
B06F1-I4HH	m3	Formigó en massa HM - 20 / B / 10 / X0 amb una quantitat de ciment de 200 kg/m3 i relació aigua ciment =< 0.6	93,91000	€
B07L-1PY6	t	Morter per a ram de paleta, classe M 5 (5 N/mm2), en sacs, de designació (G) segons norma UNE-EN 998-2	53,55000	€
B07L-1PYA	t	Morter per a ram de paleta, classe M 5 (5 N/mm2), a granel, de designació (G) segons norma UNE-EN 998-2	43,26000	€
B081-06U6	kg	Additiu inclusor aire/plastificant per a morter, segons la norma UNE-EN 934-3	1,64000	€
B083-06UD	kg	Colorant en pols per a formigó	3,63000	€
B0A5-06VX	u	Cargol autoroscant amb volandera	0,18000	€
B0AM-078F	kg	Filferro recuit 1,3 mm	2,04000	€
B0B7-106Q	kg	Acer en barres corrugades B500S de límit elàstic >= 500 N/mm2	0,94000	€
B0CH4-20YG	m2	Perfil nervat de planxa d'acer galvanitzada i lacada amb 4 nervis separats entre 260 i 275 mm i una alçària entre 30 i 35 mm de 0,6 mm de gruix, amb una inèrcia entre 8 i 9 cm4 i una massa superficial entre 5 i 6 kg/m2, acabat llis, per a cobertes, de color estàndard, segons la norma UNE-EN 14782	4,63000	€
B2RA-28UQ	t	Disposició controlada en dipòsit autoritzat inclòs el cànon sobre la deposició controlada dels residus de la construcció, segons la LLEI 8/2008, de residus de formigó inerts amb una densitat 1,45 t/m3, procedents de construcció o demolició, amb codi 17 01 01 segons la Llista Europea de Residus	10,74000	€
B2RA-28V5	m3	Disposició controlada en dipòsit autoritzat inclòs el cànon sobre la deposició controlada dels residus de la construcció, segons la LLEI 8/2008, de residus de terra inerts amb una densitat 1,6 t/m3, procedents d'excavació, amb codi 17 05 04 segons la Llista Europea de Residus	9,08000	€
B44Z-0LXX	kg	Acer S235JR segons UNE-EN 10025-2, format per peça simple, per a reforç d'elements d'encastament, recolzament i rigiditzadors, en perfils laminats en calent sèrie L, LD, T, rodó, quadrat, rectangular i planxa, treballat al taller per a col·locar amb cargols i amb una capa d'imprimació antioxidant	1,94000	€
B44Z-0LY7	kg	Acer S275JR segons UNE-EN 10025-2, format per peça simple, en perfils tubulars o laminats en calent sèrie IPN, IPE, HEB, HEA, HEM i UPN, treballat al taller per a col·locar amb soldadura i amb una capa d'imprimació antioxidant	1,47000	€

JUSTIFICACIÓ DE PREUS

MATERIALS

CODI	UA	DESCRIPCIÓ	PREU	
B44Z-0LZP	kg	Acer S275JR segons UNE-EN 10025-2, format per peça composta, en perfils laminats en calent sèrie L, LD, T, rodó, quadrat, rectangular i planxa, treballat al taller per a col·locar amb cargols i galvanitzat	3,07000	€
B610-0KVT	u	Platina d'acer S275JR, treballada a taller i amb forats, de 150x1500x10 mm amb ancoratges mecànics de seguretat per expansió, d'acer galvanitzat, M10x160 100/80, de 10 mm de diàmetre i 160 mm de longitud, inserit en perforació de 12 mm de diàmetre	19,04000	€
B640-0KVH	m	Pal de perfil buit d'acer galvanitzat, de secció quadrada 60x60x2 mm	4,15000	€
B641-0KVP	m2	Planxa d'acer galvanitzat de 1 mm de gruix, ondulada, per a tanca metàl·lica	8,78000	€
B962-0GQU	m	Peça recta de formigó per a vorades, monocapa, amb secció normalitzada per a vianants A4 20x8 cm, segons UNE 127340, de classe climàtica B, classe resistent a l'abrasió H i classe resistent a flexió S (R-3,5 MPa) segons UNE-EN 1340	3,92000	€
B9E2-0HOT	m2	Panot de color de 20x20x4 cm, classe 1a, preu alt	10,49000	€
BD11-H4Y7	u	Brida de xapa d'acer galvanitzat zincat per a tub de zinc-titani de diàmetre nominal 120 mm	1,31000	€
BD18-H6AG	m	Tub de xapa de zinc-titani amb unió longitudinal plegada, de diàmetre nominal 120 mm i de 0,6 mm de gruix	10,89000	€
BDG2-34UA	m	Fil guia per a conductes de canalitzacions de serveis, de nylon, de 5 mm de gruix	0,15000	€
BDG3-34IM	u	Part proporcional de separadors, conectors i obturadors de canalitzacions de serveis de 80 mm de diàmetre nominal	0,28000	€
BDG4-1GS1	m	Peça prefabricada de formigó per a cuneta de 30x12 cm amb canal en V a la cara superior	16,17000	€
BDK2-1KNI	u	Pericó de registre de formigó prefabricat sense fons de 40x40x45 cm, per a instal·lacions de serveis	14,84000	€
BDK5-1KHB	u	Bastiment quadrat i tapa quadrat de fosa dúctil per a pericó de serveis, recolzada, pas lliure de 420x420 mm i classe B125 segons norma UNE-EN 124	45,31000	€
BDW1-1C2T	u	Accessori per a baixant de tub de zinc titani de DN 120 mm i 0,6 mm de gruix	14,20000	€
BDY1-0LMJ	u	Element de muntatge per a baixant de tub de planxa de zinc-titani de DN 120 mm i 0,6 mm de gruix	1,22000	€
BG2Q-1KTE	m	Tub corbable corrugat de polietilè, de doble capa, llisa la interior i corrugada l'exterior, de 90 mm de diàmetre nominal, aïllant i no propagador de la flama, resistència a l'impacte de 20 J, resistència a compressió de 450 N, per a canalitzacions soterrades	2,39000	€
BG2Q-1KTJ	m	Tub corbable corrugat de PVC, de 80 mm de diàmetre nominal, aïllant i no propagador de la flama, resistència a l'impacte de 6 J, resistència a compressió de 250 N, per a canalitzacions soterrades	1,87000	€
BG33-G2RB	m	Cable amb conductor de coure de tensió assignada0,6/1 kV, de designació RV-K, construcció segons norma UNE 21123-2, tripolar, de secció 3x2,5 mm2, amb coberta del cable de PVC, classe de reacció al foc Eca segons la norma UNE-EN 50575	1,33000	€
BG33-G2RM	m	Cable amb conductor de coure de tensió assignada0,6/1 kV, de designació RV-K, construcció segons norma UNE 21123-2, tetrapolar, de secció 4x6 mm2, amb coberta del cable de PVC, classe de reacció al foc Eca segons la norma UNE-EN 50575	3,56000	€
BG3I-06W3	m	Conductor de coure nu, unipolar de secció 1x35 mm2	2,29000	€
BGD2-06US	u	Placa de connexió a terra d'acer quadrada (massissa), de 0,3 m2 de superfície i de 3 mm de gruix	55,51000	€
BGYD-0B2X	u	Part proporcional d'elements especials per a plaques de connexió a terra	4,95000	€
BHW8-06IY	u	Part proporcional d'accessoris per a columnes	41,06000	€
BR32-21DG	m3	Compost de classe I, d'origen vegetal, segons NTJ 05C, subministrat en sacs de 0,8 m3	52,70000	€
BV210-01QB	u	Mostreig, realització del con d'Abrams, elaboració de provetes, cura i determinació de la resistència a tracció per flexió de 3 provetes de formigó amb fibres, segons la norma UNE-EN 14651	304,78000	€
BV250-00N5	u	Determinació de les característiques mecàniques: resistència a la tracció, límit elàstic, allargament de ruptura i doblegament-desdoblegament d'una proveta d'acer amb característiques especials de ductilitat per a armar formigons, segons la norma UNE 36065	63,41000	€
BV250-00NF	u	Determinació de la composició química i de les característiques mecàniques d'una proveta d'acer no aliat laminat en calent, segons la norma UNE-EN 10025-2	192,82000	€
MT13CCG040	m	Junt d'estanquitat per a xapes perfilades d'acer.	2,66000	€
MT1YF5AK	m	Xapa plegada d'acer galvanitzat, de 1 mm d'espessor, 70 cm de desenvolupament i 4 plecs, per a canaló	8,15000	€

JUSTIFICACIÓ DE PREUS

MATERIALS

CODI	UA	DESCRIPCIÓ	PREU	
MT1YF5IG	m	Xapa plegada d'acer galvanitzat, de 0,6 mm d'espessor, 40 cm de desenvolupament i 3 plecs, per a vora perimetral	6,69000	€
MT21VVA011	l	Massilla de base neutra monocomponent, per closa de juntes; per a aplicar amb pistola.	14,13000	€
MT26PGC010F	U	Porta corredissa metàl·lica en tanca exterior per accés de vehicles i amb porta integrada per a vianants de 100x210cm, fulla corredissa de 450x300 cm, de xapa ondulada d'acer galvanitzat, amb pòrtic lateral de sustentació i topall de tancament, guia inferior amb UPN 100 i quadrat massís de 25x25 mm, rodes de lliscament de 20 mm amb rodament de greixatge permanent, elements d'ancoratge, ferraments de seguretat, tancament i doble pany, acabat amb emprimació antioxidant i accessoris. Segons UNE-EN 13241.	2.686,78000	€
MT34CLG010A	U	Campana tipus INDU BAY GEN4 1 (o similar) 364 LEDs 18mA NW840 Integrated lenses 7095 E99342 i 59W de potència	189,13000	€
MT34CLG011A	U	Cadena d'acer de 1,5 m de longitud, per a instal·lació suspesa de campana LED.	9,60000	€

JUSTIFICACIÓ DE PREUS

ELEMENTS COMPOSTOS

CODI	UA	DESCRIPCIÓ						PREU
B07F-0LT6	m3	Morter mixt de ciment pòrtland amb filler calcari CEM II/B-L, calç i sorra, amb 200 kg/m3 de ciment, amb una proporció en volum 1:2:10 i 2,5 N/mm2 de resistència a compressió, elaborat a l'obra	**Rend.:**	**1,000**			**211,78000**	€

			Unitats		Preu		Parcial	Import
Ma d'obra								
A0E-000A	h	Manobre especialista	1,050	/R x	20,84000	=	21,88200	
				Subtotal:			21,88200	21,88200
Maquinària								
C176-00FX	h	Formigonera de 165 l	0,725	/R x	2,05000	=	1,48625	
				Subtotal:			1,48625	1,48625
Materials								
B03L-05N7	t	Sorra de pedrera per a morters	1,530	x	20,52000	=	31,39560	
B011-05ME	m3	Aigua	0,200	x	1,99000	=	0,39800	
B055-067M	t	Ciment pòrtland amb filler calcari CEM II/B-L 32,5 R segons UNE-EN 197-1, en sacs	0,200	x	142,00000	=	28,40000	
B054-06DH	kg	Calç aèria hidratada CL 90-S, en sacs	400,000	x	0,32000	=	128,00000	
				Subtotal:			188,19360	188,19360
		DESPESES AUXILIARS			1,00	%		0,21882
		COST DIRECTE						211,78067
		COST EXECUCIÓ MATERIAL						**211,78067**

B07G-0MR9	m3	Morter de ciment amb ciment pòrtland CEM I i sorra, amb additiu inclusor aire/plastificant i 250 kg/m3 de ciment, amb una proporció en volum 1:6 i 5 N/mm2 de resistència a compressió, elaborat a l'obra	**Rend.:**	**1,000**			**93,79000**	€

			Unitats		Preu		Parcial	Import
Ma d'obra								
A0E-000A	h	Manobre especialista	1,000	/R x	20,84000	=	20,84000	
				Subtotal:			20,84000	20,84000
Maquinària								
C176-00FX	h	Formigonera de 165 l	0,700	/R x	2,05000	=	1,43500	
				Subtotal:			1,43500	1,43500
Materials								
B081-06U6	kg	Additiu inclusor aire/plastificant per a morter, segons la norma UNE-EN 934-3	0,500	x	1,64000	=	0,82000	
B055-0661	t	Ciment pòrtland CEM I 32,5 R segons UNE-EN 197-1, en sacs	0,250	x	146,57000	=	36,64250	
B03L-05N7	t	Sorra de pedrera per a morters	1,630	x	20,52000	=	33,44760	
B011-05ME	m3	Aigua	0,200	x	1,99000	=	0,39800	
				Subtotal:			71,30810	71,30810

ELEMENTS COMPOSTOS

CODI	UA	DESCRIPCIÓ			PREU
		DESPESES AUXILIARS	1,00	%	0,20840
		COST DIRECTE			93,79150
		COST EXECUCIÓ MATERIAL			**93,79150**

B0B6-107E kg Acer en barres corrugades elaborat a l'obra i manipulat a taller B500S, de límit elàstic >= 500 N/mm2 **Rend.: 1,000** **1,23000** €

				Unitats		Preu		Parcial	Import
Ma d'obra									
	A0F-000I	h	Oficial 1a ferrallista	0,005	/R x	23,63000	=	0,11815	
	A01-FEP0	h	Ajudant ferrallista	0,005	/R x	21,09000	=	0,10545	
					Subtotal:			0,22360	0,22360
Materials									
	B0B7-106Q	kg	Acer en barres corrugades B500S de límit elàstic >= 500 N/mm2	1,050	x	0,94000	=	0,98700	
	B0AM-078F	kg	Filferro recuit 1,3 mm	0,0102	x	2,04000	=	0,02081	
					Subtotal:			1,00781	1,00781
			DESPESES AUXILIARS		1,00	%			0,00224
			COST DIRECTE						1,23365
			COST EXECUCIÓ MATERIAL						**1,23365**

JUSTIFICACIÓ DE PREUS

PARTIDES D'OBRA

NÚM	CODI	UA	DESCRIPCIÓ		PREU
P-1	**IEI040**	U	Xarxa elèctrica de distribució interior per a pavelló de 1000 m², composta de: quadre general de comandament i protecció; circuits interiors amb cablejat en safates perforades de PVC rígid: 1 circuit per enllumenat, 1 circuit per preses de corrent; mecanismes gamma bàsica (tecla o tapa i marc: blanc; embellidor: blanc).	**Rend.: 1,000**	**3.223,98** €

COST DIRECTE			3.223,98000
DESPESES INDIRECTES	0,00	%	0,00000
COST EXECUCIÓ MATERIAL			**3.223,9800**

P-2	**III075**	U	Campana LED per a indústria, no regulable, de 278 mm de diàmetre i 162 mm d'altura, de 100 W, alimentació a 220/240 V i 50-60 Hz, amb llum LED SMD, temperatura de color 4000 K, cos d'alumini extrudit de color negre, feix de llum extensiu 120° i difusor de policarbonat, índex d'enlluernament unificat menor de 19, índex de reproducció cromàtica major de 80, flux lluminós 12900 lúmens, grau de protecció IP65, amb cadena d'acer de 1,5 m de longitud. Instal·lació suspesa. Inclou: Replanteig. Muntatge, connexionat i comprovació del seu correcte funcionament. Criteri d'amidament de projecte: Nombre d'unitats previstes, segons documentació gràfica de Projecte. Criteri de mesura d'obra: Es mesurarà el nombre d'unitats realment executades segons especificacions de Projecte.		**Rend.: 1,000**			**217,83**	€

				Unitats		Preu		Parcial	Import
Ma d'obra									
	MO102	h	Ajudant electricista.	0,420	/R x	21,05000	=	8,84100	
	MO003	h	Oficial 1ª electricista.	0,420	/R x	24,43000	=	10,26060	
					Subtotal:			19,10160	19,10160
Materials									
	MT34CLG01	U	Campana tipus INDU BAY GEN4 1 (o similar) 364 LEDs 18mA NW840 Integrated lenses 7095 E99342 i 59W de potència	1,000	x	189,13000	=	189,13000	
	MT34CLG01	U	Cadena d'acer de 1,5 m de longitud, per a instal·lació suspesa de campana LED.	1,000	x	9,60000	=	9,60000	
					Subtotal:			198,73000	198,73000

COST DIRECTE			217,83160
DESPESES INDIRECTES	0,00	%	0,00000
COST EXECUCIÓ MATERIAL			**217,83160**

P-3	**LGA020**	U	Porta metàl·lica de xapa ondulada d'acer galvanitzat, de fulla corredissa, dimensions 450x300 cm, perfils rectangulars en cèrcol sòcol inferior realitzat amb xapa grecada de 1,2 mm d'espessor a dues cares, per a accés de vehicles i amb porta per a vianants integrada de 100x210cm. Obertura manual. Inclús pòrtic lateral de sustentació i topall de tancament, col·locació i fixació dels perfils guia inferior amb UPN 100 i quadrat massís de 25x25 mm asseguts amb	**Rend.: 1,000**	**3.130,87**	€

PARTIDES D'OBRA

NÚM	CODI	UA	DESCRIPCIÓ	PREU

formigó HM-25/B/20/X0 i rebuts a obra; rodes per lliscament, amb coixinet de greixatge permanent, elements d'ancoratge, ferramentes de seguretat, tancament amb doble pany i accessoris.

				Unitats		Preu		Parcial	Import
Ma d'obra									
	MO059	h	Ajudant serraller.	2,400	/R x	22,82000	=	54,76800	
	MO018	h	Oficial 1ª serraller.	2,400	/R x	25,97000	=	62,32800	
	MO020	h	Oficial 1ª construcció.	6,500	/R x	25,58000	=	166,27000	
	MO113	h	Peó ordinari construcció.	7,500	/R x	21,43000	=	160,72500	
					Subtotal:			444,09100	444,09100
Materials									
	MT26PGC01	U	Porta corredissa metàl·lica en tanca exterior per accés de vehicles i amb porta integrada per a vianants de 100x210cm, fulla corredissa de 450x300 cm, de xapa ondulada d'acer galvanitzat, amb pòrtic lateral de sustentació i topall de tancament, guia inferior amb UPN 100 i quadrat massís de 25x25 mm, rodes de lliscament de 20 mm amb rodament de greixatge permanent, elements d'ancoratge, ferraments de seguretat, tancament i doble pany, acabat amb emprimació antioxidant i accessoris. Segons UNE-EN 13241.	1,000	x	2.686,78000	=	2.686,78000	
					Subtotal:			2.686,78000	2.686,78000

COST DIRECTE			3.130,87100
DESPESES INDIRECTES	0,00	%	0,00000
COST EXECUCIÓ MATERIAL			**3.130,87100**

P-4 **P060-020H** u Mostreig, realització del con d'Abrams, elaboració de provetes, cura i determinació de la resistència a tracció per flexió de 3 provetes de formigó amb fibres, segons la norma UNE-EN 14651 **Rend.: 1,000** **304,78** €

				Unitats		Preu		Parcial	Import
Materials									
	BV210-01Q	u	Mostreig, realització del con d'Abrams, elaboració de provetes, cura i determinació de la resistència a tracció per flexió de 3 provetes de formigó amb fibres, segons la norma UNE-EN 14651	1,000	x	304,78000	=	304,78000	
					Subtotal:			304,78000	304,78000

PARTIDES D'OBRA

NÚM	CODI	UA	DESCRIPCIÓ	PREU

COST DIRECTE			304,78000
DESPESES INDIRECTES	0,00	%	0,00000
COST EXECUCIÓ MATERIAL			**304,78000**

P-5 **P0B2-00PJ** u Determinació de les característiques mecàniques: resistència a la tracció, límit elàstic, allargament de ruptura i doblegament-desdoblegament d'una proveta d'acer amb característiques especials de ductilitat per a armar formigons, segons la norma UNE 36065 **Rend.: 1,000** **63,41** €

				Unitats		Preu		Parcial	Import
Materials									
	BV250-00N5	u	Determinació de les característiques mecàniques: resistència a la tracció, límit elàstic, allargament de ruptura i doblegament-desdoblegament d'una proveta d'acer amb característiques especials de ductilitat per a armar formigons, segons la norma UNE 36065	1,000	x	63,41000	=	63,41000	
			Subtotal:					63,41000	63,41000

COST DIRECTE			63,41000
DESPESES INDIRECTES	0,00	%	0,00000
COST EXECUCIÓ MATERIAL			**63,41000**

P-6 **P0B3-00OE** u Determinació de la composició química i de les característiques mecàniques d'una proveta d'acer no aliat laminat en calent, segons la norma UNE-EN 10025-2 **Rend.: 1,000** **192,82** €

				Unitats		Preu		Parcial	Import
Materials									
	BV250-00NF	u	Determinació de la composició química i de les característiques mecàniques d'una proveta d'acer no aliat laminat en calent, segons la norma UNE-EN 10025-2	1,000	x	192,82000	=	192,82000	
			Subtotal:					192,82000	192,82000

COST DIRECTE			192,82000
DESPESES INDIRECTES	0,00	%	0,00000
COST EXECUCIÓ MATERIAL			**192,82000**

P-7 **P2146-DJ2J** m2 Demolició de paviment de formigó de fins a 20 cm de gruix, d'amplària més de 2 m amb retroexcavadora amb martell trencador i càrrega sobre camió amb mitjans mecànics **Rend.: 0,821** **5,06** €

				Unitats		Preu		Parcial	Import
Maquinària									
	C115-00EE	h	Retroexcavadora amb martell trencador	0,061	/R x	57,62000	=	4,28114	
	C138-00KQ	h	Pala carregadora sobre pneumàtics de 15 a 20 t	0,00663	/R x	96,37000	=	0,77824	

PARTIDES D'OBRA

NÚM	CODI	UA	DESCRIPCIÓ				PREU
			Subtotal:			5,05938	5,05938
			COST DIRECTE				5,05938
			DESPESES INDIRECTES	0,00	%		0,00000
			COST EXECUCIÓ MATERIAL				**5,05938**

P-8 **P2146-DJ4I** m2 Demolició de paviment de panots col·locats sobre base de formigó de fins a 20 cm de gruix, inclòs la demolició de la base, d'amplària fins a 2 m amb retroexcavadora amb martell trencador i càrrega sobre camió amb mitjans mecànics **Rend.: 1,000** **6,03** €

				Unitats		Preu		Parcial	Import
Maquinària									
	C115-00EE	h	Retroexcavadora amb martell trencador	0,078	/R x	57,62000	=	4,49436	
	C13C-00LP	h	Retroexcavadora sobre pneumàtics de 8 a 10 t	0,029	/R x	53,06000	=	1,53874	
			Subtotal:					6,03310	6,03310
			COST DIRECTE						6,03310
			DESPESES INDIRECTES	0,00	%				0,00000
			COST EXECUCIÓ MATERIAL						**6,03310**

P-9 **P2147-DJ5U** m Demolició de rigola de formigó, inclòs la base, amb compressor i càrrega mecànica sobre camió **Rend.: 1,000** **4,56** €

				Unitats		Preu		Parcial	Import
Ma d'obra									
	A0E-000A	h	Manobre especialista	0,112	/R x	20,84000	=	2,33408	
			Subtotal:					2,33408	2,33408
Maquinària									
	C111-0056	h	Compressor amb dos martells pneumàtics	0,056	/R x	13,99000	=	0,78344	
	C13C-00LP	h	Retroexcavadora sobre pneumàtics de 8 a 10 t	0,0265	/R x	53,06000	=	1,40609	
			Subtotal:					2,18953	2,18953
			DESPESES AUXILIARS			1,50	%		0,03501
			COST DIRECTE						4,55862
			DESPESES INDIRECTES			0,00	%		0,00000
			COST EXECUCIÓ MATERIAL						**4,55862**

P-10 **P2148-49L9** m Demolició de vorada, inclòs la base, col·locada sobre formigó, amb martell trencador muntat sobre retroexcavadora i càrrega manual i mecànica de runa sobre camió o contenidor **Rend.: 1,000** **3,58** €

				Unitats		Preu		Parcial	Import
Maquinària									
	C115-00EE	h	Retroexcavadora amb martell trencador	0,040	/R x	57,62000	=	2,30480	
	C13C-00LP	h	Retroexcavadora sobre pneumàtics de 8 a 10 t	0,024	/R x	53,06000	=	1,27344	

PARTIDES D'OBRA

NÚM	CODI	UA	DESCRIPCIÓ				PREU
			Subtotal:			3,57824	3,57824
			COST DIRECTE				3,57824
			DESPESES INDIRECTES	0,00	%		0,00000
			COST EXECUCIÓ MATERIAL				**3,57824**

P-11 P214W-FEMM m Tall en paviment de formigó de 15 cm de fondària com a mínim amb màquina tallajunts amb disc de diamant per a paviment, per a delimitar la zona a demolir **Rend.: 1,423** **7,23** €

				Unitats		Preu		Parcial	Import
Ma d'obra									
	A0E-000A	h	Manobre especialista	0,350	/R x	20,84000	=	5,12579	
			Subtotal:					5,12579	5,12579
Maquinària									
	C178-00GF	h	Màquina tallajunts amb disc de diamant per a paviment	0,350	/R x	8,26000	=	2,03162	
			Subtotal:					2,03162	2,03162
			DESPESES AUXILIARS		1,50	%			0,07689
			COST DIRECTE						7,23430
			DESPESES INDIRECTES		0,00	%			0,00000
			COST EXECUCIÓ MATERIAL						**7,23430**

P-12 P21DH-8GX9 u Desmuntatge de columna exterior, accessoris i elements de subjecció, de fins a 6 m d'alçària, com a màxim, enderroc de fonament de formigó a mà i amb compressor, aplec per a posterior aprofitament i càrrega manual de runa sobre camió o contenidor **Rend.: 1,000** **83,18** €

				Unitats		Preu		Parcial	Import
Ma d'obra									
	A0D-0007	h	Manobre	0,5625	/R x	19,68000	=	11,07000	
	A0F-000E	h	Oficial 1a electricista	0,200	/R x	24,43000	=	4,88600	
	A0E-000A	h	Manobre especialista	1,125	/R x	20,84000	=	23,44500	
			Subtotal:					39,40100	39,40100
Maquinària									
	C152-003B	h	Camió grua	0,500	/R x	56,50000	=	28,25000	
	C111-0055	h	Compressor amb un martell pneumàtic	1,125	/R x	13,28000	=	14,94000	
			Subtotal:					43,19000	43,19000
			DESPESES AUXILIARS		1,50	%			0,59102
			COST DIRECTE						83,18202
			DESPESES INDIRECTES		0,00	%			0,00000
			COST EXECUCIÓ MATERIAL						**83,18202**

PARTIDES D'OBRA

NÚM	CODI	UA	DESCRIPCIÓ	PREU

P-13 **P21DH-8GXF** u Desmuntatge de llumenera, columna exterior, accessoris i elements de subjecció, de < 12 m d'alçària, com a màxim, enderroc de fonament de formigó a mà i amb martell trencador sobre retroexcavadora, aplec per a posterior aprofitament i càrrega manual i mecànica de runa sobre camió o contenidor **Rend.: 1,000** **143,63** €

				Unitats		Preu		Parcial	Import
Ma d'obra									
	A0F-000E	h	Oficial 1a electricista	0,500	/R x	24,43000	=	12,21500	
	A0D-0007	h	Manobre	0,26667	/R x	19,68000	=	5,24807	
			Subtotal:					17,46307	17,46307
Maquinària									
	C13C-00LP	h	Retroexcavadora sobre pneumàtics de 8 a 10 t	0,211	/R x	53,06000	=	11,19566	
	C152-003B	h	Camió grua	0,600	/R x	56,50000	=	33,90000	
	C115-00EE	h	Retroexcavadora amb martell trencador	0,800	/R x	57,62000	=	46,09600	
	C150-002W	h	Camió cistella de 10 a 19 m d'alçària	0,500	/R x	69,43000	=	34,71500	
			Subtotal:					125,90666	125,90666
			DESPESES AUXILIARS			1,50	%		0,26195
			COST DIRECTE						143,63168
			DESPESES INDIRECTES			0,00	%		0,00000
			COST EXECUCIÓ MATERIAL						**143,63168**

P-14 **P21DH-8GXH** u Desmuntatge de llumenera, accessoris i elements de subjecció, de < 12 m d'alçària, com a màxim, aplec per a posterior aprofitament **Rend.: 1,000** **30,45** €

				Unitats		Preu		Parcial	Import
Ma d'obra									
	A0F-000E	h	Oficial 1a electricista	0,26667	/R x	24,43000	=	6,51475	
	A0D-0007	h	Manobre	0,26667	/R x	19,68000	=	5,24807	
			Subtotal:					11,76282	11,76282
Maquinària									
	C150-002W	h	Camió cistella de 10 a 19 m d'alçària	0,26667	/R x	69,43000	=	18,51490	
			Subtotal:					18,51490	18,51490
			DESPESES AUXILIARS			1,50	%		0,17644
			COST DIRECTE						30,45416
			DESPESES INDIRECTES			0,00	%		0,00000
			COST EXECUCIÓ MATERIAL						**30,45416**

PARTIDES D'OBRA

NÚM	CODI	UA	DESCRIPCIÓ						PREU
P-15	**P21Q0-H8EJ**	u	Desmuntatge d'element d'equipament fix esportiu, de 500 kg de pes com a màxim i d'una alçària de 5 m com a màxim, amb mitjans manuals i mecànics, aplec de materials per a la seva reutilització i reposició de paviment	**Rend.:**	**1,000**				**86,16** €
				Unitats		Preu		Parcial	Import
Ma d'obra									
	A0F-000S	h	Oficial 1a d'obra pública	0,750	/R x	23,63000	=	17,72250	
	A0D-0007	h	Manobre	1,500	/R x	19,68000	=	29,52000	
					Subtotal:			47,24250	47,24250
Maquinària									
	C111-0055	h	Compressor amb un martell pneumàtic	0,750	/R x	13,28000	=	9,96000	
	C152-003B	h	Camió grua	0,500	/R x	56,50000	=	28,25000	
					Subtotal:			38,21000	38,21000
				DESPESES AUXILIARS		1,50	%		0,70864
				COST DIRECTE					86,16114
				DESPESES INDIRECTES		0,00	%		0,00000
				COST EXECUCIÓ MATERIAL					**86,16114**
P-16	**P221B-EL71**	m3	Excavació de rasa i pou de fins a 2 m de fondària, en terreny compacte (SPT 20-50), realitzada amb retroexcavadora de combustible i càrrega mecànica sobre camió	**Rend.:**	**1,000**				**7,59** €
				Unitats		Preu		Parcial	Import
Maquinària									
	C13C-00LP	h	Retroexcavadora sobre pneumàtics de 8 a 10 t	0,143	/R x	53,06000	=	7,58758	
					Subtotal:			7,58758	7,58758
				COST DIRECTE					7,58758
				DESPESES INDIRECTES		0,00	%		0,00000
				COST EXECUCIÓ MATERIAL					**7,58758**
P-17	**P2255-DPIK**	m3	Rebliment i piconatge de rasa d'amplària més de 0,6 i fins a 1,5 m, amb el 50% de sorra i el 50% de terra de la pròpia excavació, en tongades de gruix de fins a 25 cm, utilitzant picó vibrant de combustible, amb compactació del 95% PM	**Rend.:**	**1,000**				**30,82** €
				Unitats		Preu		Parcial	Import
Ma d'obra									
	A0E-000A	h	Manobre especialista	0,220	/R x	20,84000	=	4,58480	
					Subtotal:			4,58480	4,58480
Maquinària									
	C13A-00FR	h	Compactador combustible duplex manual de 700 kg	0,220	/R x	7,59000	=	1,66980	
	C13C-00LP	h	Retroexcavadora sobre pneumàtics de 8 a 10 t	0,121	/R x	53,06000	=	6,42026	

PARTIDES D'OBRA

NÚM	CODI	UA	DESCRIPCIÓ					PREU
				Subtotal:			8,09006	8,09006
Materials								
	B03L-05N5	t	Sorra de pedrera de 0 a 3,5 mm	0,900	x	20,09000 =	18,08100	
				Subtotal:			18,08100	18,08100
				DESPESES AUXILIARS		1,50 %		0,06877
				COST DIRECTE				30,82463
				DESPESES INDIRECTES		0,00 %		0,00000
				COST EXECUCIÓ MATERIAL				**30,82463**

P-18 **P2R6-4I5G** m3 Càrrega amb mitjans mecànics i transport de residus inerts o no especials a instal·lació autoritzada de gestió de residus, amb camió per a transport de 12 t, amb un recorregut de més de 10 i fins a 15 km **Rend.: 1,000** **10,64** €

				Unitats		Preu	Parcial	Import
Maquinària								
	C138-00KQ	h	Pala carregadora sobre pneumàtics de 15 a 20 t	0,024	/R x	96,37000 =	2,31288	
	C154-003M	h	Camió per a transport de 12 t	0,167	/R x	49,88000 =	8,32996	
				Subtotal:			10,64284	10,64284
				COST DIRECTE				10,64284
				DESPESES INDIRECTES		0,00 %		0,00000
				COST EXECUCIÓ MATERIAL				**10,64284**

P-19 **P2RA-EU2R** m3 Disposició controlada en dipòsit autoritzat inclòs el cànon sobre la deposició controlada dels residus de la construcció, segons la LLEI 8/2008, de residus de formigó inerts amb una densitat 1,45 t/m3, procedents de construcció o demolició, amb codi 17 01 01 segons la Llista Europea de Residus **Rend.: 1,000** **15,57** €

				Unitats		Preu	Parcial	Import
Materials								
	B2RA-28UQ	t	Disposició controlada en dipòsit autoritzat inclòs el cànon sobre la deposició controlada dels residus de la construcció, segons la LLEI 8/2008, de residus de formigó inerts amb una densitat 1,45 t/m3, procedents de construcció o demolició, amb codi 17 01 01 segons la Llista Europea de Residus	1,450	x	10,74000 =	15,57300	
				Subtotal:			15,57300	15,57300
				COST DIRECTE				15,57300
				DESPESES INDIRECTES		0,00 %		0,00000
				COST EXECUCIÓ MATERIAL				**15,57300**

JUSTIFICACIÓ DE PREUS

PARTIDES D'OBRA

NÚM	CODI	UA	DESCRIPCIÓ			PREU	
P-20	**P2RA-EU2T**	m3	Disposició controlada en dipòsit autoritzat inclòs el cànon sobre la deposició controlada dels residus de la construcció, segons la LLEI 8/2008, de residus de terra inerts amb una densitat 1,6 t/m3, procedents d'excavació, amb codi 17 05 04 segons la Llista Europea de Residus	**Rend.:**	**1,000**	**9,08**	€

				Unitats		Preu		Parcial	Import
Materials									
	B2RA-28V5	m3	Disposició controlada en dipòsit autoritzat inclòs el cànon sobre la deposició controlada dels residus de la construcció, segons la LLEI 8/2008, de residus de terra inerts amb una densitat 1,6 t/m3, procedents d'excavació, amb codi 17 05 04 segons la Llista Europea de Residus	1,000	x	9,08000	=	9,08000	
					Subtotal:			9,08000	9,08000
				COST DIRECTE					9,08000
				DESPESES INDIRECTES		0,00	%		0,00000
				COST EXECUCIÓ MATERIAL					**9,08000**

NÚM	CODI	UA	DESCRIPCIÓ			PREU	
P-21	**P3F0-D53Z**	kg	Armadura per a enceps AP500 S en barres de diàmetre fins a 20 mm, d'acer en barres corrugades B500S de límit elàstic >= 500 N/mm2	**Rend.:**	**0,575**	**1,68**	€

				Unitats		Preu		Parcial	Import
Ma d'obra									
	A0F-000I	h	Oficial 1a ferrallista	0,005	/R x	23,63000	=	0,20548	
	A01-FEP0	h	Ajudant ferrallista	0,006	/R x	21,09000	=	0,22007	
					Subtotal:			0,42555	0,42555
Materials									
	B0AM-078F	kg	Filferro recuit 1,3 mm	0,00612	x	2,04000	=	0,01248	
	B0B6-107E	kg	Acer en barres corrugades elaborat a l'obra i manipulat a taller B500S, de límit elàstic >= 500 N/mm2	1,000	x	1,23365	=	1,23365	
					Subtotal:			1,24613	1,24613
				DESPESES AUXILIARS		1,50	%		0,00638
				COST DIRECTE					1,67806
				DESPESES INDIRECTES		0,00	%		0,00000
				COST EXECUCIÓ MATERIAL					**1,67806**

NÚM	CODI	UA	DESCRIPCIÓ			PREU	
P-22	**P3F2-JH8K**	m3	Formigonament per a enceps, amb formigó per armarHA - 25 / P / 20 / IIa amb una quantitat de ciment de 275 kg/m3 i relació aigua ciment =< 0.6, abocat amb bomba en obres d'enginyeria civil	**Rend.:**	**1,000**	**108,62**	€

				Unitats		Preu		Parcial	Import
Ma d'obra									
	A0D-0007	h	Manobre	0,600	/R x	19,68000	=	11,80800	

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NÚM	CODI	UA	DESCRIPCIÓ					PREU
					Subtotal:		11,80800	11,80800
Materials								
	B06E-11CP	m3	Formigó HA-25/P / 20 / IIa de consistència plàstica, grandària màxima del granulat 20 mm, amb >= 275 kg/m3 de ciment, apte per a classe d'exposició IIa	1,030	x 93,82000	=	96,63460	
					Subtotal:		96,63460	96,63460
					DESPESES AUXILIARS	1,50 %		0,17712
					COST DIRECTE			108,61972
					DESPESES INDIRECTES	0,00 %		0,00000
					COST EXECUCIÓ MATERIAL			**108,61972**

P-23	**P3Z3-D52S**	m2	Capa de neteja i anivellament 10 cm de gruix amb formigó de neteja, amb una dosificació de 150 kg/m3 de ciment, consistència tova i grandària màxima del granulat 20 mm, HL-150/B/20, abocat des de camió	**Rend.:**	**1,000**	**10,08** €

				Unitats		Preu		Parcial	Import
Ma d'obra									
	A0F-000B	h	Oficial 1a	0,075	/R x	23,63000	=	1,77225	
					Subtotal:			1,77225	1,77225
Materials									
	B067-2A9V	m3	Formigó de neteja, amb una dosificació de 150 kg/m3 de ciment, consistència tova i grandària màxima del granulat 20 mm, HL-150/B/20	0,105	x	78,89000	=	8,28345	
					Subtotal:			8,28345	8,28345
					DESPESES AUXILIARS	1,50 %			0,02658
					COST DIRECTE				10,08228
					DESPESES INDIRECTES	0,00 %			0,00000
					COST EXECUCIÓ MATERIAL				**10,08228**

P-24	**P446-DM8A**	kg	Acer S275JR segons UNE-EN 10025-2, per a elements d'ancoratge formats per peça composta, en perfils laminats en calent sèrie L, LD, T, rodó, quadrat, rectangular i planxa, treballat a taller i galvanitzat, col·locat a l'obra amb cargols	**Rend.:**	**1,000**	**3,63** €

				Unitats		Preu		Parcial	Import
Ma d'obra									
	A0F-000R	h	Oficial 1a muntador	0,012	/R x	24,43000	=	0,29316	
	A01-FEPH	h	Ajudant muntador	0,012	/R x	21,09000	=	0,25308	
					Subtotal:			0,54624	0,54624
Materials									
	B44Z-0LZP	kg	Acer S275JR segons UNE-EN 10025-2, format per peça composta, en perfils laminats en calent sèrie L, LD, T, rodó, quadrat, rectangular i planxa, treballat al taller per a col·locar amb cargols i galvanitzat	1,000	x	3,07000	=	3,07000	

PARTIDES D'OBRA

NÚM	CODI	UA	DESCRIPCIÓ				PREU
				Subtotal:		3,07000	3,07000
				DESPESES AUXILIARS	2,50 %		0,01366
				COST DIRECTE			3,62990
				DESPESES INDIRECTES	0,00 %		0,00000
				COST EXECUCIÓ MATERIAL			**3,62990**

P-25 **P44C-DP13** kg Acer S275JR segons UNE-EN 10025-2, per a pilars formats per peça simple, en perfils tubulars o laminats en calent sèrie IPN, IPE, HEB, HEA, HEM i UPN, treballat a taller i amb una capa d'imprimació antioxidant, col·locat a l'obra amb soldadura **Rend.: 1,522** **2,05** €

				Unitats		Preu		Parcial	Import
Ma d'obra									
	A01-FEP1	h	Ajudant soldador	0,015	/R x	21,17000	=	0,20864	
	A0F-000Y	h	Oficial 1a soldador	0,015	/R x	24,02000	=	0,23673	
					Subtotal:			0,44537	0,44537
Maquinària									
	C206-00DW	h	Equip i elements auxiliars per a soldadura elèctrica	0,015	/R x	3,03000	=	0,02986	
	CZ15-00E4	h	Grup electrògen de 20 a 30 kVA	0,015	/R x	9,52000	=	0,09382	
					Subtotal:			0,12368	0,12368
Materials									
	B44Z-0LY7	kg	Acer S275JR segons UNE-EN 10025-2, format per peça simple, en perfils tubulars o laminats en calent sèrie IPN, IPE, HEB, HEA, HEM i UPN, treballat al taller per a col·locar amb soldadura i amb una capa d'imprimació antioxidant	1,000	x	1,47000	=	1,47000	
					Subtotal:			1,47000	1,47000
				DESPESES AUXILIARS		2,50 %			0,01113
				COST DIRECTE					2,05018
				DESPESES INDIRECTES		0,00 %			0,00000
				COST EXECUCIÓ MATERIAL					**2,05018**

P-26 **P542-8ZZV** m2 Coberta amb perfil nervat de planxa d'acer per a cobertes galvanitzada i lacada, amb 4 nervis separats entre 260 i 275 mm i una alçària entre 30 i 35 mm, de 0,6 mm de gruix, amb una inèrcia entre 8 i 9 cm4 i una massa superficial entre 5 i 6 kg/m2, acabat llis de color estàndard, col·locat amb fixacions mecàniques.
Inclou part proporcional de vora perimetral per a coberta inclinada, amb xapa plegada d'acer galvanitzat, de 0,6,0 mm d'espessor, 40 cm de desenvolupament i 3 plecs i canaló per a coberta inclinada, amb xapa plegada d'acer galvanitzat prelacat, de 1,0 mm d'espessor, 70 cm de desenvolupament i 4 plecs.
Inclús accessoris de fixació de les peces a les plaques, massilla de base neutra monocomponent per closa de juntes i connexió a les baixants. **Rend.: 0,802** **14,20** €

PARTIDES D'OBRA

NÚM	CODI	UA	DESCRIPCIÓ						PREU
				Unitats		Preu		Parcial	Import
Ma d'obra									
	A01-FEP3	h	Ajudant col·locador	0,080	/R x	21,09000	=	2,10374	
	A0F-000D	h	Oficial 1a col·locador	0,080	/R x	23,63000	=	2,35711	
					Subtotal:			4,46085	4,46085
Materials									
	B0CH4-20Y	m2	Perfil nervat de planxa d'acer galvanitzada i lacada amb 4 nervis separats entre 260 i 275 mm i una alçària entre 30 i 35 mm de 0,6 mm de gruix, amb una inèrcia entre 8 i 9 cm4 i una massa superficial entre 5 i 6 kg/m2, acabat llis, per a cobertes, de color estàndard, segons la norma UNE-EN 14782	1,550	x	4,63000	=	7,17650	
	MT1YF5IG	m	Xapa plegada d'acer galvanitzat, de 0,6 mm d'espessor, 40 cm de desenvolupament i 3 plecs, per a vora perimetral	0,090	x	6,69000	=	0,60210	
	MT21VVA01	l	Massilla de base neutra monocomponent, per closa de juntes; per a aplicar amb pistola.	0,005	x	14,13000	=	0,07065	
	MT1YF5AK	m	Xapa plegada d'acer galvanitzat, de 1 mm d'espessor, 70 cm de desenvolupament i 4 plecs, per a canaló	0,020	x	8,15000	=	0,16300	
	MT13CCG0	m	Junt d'estanquitat per a xapes perfilades d'acer.	0,250	x	2,66000	=	0,66500	
	B0A5-06VX	u	Cargol autoroscant amb volandera	5,500	x	0,18000	=	0,99000	
					Subtotal:			9,66725	9,66725
			DESPESES AUXILIARS			1,50	%		0,06691
			COST DIRECTE						14,19501
			DESPESES INDIRECTES			0,00	%		0,00000
			COST EXECUCIÓ MATERIAL						**14,19501**

P-27 **P5Z50-A8I1** m2 Subministrament i muntatge d'estructura galvanitza en calent d'acer S235, composta d'una retícula espacial de barres tubulars (de Ø40x3 mm a Ø60x3 mm) connectades entre elles mitjançant unions caragolades a nusos de 8 eixos amb xapes de gruix 6mm, 5mm i 4mm solapades parcialment entre elles, segons disseny comunitari ÉS 1095330 O, O 201300974 i ÉS 1095305 O, O 201300985, formant mòduls de 1,3 metros, connectada a pilars mitjançant caragols de M27 qualitat 8.8, per a cobrir llums superiors a 10 m. Tota fabricada, subministrada i instal·lada sota la norma UNE 1090. **Rend.: 1,170** **40,09** **€**

				Unitats		Preu		Parcial	Import
Ma d'obra									
	A0F-000R	h	Oficial 1a muntador	0,115	/R x	24,43000	=	2,40124	
	A01-FEPH	h	Ajudant muntador	0,115	/R x	21,09000	=	2,07295	
					Subtotal:			4,47419	4,47419
Materials									
	B44Z-0LXX	kg	Acer S235JR segons UNE-EN 10025-2, format per peça simple, per a reforç d'elements d'encastament, recolzament i rigiditzadors, en perfils laminats en calent sèrie L, LD, T, rodó, quadrat, rectangular i planxa, treballat al taller per a col·locar amb cargols i amb una capa d'imprimació antioxidant	18,300	x	1,94000	=	35,50200	

PARTIDES D'OBRA

NÚM	CODI	UA	DESCRIPCIÓ	PREU

		Subtotal:	35,50200	35,50200
	DESPESES AUXILIARS	2,50 %		0,11185
	COST DIRECTE			40,08804
	DESPESES INDIRECTES	0,00 %		0,00000
	COST EXECUCIÓ MATERIAL			**40,08804**

P-28 **P641-423N** m Clos de d'estructura de característiques similars al pavelló del Temple, format per panells de xapa ondulada d'acer galvanitzat de 1mm d'espesor, amb bastidor electrosoldat i pals de perfil buit d'acer galvanitzat, de secció quadrada 60x60x2 mm i d'entre 3m i 3,3m d'altura, platina de 150x150x10mm amb ancoratge mecànic per expansió M10x160 sobre paviment de formigó. Inclús accessoris per a la fixació d'els panells d'acer als pals metàl·lics. **Rend.: 1,000** **91,42** €

				Unitats		Preu		Parcial	Import
Ma d'obra									
	A01-FEP0	h	Ajudant ferrallista	0,300	/R x	21,09000	=	6,32700	
	A0F-000I	h	Oficial 1a ferrallista	0,300	/R x	23,63000	=	7,08900	
	A0D-0009	h	Manobre per a seguretat i salut	0,300	/R x	20,66000	=	6,19800	
			Subtotal:					19,61400	19,61400
Materials									
	B610-0KVT	u	Platina d'acer S275JR, treballada a taller i amb forats, de 150x1500x10 mm amb ancoratges mecànics de seguretat per expansió, d'acer galvanitzat, M10x160 100/80, de 10 mm de diàmetre i 160 mm de longitud, inserit en perforació de 12 mm de diàmetre	1,000	x	19,04000	=	19,04000	
	B640-0KVH	m	Pal de perfil buit d'acer galvanitzat, de secció quadrada 60x60x2 mm	6,250	x	4,15000	=	25,93750	
	B641-0KVP	m2	Planxa d'acer galvanitzat de 1 mm de gruix, ondulada, per a tanca metàl·lica	3,000	x	8,78000	=	26,34000	
			Subtotal:					71,31750	71,31750
	DESPESES AUXILIARS				2,50 %				0,49035
	COST DIRECTE								91,42185
	DESPESES INDIRECTES				0,00 %				0,00000
	COST EXECUCIÓ MATERIAL								**91,42185**

P-29 **P930-11ABR** m3 Base per a paviment de formigó d'ús no estructural HNE-15/B/20 de resistència a compressió 15 N/mm2, consistència tova i grandària màxima del granulat 20 mm, abocat des de camió amb estesa i piconatge manual, acabat reglejat **Rend.: 1,000** **97,03** €

				Unitats		Preu		Parcial	Import
Ma d'obra									
	A0F-000S	h	Oficial 1a d'obra pública	0,150	/R x	23,63000	=	3,54450	
	A0D-0007	h	Manobre	0,450	/R x	19,68000	=	8,85600	

PARTIDES D'OBRA

NÚM	CODI	UA	DESCRIPCIÓ					PREU
				Subtotal:			12,40050	12,40050
Maquinària								
	C20K-00DP	h	Regle vibratori	0,150	/R x	5,04000 =	0,75600	
				Subtotal:			0,75600	0,75600
Materials								
	B069-2A9H	m3	Formigó d'ús no estructural HNE-15/B/20 de resistència a compressió 15 N/mm2, consistència tova i grandària màxima del granulat 20 mm	1,050	x	79,70000 =	83,68500	
				Subtotal:			83,68500	83,68500
				DESPESES AUXILIARS		1,50 %		0,18601
				COST DIRECTE				97,02751
				DESPESES INDIRECTES		0,00 %		0,00000
				COST EXECUCIÓ MATERIAL				**97,02751**

P-30 **P931-10RJI** m3 Base de formigó de formigó en massa HM - 20 / B / 20 / X0 amb una quantitat de ciment de 200 kg/m3 i relació aigua ciment =< 0.6, abocat des de camió amb estesa i vibratge manual, amb acabat reglejat **Rend.: 1,000** **111,43** €

				Unitats		Preu	Parcial	Import
Ma d'obra								
	A0D-0007	h	Manobre	0,450	/R x	19,68000 =	8,85600	
	A0F-000S	h	Oficial 1a d'obra pública	0,150	/R x	23,63000 =	3,54450	
				Subtotal:			12,40050	12,40050
Maquinària								
	C20K-00DP	h	Regle vibratori	0,150	/R x	5,04000 =	0,75600	
				Subtotal:			0,75600	0,75600
Materials								
	B06F1-I0IL	m3	Formigó en massa HM - 20 / B / 20 / X0 amb una quantitat de ciment de 200 kg/m3 i relació aigua ciment =< 0.6	1,050	x	93,42000 =	98,09100	
				Subtotal:			98,09100	98,09100
				DESPESES AUXILIARS		1,50 %		0,18601
				COST DIRECTE				111,43351
				DESPESES INDIRECTES		0,00 %		0,00000
				COST EXECUCIÓ MATERIAL				**111,43351**

P-31 **P967-E9W9** m Peça recta de formigó per a vorades, monocapa, amb secció normalitzada per a vianants A4 20x8 cm, segons UNE 127340, de classe climàtica B, classe resistent a l'abrasió H i classe resistent a flexió S (R-3,5 MPa) segons UNE-EN 1340, col·locada sobre base de formigó no estructural HNE-15/P/40 de 10 a 20 cm d'alçària, i rejuntat amb morter per a ram de paleta **Rend.: 1,000** **24,19** €

PARTIDES D'OBRA

NÚM	CODI	UA	DESCRIPCIÓ						PREU
				Unitats		Preu		Parcial	Import
Ma d'obra									
	A0D-0007	h	Manobre	0,450	/R x	19,68000	=	8,85600	
	A0F-000S	h	Oficial 1a d'obra pública	0,220	/R x	23,63000	=	5,19860	
					Subtotal:			14,05460	14,05460
Materials									
	B07L-1PYA	t	Morter per a ram de paleta, classe M 5 (5 N/mm2), a granel, de designació (G) segons norma UNE-EN 998-2	0,0021	x	43,26000	=	0,09085	
	B962-0GQU	m	Peça recta de formigó per a vorades, monocapa, amb secció normalitzada per a vianants A4 20x8 cm, segons UNE 127340, de classe climàtica B, classe resistent a l'abrasió H i classe resistent a flexió S (R-3,5 MPa) segons UNE-EN 1340	1,050	x	3,92000	=	4,11600	
	B069-2A9P	m3	Formigó d'ús no estructural HNE-15/P/40 de resistència a compressió 15 N/mm2, consistència plàstica i grandària màxima del granulat 40 mm	0,0737	x	77,54000	=	5,71470	
					Subtotal:			9,92155	9,92155
				DESPESES AUXILIARS		1,50	%		0,21082
				COST DIRECTE					24,18697
				DESPESES INDIRECTES		0,00	%		0,00000
				COST EXECUCIÓ MATERIAL					**24,18697**

P-32 **P976-HH1K** m Rigola de 30 cm d'amplària de peça prefabricada de formigó per a cuneta de 30x12 cm amb canal en V a la cara superior, col·locades amb morter i rejuntades amb beurada de ciment **Rend.: 1,000** **30,57** **€**

				Unitats		Preu		Parcial	Import
Ma d'obra									
	A0D-0007	h	Manobre	0,2895	/R x	19,68000	=	5,69736	
	A0F-000S	h	Oficial 1a d'obra pública	0,09975	/R x	23,63000	=	2,35709	
					Subtotal:			8,05445	8,05445
Materials									
	B07L-1PY6	t	Morter per a ram de paleta, classe M 5 (5 N/mm2), en sacs, de designació (G) segons norma UNE-EN 998-2	0,00945	x	53,55000	=	0,50605	
	BDG4-1GS1	m	Peça prefabricada de formigó per a cuneta de 30x12 cm amb canal en V a la cara superior	1,000	x	16,17000	=	16,17000	
	B069-2A9P	m3	Formigó d'ús no estructural HNE-15/P/40 de resistència a compressió 15 N/mm2, consistència plàstica i grandària màxima del granulat 40 mm	0,0737	x	77,54000	=	5,71470	
					Subtotal:			22,39075	22,39075
				DESPESES AUXILIARS		1,50	%		0,12082
				COST DIRECTE					30,56602
				DESPESES INDIRECTES		0,00	%		0,00000
				COST EXECUCIÓ MATERIAL					**30,56602**

PARTIDES D'OBRA

NÚM	CODI	UA	DESCRIPCIÓ						PREU
P-33	**P9E1-V6R2**	m2	Paviment de panot per a vorera de color de 20x20x4 cm, classe 1a, preu alt, sobre suport de 3 cm de morter amb additius, col·locat a truc de maceta amb morter mixt 1:2:10 i beurada de color amb ciment blanc de ram de paleta	**Rend.:**	**1,000**			**44,53**	**€**

				Unitats		Preu		Parcial	Import
Ma d'obra									
	A0D-0007	h	Manobre	0,43995	/R x	19,68000	=	8,65822	
	A0F-000S	h	Oficial 1a d'obra pública	0,5796	/R x	23,63000	=	13,69595	
					Subtotal:			22,35417	22,35417
Materials									
	B011-05ME	m3	Aigua	0,001	x	1,99000	=	0,00199	
	B9E2-0HOT	m2	Panot de color de 20x20x4 cm, classe 1a, preu alt	1,020	x	10,49000	=	10,69980	
	B083-06UD	kg	Colorant en pols per a formigó	0,255	x	3,63000	=	0,92565	
	B055-065W	t	Ciment blanc de ram de paleta BL 22,5 X segons UNE 80305, en sacs	0,00306	x	220,32000	=	0,67418	
	B07G-0MR9	m3	Morter de ciment amb ciment pòrtland CEM I i sorra, amb additiu inclusor aire/plastificant i 250 kg/m3 de ciment, amb una proporció en volum 1:6 i 5 N/mm2 de resistència a compressió, elaborat a l'obra	0,0306	x	93,79150	=	2,87002	
	B07F-0LT6	m3	Morter mixt de ciment pòrtland amb filler calcari CEM II/B-L, calç i sorra, amb 200 kg/m3 de ciment, amb una proporció en volum 1:2:10 i 2,5 N/mm2 de resistència a compressió, elaborat a l'obra	0,0315	x	211,78067	=	6,67109	
					Subtotal:			21,84273	21,84273
				DESPESES AUXILIARS		1,50	%		0,33531
				COST DIRECTE					44,53221
				DESPESES INDIRECTES		0,00	%		0,00000
				COST EXECUCIÓ MATERIAL					**44,53221**

NÚM	CODI	UA	DESCRIPCIÓ						PREU
P-34	**P9GG-4Y5D**	m3	Paviment de formigó per a paviments HF-3,5 MPa de resistència a flexotracció i consistència plàstica, sense additius, escampat des de camió, estesa i vibratge mecànic i acabat ratllat manual	**Rend.:**	**1,000**			**108,62**	**€**

				Unitats		Preu		Parcial	Import
Ma d'obra									
	A0D-0007	h	Manobre	0,240	/R x	19,68000	=	4,72320	
	A0F-000S	h	Oficial 1a d'obra pública	0,077	/R x	23,63000	=	1,81951	
					Subtotal:			6,54271	6,54271
Maquinària									
	C175-00G6	h	Estenedora per a paviments de formigó	0,033	/R x	80,31000	=	2,65023	
					Subtotal:			2,65023	2,65023
Materials									
	B06B-12QK	m3	Formigó per a paviments HF-3,5 MPa de resistència a flexotracció i consistència plàstica	1,050	x	94,60000	=	99,33000	

PARTIDES D'OBRA

NÚM	CODI	UA	DESCRIPCIÓ	PREU

				Subtotal:			99,33000	99,33000
				DESPESES AUXILIARS	1,50	%		0,09814
				COST DIRECTE				108,62108
				DESPESES INDIRECTES	0,00	%		0,00000
				COST EXECUCIÓ MATERIAL				**108,62108**

P-35 **P9GG-4YTA** m3 Paviment de formigó per a paviments HF-3,5 MPa de resistència a flexotracció i consistència plàstica, sense additius, escampat des de camió, estesa i vibratge mecànic i acabat remolinat mecànic **Rend.: 1,000** **109,07** €

				Unitats		Preu		Parcial	Import
Ma d'obra									
	A0F-000S	h	Oficial 1a d'obra pública	0,117	/R x	23,63000	=	2,76471	
	A0D-0007	h	Manobre	0,200	/R x	19,68000	=	3,93600	
					Subtotal:			6,70071	6,70071
Maquinària									
	C175-00G6	h	Estenedora per a paviments de formigó	0,033	/R x	80,31000	=	2,65023	
	C20L-00DO	h	Remolinador mecànic	0,050	/R x	5,72000	=	0,28600	
					Subtotal:			2,93623	2,93623
Materials									
	B06B-12QK	m3	Formigó per a paviments HF-3,5 MPa de resistència a flexotracció i consistència plàstica	1,050	x	94,60000	=	99,33000	
					Subtotal:			99,33000	99,33000
				DESPESES AUXILIARS		1,50	%		0,10051
				COST DIRECTE					109,06745
				DESPESES INDIRECTES		0,00	%		0,00000
				COST EXECUCIÓ MATERIAL					**109,06745**

P-36 **PA_FONES01** u Partida per a la col·locació d'estructura tubular sobre pilars amb mitjans mecànics **Rend.: 1,000** **3.407,52** €

				Unitats		Preu		Parcial	Import
Maquinària									
	C15G-HKHF	h	Grua autopropulsada de 60 a 100 t	24,000	/R x	141,98000	=	3.407,52000	
					Subtotal:			3.407,52000	3.407,52000
				COST DIRECTE					3.407,52000
				DESPESES INDIRECTES		0,00	%		0,00000
				COST EXECUCIÓ MATERIAL					**3.407,52000**

PARTIDES D'OBRA

NÚM	CODI	UA	DESCRIPCIÓ		PREU
P-37	**PA_SIS01**	pa	Seguretat i Salut, a partir del pressupost de l'Estudi de Seguretat i Salut.	**Rend.: 1,000**	**1.000,00 €**

COST DIRECTE		1.000,00000
DESPESES INDIRECTES	0,00 %	0,00000
COST EXECUCIÓ MATERIAL		**1.000,0000**

NÚM	CODI	UA	DESCRIPCIÓ		PREU
P-38	**PD16-HAWZ**	m	Baixant de tub de xapa de zinc-titani amb unió longitudinal plegada, de diàmetre nominal 120 mm i de 0,6 mm de gruix, incloses les peces especials i fixat mecànicament amb brides	**Rend.: 1,000**	**34,58 €**

				Unitats		Preu		Parcial	Import
Ma d'obra									
	A01-FEP3	h	Ajudant col·locador	0,280	/R x	21,09000	=	5,90520	
	A0F-000D	h	Oficial 1a col·locador	0,280	/R x	23,63000	=	6,61640	
					Subtotal:			12,52160	12,52160
Materials									
	BD11-H4Y7	u	Brida de xapa d'acer galvanitzat zincat per a tub de zinc-titani de diàmetre nominal 120 mm	0,550	x	1,31000	=	0,72050	
	BDY1-0LMJ	u	Element de muntatge per a baixant de tub de planxa de zinc-titani de DN 120 mm i 0,6 mm de gruix	1,000	x	1,22000	=	1,22000	
	BD18-H6AG	m	Tub de xapa de zinc-titani amb unió longitudinal plegada, de diàmetre nominal 120 mm i de 0,6 mm de gruix	1,400	x	10,89000	=	15,24600	
	BDW1-1C2T	u	Accessori per a baixant de tub de zinc titani de DN 120 mm i 0,6 mm de gruix	0,330	x	14,20000	=	4,68600	
					Subtotal:			21,87250	21,87250

DESPESES AUXILIARS	1,50 %	0,18782
COST DIRECTE		34,58192
DESPESES INDIRECTES	0,00 %	0,00000
COST EXECUCIÓ MATERIAL		**34,58192**

NÚM	CODI	UA	DESCRIPCIÓ		PREU
P-39	**PDG4-M98D**	m	Canalització amb dos tubs de PVC corrugat de diàmetre nominal DN80 i dau de recobriment de 40x30 cm amb formigó d'ús no estructural HNE-20/P/20 de resistència a compressió 20 N/mm2, consistència plàstica i grandària màxima del granulat 20 mm, fil guia a cada tub, part proporcional d'accessoris d'unió, separadors i obturadors, amb picó vibrant de combustible	**Rend.: 1,000**	**16,12 €**

				Unitats		Preu		Parcial	Import
Ma d'obra									
	A0D-0007	h	Manobre	0,024	/R x	19,68000	=	0,47232	
	A0F-000B	h	Oficial 1a	0,012	/R x	23,63000	=	0,28356	
					Subtotal:			0,75588	0,75588
Materials									
	BG2Q-1KTJ	m	Tub corbable corrugat de PVC, de 80 mm de diàmetre nominal, aïllant i no propagador de la flama, resistència a l'impacte de 6 J, resistència a	2,100	x	1,87000	=	3,92700	

PARTIDES D'OBRA

NÚM	CODI	UA	DESCRIPCIÓ						PREU
			compressió de 250 N, per a canalitzacions soterrades						
	B069-I4H8	m3	Formigó d'ús no estructural HNE-20/P/20 de resistència a compressió 20 N/mm2, consistència plàstica i grandària màxima del granulat 20 mm	0,132	x	79,92000	=	10,54944	
	BDG2-34UA	m	Fil guia per a conductes de canalitzacions de serveis, de nylon, de 5 mm de gruix	2,040	x	0,15000	=	0,30600	
	BDG3-34IM	u	Part proporcional de separadors, conectors i obturadors de canalitzacions de serveis de 80 mm de diàmetre nominal	2,020	x	0,28000	=	0,56560	
						Subtotal:		15,34804	15,34804
				DESPESES AUXILIARS		1,50	%		0,01134
				COST DIRECTE					16,11526
				DESPESES INDIRECTES		0,00	%		0,00000
				COST EXECUCIÓ MATERIAL					**16,11526**

P-40 **PDK1-DX9W** u Bastiment quadrat i tapa quadrat de fosa dúctil per a pericó de serveis, recolzada, pas lliure de 420x420 mm i classe B125 segons norma UNE-EN 124, col·locada amb morter per a ram de paleta **Rend.: 1,000** **60,92** €

				Unitats		Preu		Parcial	Import
Ma d'obra									
	A0F-000T	h	Oficial 1a paleta	0,350	/R x	23,63000	=	8,27050	
	A0D-0007	h	Manobre	0,350	/R x	19,68000	=	6,88800	
						Subtotal:		15,15850	15,15850
Materials									
	B07L-1PY6	t	Morter per a ram de paleta, classe M 5 (5 N/mm2), en sacs, de designació (G) segons norma UNE-EN 998-2	0,0042	x	53,55000	=	0,22491	
	BDK5-1KHB	u	Bastiment quadrat i tapa quadrat de fosa dúctil per a pericó de serveis, recolzada, pas lliure de 420x420 mm i classe B125 segons norma UNE-EN 124	1,000	x	45,31000	=	45,31000	
						Subtotal:		45,53491	45,53491
				DESPESES AUXILIARS		1,50	%		0,22738
				COST DIRECTE					60,92079
				DESPESES INDIRECTES		0,00	%		0,00000
				COST EXECUCIÓ MATERIAL					**60,92079**

P-41 **PDK4-LP57** u Pericó de registre de formigó prefabricat sense fons de 40x40x45 cm, per a instal·lacions de serveis, col·locat sobre solera de formigó formigó d'ús no estructural HNE-20/B/40 de resistència a compressió 20 N/mm2, consistència tova i grandària màxima del granulat 40 mm de 15 cm de gruix i reblert lateral amb terra de la mateixa excavació **Rend.: 1,000** **62,59** €

				Unitats		Preu		Parcial	Import
Ma d'obra									
	A0D-0007	h	Manobre	1,000	/R x	19,68000	=	19,68000	

JUSTIFICACIÓ DE PREUS

PARTIDES D'OBRA

NÚM	CODI	UA	DESCRIPCIÓ						PREU
	A0F-000S	h	Oficial 1a d'obra pública	0,500	/R x	23,63000	=	11,81500	
					Subtotal:			31,49500	31,49500
Maquinària									
	C152-003B	h	Camió grua	0,200	/R x	56,50000	=	11,30000	
					Subtotal:			11,30000	11,30000
Materials									
	BDK2-1KNI	u	Pericó de registre de formigó prefabricat sense fons de 40x40x45 cm, per a instal·lacions de serveis	1,000	x	14,84000	=	14,84000	
	B069-I6LP	m3	Formigó d'ús no estructural HNE-20/B/40 de resistència a compressió 20 N/mm2, consistència tova i grandària màxima del granulat 40 mm	0,0567	x	79,06000	=	4,48270	
					Subtotal:			19,32270	19,32270
			DESPESES AUXILIARS			1,50	%		0,47243
			COST DIRECTE						62,59013
			DESPESES INDIRECTES			0,00	%		0,00000
			COST EXECUCIÓ MATERIAL						**62,59013**

P-42 **PG33-E6KY** m Cable amb conductor de coure de tensió assignada0,6/1 kV, de designació RV-K, construcció segons norma UNE 21123-2, tetrapolar, de secció 4x6 mm2, amb coberta del cable de PVC, classe de reacció al foc Eca segons la norma UNE-EN 50575, col·locat en tub **Rend.: 1,000** **5,48** €

				Unitats		Preu		Parcial	Import
Ma d'obra									
	A0F-000E	h	Oficial 1a electricista	0,040	/R x	24,43000	=	0,97720	
	A01-FEPD	h	Ajudant electricista	0,040	/R x	21,05000	=	0,84200	
					Subtotal:			1,81920	1,81920
Materials									
	BG33-G2RM	m	Cable amb conductor de coure de tensió assignada0,6/1 kV, de designació RV-K, construcció segons norma UNE 21123-2, tetrapolar, de secció 4x6 mm2, amb coberta del cable de PVC, classe de reacció al foc Eca segons la norma UNE-EN 50575	1,020	x	3,56000	=	3,63120	
					Subtotal:			3,63120	3,63120
			DESPESES AUXILIARS			1,50	%		0,02729
			COST DIRECTE						5,47769
			DESPESES INDIRECTES			0,00	%		0,00000
			COST EXECUCIÓ MATERIAL						**5,47769**

JUSTIFICACIÓ DE PREUS

PARTIDES D'OBRA

NÚM	CODI	UA	DESCRIPCIÓ		PREU	
P-43	**PHM2-DBEW**	u	Recol·locació de farola existent de secció circular de fins a 6 m d'alçària, placa d'ancoratge quadrada de 400x400 mm i 10 mm de gruix amb 4 cartel·les de reforç i 4 forats colissos per a perns M22, amb anella de reforç en la base de 350 mm d'alçària i 4 mm de gruix, fixat mecànicament als perns de la fonamentació, inclòs: - excavació de pou aïllat de fins a 2 m de fondària, en terreny no classificat, amb mitjans mecànics, de .8 x 0.8 x 1 m (amplària x llargària x fondària) - fonamentació de formigó en massa HM - 20 / B / 20 / X0 amb una quantitat de ciment de 200 kg/m3 i relació aigua ciment =< 0.6, de .8 x 0.8 x (amplària x llargària x alçària) - de tub corbable corrugat de polietilè, de doble capa, llisa la interior i corrugada l'exterior, de 90 mm de diàmetre nominal, aïllant i no propagador de la flama, resistència a l'impacte de 20 J, resistència a compressió de 450 N, muntat com a canalització soterrada - tub flexible corrugat de PVC, de 32 mm de diàmetre nominal, aïllant i no propagador de la flama, resistència a l'impacte d'1 J, resistència a compressió de 320 N i una rigidesa dielèctrica de 2000 V, muntat encastat - conductor de coure nu, unipolar de secció 1x35 mm2, muntat superficialment - placa de connexió a terra d'acer, quadrada (massissa), de superfície 0,3 m2, de 3 mm de gruix i soterrada - cable amb conductor de coure de tensió assignada0,6/1 kV, de designació RV-K, construcció segons norma UNE 21123-2, tripolar, de secció 3x2,5 mm2, amb coberta del cable de PVC, classe de reacció al foc Eca segons la norma UNE-EN 50575	**Rend.: 1,000**	**458,32**	**€**

				Unitats		Preu		Parcial	Import
Ma d'obra									
	A01-FEPD	h	Ajudant electricista	1,504	/R x	21,05000	=	31,65920	
	A0D-0007	h	Manobre	0,250	/R x	19,68000	=	4,92000	
	A0F-000E	h	Oficial 1a electricista	1,220	/R x	24,43000	=	29,80460	
					Subtotal:			66,38380	66,38380
Maquinària									
	C150-002X	h	Camió cistella de 10 m d'alçària com a màxim	0,530	/R x	50,47000	=	26,74910	
	C152-003B	h	Camió grua	0,530	/R x	56,50000	=	29,94500	
	C13C-00LP	h	Retroexcavadora sobre pneumàtics de 8 a 10 t	0,250	/R x	53,06000	=	13,26500	
					Subtotal:			69,95910	69,95910
Materials									
	B06F1-I4HH	m3	Formigó en massa HM - 20 / B / 10 / X0 amb una quantitat de ciment de 200 kg/m3 i relació aigua ciment =< 0.6	1,075	x	93,91000	=	100,95325	
	BG33-G2RB	m	Cable amb conductor de coure de tensió assignada0,6/1 kV, de designació RV-K, construcció segons norma UNE 21123-2, tripolar, de secció 3x2,5 mm2, amb coberta del cable de PVC, classe de reacció al foc Eca segons la norma UNE-EN 50575	10,000	x	1,33000	=	13,30000	

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NÚM	CODI	UA	DESCRIPCIÓ						PREU
	BG3I-06W3	m	Conductor de coure nu, unipolar de secció 1x35 mm2	10,000	x	2,29000	=	22,90000	
	BGD2-06US	u	Placa de connexió a terra d'acer quadrada (massissa), de 0,3 m2 de superfície i de 3 mm de gruix	2,000	x	55,51000	=	111,02000	
	BG2Q-1KTE	m	Tub corbable corrugat de polietilè, de doble capa, llisa la interior i corrugada l'exterior, de 90 mm de diàmetre nominal, aïllant i no propagador de la flama, resistència a l'impacte de 20 J, resistència a compressió de 450 N, per a canalitzacions soterrades	5,000	x	2,39000	=	11,95000	
	BGYD-0B2X	u	Part proporcional d'elements especials per a plaques de connexió a terra	4,000	x	4,95000	=	19,80000	
	BHW8-06IY	u	Part proporcional d'accessoris per a columnes	1,000	x	41,06000	=	41,06000	
						Subtotal:		320,98325	320,98325
				DESPESES AUXILIARS		1,50	%		0,99576
				COST DIRECTE					458,32191
				DESPESES INDIRECTES		0,00	%		0,00000
				COST EXECUCIÓ MATERIAL					**458,32191**

P-44 **PHN8-E7Y6** u Reorientació de llumenera existent per a vials, acoblada al bàcul **Rend.: 1,000** **33,82** €

				Unitats		Preu		Parcial	Import
Ma d'obra									
	A0F-000E	h	Oficial 1a electricista	0,350	/R x	24,43000	=	8,55050	
	A01-FEPD	h	Ajudant electricista	0,350	/R x	21,05000	=	7,36750	
						Subtotal:		15,91800	15,91800
Maquinària									
	C150-002X	h	Camió cistella de 10 m d'alçària com a màxim	0,350	/R x	50,47000	=	17,66450	
						Subtotal:		17,66450	17,66450
				DESPESES AUXILIARS		1,50	%		0,23877
				COST DIRECTE					33,82127
				DESPESES INDIRECTES		0,00	%		0,00000
				COST EXECUCIÓ MATERIAL					**33,82127**

P-45 **PR67-8ZSN** u Trasplantament dins de l'obra d'arbre fins a 3.5 m d'alçària de tronc, inclou repicat amb retroexcavadora i mitjans manuals, formació de pa de terra amb mitjans manuals, excavació de clot de plantació de 120x120x60 cm amb retroexcavadora, plantació amb camió grua en el nou lloc d'ubicació, reblert del clot amb 50% de sorra, 25% de terra de l'excavació i 25% de compost, primer reg i càrrega de les terres sobrants a camió. **Rend.: 1,000** **317,95** €

				Unitats		Preu		Parcial	Import
Ma d'obra									
	A0F-0011	h	Oficial 1a jardiner especialista en arboricultura	0,250	/R x	40,16000	=	10,04000	
	A01-FEPJ	h	Ajudant jardiner	1,600	/R x	29,10000	=	46,56000	

JUSTIFICACIÓ DE PREUS

PARTIDES D'OBRA

NÚM	CODI	UA	DESCRIPCIÓ					PREU
				Subtotal:			56,60000	56,60000
Maquinària								
	C154-003N	h	Camió per a transport de 7 t	0,250	/R x	41,84000 =	10,46000	
	C13C-00LP	h	Retroexcavadora sobre pneumàtics de 8 a 10 t	1,5095	/R x	53,06000 =	80,09407	
	C151-0032	h	Camió cisterna de 10 m3	0,160	/R x	60,75000 =	9,72000	
	C152-003B	h	Camió grua	0,500	/R x	56,50000 =	28,25000	
				Subtotal:			128,52407	128,52407
Materials								
	B011-05ME	m3	Aigua	0,170	x	1,99000 =	0,33830	
	B03L-05MY	t	Sorra de riu rentada de 0.1 a 0.5 mm, subministrada en sacs de 0,8 m3	1,7163	x	74,71000 =	128,22477	
	BR32-21DG	m3	Compost de classe I, d'origen vegetal, segons NTJ 05C, subministrat en sacs de 0,8 m3	0,0541	x	52,70000 =	2,85107	
				Subtotal:			131,41414	131,41414
			DESPESES AUXILIARS		2,50 %			1,41500
			COST DIRECTE					317,95321
			DESPESES INDIRECTES		0,00 %			0,00000
			COST EXECUCIÓ MATERIAL					**317,95321**

AMIDAMENTS

AMIDAMENTS

Obra 01 PRESSUPOST PRE_COBERTA TEMPLE
Capítol 01 ENDERROCS I DEMOLICIONS

NUM.	CODI	UA	DESCRIPCIÓ
1	P2146-DJ2J	m2	Demolició de paviment de formigó de fins a 20 cm de gruix, d'amplària més de 2 m amb retroexcavadora amb martell trencador i càrrega sobre camió amb mitjans mecànics

Num.	Text	Tipus	[C]	[D]	[E]	[F]	TOTAL	Fórmula
1	Pista		177,110				177,110	C#*D#*E#*F#

TOTAL AMIDAMENT **177,110**

NUM.	CODI	UA	DESCRIPCIÓ
2	P2147-DJ5U	m	Demolició de rigola de formigó, inclòs la base, amb compressor i càrrega mecànica sobre camió

Num.	Text	Tipus	[C]	[D]	[E]	[F]	TOTAL	Fórmula
1			32,500				32,500	C#*D#*E#*F#

TOTAL AMIDAMENT **32,500**

NUM.	CODI	UA	DESCRIPCIÓ
3	P2148-49L9	m	Demolició de vorada, inclòs la base, col·locada sobre formigó, amb martell trencador muntat sobre retroexcavadora i càrrega manual i mecànica de runa sobre camió o contenidor

Num.	Text	Tipus	[C]	[D]	[E]	[F]	TOTAL	Fórmula
1	Tablón		104,000				104,000	C#*D#*E#*F#

TOTAL AMIDAMENT **104,000**

NUM.	CODI	UA	DESCRIPCIÓ
4	P2146-DJ4I	m2	Demolició de paviment de panots col·locats sobre base de formigó de fins a 20 cm de gruix, inclòs la demolició de la base, d'amplària fins a 2 m amb retroexcavadora amb martell trencador i càrrega sobre camió amb mitjans mecànics

Num.	Text	Tipus	[C]	[D]	[E]	[F]	TOTAL	Fórmula
1	Vorada		43,200				43,200	C#*D#*E#*F#

TOTAL AMIDAMENT **43,200**

NUM.	CODI	UA	DESCRIPCIÓ
5	P21DH-8GXF	u	Desmuntatge de llumenera, columna exterior, accessoris i elements de subjecció, de < 12 m d'alçària, com a màxim, enderroc de fonament de formigó a mà i amb martell trencador sobre retroexcavadora, aplec per a posterior aprofitament i càrrega manual i mecànica de runa sobre camió o contenidor

Num.	Text	Tipus	[C]	[D]	[E]	[F]	TOTAL	Fórmula
1	Bacul esixtent		3,000				3,000	C#*D#*E#*F#

TOTAL AMIDAMENT **3,000**

NUM.	CODI	UA	DESCRIPCIÓ
6	P21DH-8GX9	u	Desmuntatge de columna exterior, accessoris i elements de subjecció, de fins a 6 m d'alçària, com a màxim, enderroc de fonament de formigó a mà i amb compressor, aplec per a posterior aprofitament i càrrega manual de runa sobre camió o contenidor

Num.	Text	Tipus	[C]	[D]	[E]	[F]	TOTAL	Fórmula
1	Farola Existent		3,000				3,000	C#*D#*E#*F#

TOTAL AMIDAMENT **3,000**

NUM.	CODI	UA	DESCRIPCIÓ
7	P21DH-8GXH	u	Desmuntatge de llumenera, accessoris i elements de subjecció, de < 12 m d'alçària, com a màxim, aplec per a posterior aprofitament

AMIDAMENTS

Num.	Text	Tipus	[C]	[D]	[E]	[F]	TOTAL	Fórmula
1	LLumeneres existents		11,000				11,000	C#*D#*E#*F#

TOTAL AMIDAMENT **11,000**

8 P21Q0-H8EJ u Desmuntatge d'element d'equipament fix esportiu, de 500 kg de pes com a màxim i d'una alçària de 5 m com a màxim, amb mitjans manuals i mecànics, aplec de materials per a la seva reutilització i reposició de paviment

Num.	Text	Tipus	[C]	[D]	[E]	[F]	TOTAL	Fórmula
1	Canasta minibasquet		6,000				6,000	C#*D#*E#*F#

TOTAL AMIDAMENT **6,000**

9 PR67-8ZSN u Trasplantament dins de l'obra d'arbre fins a 3.5 m d'alçària de tronc, inclou repicat amb retroexcavadora i mitjans manuals, formació de pa de terra amb mitjans manuals, excavació de clot de plantació de 120x120x60 cm amb retroexcavadora, plantació amb camió grua en el nou lloc d'ubicació, reblert del clot amb 50% de sorra, 25% de terra de l'excavació i 25% de compost, primer reg i càrrega de les terres sobrants a camió.

Num.	Text	Tipus	[C]	[D]	[E]	[F]	TOTAL	Fórmula
1			2,000				2,000	C#*D#*E#*F#

TOTAL AMIDAMENT **2,000**

10 P214W-FEMM m Tall en paviment de formigó de 15 cm de fondària com a mínim amb màquina tallajunts amb disc de diamant per a paviment, per a delimitar la zona a demolir

Num.	Text	Tipus	[C]	[D]	[E]	[F]	TOTAL	Fórmula
1	Pista		45,700				45,700	C#*D#*E#*F#
2			56,900	3,000			170,700	C#*D#*E#*F#
3			4,200	3,000			12,600	C#*D#*E#*F#
4			4,900	3,000			14,700	C#*D#*E#*F#
5			4,000	5,000			20,000	C#*D#*E#*F#
6			2,200				2,200	C#*D#*E#*F#

TOTAL AMIDAMENT **265,900**

Obra 01 PRESSUPOST PRE_COBERTA TEMPLE
Capítol 02 MOVIMENTS DE TERRES

NUM.	CODI	UA	DESCRIPCIÓ

1 P221B-EL71 m3 Excavació de rasa i pou de fins a 2 m de fondària, en terreny compacte (SPT 20-50), realitzada amb retroexcavadora de combustible i càrrega mecànica sobre camió

Num.	Text	Tipus	[C]	[D]	[E]	[F]	TOTAL	Fórmula
1	Excavació fonamentació		116,590				116,590	C#*D#*E#*F#
2			13,510				13,510	C#*D#*E#*F#
3			17,670				17,670	C#*D#*E#*F#
4			3,530				3,530	C#*D#*E#*F#
5	Extra profunditat		170,500	0,300			51,150	C#*D#*E#*F#

TOTAL AMIDAMENT **202,450**

Obra 01 PRESSUPOST PRE_COBERTA TEMPLE
Capítol 03 FONAMENTACIÓ

NUM.	CODI	UA	DESCRIPCIÓ
1	P3Z3-D52S	m2	Capa de neteja i anivellament 10 cm de gruix amb formigó de neteja, amb una dosificació de 150 kg/m3 de ciment, consistència tova i grandària màxima del granulat 20 mm, HL-150/B/20, abocat des de camió

Num.	Text	Tipus	[C]	[D]	[E]	[F]	TOTAL	Fórmula
1	Fonamentació		170,500				170,500	C#*D#*E#*F#

TOTAL AMIDAMENT **170,500**

2	P3F2-JH8K	m3	Formigonament per a enceps, amb formigó per armarHA - 25 / P / 20 / IIa amb una quantitat de ciment de 275 kg/m3 i relació aigua ciment =< 0.6, abocat amb bomba en obres d'enginyeria civil

Num.	Text	Tipus	[C]	[D]	[E]	[F]	TOTAL	Fórmula
1	Sabates aïlllades		116,590				116,590	C#*D#*E#*F#
2	vigues centradores		17,670				17,670	C#*D#*E#*F#

TOTAL AMIDAMENT **134,260**

3	P3F0-D53Z	kg	Armadura per a enceps AP500 S en barres de diàmetre fins a 20 mm, d'acer en barres corrugades B500S de límit elàstic >= 500 N/mm2

Num.	Text	Tipus	[C]	[D]	[E]	[F]	TOTAL	Fórmula
1	Sabates aïlllades		4.861,260				4.861,260	C#*D#*E#*F#
2	vigues centradores		2.579,190				2.579,190	C#*D#*E#*F#

TOTAL AMIDAMENT **7.440,450**

4	P930-11ABR	m3	Base per a paviment de formigó d'ús no estructural HNE-15/B/20 de resistència a compressió 15 N/mm2, consistència tova i grandària màxima del granulat 20 mm, abocat des de camió amb estesa i piconatge manual, acabat reglejat

Num.	Text	Tipus	[C]	[D]	[E]	[F]	TOTAL	Fórmula
1	Base paviment formigó		170,500	0,350			59,675	C#*D#*E#*F#

TOTAL AMIDAMENT **59,675**

Obra 01 PRESSUPOST PRE_COBERTA TEMPLE
Capítol 04 ESTRUCTURA I COBERTA

NUM.	CODI	UA	DESCRIPCIÓ
1	P542-8ZZV	m2	Coberta amb perfil nervat de planxa d'acer per a cobertes galvanitzada i lacada, amb 4 nervis separats entre 260 i 275 mm i una alçària entre 30 i 35 mm, de 0,6 mm de gruix, amb una inèrcia entre 8 i 9 cm4 i una massa superficial entre 5 i 6 kg/m2, acabat llis de color estàndard, col·locat amb fixacions mecàniques. Inclou part proporcional de vora perimetral per a coberta inclinada, amb xapa plegada d'acer galvanitzat, de 0,6,0 mm d'espessor, 40 cm de desenvolupament i 3 plecs i canaló per a coberta inclinada, amb xapa plegada d'acer galvanitzat prelacat, de 1,0 mm d'espessor, 70 cm de desenvolupament i 4 plecs. Inclús accessoris de fixació de les peces a les plaques, massilla de base neutra monocomponent per closa de juntes i connexió a les baixants.

Num.	Text	Tipus	[C]	[D]	[E]	[F]	TOTAL	Fórmula
1	coberta		1.341,500				1.341,500	C#*D#*E#*F#

TOTAL AMIDAMENT **1.341,500**

2	P5Z50-A8I1	m2	Subministrament i muntatge d'estructura galvanitza en calent d'acer S235, composta d'una retícula espacial de barres tubulars (de Ø40x3 mm a Ø60x3 mm) connectades entre elles mitjançant unions caragolades a nusos de 8 eixos amb xapes de gruix 6mm, 5mm i 4mm solapades parcialment entre elles, segons disseny comunitari ÉS 1095330 O, O 201300974 i ÉS 1095305 O, O 201300985, formant mòduls de 1,3 metros, connectada a pilars

mitjançant caragols de M27 qualitat 8.8, per a cobrir llums superiors a 10 m. Tota fabricada, subministrada i instal·lada sota la norma UNE 1090.

Num.	Text	Tipus	[C]	[D]	[E]	[F]	TOTAL	Fórmula
1	Coberta		1.341,500				1.341,500	C#*D#*E#*F#

TOTAL AMIDAMENT **1.341,500**

3 P44C-DP13 kg

Acer S275JR segons UNE-EN 10025-2, per a pilars formats per peça simple, en perfils tubulars o laminats en calent sèrie IPN, IPE, HEB, HEA, HEM i UPN, treballat a taller i amb una capa d'imprimació antioxidant, col·locat a l'obra amb soldadura

Num.	Text	Tipus	[C]	[D]	[E]	[F]	TOTAL	Fórmula
1	Pilars, vigues i redons		30.892,560				30.892,560	C#*D#*E#*F#

TOTAL AMIDAMENT **30.892,560**

4 P446-DM8A kg

Acer S275JR segons UNE-EN 10025-2, per a elements d'ancoratge formats per peça composta, en perfils laminats en calent sèrie L, LD, T, rodó, quadrat, rectangular i planxa, treballat a taller i galvanitzat, col·locat a l'obra amb cargols

Num.	Text	Tipus	[C]	[D]	[E]	[F]	TOTAL	Fórmula
1	Plaques rigiditzadores		997,260				997,260	C#*D#*E#*F#
2	Perns		277,790				277,790	C#*D#*E#*F#

TOTAL AMIDAMENT **1.275,050**

5 PA_FONES01 u

Partida per a la col·locació d'estructura tubular sobre pilars amb mitjans mecànics

Num.	Text	Tipus	[C]	[D]	[E]	[F]	TOTAL	Fórmula
1			1,000				1,000	C#*D#*E#*F#

TOTAL AMIDAMENT **1,000**

6 PD16-HAWZ m

Baixant de tub de xapa de zinc-titani amb unió longitudinal plegada, de diàmetre nominal 120 mm i de 0,6 mm de gruix, incloses les peces especials i fixat mecànicament amb brides

Num.	Text	Tipus	[C]	[D]	[E]	[F]	TOTAL	Fórmula
1	Baixants		10,100	5,000			50,500	C#*D#*E#*F#

TOTAL AMIDAMENT **50,500**

Obra 01 PRESSUPOST PRE_COBERTA TEMPLE
Capítol 05 PAVIMENTS I TANCAMENTS

NUM.	CODI	UA	DESCRIPCIÓ

1 P9GG-4Y5D m3

Paviment de formigó per a paviments HF-3,5 MPa de resistència a flexotracció i consistència plàstica, sense additius, escampat des de camió, estesa i vibratge mecànic i acabat ratllat manual

Num.	Text	Tipus	[C]	[D]	[E]	[F]	TOTAL	Fórmula
1	Paviment ratllat		91,650	0,150			13,748	C#*D#*E#*F#

TOTAL AMIDAMENT **13,748**

2 P9GG-4YTA m3

Paviment de formigó per a paviments HF-3,5 MPa de resistència a flexotracció i consistència plàstica, sense additius, escampat des de camió, estesa i vibratge mecànic i acabat remolinat mecànic

AMIDAMENTS

Num.	Text	Tipus	[C]	[D]	[E]	[F]	TOTAL	Fórmula
1	Paviment pista		78,500	0,150			11,775	C#*D#*E#*F#
						TOTAL AMIDAMENT	**11,775**	

3 P967-E9W9 m

Peça recta de formigó per a vorades, monocapa, amb secció normalitzada per a vianants A4 20x8 cm, segons UNE 127340, de classe climàtica B, classe resistent a l'abrasió H i classe resistent a flexió S (R-3,5 MPa) segons UNE-EN 1340, col·locada sobre base de formigó no estructural HNE-15/P/40 de 10 a 20 cm d'alçària, i rejuntat amb morter per a ram de paleta

Num.	Text	Tipus	[C]	[D]	[E]	[F]	TOTAL	Fórmula
1	vorada tablón		73,500				73,500	C#*D#*E#*F#
2			3,000				3,000	C#*D#*E#*F#
						TOTAL AMIDAMENT	**76,500**	

4 P976-HH1K m

Rigola de 30 cm d'amplària de peça prefabricada de formigó per a cuneta de 30x12 cm amb canal en V a la cara superior, col·locades amb morter i rejuntades amb beurada de ciment

Num.	Text	Tipus	[C]	[D]	[E]	[F]	TOTAL	Fórmula
1	Rigola		32,800				32,800	C#*D#*E#*F#
						TOTAL AMIDAMENT	**32,800**	

5 P931-10RJI m3

Base de formigó de formigó en massa HM - 20 / B / 20 / X0 amb una quantitat de ciment de 200 kg/m3 i relació aigua ciment =< 0.6, abocat des de camió amb estesa i vibratge manual, amb acabat reglejat

Num.	Text	Tipus	[C]	[D]	[E]	[F]	TOTAL	Fórmula
1	Base panot		43,250	0,150			6,488	C#*D#*E#*F#
						TOTAL AMIDAMENT	**6,488**	

6 P9E1-V6R2 m2

Paviment de panot per a vorera de color de 20x20x4 cm, classe 1a, preu alt, sobre suport de 3 cm de morter amb additius, col·locat a truc de maceta amb morter mixt 1:2:10 i beurada de color amb ciment blanc de ram de paleta

Num.	Text	Tipus	[C]	[D]	[E]	[F]	TOTAL	Fórmula
1	PAv. panot		43,250				43,250	C#*D#*E#*F#
						TOTAL AMIDAMENT	**43,250**	

7 LGA020 U

Porta metàl·lica de xapa ondulada d'acer galvanitzat, de fulla corredissa, dimensions 450x300 cm, perfils rectangulars en cèrcol sòcol inferior realitzat amb xapa grecada de 1,2 mm d'espessor a dues cares, per a accés de vehicles i amb porta per a vianants integrada de 100x210cm. Obertura manual. Inclús pòrtic lateral de sustentació i topall de tancament, col·locació i fixació dels perfils guia inferior amb UPN 100 i quadrat massís de 25x25 mm asseguts amb formigó HM-25/B/20/X0 i rebuts a obra; rodes per lliscament, amb coixinet de greixatge permanent, elements d'ancoratge, ferramentes de seguretat, tancament amb doble pany i accessoris.

Num.	Text	Tipus	[C]	[D]	[E]	[F]	TOTAL	Fórmula
1	Portes corredisses		2,000				2,000	C#*D#*E#*F#
						TOTAL AMIDAMENT	**2,000**	

8 P641-423N m

Clos de d'estructura de característiques similars al pavelló del Temple, format per panells de xapa ondulada d'acer galvanitzat de 1mm d'espesor, amb bastidor electrosoldat i pals de perfil buit d'acer galvanitzat, de secció quadrada 60x60x2 mm i d'entre 3m i 3,3m d'altura, platina de 150x150x10mm amb ancoratge mecànic per expansió M10x160 sobre paviment de formigó. Inclús accessoris per a la fixació d'els panells d'acer als pals metàl·lics.

AMIDAMENTS

Data: 31/03/25 Pàg.: 6

Num.	Text	Tipus	[C]	[D]	[E]	[F]	TOTAL	Fórmula
1	Tancament		141,500				141,500	C#*D#*E#*F#
2	portes		-8,000				-8,000	C#*D#*E#*F#

TOTAL AMIDAMENT **133,500**

Obra 01 PRESSUPOST PRE_COBERTA TEMPLE
Capítol 06 INSTAL·LACIONS
Titol 3 01 ENLLUMENAT

NUM.	CODI	UA	DESCRIPCIÓ
1	P221B-EL71	m3	Excavació de rasa i pou de fins a 2 m de fondària, en terreny compacte (SPT 20-50), realitzada amb retroexcavadora de combustible i càrrega mecànica sobre camió

Num.	Text	Tipus	[C]	[D]	[E]	[F]	TOTAL	Fórmula
1	Rasa enllumenat		34,200	0,400	0,600		8,208	C#*D#*E#*F#
2			2,300	0,400	0,600		0,552	C#*D#*E#*F#

TOTAL AMIDAMENT **8,760**

NUM.	CODI	UA	DESCRIPCIÓ
2	P2255-DPIK	m3	Rebliment i piconatge de rasa d'amplària més de 0,6 i fins a 1,5 m, amb el 50% de sorra i el 50% de terra de la pròpia excavació, en tongades de gruix de fins a 25 cm, utilitzant picó vibrant de combustible, amb compactació del 95% PM

Num.	Text	Tipus	[C]	[D]	[E]	[F]	TOTAL	Fórmula
1	Rasa enllumenat		34,200	0,400	0,600		8,208	C#*D#*E#*F#
2			2,300	0,400	0,600		0,552	C#*D#*E#*F#

TOTAL AMIDAMENT **8,760**

NUM.	CODI	UA	DESCRIPCIÓ
3	PDG4-M98D	m	Canalització amb dos tubs de PVC corrugat de diàmetre nominal DN80 i dau de recobriment de 40x30 cm amb formigó d'ús no estructural HNE-20/P/20 de resistència a compressió 20 N/mm2, consistència plàstica i grandària màxima del granulat 20 mm, fil guia a cada tub, part proporcional d'accessoris d'unió, separadors i obturadors, amb picó vibrant de combustible

Num.	Text	Tipus	[C]	[D]	[E]	[F]	TOTAL	Fórmula
1	Rasa enllumenat		34,200				34,200	C#*D#*E#*F#
2			2,300				2,300	C#*D#*E#*F#

TOTAL AMIDAMENT **36,500**

NUM.	CODI	UA	DESCRIPCIÓ
4	PG33-E6KY	m	Cable amb conductor de coure de tensió assignada0,6/1 kV, de designació RV-K, construcció segons norma UNE 21123-2, tetrapolar, de secció 4x6 mm2, amb coberta del cable de PVC, classe de reacció al foc Eca segons la norma UNE-EN 50575, col·locat en tub

Num.	Text	Tipus	[C]	[D]	[E]	[F]	TOTAL	Fórmula
1	Rasa enllumenat		34,200				34,200	C#*D#*E#*F#
2			2,300				2,300	C#*D#*E#*F#

TOTAL AMIDAMENT **36,500**

NUM.	CODI	UA	DESCRIPCIÓ
5	PDK4-LP57	u	Pericó de registre de formigó prefabricat sense fons de 40x40x45 cm, per a instal·lacions de serveis, col·locat sobre solera de formigó formigó d'ús no estructural HNE-20/B/40 de resistència a compressió 20 N/mm2, consistència tova i grandària màxima del granulat 40 mm de 15 cm de gruix i reblert lateral amb terra de la mateixa excavació

AMIDAMENTS

Num.	Text	Tipus	[C]	[D]	[E]	[F]	TOTAL	Fórmula
1	Pericons enllumenat		3,000				3,000	C#*D#*E#*F#
						TOTAL AMIDAMENT	**3,000**	

6 PDK1-DX9W u Bastiment quadrat i tapa quadrat de fosa dúctil per a pericó de serveis, recolzada, pas lliure de 420x420 mm i classe B125 segons norma UNE-EN 124, col·locada amb morter per a ram de paleta

Num.	Text	Tipus	[C]	[D]	[E]	[F]	TOTAL	Fórmula
1	Pericons enllumenat		3,000				3,000	C#*D#*E#*F#
						TOTAL AMIDAMENT	**3,000**	

7 PHM2-DBEW u Recol·locació de farola existent de secció circular de fins a 6 m d'alçària, placa d'ancoratge quadrada de 400x400 mm i 10 mm de gruix amb 4 cartel·les de reforç i 4 forats colissos per a perns M22, amb anella de reforç en la base de 350 mm d'alçària i 4 mm de gruix, fixat mecànicament als perns de la fonamentació, inclòs:
- excavació de pou aïllat de fins a 2 m de fondària, en terreny no classificat, amb mitjans mecànics, de .8 x 0.8 x 1 m (amplària x llargària x fondària)
- fonamentació de formigó en massa HM - 20 / B / 20 / X0 amb una quantitat de ciment de 200 kg/m3 i relació aigua ciment =< 0.6, de .8 x 0.8 x (amplària x llargària x alçària)
- de tub corbable corrugat de polietilè, de doble capa, llisa la interior i corrugada l'exterior, de 90 mm de diàmetre nominal, aïllant i no propagador de la flama, resistència a l'impacte de 20 J, resistència a compressió de 450 N, muntat com a canalització soterrada
- tub flexible corrugat de PVC, de 32 mm de diàmetre nominal, aïllant i no propagador de la flama, resistència a l'impacte d'1 J, resistència a compressió de 320 N i una rigidesa dielèctrica de 2000 V, muntat encastat
- conductor de coure nu, unipolar de secció 1x35 mm2, muntat superficialment
- placa de connexió a terra d'acer, quadrada (massissa), de superfície 0,3 m2, de 3 mm de gruix i soterrada
- cable amb conductor de coure de tensió assignada0,6/1 kV, de designació RV-K, construcció segons norma UNE 21123-2, tripolar, de secció 3x2,5 mm2, amb coberta del cable de PVC, classe de reacció al foc Eca segons la norma UNE-EN 50575

Num.	Text	Tipus	[C]	[D]	[E]	[F]	TOTAL	Fórmula
1	Faroles existents		3,000				3,000	C#*D#*E#*F#
						TOTAL AMIDAMENT	**3,000**	

8 PHN8-E7Y6 u Reorientació de llumenera existent per a vials, acoblada al bàcul

Num.	Text	Tipus	[C]	[D]	[E]	[F]	TOTAL	Fórmula
1	Baculs existents		5,000				5,000	C#*D#*E#*F#
						TOTAL AMIDAMENT	**5,000**	

Obra 01 PRESSUPOST PRE_COBERTA TEMPLE
Capítol 06 INSTAL·LACIONS
Titol 3 02 IL·LUMINACIÓ PISTA

NUM.	CODI	UA	DESCRIPCIÓ
1	III075	U	Campana LED per a indústria, no regulable, de 278 mm de diàmetre i 162 mm d'altura, de 100 W, alimentació a 220/240 V i 50-60 Hz, amb llum LED SMD, temperatura de color 4000 K, cos d'alumini extrudit de color negre, feix de llum extensiu 120° i difusor de policarbonat, índex d'enlluernament unificat menor de 19, índex de reproducció cromàtica major de 80, flux lluminós 12900 lúmens, grau de protecció IP65, amb cadena d'acer de 1,5 m de longitud. Instal·lació suspesa. Inclou: Replanteig. Muntatge, connexionat i comprovació del seu correcte funcionament. Criteri d'amidament de projecte: Nombre d'unitats previstes, segons documentació gràfica de Projecte. Criteri de mesura d'obra: Es mesurarà el nombre d'unitats realment executades segons especificacions de Projecte.

AMIDAMENTS

Num.	Text	Tipus	[C]	[D]	[E]	[F]	TOTAL	Fórmula
1	Iluminació pista		10,000				10,000	C#*D#*E#*F#

TOTAL AMIDAMENT **10,000**

2 IEI040 U Xarxa elèctrica de distribució interior per a pavelló de 1000 m², composta de: quadre general de comandament i protecció; circuits interiors amb cablejat en safates perforades de PVC rígid: 1 circuit per enllumenat, 1 circuit per preses de corrent; mecanismes gamma bàsica (tecla o tapa i marc: blanc; embellidor: blanc).

Num.	Text	Tipus	[C]	[D]	[E]	[F]	TOTAL	Fórmula
1			1,000				1,000	C#*D#*E#*F#

TOTAL AMIDAMENT **1,000**

Obra 01 PRESSUPOST PRE_COBERTA TEMPLE
Capítol 07 CONTROL DE QUALITAT

NUM.	CODI	UA	DESCRIPCIÓ
1	P060-020H	u	Mostreig, realització del con d'Abrams, elaboració de provetes, cura i determinació de la resistència a tracció per flexió de 3 provetes de formigó amb fibres, segons la norma UNE-EN 14651

Num.	Text	Tipus	[C]	[D]	[E]	[F]	TOTAL	Fórmula
1			1,000				1,000	C#*D#*E#*F#

TOTAL AMIDAMENT **1,000**

2 P0B3-00OE u Determinació de la composició química i de les característiques mecàniques d'una proveta d'acer no aliat laminat en calent, segons la norma UNE-EN 10025-2

Num.	Text	Tipus	[C]	[D]	[E]	[F]	TOTAL	Fórmula
1			1,000				1,000	C#*D#*E#*F#

TOTAL AMIDAMENT **1,000**

3 P0B2-00PJ u Determinació de les característiques mecàniques: resistència a la tracció, límit elàstic, allargament de ruptura i doblegament-desdoblegament d'una proveta d'acer amb característiques especials de ductilitat per a armar formigons, segons la norma UNE 36065

Num.	Text	Tipus	[C]	[D]	[E]	[F]	TOTAL	Fórmula
1			1,000				1,000	C#*D#*E#*F#

TOTAL AMIDAMENT **1,000**

Obra 01 PRESSUPOST PRE_COBERTA TEMPLE
Capítol 08 GESTIÓ DE RESIDUS

NUM.	CODI	UA	DESCRIPCIÓ
1	P2R6-4I5G	m3	Càrrega amb mitjans mecànics i transport de residus inerts o no especials a instal·lació autoritzada de gestió de residus, amb camió per a transport de 12 t, amb un recorregut de més de 10 i fins a 15 km

Num.	Text	Tipus	[C]	[D]	[E]	[F]	TOTAL	Fórmula
1	Demolicions		177,000	0,200			35,400	C#*D#*E#*F#
2	Vorera		42,300	0,200			8,460	C#*D#*E#*F#
3	Rigola i vorada		10,000				10,000	C#*D#*E#*F#

AMIDAMENTS

	Num.	Text	Tipus	[C]	[D]	[E]	[F]	TOTAL	Fórmula
	4	Terres fonamentació		202,450				202,450	C#*D#*E#*F#

TOTAL AMIDAMENT **256,310**

2 P2RA-EU2R m3 Disposició controlada en dipòsit autoritzat inclòs el cànon sobre la deposició controlada dels residus de la construcció, segons la LLEI 8/2008, de residus de formigó inerts amb una densitat 1,45 t/m3, procedents de construcció o demolició, amb codi 17 01 01 segons la Llista Europea de Residus

Num.	Text	Tipus	[C]	[D]	[E]	[F]	TOTAL	Fórmula
1	Paviment de formigó		53,850				53,850	C#*D#*E#*F#

TOTAL AMIDAMENT **53,850**

3 P2RA-EU2T m3 Disposició controlada en dipòsit autoritzat inclòs el cànon sobre la deposició controlada dels residus de la construcció, segons la LLEI 8/2008, de residus de terra inerts amb una densitat 1,6 t/m3, procedents d'excavació, amb codi 17 05 04 segons la Llista Europea de Residus

Num.	Text	Tipus	[C]	[D]	[E]	[F]	TOTAL	Fórmula
1	Fonamentació		202,450				202,450	C#*D#*E#*F#

TOTAL AMIDAMENT **202,450**

Obra 01 PRESSUPOST PRE_COBERTA TEMPLE
Capítol 09 SEGURETAT I SALUT

NUM.	CODI	UA	DESCRIPCIÓ
1	PA_SIS01	pa	Seguretat i Salut, a partir del pressupost de l'Estudi de Seguretat i Salut.

Num.	Text	Tipus	[C]	[D]	[E]	[F]	TOTAL	Fórmula
1	1		1,000				1,000	C#*D#*E#*F#

TOTAL AMIDAMENT **1,000**

PRESSUPOST

PRESSUPOST

Obra 01 Pressupost PRE_COBERTA TEMPLE
Capítol 01 ENDERROCS I DEMOLICIONS

NUM.	CODI	UA	DESCRIPCIÓ	PREU	AMIDAMENT	IMPORT
1	P2146-DJ2J	m2	Demolició de paviment de formigó de fins a 20 cm de gruix, d'amplària més de 2 m amb retroexcavadora amb martell trencador i càrrega sobre camió amb mitjans mecànics (P - 7)	5,06	177,110	896,18
2	P2147-DJ5U	m	Demolició de rigola de formigó, inclòs la base, amb compressor i càrrega mecànica sobre camió (P - 9)	4,56	32,500	148,20
3	P2148-49L9	m	Demolició de vorada, inclòs la base, col·locada sobre formigó, amb martell trencador muntat sobre retroexcavadora i càrrega manual i mecànica de runa sobre camió o contenidor (P - 10)	3,58	104,000	372,32
4	P2146-DJ4I	m2	Demolició de paviment de panots col·locats sobre base de formigó de fins a 20 cm de gruix, inclòs la demolició de la base, d'amplària fins a 2 m amb retroexcavadora amb martell trencador i càrrega sobre camió amb mitjans mecànics (P - 8)	6,03	43,200	260,50
5	P21DH-8GXF	u	Desmuntatge de llumenera, columna exterior, accessoris i elements de subjecció, de < 12 m d'alçària, com a màxim, enderroc de fonament de formigó a mà i amb martell trencador sobre retroexcavadora, aplec per a posterior aprofitament i càrrega manual i mecànica de runa sobre camió o contenidor (P - 13)	143,63	3,000	430,89
6	P21DH-8GX9	u	Desmuntatge de columna exterior, accessoris i elements de subjecció, de fins a 6 m d'alçària, com a màxim, enderroc de fonament de formigó a mà i amb compressor, aplec per a posterior aprofitament i càrrega manual de runa sobre camió o contenidor (P - 12)	83,18	3,000	249,54
7	P21DH-8GXH	u	Desmuntatge de llumenera, accessoris i elements de subjecció, de < 12 m d'alçària, com a màxim, aplec per a posterior aprofitament (P - 14)	30,45	11,000	334,95
8	P21Q0-H8EJ	u	Desmuntatge d'element d'equipament fix esportiu, de 500 kg de pes com a màxim i d'una alçària de 5 m com a màxim, amb mitjans manuals i mecànics, aplec de materials per a la seva reutilització i reposició de paviment (P - 15)	86,16	6,000	516,96
9	PR67-8ZSN	u	Trasplantament dins de l'obra d'arbre fins a 3.5 m d'alçària de tronc, inclou repicat amb retroexcavadora i mitjans manuals, formació de pa de terra amb mitjans manuals, excavació de clot de plantació de 120x120x60 cm amb retroexcavadora, plantació amb camió grua en el nou lloc d'ubicació, reblert del clot amb 50% de sorra, 25% de terra de l'excavació i 25% de compost, primer reg i càrrega de les terres sobrants a camió. (P - 45)	317,95	2,000	635,90
10	P214W-FEMM	m	Tall en paviment de formigó de 15 cm de fondària com a mínim amb màquina tallajunts amb disc de diamant per a paviment, per a delimitar la zona a demolir (P - 11)	7,23	265,900	1.922,46

TOTAL Capítol 01.01 5.767,90

Obra 01 Pressupost PRE_COBERTA TEMPLE
Capítol 02 MOVIMENTS DE TERRES

NUM.	CODI	UA	DESCRIPCIÓ	PREU	AMIDAMENT	IMPORT
1	P221B-EL71	m3	Excavació de rasa i pou de fins a 2 m de fondària, en terreny compacte (SPT 20-50), realitzada amb retroexcavadora de combustible i càrrega mecànica sobre camió (P - 16)	7,59	202,450	1.536,60

TOTAL Capítol 01.02 1.536,60

Obra 01 Pressupost PRE_COBERTA TEMPLE
Capítol 03 FONAMENTACIÓ

PRESSUPOST

NUM.	CODI	UA	DESCRIPCIÓ	PREU	AMIDAMENT	IMPORT
1	P3Z3-D52S	m2	Capa de neteja i anivellament 10 cm de gruix amb formigó de neteja, amb una dosificació de 150 kg/m3 de ciment, consistència tova i grandària màxima del granulat 20 mm, HL-150/B/20, abocat des de camió (P - 23)	10,08	170,500	1.718,64
2	P3F2-JH8K	m3	Formigonament per a enceps, amb formigó per armarHA - 25 / P / 20 / IIa amb una quantitat de ciment de 275 kg/m3 i relació aigua ciment =< 0.6, abocat amb bomba en obres d'enginyeria civil (P - 22)	108,62	134,260	14.583,32
3	P3F0-D53Z	kg	Armadura per a enceps AP500 S en barres de diàmetre fins a 20 mm, d'acer en barres corrugades B500S de límit elàstic >= 500 N/mm2 (P - 21)	1,68	7.440,450	12.499,96
4	P930-11ABR	m3	Base per a paviment de formigó d'ús no estructural HNE-15/B/20 de resistència a compressió 15 N/mm2, consistència tova i grandària màxima del granulat 20 mm, abocat des de camió amb estesa i piconatge manual, acabat reglejat (P - 29)	97,03	59,675	5.790,27
TOTAL	**Capítol**		**01.03**			**34.592,19**

Obra 01 Pressupost PRE_COBERTA TEMPLE
Capítol 04 ESTRUCTURA I COBERTA

NUM.	CODI	UA	DESCRIPCIÓ	PREU	AMIDAMENT	IMPORT
1	P542-8ZZV	m2	Coberta amb perfil nervat de planxa d'acer per a cobertes galvanitzada i lacada, amb 4 nervis separats entre 260 i 275 mm i una alçària entre 30 i 35 mm, de 0,6 mm de gruix, amb una inèrcia entre 8 i 9 cm4 i una massa superficial entre 5 i 6 kg/m2, acabat llis de color estàndard, col·locat amb fixacions mecàniques. Inclou part proporcional de vora perimetral per a coberta inclinada, amb xapa plegada d'acer galvanitzat, de 0,6,0 mm d'espessor, 40 cm de desenvolupament i 3 plecs i canaló per a coberta inclinada, amb xapa plegada d'acer galvanitzat prelacat, de 1,0 mm d'espessor, 70 cm de desenvolupament i 4 plecs. Inclús accessoris de fixació de les peces a les plaques, massilla de base neutra monocomponent per closa de juntes i connexió a les baixants. (P - 26)	14,20	1.341,500	19.049,30
2	P5Z50-A8I1	m2	Subministrament i muntatge d'estructura galvanitza en calent d'acer S235, composta d'una retícula espacial de barres tubulars (de Ø40x3 mm a Ø60x3 mm) connectades entre elles mitjançant unions caragolades a nusos de 8 eixos amb xapes de gruix 6mm, 5mm i 4mm solapades parcialment entre elles, segons disseny comunitari ÉS 1095330 O, O 201300974 i ÉS 1095305 O, O 201300985, formant mòduls de 1,3 metros, connectada a pilars mitjançant caragols de M27 qualitat 8.8, per a cobrir llums superiors a 10 m. Tota fabricada, subministrada i instal·lada sota la norma UNE 1090. (P - 27)	40,09	1.341,500	53.780,74
3	P44C-DP13	kg	Acer S275JR segons UNE-EN 10025-2, per a pilars formats per peça simple, en perfils tubulars o laminats en calent sèrie IPN, IPE, HEB, HEA, HEM i UPN, treballat a taller i amb una capa d'imprimació antioxidant, col·locat a l'obra amb soldadura (P - 25)	2,05	30.892,560	63.329,75
4	P446-DM8A	kg	Acer S275JR segons UNE-EN 10025-2, per a elements d'ancoratge formats per peça composta, en perfils laminats en calent sèrie L, LD, T, rodó, quadrat, rectangular i planxa, treballat a taller i galvanitzat, col·locat a l'obra amb cargols (P - 24)	3,63	1.275,050	4.628,43
5	PA_FONES01	u	Partida per a la col·locació d'estructura tubular sobre pilars amb mitjans mecànics (P - 36)	3.407,52	1,000	3.407,52
6	PD16-HAWZ	m	Baixant de tub de xapa de zinc-titani amb unió longitudinal plegada, de diàmetre nominal 120 mm i de 0,6 mm de gruix, incloses les peces especials i fixat mecànicament amb brides (P - 38)	34,58	50,500	1.746,29

TOTAL	**Capítol**		**01.04**			**145.942,03**
Obra			01	Pressupost PRE_COBERTA TEMPLE		
Capítol			05	PAVIMENTS I TANCAMENTS		
NUM.	CODI	UA	DESCRIPCIÓ	PREU	AMIDAMENT	IMPORT
1	P9GG-4Y5D	m3	Paviment de formigó per a paviments HF-3,5 MPa de resistència a flexotracció i consistència plàstica, sense additius, escampat des de camió, estesa i vibratge mecànic i acabat ratllat manual (P - 34)	108,62	13,748	1.493,31
2	P9GG-4YTA	m3	Paviment de formigó per a paviments HF-3,5 MPa de resistència a flexotracció i consistència plàstica, sense additius, escampat des de camió, estesa i vibratge mecànic i acabat remolinat mecànic (P - 35)	109,07	11,775	1.284,30
3	P967-E9W9	m	Peça recta de formigó per a vorades, monocapa, amb secció normalitzada per a vianants A4 20x8 cm, segons UNE 127340, de classe climàtica B, classe resistent a l'abrasió H i classe resistent a flexió S (R-3,5 MPa) segons UNE-EN 1340, col·locada sobre base de formigó no estructural HNE-15/P/40 de 10 a 20 cm d'alçària, i rejuntat amb morter per a ram de paleta (P - 31)	24,19	76,500	1.850,54
4	P976-HH1K	m	Rigola de 30 cm d'amplària de peça prefabricada de formigó per a cuneta de 30x12 cm amb canal en V a la cara superior, col·locades amb morter i rejuntades amb beurada de ciment (P - 32)	30,57	32,800	1.002,70
5	P931-10RJI	m3	Base de formigó de formigó en massa HM - 20 / B / 20 / X0 amb una quantitat de ciment de 200 kg/m3 i relació aigua ciment =< 0.6, abocat des de camió amb estesa i vibratge manual, amb acabat reglejat (P - 30)	111,43	6,488	722,96
6	P9E1-V6R2	m2	Paviment de panot per a vorera de color de 20x20x4 cm, classe 1a, preu alt, sobre suport de 3 cm de morter amb additius, col·locat a truc de maceta amb morter mixt 1:2:10 i beurada de color amb ciment blanc de ram de paleta (P - 33)	44,53	43,250	1.925,92
7	LGA020	U	Porta metàl·lica de xapa ondulada d'acer galvanitzat, de fulla corredissa, dimensions 450x300 cm, perfils rectangulars en cèrcol sòcol inferior realitzat amb xapa grecada de 1,2 mm d'espessor a dues cares, per a accés de vehicles i amb porta per a vianants integrada de 100x210cm. Obertura manual. Inclús pòrtic lateral de sustentació i topall de tancament, col·locació i fixació dels perfils guia inferior amb UPN 100 i quadrat massís de 25x25 mm asseguts amb formigó HM-25/B/20/X0 i rebuts a obra; rodes per lliscament, amb coixinet de greixatge permanent, elements d'ancoratge, ferramentes de seguretat, tancament amb doble pany i accessoris. (P - 3)	3.130,87	2,000	6.261,74
8	P641-423N	m	Clos de d'estructura de característiques similars al pavelló del Temple, format per panells de xapa ondulada d'acer galvanitzat de 1mm d'espesor, amb bastidor electrosoldat i pals de perfil buit d'acer galvanitzat, de secció quadrada 60x60x2 mm i d'entre 3m i 3,3m d'altura, platina de 150x150x10mm amb ancoratge mecànic per expansió M10x160 sobre paviment de formigó. Inclús accessoris per a la fixació d'els panells d'acer als pals metàl·lics. (P - 28)	91,42	133,500	12.204,57
TOTAL	**Capítol**		**01.05**			**26.746,04**
Obra			01	Pressupost PRE_COBERTA TEMPLE		
Capítol			06	INSTAL·LACIONS		
Titol 3			01	ENLLUMENAT		
NUM.	CODI	UA	DESCRIPCIÓ	PREU	AMIDAMENT	IMPORT
1	P221B-EL71	m3	Excavació de rasa i pou de fins a 2 m de fondària, en terreny compacte (SPT 20-50), realitzada amb retroexcavadora de combustible i càrrega mecànica sobre camió (P - 16)	7,59	8,760	66,49
2	P2255-DPIK	m3	Rebliment i piconatge de rasa d'amplària més de 0,6 i fins a 1,5 m, amb el 50% de sorra i el 50% de terra de la pròpia excavació, en	30,82	8,760	269,98

			tongades de gruix de fins a 25 cm, utilitzant picó vibrant de combustible, amb compactació del 95% PM (P - 17)			
3	PDG4-M98D	m	Canalització amb dos tubs de PVC corrugat de diàmetre nominal DN80 i dau de recobriment de 40x30 cm amb formigó d'ús no estructural HNE-20/P/20 de resistència a compressió 20 N/mm2, consistència plàstica i grandària màxima del granulat 20 mm, fil guia a cada tub, part proporcional d'accessoris d'unió, separadors i obturadors, amb picó vibrant de combustible (P - 39)	16,12	36,500	588,38
4	PG33-E6KY	m	Cable amb conductor de coure de tensió assignada0,6/1 kV, de designació RV-K, construcció segons norma UNE 21123-2, tetrapolar, de secció 4x6 mm2, amb coberta del cable de PVC, classe de reacció al foc Eca segons la norma UNE-EN 50575, col·locat en tub (P - 42)	5,48	36,500	200,02
5	PDK4-LP57	u	Pericó de registre de formigó prefabricat sense fons de 40x40x45 cm, per a instal·lacions de serveis, col·locat sobre solera de formigó formigó d'ús no estructural HNE-20/B/40 de resistència a compressió 20 N/mm2, consistència tova i grandària màxima del granulat 40 mm de 15 cm de gruix i reblert lateral amb terra de la mateixa excavació (P - 41)	62,59	3,000	187,77
6	PDK1-DX9W	u	Bastiment quadrat i tapa quadrat de fosa dúctil per a pericó de serveis, recolzada, pas lliure de 420x420 mm i classe B125 segons norma UNE-EN 124, col·locada amb morter per a ram de paleta (P - 40)	60,92	3,000	182,76
7	PHM2-DBEW	u	Recol·locació de farola existent de secció circular de fins a 6 m d'alçària, placa d'ancoratge quadrada de 400x400 mm i 10 mm de gruix amb 4 cartel·les de reforç i 4 forats colissos per a perns M22, amb anella de reforç en la base de 350 mm d'alçària i 4 mm de gruix, fixat mecànicament als perns de la fonamentació, inclòs: - excavació de pou aïllat de fins a 2 m de fondària, en terreny no classificat, amb mitjans mecànics, de .8 x 0.8 x 1 m (amplària x llargària x fondària) - fonamentació de formigó en massa HM - 20 / B / 20 / X0 amb una quantitat de ciment de 200 kg/m3 i relació aigua ciment =< 0.6, de .8 x 0.8 x (amplària x llargària x alçària) - de tub corbable corrugat de polietilè, de doble capa, llisa la interior i corrugada l'exterior, de 90 mm de diàmetre nominal, aïllant i no propagador de la flama, resistència a l'impacte de 20 J, resistència a compressió de 450 N, muntat com a canalització soterrada - tub flexible corrugat de PVC, de 32 mm de diàmetre nominal, aïllant i no propagador de la flama, resistència a l'impacte d'1 J, resistència a compressió de 320 N i una rigidesa dielèctrica de 2000 V, muntat encastat - conductor de coure nu, unipolar de secció 1x35 mm2, muntat superficialment - placa de connexió a terra d'acer, quadrada (massissa), de superfície 0,3 m2, de 3 mm de gruix i soterrada - cable amb conductor de coure de tensió assignada0,6/1 kV, de designació RV-K, construcció segons norma UNE 21123-2, tripolar, de secció 3x2,5 mm2, amb coberta del cable de PVC, classe de reacció al foc Eca segons la norma UNE-EN 50575 (P - 43)	458,32	3,000	1.374,96
8	PHN8-E7Y6	u	Reorientació de llumenera existent per a vials, acoblada al bàcul (P - 44)	33,82	5,000	169,10

TOTAL Titol 3 **01.06.01** **3.039,46**

Obra 01 Pressupost PRE_COBERTA TEMPLE
Capítol 06 INSTAL·LACIONS
Titol 3 02 IL·LUMINACIÓ PISTA

NUM.	CODI	UA	DESCRIPCIÓ	PREU	AMIDAMENT	IMPORT
1	III075	U	Campana LED per a indústria, no regulable, de 278 mm de diàmetre i 162 mm d'altura, de 100 W, alimentació a 220/240 V i 50-60 Hz, amb llum LED SMD, temperatura de color 4000 K, cos d'alumini extrudit de color negre, feix de llum extensiu 120° i difusor de policarbonat, índex d'enlluernament unificat menor de 19, índex de reproducció cromàtica	217,83	10,000	2.178,30

			major de 80, flux lluminós 12900 lúmens, grau de protecció IP65, amb cadena d'acer de 1,5 m de longitud. Instal·lació suspesa. Inclou: Replanteig. Muntatge, connexionat i comprovació del seu correcte funcionament. Criteri d'amidament de projecte: Nombre d'unitats previstes, segons documentació gràfica de Projecte. Criteri de mesura d'obra: Es mesurarà el nombre d'unitats realment executades segons especificacions de Projecte. (P - 2)			
2	IEI040	U	Xarxa elèctrica de distribució interior per a pavelló de 1000 m², composta de: quadre general de comandament i protecció; circuits interiors amb cablejat en safates perforades de PVC rígid: 1 circuit per enllumenat, 1 circuit per preses de corrent; mecanismes gamma bàsica (tecla o tapa i marc: blanc; embellidor: blanc). (P - 1)	3.223,98	1,000	3.223,98
TOTAL	**Titol 3**		**01.06.02**			**5.402,28**

Obra	01	Pressupost PRE_COBERTA TEMPLE	
Capítol	07	CONTROL DE QUALITAT	

NUM.	CODI	UA	DESCRIPCIÓ	PREU	AMIDAMENT	IMPORT
1	P060-020H	u	Mostreig, realització del con d'Abrams, elaboració de provetes, cura i determinació de la resistència a tracció per flexió de 3 provetes de formigó amb fibres, segons la norma UNE-EN 14651 (P - 4)	304,78	1,000	304,78
2	P0B3-00OE	u	Determinació de la composició química i de les característiques mecàniques d'una proveta d'acer no aliat laminat en calent, segons la norma UNE-EN 10025-2 (P - 6)	192,82	1,000	192,82
3	P0B2-00PJ	u	Determinació de les característiques mecàniques: resistència a la tracció, límit elàstic, allargament de ruptura i doblegament-desdoblegament d'una proveta d'acer amb característiques especials de ductilitat per a armar formigons, segons la norma UNE 36065 (P - 5)	63,41	1,000	63,41
TOTAL	**Capítol**		**01.07**			**561,01**

Obra	01	Pressupost PRE_COBERTA TEMPLE	
Capítol	08	GESTIÓ DE RESIDUS	

NUM.	CODI	UA	DESCRIPCIÓ	PREU	AMIDAMENT	IMPORT
1	P2R6-4I5G	m3	Càrrega amb mitjans mecànics i transport de residus inerts o no especials a instal·lació autoritzada de gestió de residus, amb camió per a transport de 12 t, amb un recorregut de més de 10 i fins a 15 km (P - 18)	10,64	256,310	2.727,14
2	P2RA-EU2R	m3	Disposició controlada en dipòsit autoritzat inclòs el cànon sobre la deposició controlada dels residus de la construcció, segons la LLEI 8/2008, de residus de formigó inerts amb una densitat 1,45 t/m3, procedents de construcció o demolició, amb codi 17 01 01 segons la Llista Europea de Residus (P - 19)	15,57	53,850	838,44
3	P2RA-EU2T	m3	Disposició controlada en dipòsit autoritzat inclòs el cànon sobre la deposició controlada dels residus de la construcció, segons la LLEI 8/2008, de residus de terra inerts amb una densitat 1,6 t/m3, procedents d'excavació, amb codi 17 05 04 segons la Llista Europea de Residus (P - 20)	9,08	202,450	1.838,25
TOTAL	**Capítol**		**01.08**			**5.403,83**

Obra	01	Pressupost PRE_COBERTA TEMPLE
Capítol	09	SEGURETAT I SALUT

PRESSUPOST

NUM.	CODI	UA	DESCRIPCIÓ	PREU	AMIDAMENT	IMPORT
1	PA_SIS01	pa	Seguretat i Salut, a partir del pressupost de l'Estudi de Seguretat i Salut. (P - 37)	1.000,00	1,000	1.000,00
TOTAL	**Capítol**		**01.09**			**1.000,00**

RESUM DEL PRESSUPOST

RESUM DE PRESSUPOST

Data: 31/03/25 Pàg.: 1

NIVELL 3 : Titol 3				Import
Titol 3	01.06.01	ENLLUMENAT		3.039,46
Titol 3	01.06.02	IL·LUMINACIÓ PISTA		5.402,28
Capítol	**01.06**	**INSTAL·LACIONS**		**8.441,74**
			8.441,74	

NIVELL 2 : Capítol				Import
Capítol	01.01	ENDERROCS I DEMOLICIONS		5.767,90
Capítol	01.02	MOVIMENTS DE TERRES		1.536,60
Capítol	01.03	FONAMENTACIÓ		34.592,19
Capítol	01.04	ESTRUCTURA I COBERTA		145.942,03
Capítol	01.05	PAVIMENTS I TANCAMENTS		26.746,04
Capítol	01.06	INSTAL·LACIONS		8.441,74
Capítol	01.07	CONTROL DE QUALITAT		561,01
Capítol	01.08	GESTIÓ DE RESIDUS		5.403,83
Capítol	01.09	SEGURETAT I SALUT		1.000,00
Obra	**01**	**Pressupost PRE_COBERTA TEMPLE**		**229.991,34**
			229.991,34	

NIVELL 1 : Obra			Import
Obra	01	Pressupost PRE_COBERTA TEMPLE	229.991,34
			229.991,34

ÚLTIM FULL

PRESSUPOST D'EXECUCIÓ PER CONTRACTE

PRESSUPOST D'EXECUCIÓ MATERIAL.....		229.991,34
13 % DESPESES GENERALS SOBRE 229.991,34.....		29.898,87
6 % BENEFICI INDUSTRIAL SOBRE 229.991,34.....		13.799,48
	Subtotal	273.689,69
21 % IVA SOBRE 273.689,69.....		57.474,83
TOTAL PRESSUPOST PER CONTRACTE	€	331.164,52

Aquest pressupost d'execució per contracte puja a

(TRES-CENTS TRENTA-UN MIL CENT SEIXANTA-QUATRE EUROS AMB CINQUANTA-DOS CÈNTIMS)

L´autor del projecte,

Àngel Mulet Baubí
Enginyer de camins, canals i ports
Col·legiat núm. 31.205
Alter Enginyeria Aplicada, SLP