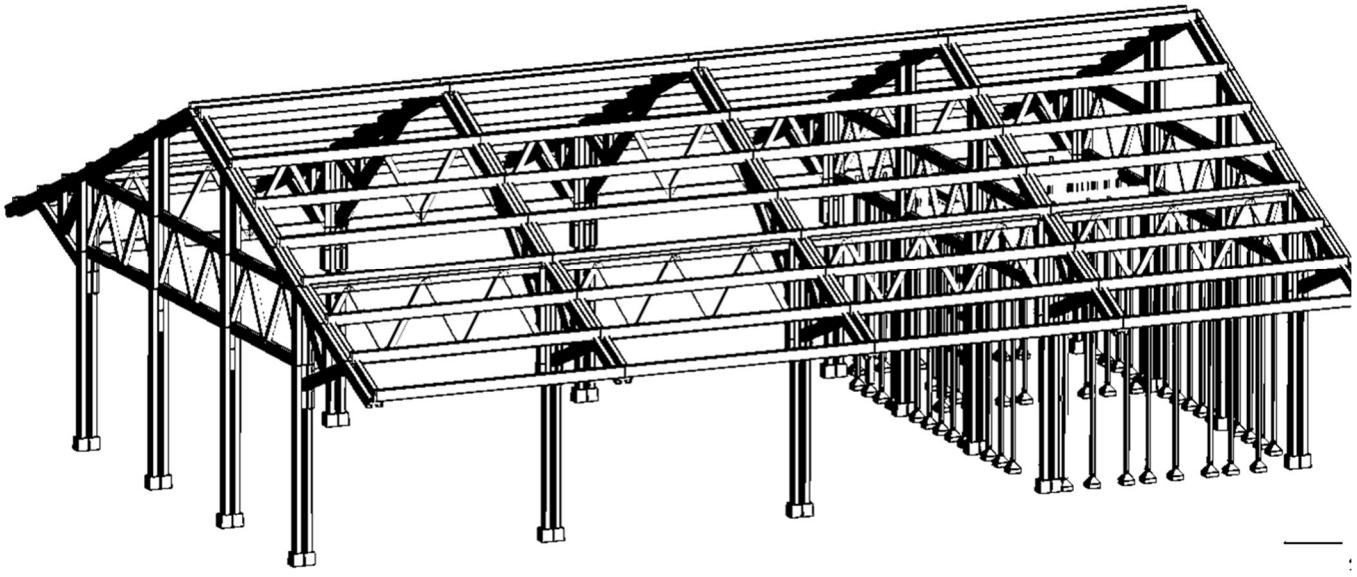
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Proyecto estructural Casa Cultural La Chorrera

Departamento: Amazonas
Corregimiento: La Chorrera

Grupo de infraestructura cultural
Ministerio de cultura

Por: Ing. Juan David Hurtado



Memoria de diseño estructural
V0. Octubre 2025

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2 Descripción del proyecto

El proyecto arquitectónico contempla la implantación de una Casa bio cultural en el municipio de **La Chorrera** del departamento de Amazonas. Que se proyecta como la construcción de una estructura de un nivel de altura y un área cubierta de 232 m^2 por unidad, su altura a cumbre es de 5.28m

El diseño estructural contempla la definición del sistema sismorresistente en armonía con la arquitectura y el entorno en el que se desarrolla, donde se contempla la construcción de dos módulos estructurales, a partir de un sistema estructural de pórticos de madera estructural que se apoyan sobre un sistema rígido de cimentación en concreto reforzado

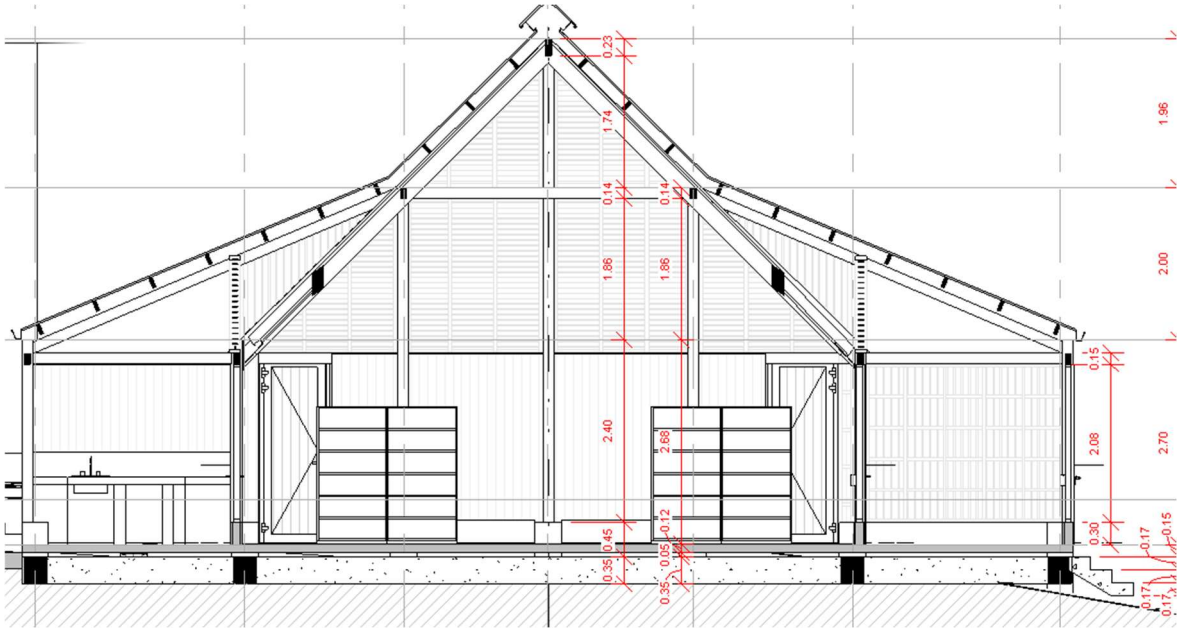
Nivel de Amenaza Sísmica: Baja
Estudio de Suelos: Oficina Laboratorio de suelos e ingeniería civil

Número de pisos
La estructura de pórticos madera arriostrados se apoya en el nivel + 0.00, estructura de cimentación en concreto reforzado, se desarrollan a partir de columnas que nacen desde los dados de cimentación a un nivel Ne+0.00, sobre salen del terreno natural unos 30cm que dan apoyo a la estructura de cubierta en pórticos de madera

3 Descripción del sistema estructural

Para describir el sistema estructural se puede definir en un sistema flexible apoyado sobre un sistema rígido de cimentación.

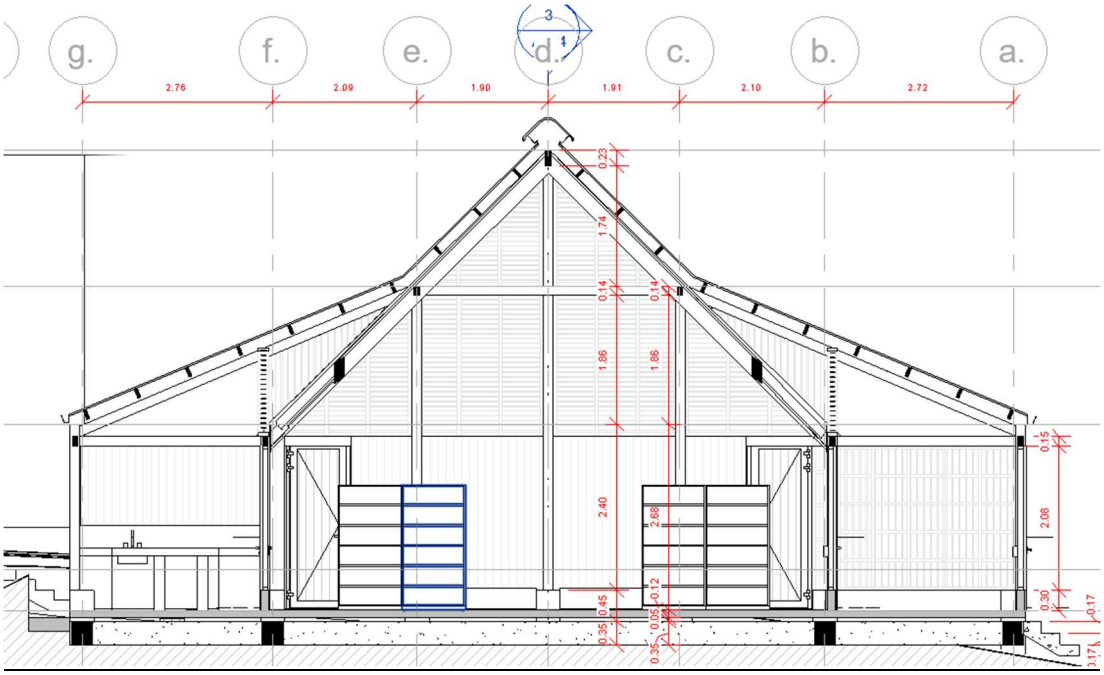
ESTRUCTURA DE MADERA



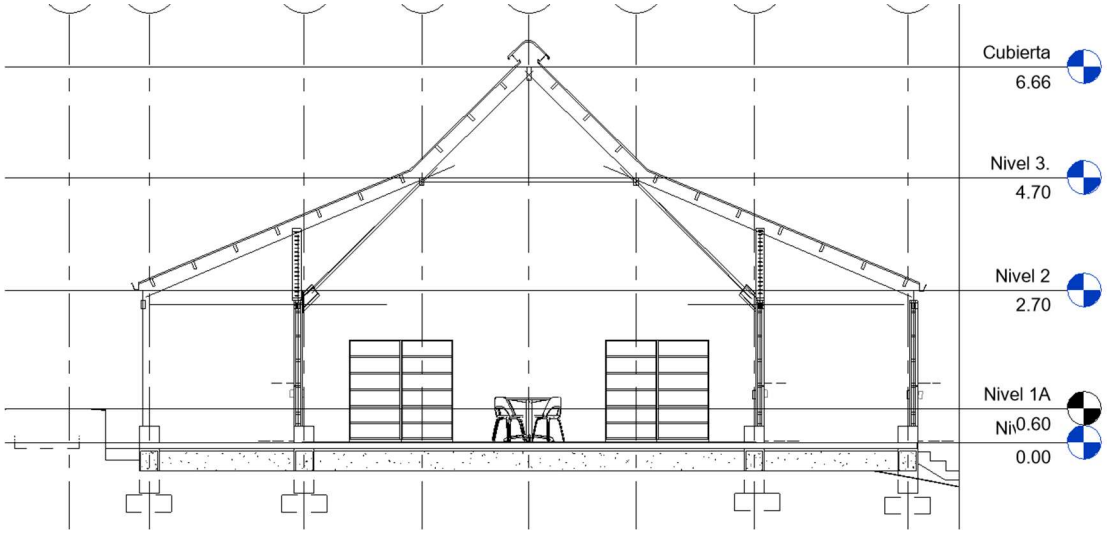
Sistema flexible de cubierta: El sistema de cubierta se define como un sistema de pórticos ariostrados en madera estructural Pino amarillo, que en modelos y planos se indicara como "ES5 (sección)"para las vigas columnas, este sistema estructural se conforma por pórticos estructurales que salvan luces de 7.80m.

Se configuran dos pórticos típicos como se presenta en las siguientes imágenes

Pórtico 1: Este pórtico se configura a partir de columnas en madera en sección doble de ES5 80x140 cada 2.00m aprovechando que queda en fachada o muros divisorios este pórtico aporte rigidez transversal gracias a la cercha que conecta transversalmente el sistema



Pórtico 2: Este pórtico se configura a partir de cerchas diagonales compuestas por su cordón superior e inferior en vigas dobles de ES5 80x140, rigidizado por diagonales en sección de ES5 80x225



Este sistema estructural configurado con madera estructural del grupo estructural ES5, da soporte a una cubierta liviana, con acabados de bajo peso. Esta cubierta se apoya sobre el sistema de cimentación en concreto reforzado

Los principios de diseño de la estructura son los siguientes:

- Todos los elementos verticales muros y pórticos se vinculan entre sí mediante vigas en las dos direcciones ortogonales.
- La estructura no cuenta con un diafragma rígido en el nivel de cubierta lo cual se evidencia en los desplazamientos libres de las columnas, por lo cual no se considera diafragmas en el modelo analítico
- El sistema estructural está diseñado y detallado para una de acuerdo de acuerdo con los requisitos de la NSR10

4 CAPACIDAD DE DISIPACIÓN DE ENERGÍA:

De acuerdo con el material de la estructura y las características del sistema de resistencia sísmica descrito, se establece que el sistema estructura es Pórticos en madera con diagonales para estructuras con alturas menores a 12m

de disipación de energía)									
3. Pórticos con diagonales (las diagonales llevan fuerza vertical)									
a. Pórticos de acero estructural con diagonales concéntricas (*DES*)	el mismo	5.0	2.5	si	24 m	si	30 m	si	Sin límite
b. Pórticos con diagonales de concreto con capacidad moderada de disipación de energía (*DMO*)	el mismo	3.5	2.5	no se permite		si	30 m	si	30 m
c. Pórticos de madera con diagonales	el mismo	2.0	2.5	si	12 m	si	15 m	si	18 m

Irregularidades estructura

Se realizó el correspondiente chequeo de irregularidades conforme a lo establecido en las tablas A.3-5, A.3-6 y A.3-7 de la NSR-10, y a partir de este se obtuvieron los siguientes coeficientes de reducción de la capacidad de disipación de energía para el edificio:

- Irregularidad en planta en X: ϕpX = 1.00
- Irregularidad en planta en Y: ϕpY = 1.00
- Irregularidad en altura: ϕaA = 1.00
- Irregularidad por ausencia de redundancia: ϕrx = 1.00
- Irregularidad por ausencia de redundancia: ϕry = 1.00

Nota: Se anexa chequeo de irregularidades

5 CARGAS

5.1 Cargas muertas y Vivas de diseño

El peso propio de los elementos estructurales se determina con base en la densidad de los materiales de construcción. Adicionalmente, se consideraron las siguientes cargas muertas para el edificio:

Cubierta

- Teja arquitectonica: 15 kg/m^2
- Cielo raso: 10 kg/m^2
- Otros: 10 kg/m^2

De acuerdo con el uso que tendrán las diferentes áreas del edificio, las cargas vivas utilizadas en el análisis corresponden a:

- Cubierta liviana pendiente mayor a 15% 35 kg/m^2

Nota: Se anexa avaluó de cargas

5.2 Movimiento sísmico de diseño

De acuerdo con la información de la NSR-10 (Norma sismo resistente de Colombia 2010), el proyecto se ubica en la zona de amenaza Alta de la zonificación sísmica de Colombia. Los parámetros de cálculo de la fuerza sísmica para la estructura son los siguientes:

- Perfil de suelo: D Según estudio de suelos por **la oficina** Laboratorio de suelos e ingeniería civil
- Aceleración horizontal pico efectiva de diseño. Aa= 0.05 g
- Aceleración que representa la velocidad horizontal pico efectiva de diseño, Av=0.05g
- Coeficiente de amplificación que afecta la aceleración en la zona de períodos cortos Fa=1.60
- Coeficiente de amplificación que afecta la aceleración en la zona de períodos intermedios Fv=2.40
- Coeficiente de Importancia I =1.00 (Grupo I)

5.3 Fuerzas sísmicas

Las fuerzas sísmicas se calculan por el Método de análisis de fuerza horizontal equivalente, como se establece en el Capítulo A.4 de la NSR-10. Se hace el análisis espectral para los primeros modos de vibración de acuerdo con el espectro de Pseudoaceleración y con el análisis modal de la edificación se verifica el periodo de vibración natural y las fuerzas sísmicas, el cortante basal considera una posible excentricidad del 5% de la longitud en planta lo que produce una torsional accidental.

5.4 Fuerzas de granizo

Para esta cubierta NO se consideran fuerzas de granizo dado que se encuentra en un municipio con altitud menor a 2000msnm, con baja probabilidad de granizo

Cubierta con pendiente >15°

6. Metodología de diseño estructural

El proyecto estructural se configura a partir de la geometría y su lugar de implantación, donde se definen las solicitudes por el uso, riesgo sísmico y riesgo eólico, el sistema se pre dimensiona acorde con los requisitos para estructuras en madera del titulo G

El software de análisis SAP 2000, se utilizó para el análisis estructural de la unidad proyectada, programa desarrollado por “Computer and structures”, donde se simula un modelo matemático con datos de entrada como las propiedades de los materiales, secciones de elementos y solicitudes para las diferentes cargas a las que se ve sometida la estructura (Ver anexo de de datos de entrada - imput). El programa distribuye las fuerzas en los elementos, esfuerzos y desplazamientos de acuerdo con la distribución geométrica y su respectiva matriz de rigidez.

Principios de diseño y modelación numérica

- Para el diseño de elementos en concreto, se guía en los parámetros del Titulo G con la metodología y los factores de reducción acordes con el Reglamento colombiana NSR-10.

7. Documentos referencia de diseño estructural

- Reglamento colombiano de construcción sismorresistente NSR-10
- Ley 400 de 1997 de la constitución política de Colombia
-

8. Cimentación

El diseño de la cimentación se basa en las recomendaciones del estudio de Suelos realizado por la por la Oficina Laboratorio de suelos e ingeniería civil. Donde se indica que la cimentación debe ser combinada entre zapatas cuadradas o rectangulares apoyadas a -1.50m del nivel del terreno, con una capacidad portante de 16.8Ton/m²

9. Combinaciones de diseño

Acorde con el título B.2.3 de la NSR-10 se consideran las siguientes combinaciones de diseño por esfuerzos admisibles para elementos de madera estructural

Para el diseño de elementos de madera las combinaciones de diseño consideras son las siguientes

$$D+F \quad \text{(B.2.3-1)}$$

$$D+H+F+L+T \quad \text{(B.2.3-2)}$$

$$D+H+F+(L_r \text{ ó } G \text{ ó } L_e) \quad \text{(B.2.3-3)}$$

$$D+H+F+0.75(L+T)+0.75(L_r \text{ ó } G \text{ ó } L_e) \quad \text{(B.2.3-4)}$$

$$D+H+F+W \quad \text{(B.2.3-5)}$$

$$D+H+F+0.7E \quad \text{(B.2.3-6)}$$

$$D+H+F+0.75W+0.75L+0.75(L_r \text{ ó } G \text{ ó } L_e) \quad \text{(B.2.3-7)}$$

$$D+H+F+0.75(0.7E)+0.75L+0.75(L_r \text{ ó } G \text{ ó } L_e) \quad \text{(B.2.3-8)}$$

$$0.6D+W+H \quad \text{(B.2.3-9)}$$

$$0.6D+0.7E+H \quad \text{(B.2.3-10)}$$

10. Materiales de construcción

Las especificaciones de los materiales utilizados en el análisis estructural del proyecto son:

- Vigas de cimentación y zapatas: f'_c = 210 kg/cm^2 (21.0 MPa)
- Losa de contrapiso: f'_c = 210 kg/cm^2 (21.0 MPa)
- Vigas y columnas: f'_c = 245 kg/cm^2 (24.5 MPa)
- Acero de refuerzo 3/8" y mayores fy = 4200 kg/cm2 (420 MPa)
- Madera: Grupo estructural 5 (ES5), Madera Pino amarillo, Contenido Humedad CH=12% (vigas, diagonales y arriostramientos)
- Madera: Grupo estructural 5 (ES5), Madera Pino amarillo, Contenido Humedad CH=12% (columnas)

11. Protección contra fuego

La estructura se define como un centro biocultural para la comunidad del municipio de Jurado – Choco, se evalúa su resistencia a Fuego acorde con el titulo J de la NSR-10,

- Área= 105 m² por cada unidad
- Categoría: La estructura se clasifica como: Lugar de reunión culturales **(L-2)**

Grupos y Subgrupos de ocupación	Clasificación	Sección del Reglamento
L	LUGARES DE REUNION	K.2.7
L-1	Deportivos	
L-2	Culturales y teatros	
L-3	Sociales y recreativos	
L-4	Religiosos	
L-5	De transporte	

- Categoría de riesgo grupo L, es **categoría II**
- Resistencia a fuego de acuerdo según Tabla **J.3.4.3,**

Tabla J.3.4-3
Resistencia requerida al fuego normalizado NTC 1480 (ISO 834), en horas, de elementos de una edificación.

Elementos de la construcción	Categoría según la clasificación dada en J.3.3.1		
	I	II	III
Muros Cortafuego	3	2 ½	2
Muros de cerramiento de escaleras, ascensores, buitrones, ductos para basuras y corredores de evacuación	2	2	1 ½
Muros divisorios entre unidades	2	1 ½	1
Muros interiores no portantes	½	¼	-
Columnas, vigas, viguetas, losas, y muros portantes de cualquier material, y estructuras metálicas en celosía	2	1 ½	1
Cubiertas	1	1	½
Escaleras interiores no encerradas con muros	2	1½	1

Para categoría II, se requieren los siguientes tiempos de resistencia

- Cubierta en madera, resistencia requerida =1 Hora
- Estructura, columnas, vigas y losas= 1 ½ horas

Resistencia a fuego requerida para estructura de concreto

Resistencia para un periodo de 1 ½" horas

- Según J. 3.5.2.1, la dimensión mínima de columna = 230mm < dimensión columna Casa
- 250mm; **Cumple**
- **Según J.3.5.2.3, se verifican los recubrimientos para:**
  - Losas de concreto recubrimiento mínimo de= 20mm, recubrimiento usado = 40mm, **Cumple**
  - recubrimiento mínimo de vigas con b= 250mm, r= 20mm; recubrimiento usado=40mm, **Cumple**

Resistencia a fuego requerida para estructura de madera y cubierta

- Se verifica la capacidad de combustión para la cubierta acorde con la tabla J.3.4-2, donde se define el potencial combustible para madera, con un potencial de 1.1 MJ/ kg de madera. La cubierta se configura a partir de una estructura de madera que se apoya sobre el sistema estructural. No hace parte fundamental del sistema portante.
    - Se define la carga de combustión que va a tener la casa cultural acorde con que se van a usar 1600m lineales de madera con una sección de 3x6", el tipo de madera es Nisperillo con una densidad de 870kg/m3. Es decir que se tienen en total un peso de 15.660 kg de madera
    - Para 15.660 kg de madera se calcula una carga de combustión total de = 17226MJ, en el área de cubierta de una unidad
    - El área de cubierta de una unidad es de 142m²; acorde con esto cada unidad tiene una capacidad de combustión de= 17226MJ/ 142m²= 121 MJ/m²
    - Como se evidencia en el calculo anterior, el potencial de combustión de este sistema es de 121 MJ/m², que es un potencial muy bajo. Citando el reglamento en su literal J.3.3.3.8, se puede eximir del cálculo de resistencia a fuego edificaciones con estructuras que tienen una densidad de carga combustible de 250 MJ/² o menos. **Por ende, no se requiere de cálculo de resistencia a fuego para estructuras, igualmente ya se justificó la resistencia del sistema en pórticos en concreto y para la estructura de madera, se tiene el tiempo necesario para evacuar al ser una estructura de un nivel y tener aberturas en mas del 50% de sus fachadas**

12. Tabla de anexos

ESTRUCTURA DE CUBIERTA EN MADERA ESTRUCTURAL

a. Análisis de cargas
b. Asignación de cargas muerta y viva
c. Espectro de diseño
d. Fuerza horizontal equivalente
e. Datos de entrada
f. Geometría modelo analítico
g. Liberación de elementos a momento
h. Chequeo de deriva
i. Verificación de irregularidades
j. Diseño de elementos en madera estructural
   Diseño de vigas y correas
   Diseño de columnas
k. Diseño de zapatas
l. Datos de salida

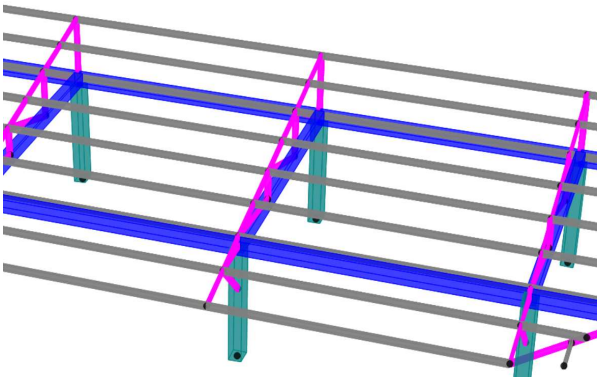
Cordialmente



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Proyecto: La chorrera Fecha= 10/16/2025

Nivel: Cubierta liviana biblioteca



S correas= 0.60

CARGAS PERMANENTES	[KN/m²]	[Kgf/m²]
- Teja arquitectonica	0.15	15.00
- Cielo raso	0.10	10.00
- Accesorios	0.15	15.00

Nota: el peso propio de los elementos los considera el programa

Carga para Sap=

C. MUERTA.	0.40	40.00
C. SOBREIMP.	0.40	40.00

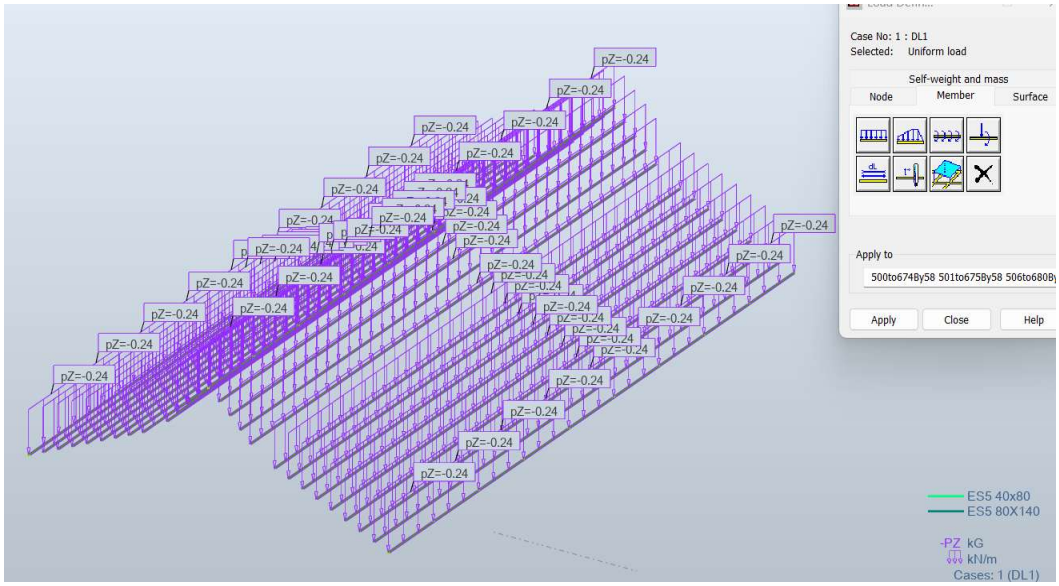
CARGAS VARIABLES		[KN/m²]	[Kgf/m²]
C. GRANIZO	NO APLICA	0.00	0
C. VIVA	Cubierta inclinada >15°	0.35	35
C. TOTAL =			75 Kg/m^2

Carga a correas de cubierta

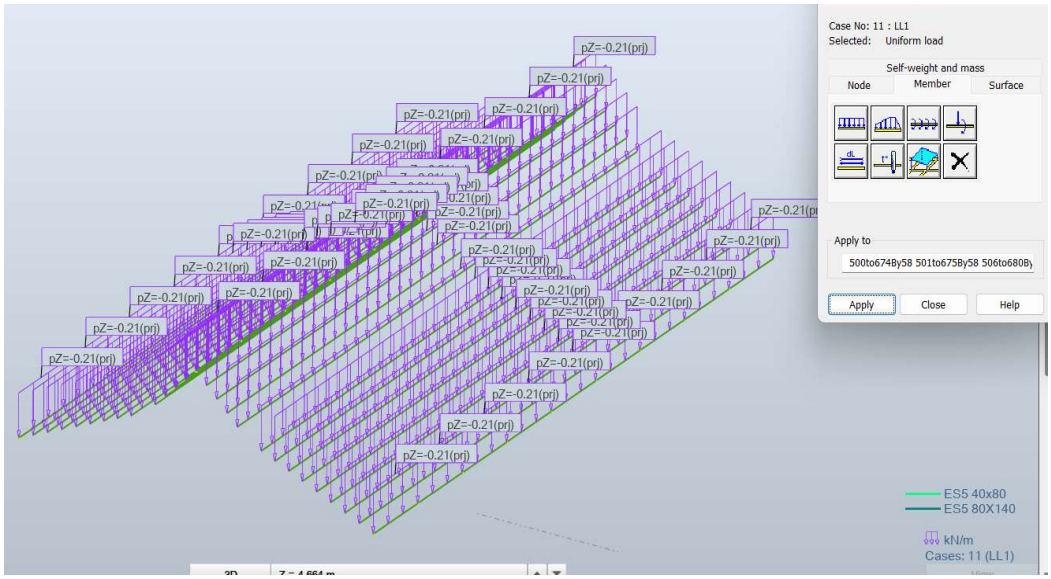
qmuerta / Vta	40	x	0.60	=	**24.0**	**Kg/m**
qViva / Vta =	35	x	0.60	=	**21.0**	**Kg/m**

Asignación de cargas

Carga muerta



Carga viva



Análisis sísmico

Proyecto= **Casa prototipo**

Calculo= **Ing. Juan Hurtado**

Datos de entrada del proyecto

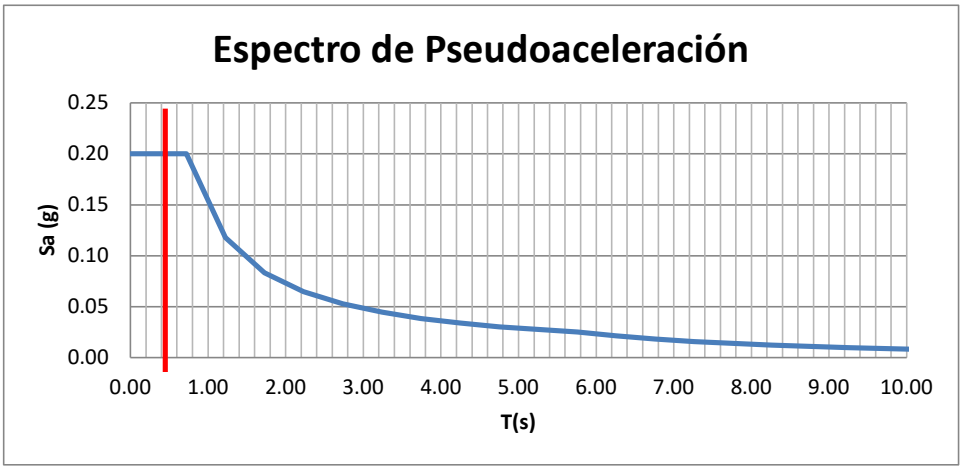
Parámetros de análisis sísmico

Departamento	**Amazonas**	Zona Amenaza Sísmica	Baja
Municipio	**La Chorrera**		
		Aa =	0.05
Tipo de perfil	D	Av =	0.05
H=	5.30	Fa =	**1.60**
Grupo de uso		Fv =	**2.40**
Coeficiente de importancia (I)	1.00	Tc =	0.72
		Tl =	5.76

Sistema estructural

Sistema	PORTICOS EN ?madera arriostrados	Ct =	0.072
		& =	0.8
		Ta =	0.27

Sistema	PORTICOS EN ?MADERA ESTRUCTURAL ARRIOSTRADA	Ct =	0.072
	plataforma a Cub	& =	0.8
Disipación Energía	DMI Minima	k =	1.000
T=CtH^&	(A.4.2.2)	Ta =	0.27



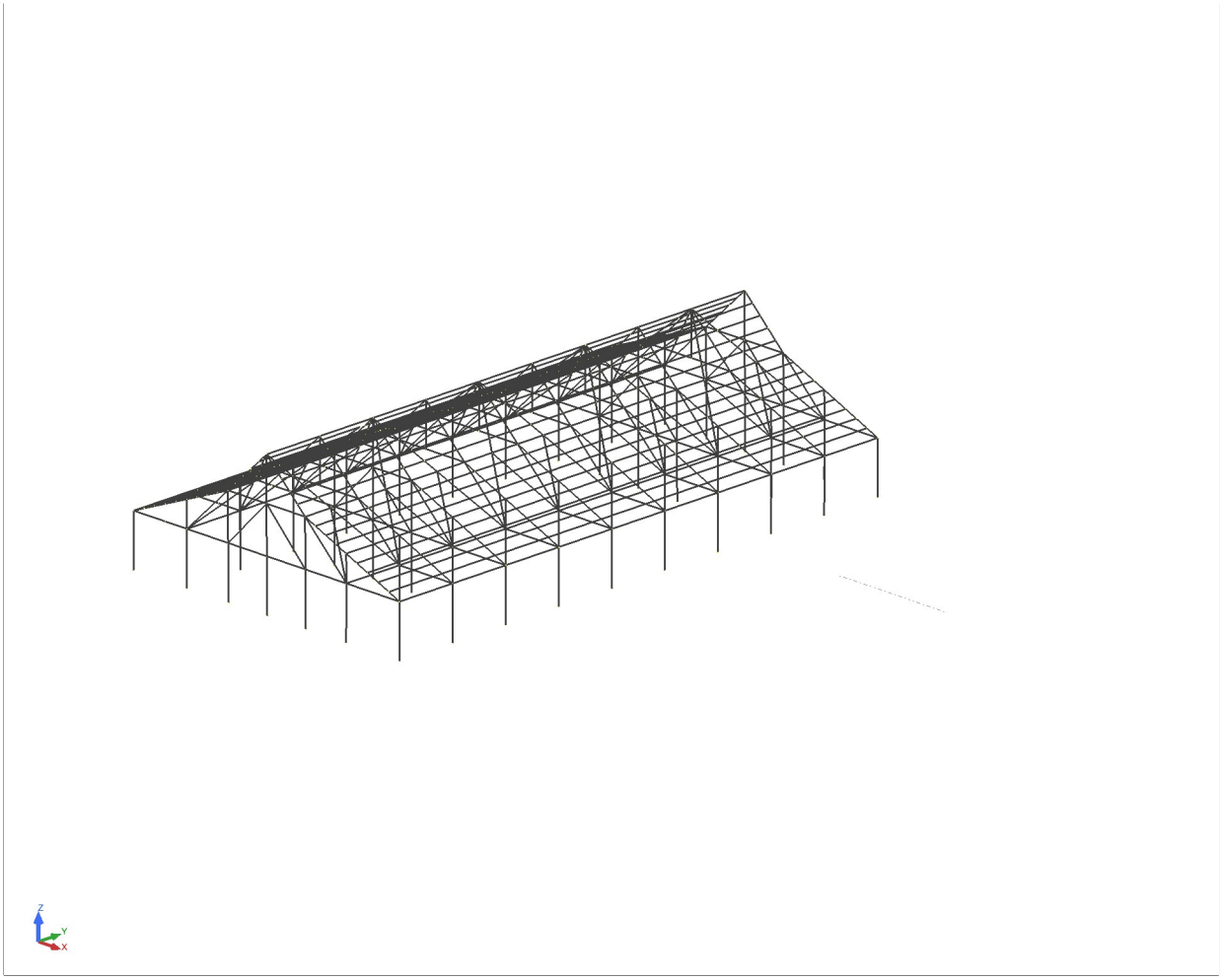
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Project: MC33_Chorrera_09mar2

Author :

Structure View



Data - Members

Member	Node 1	Node 2	Section	Material	Length (m)	Gamma (Deg)
56	3567	11	ES5 80X14	*ES5 PINO LA*	0.587	0.0
57	11	10	ES5 80X14	*ES5 PINO LA*	0.587	0.0
58	10	9	ES5 80X14	*ES5 PINO LA*	0.587	0.0
59	9	8	ES5 80X14	*ES5 PINO LA*	0.587	0.0
60	8	421	ES5 80X14	*ES5 PINO LA*	0.590	0.0
81	3571	74	ES5 80X14	*ES5 PINO LA*	0.587	0.0
82	74	73	ES5 80X14	*ES5 PINO LA*	0.587	0.0
83	73	72	ES5 80X14	*ES5 PINO LA*	0.587	0.0
84	72	71	ES5 80X14	*ES5 PINO LA*	0.587	0.0
85	71	441	ES5 80X14	*ES5 PINO LA*	0.590	0.0
108	71	8	ES5 40x80	ES5 PINO LA	2.700	0.0
109	8	3999	ES5 40x80	ES5 PINO LA	2.700	0.0
117	72	9	ES5 40x80	ES5 PINO LA	2.700	0.0

Member	Node 1	Node 2	Section	Material	Length (m)	Gamma (Deg)
118	9	4001	ES5 40x80	ES5 PINO LA	2.700	0.0
126	73	10	ES5 40x80	ES5 PINO LA	2.700	0.0
127	10	4003	ES5 40x80	ES5 PINO LA	2.700	0.0
135	74	11	ES5 40x80	ES5 PINO LA	2.700	0.0
136	11	4005	ES5 40x80	ES5 PINO LA	2.700	0.0
144	3571	3567	ES5 40x80	ES5 PINO LA	2.700	0.0
145	3567	3563	ES5 40x80	ES5 PINO LA	2.700	0.0
158	424	44	ES5 80X14	*ES5 PINO LA*	0.565	0.0
159	44	43	ES5 80X14	*ES5 PINO LA*	0.565	0.0
160	43	42	ES5 80X14	*ES5 PINO LA*	0.565	0.0
161	42	3567	ES5 80X14	*ES5 PINO LA*	0.565	0.0
176	444	55	ES5 80X14	*ES5 PINO LA*	0.565	0.0
177	55	54	ES5 80X14	*ES5 PINO LA*	0.565	0.0
178	54	53	ES5 80X14	*ES5 PINO LA*	0.565	0.0
179	53	3571	ES5 80X14	*ES5 PINO LA*	0.565	0.0
194	442	67	ES5 80X22	*ES5 PINO LA*	3.815	0.0
195	67	68	ES5 80X22	*ES5 PINO LA*	0.603	0.0
196	68	69	ES5 80X22	*ES5 PINO LA*	0.603	0.0
197	69	70	ES5 80X22	*ES5 PINO LA*	0.603	0.0
198	70	426	ES5 80X22	*ES5 PINO LA*	0.603	0.0
217	402	85	ES5 80X22	*ES5 PINO LA*	3.815	0.0
218	85	86	ES5 80X22	*ES5 PINO LA*	0.603	0.0
219	86	87	ES5 80X22	*ES5 PINO LA*	0.603	0.0
220	87	88	ES5 80X22	*ES5 PINO LA*	0.603	0.0
221	88	426	ES5 80X22	*ES5 PINO LA*	0.603	0.0
238	53	42	ES5 40x80	ES5 PINO LA	2.700	0.0
239	42	3920	ES5 40x80	ES5 PINO LA	2.700	0.0
247	54	43	ES5 40x80	ES5 PINO LA	2.700	0.0
248	43	3665	ES5 40x80	ES5 PINO LA	2.700	0.0
256	55	44	ES5 40x80	ES5 PINO LA	2.700	0.0
257	44	3924	ES5 40x80	ES5 PINO LA	2.700	0.0
264	424	100	ES5 80X22	*ES5 PINO LA*	0.543	0.0
265	100	101	ES5 80X22	*ES5 PINO LA*	0.543	0.0
266	101	102	ES5 80X22	*ES5 PINO LA*	0.543	0.0
267	102	103	ES5 80X22	*ES5 PINO LA*	0.543	0.0
268	103	426	ES5 80X22	*ES5 PINO LA*	0.543	0.0
276	444	108	ES5 80X22	*ES5 PINO LA*	0.543	0.0
277	108	109	ES5 80X22	*ES5 PINO LA*	0.543	0.0
278	109	110	ES5 80X22	*ES5 PINO LA*	0.543	0.0
279	110	111	ES5 80X22	*ES5 PINO LA*	0.543	0.0
280	111	446	ES5 80X22	*ES5 PINO LA*	0.543	0.0
332	108	67	ES5 40x80	ES5 PINO LA	1.654	0.0
333	67	100	ES5 40x80	ES5 PINO LA	1.046	0.0
334	100	85	ES5 40x80	ES5 PINO LA	1.046	0.0

Member	Node 1	Node 2	Section	Material	Length (m)	Gamma (Deg)
335	85	3683	ES5 40x80	ES5 PINO LA	1.654	0.0
350	109	68	ES5 40x80	ES5 PINO LA	1.915	0.0
351	68	101	ES5 40x80	ES5 PINO LA	0.785	0.0
352	101	86	ES5 40x80	ES5 PINO LA	0.785	0.0
353	86	3684	ES5 40x80	ES5 PINO LA	1.915	0.0
368	110	69	ES5 40x80	ES5 PINO LA	2.177	0.0
369	69	102	ES5 40x80	ES5 PINO LA	0.523	0.0
370	102	87	ES5 40x80	ES5 PINO LA	0.523	0.0
371	87	3685	ES5 40x80	ES5 PINO LA	2.177	0.0
386	111	70	ES5 40x80	ES5 PINO LA	2.438	0.0
387	70	103	ES5 40x80	ES5 PINO LA	0.262	0.0
388	103	88	ES5 40x80	ES5 PINO LA	0.262	0.0
389	88	3686	ES5 40x80	ES5 PINO LA	2.438	0.0
393	132	131	ES5 80X22	*ES5 PINO LA*	0.603	0.0
394	131	130	ES5 80X22	*ES5 PINO LA*	0.603	0.0
395	130	129	ES5 80X22	*ES5 PINO LA*	0.603	0.0
396	129	128	ES5 80X22	*ES5 PINO LA*	0.603	0.0
397	128	426	ES5 80X22	*ES5 PINO LA*	0.603	0.0
401	137	136	ES5 80X22	*ES5 PINO LA*	0.603	0.0
402	136	135	ES5 80X22	*ES5 PINO LA*	0.603	0.0
403	135	134	ES5 80X22	*ES5 PINO LA*	0.603	0.0
404	134	133	ES5 80X22	*ES5 PINO LA*	0.603	0.0
405	133	426	ES5 80X22	*ES5 PINO LA*	0.603	0.0
460	420	421	2-ES5 80X1	*ES5 PINO LA*	2.280	0.0
461	421	422	ES5 80X14	*ES5 PINO LA*	2.709	0.0
462	423	422	2-ES5 80X1	*ES5 PINO LA*	2.280	0.0
464	422	424	ES5 80X22	*ES5 PINO LA*	2.895	0.0
470	431	432	2-ES5 80X1	*ES5 PINO LA*	2.280	0.0
480	440	441	2-ES5 80X1	*ES5 PINO LA*	2.280	0.0
481	441	442	ES5 80X14	*ES5 PINO LA*	2.709	0.0
482	443	442	2-ES5 80X1	*ES5 PINO LA*	2.280	0.0
484	442	444	ES5 80X22	*ES5 PINO LA*	2.895	0.0
490	451	452	2-ES5 80X1	*ES5 PINO LA*	2.280	0.0
500	441	421	ES5 80X14	*ES5 PINO LA*	2.700	0.0
501	421	401	ES5 80X14	*ES5 PINO LA*	2.700	0.0
502	442	422	ES5 80X14	*ES5 PINO LA*	2.700	0.0
503	422	402	ES5 80X14	*ES5 PINO LA*	2.700	0.0
506	452	432	ES5 80X14	*ES5 PINO LA*	2.700	0.0
507	432	412	ES5 80X14	*ES5 PINO LA*	2.700	0.0
509	446	426	ES5 80X14	*ES5 PINO LA*	2.700	0.0
510	426	406	ES5 80X14	*ES5 PINO LA*	2.700	0.0
514	422	460	ES5 80X14	*ES5 PINO LA*	3.115	0.0
515	422	461	ES5 80X14	*ES5 PINO LA*	3.115	0.0
594	435	186	ES5 80X22	*ES5 PINO LA*	0.543	0.0

Member	Node 1	Node 2	Section	Material	Length (m)	Gamma (Deg)
595	186	185	ES5 80X22	*ES5 PINO LA*	0.543	0.0
602	185	184	ES5 80X22	*ES5 PINO LA*	0.543	0.0
604	184	183	ES5 80X22	*ES5 PINO LA*	0.543	0.0
605	183	426	ES5 80X22	*ES5 PINO LA*	0.543	0.0
707	455	199	ES5 80X22	*ES5 PINO LA*	0.543	0.0
709	199	198	ES5 80X22	*ES5 PINO LA*	0.543	0.0
710	198	197	ES5 80X22	*ES5 PINO LA*	0.543	0.0
717	197	196	ES5 80X22	*ES5 PINO LA*	0.543	0.0
719	196	446	ES5 80X22	*ES5 PINO LA*	0.543	0.0
743	422	3567	ES5 40x80	*ES5 PINO LA*	1.138	0.0
745	442	3571	ES5 40x80	*ES5 PINO LA*	1.138	0.0
775	442	3626	ES5 80X14	*ES5 PINO LA*	2.090	0.0
776	3626	3627	ES5 80X14	*ES5 PINO LA*	1.959	0.0
779	3630	3626	2-ES5 80X1	*ES5 PINO LA*	2.281	0.0
780	3626	444	ES5 80X14	*ES5 PINO LA*	2.008	0.0
781	3632	3627	2-ES5 80X1	*ES5 PINO LA*	2.281	0.0
782	3627	445	2-ES5 80X1	*ES5 PINO LA*	2.008	0.0
783	3634	3628	2-ES5 80X1	*ES5 PINO LA*	2.281	0.0
784	3628	455	ES5 80X14	*ES5 PINO LA*	2.008	0.0
787	3628	445	ES5 40x80	ES5 PINO LA	2.809	0.0
788	445	3626	ES5 40x80	ES5 PINO LA	2.803	0.0
830	444	424	ES5 80X14	ES5 PINO LA	2.700	0.0
831	424	622	ES5 80X14	ES5 PINO LA	2.700	0.0
848	196	133	ES5 40x80	ES5 PINO LA	2.438	0.0
849	133	183	ES5 40x80	ES5 PINO LA	0.262	0.0
850	183	128	ES5 40x80	ES5 PINO LA	0.262	0.0
851	128	3690	ES5 40x80	ES5 PINO LA	2.438	0.0
866	197	134	ES5 40x80	ES5 PINO LA	2.177	0.0
867	134	184	ES5 40x80	ES5 PINO LA	0.523	0.0
868	184	129	ES5 40x80	ES5 PINO LA	0.523	0.0
869	129	3689	ES5 40x80	ES5 PINO LA	2.177	0.0
884	198	135	ES5 40x80	ES5 PINO LA	1.915	0.0
885	135	185	ES5 40x80	ES5 PINO LA	0.785	0.0
886	185	130	ES5 40x80	ES5 PINO LA	0.785	0.0
887	130	3688	ES5 40x80	ES5 PINO LA	1.915	0.0
902	199	136	ES5 40x80	ES5 PINO LA	1.654	0.0
903	136	186	ES5 40x80	ES5 PINO LA	1.046	0.0
904	186	131	ES5 40x80	ES5 PINO LA	1.046	0.0
905	131	3687	ES5 40x80	ES5 PINO LA	1.654	0.0
940	455	137	ES5 80X14	ES5 PINO LA	1.392	0.0
941	137	435	ES5 80X14	ES5 PINO LA	1.308	0.0
942	435	132	ES5 80X14	ES5 PINO LA	1.308	0.0
943	132	630	ES5 80X14	ES5 PINO LA	1.392	0.0
952	455	99	ES5 80X14	*ES5 PINO LA*	0.565	0.0

Member	Node 1	Node 2	Section	Material	Length (m)	Gamma (Deg)
953	99	221	ES5 80X14	*ES5 PINO LA*	0.565	0.0
954	221	106	ES5 80X14	*ES5 PINO LA*	0.565	0.0
955	106	3847	ES5 80X14	*ES5 PINO LA*	0.565	0.0
971	99	217	ES5 40x80	ES5 PINO LA	2.700	0.0
972	217	3955	ES5 40x80	ES5 PINO LA	2.700	0.0
980	221	218	ES5 40x80	ES5 PINO LA	2.700	0.0
981	218	3671	ES5 40x80	ES5 PINO LA	2.700	0.0
989	106	219	ES5 40x80	ES5 PINO LA	2.700	0.0
990	219	3960	ES5 40x80	ES5 PINO LA	2.700	0.0
1006	3847	61	ES5 80X14	*ES5 PINO LA*	0.587	0.0
1007	61	242	ES5 80X14	*ES5 PINO LA*	0.587	0.0
1008	242	60	ES5 80X14	*ES5 PINO LA*	0.587	0.0
1009	60	244	ES5 80X14	*ES5 PINO LA*	0.587	0.0
1010	244	452	ES5 80X14	*ES5 PINO LA*	0.590	0.0
1122	3847	3846	ES5 40x80	ES5 PINO LA	2.700	0.0
1123	3846	3565	ES5 40x80	ES5 PINO LA	2.700	0.0
1125	3846	435	ES5 80X14	ES5 PINO LA	2.260	0.0
1131	3828	3829	2-ES5 80X1	*ES5 PINO LA*	2.280	0.0
1132	3830	3831	2-ES5 80X1	*ES5 PINO LA*	2.280	0.0
1140	3827	3829	ES5 80X14	ES5 PINO LA	2.700	0.0
1141	3829	3831	ES5 80X14	ES5 PINO LA	2.700	0.0
1151	3829	432	ES5 80X14	ES5 PINO LA	2.700	0.0
1152	3831	452	ES5 80X14	ES5 PINO LA	2.700	0.0
1161	3829	3846	ES5 40x80	ES5 PINO LA	1.138	0.0
1162	3831	3847	ES5 40x80	ES5 PINO LA	1.138	0.0
1171	3854	3827	2-ES5 80X1	*ES5 PINO LA*	2.280	0.0
1172	3827	412	ES5 80X14	ES5 PINO LA	2.700	0.0
1173	3827	3565	ES5 40x80	ES5 PINO LA	1.138	0.0
1174	3827	3855	ES5 80X14	ES5 PINO LA	2.091	0.0
1175	3856	401	2-ES5 80X1	*ES5 PINO LA*	2.280	0.0
1176	401	402	ES5 80X14	*ES5 PINO LA*	2.709	0.0
1177	3857	402	2-ES5 80X1	*ES5 PINO LA*	2.280	0.0
1179	402	622	ES5 80X22	*ES5 PINO LA*	2.895	0.0
1181	3861	412	2-ES5 80X1	*ES5 PINO LA*	2.280	0.0
1184	402	3563	ES5 40x80	*ES5 PINO LA*	1.138	0.0
1185	402	3865	ES5 80X14	*ES5 PINO LA*	2.090	0.0
1187	3866	3855	ES5 80X14	*ES5 PINO LA*	1.960	0.0
1188	3867	3865	2-ES5 80X1	*ES5 PINO LA*	2.280	0.0
1189	3865	622	ES5 80X14	*ES5 PINO LA*	2.008	0.0
1190	3868	3866	2-ES5 80X1	*ES5 PINO LA*	2.280	0.0
1191	3866	3858	2-ES5 80X1	*ES5 PINO LA*	2.008	0.0
1192	3869	3855	2-ES5 80X1	*ES5 PINO LA*	2.280	0.0
1193	3855	630	ES5 80X14	*ES5 PINO LA*	2.008	0.0
1194	3855	3858	ES5 40x80	ES5 PINO LA	2.809	0.0

Member	Node 1	Node 2	Section	Material	Length (m)	Gamma (Deg)
1195	3865	3858	ES5 40x80	ES5 PINO LA	2.803	0.0
1196	3563	4005	ES5 80X14	*ES5 PINO LA*	0.587	0.0
1197	4005	4003	ES5 80X14	*ES5 PINO LA*	0.587	0.0
1198	4003	4001	ES5 80X14	*ES5 PINO LA*	0.587	0.0
1199	4001	3999	ES5 80X14	*ES5 PINO LA*	0.587	0.0
1200	3999	401	ES5 80X14	*ES5 PINO LA*	0.590	0.0
1201	622	3924	ES5 80X14	*ES5 PINO LA*	0.565	0.0
1202	3924	3665	ES5 80X14	*ES5 PINO LA*	0.565	0.0
1203	3665	3920	ES5 80X14	*ES5 PINO LA*	0.565	0.0
1204	3920	3563	ES5 80X14	*ES5 PINO LA*	0.565	0.0
1205	622	3683	ES5 80X22	*ES5 PINO LA*	0.543	0.0
1206	3683	3684	ES5 80X22	*ES5 PINO LA*	0.543	0.0
1207	3684	3685	ES5 80X22	*ES5 PINO LA*	0.543	0.0
1208	3685	3686	ES5 80X22	*ES5 PINO LA*	0.543	0.0
1209	3686	406	ES5 80X22	*ES5 PINO LA*	0.543	0.0
1211	630	3687	ES5 80X22	*ES5 PINO LA*	0.543	0.0
1212	3687	3688	ES5 80X22	*ES5 PINO LA*	0.543	0.0
1213	3688	3689	ES5 80X22	*ES5 PINO LA*	0.543	0.0
1214	3689	3690	ES5 80X22	*ES5 PINO LA*	0.543	0.0
1215	3690	406	ES5 80X22	*ES5 PINO LA*	0.543	0.0
1217	630	3955	ES5 80X14	*ES5 PINO LA*	0.565	0.0
1218	3955	3671	ES5 80X14	*ES5 PINO LA*	0.565	0.0
1219	3671	3960	ES5 80X14	*ES5 PINO LA*	0.565	0.0
1220	3960	3565	ES5 80X14	*ES5 PINO LA*	0.565	0.0
1221	3565	3963	ES5 80X14	*ES5 PINO LA*	0.587	0.0
1222	3963	3966	ES5 80X14	*ES5 PINO LA*	0.587	0.0
1223	3966	3969	ES5 80X14	*ES5 PINO LA*	0.587	0.0
1224	3969	3972	ES5 80X14	*ES5 PINO LA*	0.587	0.0
1225	3972	412	ES5 80X14	*ES5 PINO LA*	0.590	0.0
1226	3628	3831	ES5 80X14	ES5 PINO LA	2.091	0.0
1366	3858	406	2-ES5 80X1	ES5 PINO LA	1.880	0.0
1367	455	445	ES5 80X14	ES5 PINO LA	1.960	0.0
1368	445	444	ES5 80X14	ES5 PINO LA	1.959	0.0
1369	445	446	2-ES5 80X1	ES5 PINO LA	1.880	0.0
1370	435	424	ES5 80X14	ES5 PINO LA	3.919	0.0
1371	3974	426	2-ES5 80X1	ES5 PINO LA	1.880	0.0
1372	630	3858	ES5 80X14	ES5 PINO LA	1.960	0.0
1373	3858	622	ES5 80X14	ES5 PINO LA	1.959	0.0
1376	3827	132	ES5 80X22	ES5 PINO LA	3.218	0.0
1377	3831	137	ES5 80X22	ES5 PINO LA	3.218	0.0
1380	3829	132	ES5 80X14	ES5 PINO LA	3.183	0.0
1381	3829	137	ES5 80X14	ES5 PINO LA	3.183	0.0
1511	3846	4057	ES5 80X14	*ES5 PINO LA*	0.587	0.0
1512	4057	4058	ES5 80X14	*ES5 PINO LA*	0.587	0.0

Member	Node 1	Node 2	Section	Material	Length (m)	Gamma (Deg)
1513	4058	4059	ES5 80X14	*ES5 PINO LA*	0.587	0.0
1514	4059	4060	ES5 80X14	*ES5 PINO LA*	0.587	0.0
1515	4060	432	ES5 80X14	*ES5 PINO LA*	0.590	0.0
1522	3972	4060	ES5 40x80	ES5 PINO LA	2.700	0.0
1523	4060	244	ES5 40x80	ES5 PINO LA	2.700	0.0
1525	3969	4059	ES5 40x80	ES5 PINO LA	2.700	0.0
1526	4059	60	ES5 40x80	ES5 PINO LA	2.700	0.0
1528	3966	4058	ES5 40x80	ES5 PINO LA	2.700	0.0
1529	4058	242	ES5 40x80	ES5 PINO LA	2.700	0.0
1531	3963	4057	ES5 40x80	ES5 PINO LA	2.700	0.0
1532	4057	61	ES5 40x80	ES5 PINO LA	2.700	0.0
1533	4061	15	2-ES5 80X1	*ES5 PINO LA*	2.280	0.0
1534	4062	16	2-ES5 80X1	*ES5 PINO LA*	2.280	0.0
1535	16	18	ES5 80X14	*ES5 PINO LA*	2.709	0.0
1536	4063	18	2-ES5 80X1	*ES5 PINO LA*	2.280	0.0
1537	18	4064	ES5 80X22	*ES5 PINO LA*	2.895	0.0
1538	4065	4064	ES5 80X14	ES5 PINO LA	3.919	0.0
1539	4066	4067	2-ES5 80X1	ES5 PINO LA	1.880	0.0
1540	4068	23	2-ES5 80X1	*ES5 PINO LA*	2.280	0.0
1541	4069	15	ES5 80X14	ES5 PINO LA	2.700	0.0
1542	4069	4070	ES5 80X22	ES5 PINO LA	3.218	0.0
1543	15	3827	ES5 80X14	ES5 PINO LA	2.700	0.0
1544	3827	4071	ES5 80X22	ES5 PINO LA	3.218	0.0
1545	4072	4073	ES5 80X14	*ES5 PINO LA*	0.587	0.0
1546	401	16	ES5 80X14	*ES5 PINO LA*	2.700	0.0
1547	16	4074	ES5 80X14	*ES5 PINO LA*	2.700	0.0
1548	402	18	ES5 80X14	*ES5 PINO LA*	2.700	0.0
1549	18	4075	ES5 80X14	*ES5 PINO LA*	2.700	0.0
1550	15	4070	ES5 80X14	ES5 PINO LA	3.183	0.0
1551	4073	4077	ES5 80X14	*ES5 PINO LA*	0.587	0.0
1552	412	23	ES5 80X14	*ES5 PINO LA*	2.700	0.0
1553	23	4076	ES5 80X14	*ES5 PINO LA*	2.700	0.0
1554	15	4071	ES5 80X14	ES5 PINO LA	3.183	0.0
1555	406	4067	ES5 80X14	*ES5 PINO LA*	2.700	0.0
1556	4067	4078	ES5 80X14	*ES5 PINO LA*	2.700	0.0
1557	18	4081	ES5 80X14	*ES5 PINO LA*	3.115	0.0
1558	18	4082	ES5 80X14	*ES5 PINO LA*	3.115	0.0
1559	15	23	ES5 80X14	ES5 PINO LA	2.700	0.0
1560	4077	4079	ES5 80X14	*ES5 PINO LA*	0.587	0.0
1561	4079	4080	ES5 80X14	*ES5 PINO LA*	0.587	0.0
1562	4080	23	ES5 80X14	*ES5 PINO LA*	0.590	0.0
1563	4083	4080	ES5 40x80	ES5 PINO LA	2.700	0.0
1564	4080	3972	ES5 40x80	ES5 PINO LA	2.700	0.0
1565	4084	4079	ES5 40x80	ES5 PINO LA	2.700	0.0

Member	Node 1	Node 2	Section	Material	Length (m)	Gamma (Deg)
1566	4079	3969	ES5 40x80	ES5 PINO LA	2.700	0.0
1567	3565	4072	ES5 40x80	ES5 PINO LA	2.700	0.0
1568	15	4072	ES5 40x80	ES5 PINO LA	1.138	0.0
1569	4085	4077	ES5 40x80	ES5 PINO LA	2.700	0.0
1570	4077	3966	ES5 40x80	ES5 PINO LA	2.700	0.0
1571	4072	4087	ES5 40x80	ES5 PINO LA	2.700	0.0
1572	4086	4073	ES5 40x80	ES5 PINO LA	2.700	0.0
1573	4073	3963	ES5 40x80	ES5 PINO LA	2.700	0.0
1574	4072	4065	ES5 80X14	ES5 PINO LA	2.260	0.0
1575	18	4088	ES5 40x80	*ES5 PINO LA*	1.138	0.0
1577	622	4064	ES5 80X14	ES5 PINO LA	2.700	0.0
1578	4064	4110	ES5 80X14	ES5 PINO LA	2.700	0.0
1579	4088	4089	ES5 80X14	*ES5 PINO LA*	0.587	0.0
1580	4089	4090	ES5 80X14	*ES5 PINO LA*	0.587	0.0
1581	4090	4091	ES5 80X14	*ES5 PINO LA*	0.587	0.0
1582	4091	4092	ES5 80X14	*ES5 PINO LA*	0.587	0.0
1583	4092	16	ES5 80X14	*ES5 PINO LA*	0.590	0.0
1584	3999	4092	ES5 40x80	ES5 PINO LA	2.700	0.0
1585	4092	4094	ES5 40x80	ES5 PINO LA	2.700	0.0
1586	4001	4091	ES5 40x80	ES5 PINO LA	2.700	0.0
1587	4091	4095	ES5 40x80	ES5 PINO LA	2.700	0.0
1588	4003	4090	ES5 40x80	ES5 PINO LA	2.700	0.0
1589	4090	4096	ES5 40x80	ES5 PINO LA	2.700	0.0
1590	4005	4089	ES5 40x80	ES5 PINO LA	2.700	0.0
1591	4089	4097	ES5 40x80	ES5 PINO LA	2.700	0.0
1592	3563	4088	ES5 40x80	ES5 PINO LA	2.700	0.0
1593	4088	4098	ES5 40x80	ES5 PINO LA	2.700	0.0
1594	4064	4099	ES5 80X14	*ES5 PINO LA*	0.565	0.0
1595	4099	4100	ES5 80X14	*ES5 PINO LA*	0.565	0.0
1596	4100	4101	ES5 80X14	*ES5 PINO LA*	0.565	0.0
1597	4101	4088	ES5 80X14	*ES5 PINO LA*	0.565	0.0
1598	402	4102	ES5 80X22	*ES5 PINO LA*	3.815	0.0
1599	4102	4103	ES5 80X22	*ES5 PINO LA*	0.603	0.0
1600	4103	4104	ES5 80X22	*ES5 PINO LA*	0.603	0.0
1601	4104	4105	ES5 80X22	*ES5 PINO LA*	0.603	0.0
1602	4105	4067	ES5 80X22	*ES5 PINO LA*	0.603	0.0
1603	4075	4106	ES5 80X22	*ES5 PINO LA*	3.815	0.0
1604	4106	4107	ES5 80X22	*ES5 PINO LA*	0.603	0.0
1605	4107	4108	ES5 80X22	*ES5 PINO LA*	0.603	0.0
1606	4108	4109	ES5 80X22	*ES5 PINO LA*	0.603	0.0
1607	4109	4067	ES5 80X22	*ES5 PINO LA*	0.603	0.0
1608	3920	4101	ES5 40x80	ES5 PINO LA	2.700	0.0
1609	4101	4111	ES5 40x80	ES5 PINO LA	2.700	0.0
1610	3665	4100	ES5 40x80	ES5 PINO LA	2.700	0.0

Member	Node 1	Node 2	Section	Material	Length (m)	Gamma (Deg)
1611	4100	4112	ES5 40x80	ES5 PINO LA	2.700	0.0
1612	3924	4099	ES5 40x80	ES5 PINO LA	2.700	0.0
1613	4099	4113	ES5 40x80	ES5 PINO LA	2.700	0.0
1614	4064	4114	ES5 80X22	*ES5 PINO LA*	0.543	0.0
1615	4114	4115	ES5 80X22	*ES5 PINO LA*	0.543	0.0
1616	4115	4116	ES5 80X22	*ES5 PINO LA*	0.543	0.0
1617	4116	4117	ES5 80X22	*ES5 PINO LA*	0.543	0.0
1618	4117	4067	ES5 80X22	*ES5 PINO LA*	0.543	0.0
1619	3683	4102	ES5 40x80	ES5 PINO LA	1.654	0.0
1620	4102	4114	ES5 40x80	ES5 PINO LA	1.046	0.0
1621	4114	4106	ES5 40x80	ES5 PINO LA	1.046	0.0
1622	4106	4118	ES5 40x80	ES5 PINO LA	1.654	0.0
1623	3684	4103	ES5 40x80	ES5 PINO LA	1.915	0.0
1624	4103	4115	ES5 40x80	ES5 PINO LA	0.785	0.0
1625	4115	4107	ES5 40x80	ES5 PINO LA	0.785	0.0
1626	4107	4119	ES5 40x80	ES5 PINO LA	1.915	0.0
1627	3685	4104	ES5 40x80	ES5 PINO LA	2.177	0.0
1628	4104	4116	ES5 40x80	ES5 PINO LA	0.523	0.0
1629	4116	4108	ES5 40x80	ES5 PINO LA	0.523	0.0
1630	4108	4120	ES5 40x80	ES5 PINO LA	2.177	0.0
1631	3686	4105	ES5 40x80	ES5 PINO LA	2.438	0.0
1632	4105	4117	ES5 40x80	ES5 PINO LA	0.262	0.0
1633	4117	4109	ES5 40x80	ES5 PINO LA	0.262	0.0
1634	4109	4121	ES5 40x80	ES5 PINO LA	2.438	0.0
1635	4070	4122	ES5 80X22	*ES5 PINO LA*	0.603	0.0
1636	4122	4123	ES5 80X22	*ES5 PINO LA*	0.603	0.0
1637	4123	4124	ES5 80X22	*ES5 PINO LA*	0.603	0.0
1638	4124	4125	ES5 80X22	*ES5 PINO LA*	0.603	0.0
1639	4125	4067	ES5 80X22	*ES5 PINO LA*	0.603	0.0
1640	4071	4126	ES5 80X22	*ES5 PINO LA*	0.603	0.0
1641	4126	4127	ES5 80X22	*ES5 PINO LA*	0.603	0.0
1642	4127	4128	ES5 80X22	*ES5 PINO LA*	0.603	0.0
1643	4128	4129	ES5 80X22	*ES5 PINO LA*	0.603	0.0
1644	4129	4067	ES5 80X22	*ES5 PINO LA*	0.603	0.0
1645	4065	4130	ES5 80X22	*ES5 PINO LA*	0.543	0.0
1646	4130	4131	ES5 80X22	*ES5 PINO LA*	0.543	0.0
1647	4131	4132	ES5 80X22	*ES5 PINO LA*	0.543	0.0
1648	4132	4133	ES5 80X22	*ES5 PINO LA*	0.543	0.0
1649	4133	4067	ES5 80X22	*ES5 PINO LA*	0.543	0.0
1650	3690	4129	ES5 40x80	ES5 PINO LA	2.438	0.0
1651	4129	4133	ES5 40x80	ES5 PINO LA	0.262	0.0
1652	4133	4125	ES5 40x80	ES5 PINO LA	0.262	0.0
1653	4125	4134	ES5 40x80	ES5 PINO LA	2.438	0.0
1654	3689	4128	ES5 40x80	ES5 PINO LA	2.177	0.0

Member	Node 1	Node 2	Section	Material	Length (m)	Gamma (Deg)
1655	4128	4132	ES5 40x80	ES5 PINO LA	0.523	0.0
1656	4132	4124	ES5 40x80	ES5 PINO LA	0.523	0.0
1657	4124	4135	ES5 40x80	ES5 PINO LA	2.177	0.0
1658	3688	4127	ES5 40x80	ES5 PINO LA	1.915	0.0
1659	4127	4131	ES5 40x80	ES5 PINO LA	0.785	0.0
1660	4131	4123	ES5 40x80	ES5 PINO LA	0.785	0.0
1661	4123	4136	ES5 40x80	ES5 PINO LA	1.915	0.0
1662	3687	4126	ES5 40x80	ES5 PINO LA	1.654	0.0
1663	4126	4130	ES5 40x80	ES5 PINO LA	1.046	0.0
1664	4130	4122	ES5 40x80	ES5 PINO LA	1.046	0.0
1665	4122	4137	ES5 40x80	ES5 PINO LA	1.654	0.0
1666	630	4071	ES5 80X14	ES5 PINO LA	1.392	0.0
1667	4071	4065	ES5 80X14	ES5 PINO LA	1.308	0.0
1668	4065	4070	ES5 80X14	ES5 PINO LA	1.308	0.0
1669	4070	4138	ES5 80X14	ES5 PINO LA	1.392	0.0
1670	3955	4139	ES5 40x80	ES5 PINO LA	2.700	0.0
1671	4139	4140	ES5 40x80	ES5 PINO LA	2.700	0.0
1672	3671	4141	ES5 40x80	ES5 PINO LA	2.700	0.0
1673	4141	4142	ES5 40x80	ES5 PINO LA	2.700	0.0
1674	3960	4143	ES5 40x80	ES5 PINO LA	2.700	0.0
1675	4143	4144	ES5 40x80	ES5 PINO LA	2.700	0.0
1676	4145	4146	2-ES5 80X1	*ES5 PINO LA*	2.280	0.0
1677	4147	4148	2-ES5 80X1	*ES5 PINO LA*	2.280	0.0
1678	4148	4149	ES5 80X14	*ES5 PINO LA*	2.709	0.0
1679	4150	4149	2-ES5 80X1	*ES5 PINO LA*	2.280	0.0
1680	4149	4151	ES5 80X22	*ES5 PINO LA*	2.895	0.0
1681	4152	4151	ES5 80X14	ES5 PINO LA	3.919	0.0
1682	4153	4154	2-ES5 80X1	ES5 PINO LA	1.880	0.0
1683	4155	4156	2-ES5 80X1	*ES5 PINO LA*	2.280	0.0
1684	4157	4146	ES5 80X14	ES5 PINO LA	2.700	0.0
1685	4157	4158	ES5 80X22	ES5 PINO LA	3.218	0.0
1686	4146	4069	ES5 80X14	ES5 PINO LA	2.700	0.0
1687	4069	4159	ES5 80X22	ES5 PINO LA	3.218	0.0
1688	4160	4161	ES5 80X14	*ES5 PINO LA*	0.587	0.0
1689	4074	4148	ES5 80X14	*ES5 PINO LA*	2.700	0.0
1690	4148	4162	ES5 80X14	*ES5 PINO LA*	2.700	0.0
1691	4075	4149	ES5 80X14	*ES5 PINO LA*	2.700	0.0
1692	4149	4163	ES5 80X14	*ES5 PINO LA*	2.700	0.0
1693	4146	4158	ES5 80X14	ES5 PINO LA	3.183	0.0
1694	4161	4165	ES5 80X14	*ES5 PINO LA*	0.587	0.0
1695	4076	4156	ES5 80X14	*ES5 PINO LA*	2.700	0.0
1696	4156	4164	ES5 80X14	*ES5 PINO LA*	2.700	0.0
1697	4146	4159	ES5 80X14	ES5 PINO LA	3.183	0.0
1698	4078	4154	ES5 80X14	*ES5 PINO LA*	2.700	0.0

Member	Node 1	Node 2	Section	Material	Length (m)	Gamma (Deg)
1699	4154	4166	ES5 80X14	*ES5 PINO LA*	2.700	0.0
1700	4149	4169	ES5 80X14	*ES5 PINO LA*	3.115	0.0
1701	4149	4170	ES5 80X14	*ES5 PINO LA*	3.115	0.0
1702	4146	4156	ES5 80X14	ES5 PINO LA	2.700	0.0
1703	4165	4167	ES5 80X14	*ES5 PINO LA*	0.587	0.0
1704	4167	4168	ES5 80X14	*ES5 PINO LA*	0.587	0.0
1705	4168	4156	ES5 80X14	*ES5 PINO LA*	0.590	0.0
1706	4171	4168	ES5 40x80	ES5 PINO LA	2.700	0.0
1707	4168	4083	ES5 40x80	ES5 PINO LA	2.700	0.0
1708	4172	4167	ES5 40x80	ES5 PINO LA	2.700	0.0
1709	4167	4084	ES5 40x80	ES5 PINO LA	2.700	0.0
1710	4087	4160	ES5 40x80	ES5 PINO LA	2.700	0.0
1711	4146	4160	ES5 40x80	ES5 PINO LA	1.138	0.0
1712	4173	4165	ES5 40x80	ES5 PINO LA	2.700	0.0
1713	4165	4085	ES5 40x80	ES5 PINO LA	2.700	0.0
1714	4160	4175	ES5 40x80	ES5 PINO LA	2.700	0.0
1715	4174	4161	ES5 40x80	ES5 PINO LA	2.700	0.0
1716	4161	4086	ES5 40x80	ES5 PINO LA	2.700	0.0
1717	4160	4152	ES5 80X14	ES5 PINO LA	2.260	0.0
1718	4149	4176	ES5 40x80	*ES5 PINO LA*	1.138	0.0
1720	4110	4151	ES5 80X14	ES5 PINO LA	2.700	0.0
1721	4151	4198	ES5 80X14	ES5 PINO LA	2.700	0.0
1722	4176	4177	ES5 80X14	*ES5 PINO LA*	0.587	0.0
1723	4177	4178	ES5 80X14	*ES5 PINO LA*	0.587	0.0
1724	4178	4179	ES5 80X14	*ES5 PINO LA*	0.587	0.0
1725	4179	4180	ES5 80X14	*ES5 PINO LA*	0.587	0.0
1726	4180	4148	ES5 80X14	*ES5 PINO LA*	0.590	0.0
1727	4094	4180	ES5 40x80	ES5 PINO LA	2.700	0.0
1728	4180	4182	ES5 40x80	ES5 PINO LA	2.700	0.0
1729	4095	4179	ES5 40x80	ES5 PINO LA	2.700	0.0
1730	4179	4183	ES5 40x80	ES5 PINO LA	2.700	0.0
1731	4096	4178	ES5 40x80	ES5 PINO LA	2.700	0.0
1732	4178	4184	ES5 40x80	ES5 PINO LA	2.700	0.0
1733	4097	4177	ES5 40x80	ES5 PINO LA	2.700	0.0
1734	4177	4185	ES5 40x80	ES5 PINO LA	2.700	0.0
1735	4098	4176	ES5 40x80	ES5 PINO LA	2.700	0.0
1736	4176	4186	ES5 40x80	ES5 PINO LA	2.700	0.0
1737	4151	4187	ES5 80X14	*ES5 PINO LA*	0.565	0.0
1738	4187	4188	ES5 80X14	*ES5 PINO LA*	0.565	0.0
1739	4188	4189	ES5 80X14	*ES5 PINO LA*	0.565	0.0
1740	4189	4176	ES5 80X14	*ES5 PINO LA*	0.565	0.0
1741	4075	4190	ES5 80X22	*ES5 PINO LA*	3.815	0.0
1742	4190	4191	ES5 80X22	*ES5 PINO LA*	0.603	0.0
1743	4191	4192	ES5 80X22	*ES5 PINO LA*	0.603	0.0

Member	Node 1	Node 2	Section	Material	Length (m)	Gamma (Deg)
1744	4192	4193	ES5 80X22	*ES5 PINO LA*	0.603	0.0
1745	4193	4154	ES5 80X22	*ES5 PINO LA*	0.603	0.0
1746	4163	4194	ES5 80X22	*ES5 PINO LA*	3.815	0.0
1747	4194	4195	ES5 80X22	*ES5 PINO LA*	0.603	0.0
1748	4195	4196	ES5 80X22	*ES5 PINO LA*	0.603	0.0
1749	4196	4197	ES5 80X22	*ES5 PINO LA*	0.603	0.0
1750	4197	4154	ES5 80X22	*ES5 PINO LA*	0.603	0.0
1751	4111	4189	ES5 40x80	ES5 PINO LA	2.700	0.0
1752	4189	4199	ES5 40x80	ES5 PINO LA	2.700	0.0
1753	4112	4188	ES5 40x80	ES5 PINO LA	2.700	0.0
1754	4188	4200	ES5 40x80	ES5 PINO LA	2.700	0.0
1755	4113	4187	ES5 40x80	ES5 PINO LA	2.700	0.0
1756	4187	4201	ES5 40x80	ES5 PINO LA	2.700	0.0
1757	4151	4202	ES5 80X22	*ES5 PINO LA*	0.543	0.0
1758	4202	4203	ES5 80X22	*ES5 PINO LA*	0.543	0.0
1759	4203	4204	ES5 80X22	*ES5 PINO LA*	0.543	0.0
1760	4204	4205	ES5 80X22	*ES5 PINO LA*	0.543	0.0
1761	4205	4154	ES5 80X22	*ES5 PINO LA*	0.543	0.0
1762	4118	4190	ES5 40x80	ES5 PINO LA	1.654	0.0
1763	4190	4202	ES5 40x80	ES5 PINO LA	1.046	0.0
1764	4202	4194	ES5 40x80	ES5 PINO LA	1.046	0.0
1765	4194	4206	ES5 40x80	ES5 PINO LA	1.654	0.0
1766	4119	4191	ES5 40x80	ES5 PINO LA	1.915	0.0
1767	4191	4203	ES5 40x80	ES5 PINO LA	0.785	0.0
1768	4203	4195	ES5 40x80	ES5 PINO LA	0.785	0.0
1769	4195	4207	ES5 40x80	ES5 PINO LA	1.915	0.0
1770	4120	4192	ES5 40x80	ES5 PINO LA	2.177	0.0
1771	4192	4204	ES5 40x80	ES5 PINO LA	0.523	0.0
1772	4204	4196	ES5 40x80	ES5 PINO LA	0.523	0.0
1773	4196	4208	ES5 40x80	ES5 PINO LA	2.177	0.0
1774	4121	4193	ES5 40x80	ES5 PINO LA	2.438	0.0
1775	4193	4205	ES5 40x80	ES5 PINO LA	0.262	0.0
1776	4205	4197	ES5 40x80	ES5 PINO LA	0.262	0.0
1777	4197	4209	ES5 40x80	ES5 PINO LA	2.438	0.0
1778	4158	4210	ES5 80X22	*ES5 PINO LA*	0.603	0.0
1779	4210	4211	ES5 80X22	*ES5 PINO LA*	0.603	0.0
1780	4211	4212	ES5 80X22	*ES5 PINO LA*	0.603	0.0
1781	4212	4213	ES5 80X22	*ES5 PINO LA*	0.603	0.0
1782	4213	4154	ES5 80X22	*ES5 PINO LA*	0.603	0.0
1783	4159	4214	ES5 80X22	*ES5 PINO LA*	0.603	0.0
1784	4214	4215	ES5 80X22	*ES5 PINO LA*	0.603	0.0
1785	4215	4216	ES5 80X22	*ES5 PINO LA*	0.603	0.0
1786	4216	4217	ES5 80X22	*ES5 PINO LA*	0.603	0.0
1787	4217	4154	ES5 80X22	*ES5 PINO LA*	0.603	0.0

Member	Node 1	Node 2	Section	Material	Length (m)	Gamma (Deg)
1788	4152	4218	ES5 80X22	*ES5 PINO LA*	0.543	0.0
1789	4218	4219	ES5 80X22	*ES5 PINO LA*	0.543	0.0
1790	4219	4220	ES5 80X22	*ES5 PINO LA*	0.543	0.0
1791	4220	4221	ES5 80X22	*ES5 PINO LA*	0.543	0.0
1792	4221	4154	ES5 80X22	*ES5 PINO LA*	0.543	0.0
1793	4134	4217	ES5 40x80	ES5 PINO LA	2.438	0.0
1794	4217	4221	ES5 40x80	ES5 PINO LA	0.262	0.0
1795	4221	4213	ES5 40x80	ES5 PINO LA	0.262	0.0
1796	4213	4222	ES5 40x80	ES5 PINO LA	2.438	0.0
1797	4135	4216	ES5 40x80	ES5 PINO LA	2.177	0.0
1798	4216	4220	ES5 40x80	ES5 PINO LA	0.523	0.0
1799	4220	4212	ES5 40x80	ES5 PINO LA	0.523	0.0
1800	4212	4223	ES5 40x80	ES5 PINO LA	2.177	0.0
1801	4136	4215	ES5 40x80	ES5 PINO LA	1.915	0.0
1802	4215	4219	ES5 40x80	ES5 PINO LA	0.785	0.0
1803	4219	4211	ES5 40x80	ES5 PINO LA	0.785	0.0
1804	4211	4224	ES5 40x80	ES5 PINO LA	1.915	0.0
1805	4137	4214	ES5 40x80	ES5 PINO LA	1.654	0.0
1806	4214	4218	ES5 40x80	ES5 PINO LA	1.046	0.0
1807	4218	4210	ES5 40x80	ES5 PINO LA	1.046	0.0
1808	4210	4225	ES5 40x80	ES5 PINO LA	1.654	0.0
1809	4138	4159	ES5 80X14	ES5 PINO LA	1.392	0.0
1810	4159	4152	ES5 80X14	ES5 PINO LA	1.308	0.0
1811	4152	4158	ES5 80X14	ES5 PINO LA	1.308	0.0
1812	4158	4226	ES5 80X14	ES5 PINO LA	1.392	0.0
1813	4140	4227	ES5 40x80	ES5 PINO LA	2.700	0.0
1814	4227	4228	ES5 40x80	ES5 PINO LA	2.700	0.0
1815	4142	4229	ES5 40x80	ES5 PINO LA	2.700	0.0
1816	4229	4230	ES5 40x80	ES5 PINO LA	2.700	0.0
1817	4144	4231	ES5 40x80	ES5 PINO LA	2.700	0.0
1818	4231	4232	ES5 40x80	ES5 PINO LA	2.700	0.0
1819	4233	4157	2-ES5 80X1	*ES5 PINO LA*	2.280	0.0
1820	4234	4162	2-ES5 80X1	*ES5 PINO LA*	2.280	0.0
1821	4162	4163	ES5 80X14	*ES5 PINO LA*	2.709	0.0
1822	4235	4163	2-ES5 80X1	*ES5 PINO LA*	2.280	0.0
1823	4163	4198	ES5 80X22	*ES5 PINO LA*	2.895	0.0
1824	4226	4198	ES5 80X14	ES5 PINO LA	3.919	0.0
1825	4236	4166	2-ES5 80X1	ES5 PINO LA	1.880	0.0
1826	4237	4164	2-ES5 80X1	*ES5 PINO LA*	2.280	0.0
1827	4175	4174	ES5 80X14	*ES5 PINO LA*	0.587	0.0
1828	4174	4173	ES5 80X14	*ES5 PINO LA*	0.587	0.0
1829	4157	4164	ES5 80X14	ES5 PINO LA	2.700	0.0
1830	4173	4172	ES5 80X14	*ES5 PINO LA*	0.587	0.0
1831	4172	4171	ES5 80X14	*ES5 PINO LA*	0.587	0.0

Member	Node 1	Node 2	Section	Material	Length (m)	Gamma (Deg)
1832	4171	4164	ES5 80X14	*ES5 PINO LA*	0.590	0.0
1833	4157	4175	ES5 40x80	ES5 PINO LA	1.138	0.0
1834	4175	4226	ES5 80X14	ES5 PINO LA	2.260	0.0
1835	4163	4186	ES5 40x80	*ES5 PINO LA*	1.138	0.0
1837	4186	4185	ES5 80X14	*ES5 PINO LA*	0.587	0.0
1838	4185	4184	ES5 80X14	*ES5 PINO LA*	0.587	0.0
1839	4184	4183	ES5 80X14	*ES5 PINO LA*	0.587	0.0
1840	4183	4182	ES5 80X14	*ES5 PINO LA*	0.587	0.0
1841	4182	4162	ES5 80X14	*ES5 PINO LA*	0.590	0.0
1842	4198	4201	ES5 80X14	*ES5 PINO LA*	0.565	0.0
1843	4201	4200	ES5 80X14	*ES5 PINO LA*	0.565	0.0
1844	4200	4199	ES5 80X14	*ES5 PINO LA*	0.565	0.0
1845	4199	4186	ES5 80X14	*ES5 PINO LA*	0.565	0.0
1846	4198	4206	ES5 80X22	*ES5 PINO LA*	0.543	0.0
1847	4206	4207	ES5 80X22	*ES5 PINO LA*	0.543	0.0
1848	4207	4208	ES5 80X22	*ES5 PINO LA*	0.543	0.0
1849	4208	4209	ES5 80X22	*ES5 PINO LA*	0.543	0.0
1850	4209	4166	ES5 80X22	*ES5 PINO LA*	0.543	0.0
1851	4226	4225	ES5 80X22	*ES5 PINO LA*	0.543	0.0
1852	4225	4224	ES5 80X22	*ES5 PINO LA*	0.543	0.0
1853	4224	4223	ES5 80X22	*ES5 PINO LA*	0.543	0.0
1854	4223	4222	ES5 80X22	*ES5 PINO LA*	0.543	0.0
1855	4222	4166	ES5 80X22	*ES5 PINO LA*	0.543	0.0
1856	4246	4069	2-ES5 80X1	*ES5 PINO LA*	2.280	0.0
1857	4247	4074	2-ES5 80X1	*ES5 PINO LA*	2.280	0.0
1858	4074	4075	ES5 80X14	*ES5 PINO LA*	2.709	0.0
1859	4248	4075	2-ES5 80X1	*ES5 PINO LA*	2.280	0.0
1860	4075	4110	ES5 80X22	*ES5 PINO LA*	2.895	0.0
1861	4138	4110	ES5 80X14	ES5 PINO LA	3.919	0.0
1862	4249	4078	2-ES5 80X1	ES5 PINO LA	1.880	0.0
1863	4250	4076	2-ES5 80X1	*ES5 PINO LA*	2.280	0.0
1864	4087	4086	ES5 80X14	*ES5 PINO LA*	0.587	0.0
1865	4086	4085	ES5 80X14	*ES5 PINO LA*	0.587	0.0
1866	4069	4076	ES5 80X14	ES5 PINO LA	2.700	0.0
1867	4085	4084	ES5 80X14	*ES5 PINO LA*	0.587	0.0
1868	4084	4083	ES5 80X14	*ES5 PINO LA*	0.587	0.0
1869	4083	4076	ES5 80X14	*ES5 PINO LA*	0.590	0.0
1870	4069	4087	ES5 40x80	ES5 PINO LA	1.138	0.0
1871	4087	4138	ES5 80X14	ES5 PINO LA	2.260	0.0
1872	4075	4098	ES5 40x80	*ES5 PINO LA*	1.138	0.0
1874	4098	4097	ES5 80X14	*ES5 PINO LA*	0.587	0.0
1875	4097	4096	ES5 80X14	*ES5 PINO LA*	0.587	0.0
1876	4096	4095	ES5 80X14	*ES5 PINO LA*	0.587	0.0
1877	4095	4094	ES5 80X14	*ES5 PINO LA*	0.587	0.0

Member	Node 1	Node 2	Section	Material	Length (m)	Gamma (Deg)
1878	4094	4074	ES5 80X14	*ES5 PINO LA*	0.590	0.0
1879	4110	4113	ES5 80X14	*ES5 PINO LA*	0.565	0.0
1880	4113	4112	ES5 80X14	*ES5 PINO LA*	0.565	0.0
1881	4112	4111	ES5 80X14	*ES5 PINO LA*	0.565	0.0
1882	4111	4098	ES5 80X14	*ES5 PINO LA*	0.565	0.0
1883	4110	4118	ES5 80X22	*ES5 PINO LA*	0.543	0.0
1884	4118	4119	ES5 80X22	*ES5 PINO LA*	0.543	0.0
1885	4119	4120	ES5 80X22	*ES5 PINO LA*	0.543	0.0
1886	4120	4121	ES5 80X22	*ES5 PINO LA*	0.543	0.0
1887	4121	4078	ES5 80X22	*ES5 PINO LA*	0.543	0.0
1888	4138	4137	ES5 80X22	*ES5 PINO LA*	0.543	0.0
1889	4137	4136	ES5 80X22	*ES5 PINO LA*	0.543	0.0
1890	4136	4135	ES5 80X22	*ES5 PINO LA*	0.543	0.0
1891	4135	4134	ES5 80X22	*ES5 PINO LA*	0.543	0.0
1892	4134	4078	ES5 80X22	*ES5 PINO LA*	0.543	0.0
1893	4259	4260	2-ES5 80X1	*ES5 PINO LA*	2.280	0.0
1894	4261	4262	2-ES5 80X1	*ES5 PINO LA*	2.280	0.0
1895	4262	4263	ES5 80X14	*ES5 PINO LA*	2.709	0.0
1896	4264	4263	2-ES5 80X1	*ES5 PINO LA*	2.280	0.0
1897	4263	4265	ES5 80X22	*ES5 PINO LA*	2.895	0.0
1898	4266	4265	ES5 80X14	ES5 PINO LA	3.919	0.0
1899	4267	4268	2-ES5 80X1	ES5 PINO LA	1.880	0.0
1900	4269	4270	2-ES5 80X1	*ES5 PINO LA*	2.280	0.0
1903	4260	4157	ES5 80X14	ES5 PINO LA	2.700	0.0
1904	4157	4273	ES5 80X22	ES5 PINO LA	3.218	0.0
1905	4274	4275	ES5 80X14	*ES5 PINO LA*	0.587	0.0
1906	4162	4262	ES5 80X14	*ES5 PINO LA*	2.700	0.0
1908	4163	4263	ES5 80X14	*ES5 PINO LA*	2.700	0.0
1911	4275	4279	ES5 80X14	*ES5 PINO LA*	0.587	0.0
1912	4164	4270	ES5 80X14	*ES5 PINO LA*	2.700	0.0
1914	4260	4273	ES5 80X14	ES5 PINO LA	3.183	0.0
1915	4166	4268	ES5 80X14	*ES5 PINO LA*	2.700	0.0
1918	4263	4284	ES5 80X14	*ES5 PINO LA*	3.115	0.0
1919	4260	4270	ES5 80X14	ES5 PINO LA	2.700	0.0
1920	4279	4281	ES5 80X14	*ES5 PINO LA*	0.587	0.0
1921	4281	4282	ES5 80X14	*ES5 PINO LA*	0.587	0.0
1922	4282	4270	ES5 80X14	*ES5 PINO LA*	0.590	0.0
1924	4282	4171	ES5 40x80	ES5 PINO LA	2.700	0.0
1926	4281	4172	ES5 40x80	ES5 PINO LA	2.700	0.0
1927	4175	4274	ES5 40x80	ES5 PINO LA	2.700	0.0
1928	4260	4274	ES5 40x80	ES5 PINO LA	1.138	0.0
1930	4279	4173	ES5 40x80	ES5 PINO LA	2.700	0.0
1933	4275	4174	ES5 40x80	ES5 PINO LA	2.700	0.0
1934	4274	4266	ES5 80X14	ES5 PINO LA	2.260	0.0

Member	Node 1	Node 2	Section	Material	Length (m)	Gamma (Deg)
1935	4263	4290	ES5 40x80	*ES5 PINO LA*	1.138	0.0
1937	4198	4265	ES5 80X14	ES5 PINO LA	2.700	0.0
1939	4290	4291	ES5 80X14	*ES5 PINO LA*	0.587	0.0
1940	4291	4292	ES5 80X14	*ES5 PINO LA*	0.587	0.0
1941	4292	4293	ES5 80X14	*ES5 PINO LA*	0.587	0.0
1942	4293	4294	ES5 80X14	*ES5 PINO LA*	0.587	0.0
1943	4294	4262	ES5 80X14	*ES5 PINO LA*	0.590	0.0
1944	4182	4294	ES5 40x80	ES5 PINO LA	2.700	0.0
1946	4183	4293	ES5 40x80	ES5 PINO LA	2.700	0.0
1948	4184	4292	ES5 40x80	ES5 PINO LA	2.700	0.0
1950	4185	4291	ES5 40x80	ES5 PINO LA	2.700	0.0
1952	4186	4290	ES5 40x80	ES5 PINO LA	2.700	0.0
1954	4265	4301	ES5 80X14	*ES5 PINO LA*	0.565	0.0
1955	4301	4302	ES5 80X14	*ES5 PINO LA*	0.565	0.0
1956	4302	4303	ES5 80X14	*ES5 PINO LA*	0.565	0.0
1957	4303	4290	ES5 80X14	*ES5 PINO LA*	0.565	0.0
1958	4163	4304	ES5 80X22	*ES5 PINO LA*	3.815	0.0
1959	4304	4305	ES5 80X22	*ES5 PINO LA*	0.603	0.0
1960	4305	4306	ES5 80X22	*ES5 PINO LA*	0.603	0.0
1961	4306	4307	ES5 80X22	*ES5 PINO LA*	0.603	0.0
1962	4307	4268	ES5 80X22	*ES5 PINO LA*	0.603	0.0
1968	4199	4303	ES5 40x80	ES5 PINO LA	2.700	0.0
1970	4200	4302	ES5 40x80	ES5 PINO LA	2.700	0.0
1972	4201	4301	ES5 40x80	ES5 PINO LA	2.700	0.0
1974	4265	4316	ES5 80X22	*ES5 PINO LA*	0.543	0.0
1975	4316	4317	ES5 80X22	*ES5 PINO LA*	0.543	0.0
1976	4317	4318	ES5 80X22	*ES5 PINO LA*	0.543	0.0
1977	4318	4319	ES5 80X22	*ES5 PINO LA*	0.543	0.0
1978	4319	4268	ES5 80X22	*ES5 PINO LA*	0.543	0.0
1979	4206	4304	ES5 40x80	ES5 PINO LA	1.654	0.0
1980	4304	4316	ES5 40x80	ES5 PINO LA	1.046	0.0
1983	4207	4305	ES5 40x80	ES5 PINO LA	1.915	0.0
1984	4305	4317	ES5 40x80	ES5 PINO LA	0.785	0.0
1987	4208	4306	ES5 40x80	ES5 PINO LA	2.177	0.0
1988	4306	4318	ES5 40x80	ES5 PINO LA	0.523	0.0
1991	4209	4307	ES5 40x80	ES5 PINO LA	2.438	0.0
1992	4307	4319	ES5 40x80	ES5 PINO LA	0.262	0.0
2000	4273	4328	ES5 80X22	*ES5 PINO LA*	0.603	0.0
2001	4328	4329	ES5 80X22	*ES5 PINO LA*	0.603	0.0
2002	4329	4330	ES5 80X22	*ES5 PINO LA*	0.603	0.0
2003	4330	4331	ES5 80X22	*ES5 PINO LA*	0.603	0.0
2004	4331	4268	ES5 80X22	*ES5 PINO LA*	0.603	0.0
2005	4266	4332	ES5 80X22	*ES5 PINO LA*	0.543	0.0
2006	4332	4333	ES5 80X22	*ES5 PINO LA*	0.543	0.0

Member	Node 1	Node 2	Section	Material	Length (m)	Gamma (Deg)
2007	4333	4334	ES5 80X22	*ES5 PINO LA*	0.543	0.0
2008	4334	4335	ES5 80X22	*ES5 PINO LA*	0.543	0.0
2009	4335	4268	ES5 80X22	*ES5 PINO LA*	0.543	0.0
2010	4222	4331	ES5 40x80	ES5 PINO LA	2.438	0.0
2011	4331	4335	ES5 40x80	ES5 PINO LA	0.262	0.0
2014	4223	4330	ES5 40x80	ES5 PINO LA	2.177	0.0
2015	4330	4334	ES5 40x80	ES5 PINO LA	0.523	0.0
2018	4224	4329	ES5 40x80	ES5 PINO LA	1.915	0.0
2019	4329	4333	ES5 40x80	ES5 PINO LA	0.785	0.0
2022	4225	4328	ES5 40x80	ES5 PINO LA	1.654	0.0
2023	4328	4332	ES5 40x80	ES5 PINO LA	1.046	0.0
2026	4226	4273	ES5 80X14	ES5 PINO LA	1.392	0.0
2027	4273	4266	ES5 80X14	ES5 PINO LA	1.308	0.0
2030	4228	4341	ES5 40x80	ES5 PINO LA	2.700	0.0
2032	4230	4343	ES5 40x80	ES5 PINO LA	2.700	0.0
2034	4232	4345	ES5 40x80	ES5 PINO LA	2.700	0.0
2035	4346	4347	2-ES5 80X1	*ES5 PINO LA*	2.280	0.0
2036	4348	4349	2-ES5 80X1	*ES5 PINO LA*	2.280	0.0
2037	4349	4350	ES5 80X14	*ES5 PINO LA*	2.709	0.0
2038	4351	4350	2-ES5 80X1	*ES5 PINO LA*	2.280	0.0
2039	4350	4352	ES5 80X22	*ES5 PINO LA*	2.895	0.0
2040	4353	4352	ES5 80X14	ES5 PINO LA	3.919	0.0
2041	4354	4355	2-ES5 80X1	ES5 PINO LA	1.880	0.0
2042	4356	4357	2-ES5 80X1	*ES5 PINO LA*	2.280	0.0
2043	4347	4358	ES5 80X14	ES5 PINO LA	2.700	0.0
2044	4358	4359	ES5 80X22	ES5 PINO LA	3.218	0.0
2045	4360	4361	ES5 80X14	*ES5 PINO LA*	0.587	0.0
2046	4362	4349	ES5 80X14	*ES5 PINO LA*	2.700	0.0
2047	4363	4350	ES5 80X14	*ES5 PINO LA*	2.700	0.0
2048	4361	4365	ES5 80X14	*ES5 PINO LA*	0.587	0.0
2049	4364	4357	ES5 80X14	*ES5 PINO LA*	2.700	0.0
2050	4347	4359	ES5 80X14	ES5 PINO LA	3.183	0.0
2051	4366	4355	ES5 80X14	*ES5 PINO LA*	2.700	0.0
2052	4350	4369	ES5 80X14	*ES5 PINO LA*	3.115	0.0
2053	4347	4357	ES5 80X14	ES5 PINO LA	2.700	0.0
2054	4365	4367	ES5 80X14	*ES5 PINO LA*	0.587	0.0
2055	4367	4368	ES5 80X14	*ES5 PINO LA*	0.587	0.0
2056	4368	4357	ES5 80X14	*ES5 PINO LA*	0.590	0.0
2057	4368	4370	ES5 40x80	ES5 PINO LA	2.700	0.0
2058	4367	4371	ES5 40x80	ES5 PINO LA	2.700	0.0
2059	4373	4360	ES5 40x80	ES5 PINO LA	2.700	0.0
2060	4347	4360	ES5 40x80	ES5 PINO LA	1.138	0.0
2061	4365	4372	ES5 40x80	ES5 PINO LA	2.700	0.0
2062	4361	4374	ES5 40x80	ES5 PINO LA	2.700	0.0

Member	Node 1	Node 2	Section	Material	Length (m)	Gamma (Deg)
2063	4360	4353	ES5 80X14	ES5 PINO LA	2.260	0.0
2064	4350	4375	ES5 40x80	*ES5 PINO LA*	1.138	0.0
2066	4393	4352	ES5 80X14	ES5 PINO LA	2.700	0.0
2067	4375	4376	ES5 80X14	*ES5 PINO LA*	0.587	0.0
2068	4376	4377	ES5 80X14	*ES5 PINO LA*	0.587	0.0
2069	4377	4378	ES5 80X14	*ES5 PINO LA*	0.587	0.0
2070	4378	4379	ES5 80X14	*ES5 PINO LA*	0.587	0.0
2071	4379	4349	ES5 80X14	*ES5 PINO LA*	0.590	0.0
2072	4381	4379	ES5 40x80	ES5 PINO LA	2.700	0.0
2073	4382	4378	ES5 40x80	ES5 PINO LA	2.700	0.0
2074	4383	4377	ES5 40x80	ES5 PINO LA	2.700	0.0
2075	4384	4376	ES5 40x80	ES5 PINO LA	2.700	0.0
2076	4385	4375	ES5 40x80	ES5 PINO LA	2.700	0.0
2077	4352	4386	ES5 80X14	*ES5 PINO LA*	0.565	0.0
2078	4386	4387	ES5 80X14	*ES5 PINO LA*	0.565	0.0
2079	4387	4388	ES5 80X14	*ES5 PINO LA*	0.565	0.0
2080	4388	4375	ES5 80X14	*ES5 PINO LA*	0.565	0.0
2081	4363	4389	ES5 80X22	*ES5 PINO LA*	3.815	0.0
2082	4389	4390	ES5 80X22	*ES5 PINO LA*	0.603	0.0
2083	4390	4391	ES5 80X22	*ES5 PINO LA*	0.603	0.0
2084	4391	4392	ES5 80X22	*ES5 PINO LA*	0.603	0.0
2085	4392	4355	ES5 80X22	*ES5 PINO LA*	0.603	0.0
2086	4394	4388	ES5 40x80	ES5 PINO LA	2.700	0.0
2087	4395	4387	ES5 40x80	ES5 PINO LA	2.700	0.0
2088	4396	4386	ES5 40x80	ES5 PINO LA	2.700	0.0
2089	4352	4397	ES5 80X22	*ES5 PINO LA*	0.543	0.0
2090	4397	4398	ES5 80X22	*ES5 PINO LA*	0.543	0.0
2091	4398	4399	ES5 80X22	*ES5 PINO LA*	0.543	0.0
2092	4399	4400	ES5 80X22	*ES5 PINO LA*	0.543	0.0
2093	4400	4355	ES5 80X22	*ES5 PINO LA*	0.543	0.0
2094	4401	4389	ES5 40x80	ES5 PINO LA	1.654	0.0
2095	4389	4397	ES5 40x80	ES5 PINO LA	1.046	0.0
2096	4358	4260	ES5 80X14	ES5 PINO LA	2.700	0.0
2097	4358	4405	ES5 80X22	ES5 PINO LA	3.218	0.0
2098	4262	4362	ES5 80X14	*ES5 PINO LA*	2.700	0.0
2099	4263	4363	ES5 80X14	*ES5 PINO LA*	2.700	0.0
2100	4260	4405	ES5 80X14	ES5 PINO LA	3.183	0.0
2101	4270	4364	ES5 80X14	*ES5 PINO LA*	2.700	0.0
2102	4268	4366	ES5 80X14	*ES5 PINO LA*	2.700	0.0
2103	4263	4406	ES5 80X14	*ES5 PINO LA*	3.115	0.0
2104	4370	4282	ES5 40x80	ES5 PINO LA	2.700	0.0
2105	4371	4281	ES5 40x80	ES5 PINO LA	2.700	0.0
2106	4372	4279	ES5 40x80	ES5 PINO LA	2.700	0.0
2107	4274	4373	ES5 40x80	ES5 PINO LA	2.700	0.0

Member	Node 1	Node 2	Section	Material	Length (m)	Gamma (Deg)
2108	4374	4275	ES5 40x80	ES5 PINO LA	2.700	0.0
2109	4265	4393	ES5 80X14	ES5 PINO LA	2.700	0.0
2110	4294	4381	ES5 40x80	ES5 PINO LA	2.700	0.0
2111	4293	4382	ES5 40x80	ES5 PINO LA	2.700	0.0
2112	4292	4383	ES5 40x80	ES5 PINO LA	2.700	0.0
2113	4291	4384	ES5 40x80	ES5 PINO LA	2.700	0.0
2114	4290	4385	ES5 40x80	ES5 PINO LA	2.700	0.0
2115	4363	4407	ES5 80X22	*ES5 PINO LA*	3.815	0.0
2116	4407	4408	ES5 80X22	*ES5 PINO LA*	0.603	0.0
2117	4408	4409	ES5 80X22	*ES5 PINO LA*	0.603	0.0
2118	4409	4410	ES5 80X22	*ES5 PINO LA*	0.603	0.0
2119	4303	4394	ES5 40x80	ES5 PINO LA	2.700	0.0
2120	4302	4395	ES5 40x80	ES5 PINO LA	2.700	0.0
2121	4301	4396	ES5 40x80	ES5 PINO LA	2.700	0.0
2122	4316	4407	ES5 40x80	ES5 PINO LA	1.046	0.0
2123	4407	4401	ES5 40x80	ES5 PINO LA	1.654	0.0
2124	4317	4408	ES5 40x80	ES5 PINO LA	0.785	0.0
2125	4408	4402	ES5 40x80	ES5 PINO LA	1.915	0.0
2126	4318	4409	ES5 40x80	ES5 PINO LA	0.523	0.0
2127	4409	4403	ES5 40x80	ES5 PINO LA	2.177	0.0
2128	4410	4404	ES5 40x80	ES5 PINO LA	2.438	0.0
2129	4405	4411	ES5 80X22	*ES5 PINO LA*	0.603	0.0
2130	4411	4412	ES5 80X22	*ES5 PINO LA*	0.603	0.0
2131	4412	4413	ES5 80X22	*ES5 PINO LA*	0.603	0.0
2132	4413	4414	ES5 80X22	*ES5 PINO LA*	0.603	0.0
2133	4414	4415	ES5 40x80	ES5 PINO LA	2.438	0.0
2134	4334	4413	ES5 40x80	ES5 PINO LA	0.523	0.0
2135	4413	4416	ES5 40x80	ES5 PINO LA	2.177	0.0
2136	4333	4412	ES5 40x80	ES5 PINO LA	0.785	0.0
2137	4412	4417	ES5 40x80	ES5 PINO LA	1.915	0.0
2138	4332	4411	ES5 40x80	ES5 PINO LA	1.046	0.0
2139	4411	4418	ES5 40x80	ES5 PINO LA	1.654	0.0
2140	4266	4405	ES5 80X14	ES5 PINO LA	1.308	0.0
2141	4405	4419	ES5 80X14	ES5 PINO LA	1.392	0.0
2142	4341	4420	ES5 40x80	ES5 PINO LA	2.700	0.0
2143	4343	4421	ES5 40x80	ES5 PINO LA	2.700	0.0
2144	4345	4422	ES5 40x80	ES5 PINO LA	2.700	0.0
2145	4423	4358	2-ES5 80X1	*ES5 PINO LA*	2.280	0.0
2146	4424	4362	2-ES5 80X1	*ES5 PINO LA*	2.280	0.0
2147	4362	4363	ES5 80X14	*ES5 PINO LA*	2.709	0.0
2148	4425	4363	2-ES5 80X1	*ES5 PINO LA*	2.280	0.0
2149	4363	4393	ES5 80X22	*ES5 PINO LA*	2.895	0.0
2150	4419	4393	ES5 80X14	ES5 PINO LA	3.919	0.0
2151	4426	4366	2-ES5 80X1	ES5 PINO LA	1.880	0.0

Member	Node 1	Node 2	Section	Material	Length (m)	Gamma (Deg)
2152	4427	4364	2-ES5 80X1	*ES5 PINO LA*	2.280	0.0
2153	4373	4374	ES5 80X14	*ES5 PINO LA*	0.587	0.0
2154	4374	4372	ES5 80X14	*ES5 PINO LA*	0.587	0.0
2155	4358	4364	ES5 80X14	ES5 PINO LA	2.700	0.0
2156	4372	4371	ES5 80X14	*ES5 PINO LA*	0.587	0.0
2157	4371	4370	ES5 80X14	*ES5 PINO LA*	0.587	0.0
2158	4370	4364	ES5 80X14	*ES5 PINO LA*	0.590	0.0
2159	4358	4373	ES5 40x80	ES5 PINO LA	1.138	0.0
2160	4373	4419	ES5 80X14	ES5 PINO LA	2.260	0.0
2161	4363	4385	ES5 40x80	*ES5 PINO LA*	1.138	0.0
2163	4385	4384	ES5 80X14	*ES5 PINO LA*	0.587	0.0
2164	4384	4383	ES5 80X14	*ES5 PINO LA*	0.587	0.0
2165	4383	4382	ES5 80X14	*ES5 PINO LA*	0.587	0.0
2166	4382	4381	ES5 80X14	*ES5 PINO LA*	0.587	0.0
2167	4381	4362	ES5 80X14	*ES5 PINO LA*	0.590	0.0
2168	4393	4396	ES5 80X14	*ES5 PINO LA*	0.565	0.0
2169	4396	4395	ES5 80X14	*ES5 PINO LA*	0.565	0.0
2170	4395	4394	ES5 80X14	*ES5 PINO LA*	0.565	0.0
2171	4394	4385	ES5 80X14	*ES5 PINO LA*	0.565	0.0
2172	4393	4401	ES5 80X22	*ES5 PINO LA*	0.543	0.0
2173	4401	4402	ES5 80X22	*ES5 PINO LA*	0.543	0.0
2174	4402	4403	ES5 80X22	*ES5 PINO LA*	0.543	0.0
2175	4403	4404	ES5 80X22	*ES5 PINO LA*	0.543	0.0
2176	4404	4366	ES5 80X22	*ES5 PINO LA*	0.543	0.0
2177	4419	4418	ES5 80X22	*ES5 PINO LA*	0.543	0.0
2178	4418	4417	ES5 80X22	*ES5 PINO LA*	0.543	0.0
2179	4417	4416	ES5 80X22	*ES5 PINO LA*	0.543	0.0
2180	4416	4415	ES5 80X22	*ES5 PINO LA*	0.543	0.0
2181	4415	4366	ES5 80X22	*ES5 PINO LA*	0.543	0.0
2182	4402	4390	ES5 40x80	ES5 PINO LA	1.915	0.0
2183	4390	4398	ES5 40x80	ES5 PINO LA	0.785	0.0
2184	4403	4391	ES5 40x80	ES5 PINO LA	2.177	0.0
2185	4391	4399	ES5 40x80	ES5 PINO LA	0.523	0.0
2186	4404	4392	ES5 40x80	ES5 PINO LA	2.438	0.0
2187	4392	4400	ES5 40x80	ES5 PINO LA	0.262	0.0
2188	4359	4434	ES5 80X22	*ES5 PINO LA*	0.603	0.0
2189	4434	4435	ES5 80X22	*ES5 PINO LA*	0.603	0.0
2190	4435	4436	ES5 80X22	*ES5 PINO LA*	0.603	0.0
2191	4436	4437	ES5 80X22	*ES5 PINO LA*	0.603	0.0
2192	4437	4355	ES5 80X22	*ES5 PINO LA*	0.603	0.0
2193	4353	4438	ES5 80X22	*ES5 PINO LA*	0.543	0.0
2194	4438	4439	ES5 80X22	*ES5 PINO LA*	0.543	0.0
2195	4439	4440	ES5 80X22	*ES5 PINO LA*	0.543	0.0
2196	4440	4441	ES5 80X22	*ES5 PINO LA*	0.543	0.0

Member	Node 1	Node 2	Section	Material	Length (m)	Gamma (Deg)
2197	4441	4355	ES5 80X22	*ES5 PINO LA*	0.543	0.0
2198	4415	4437	ES5 40x80	ES5 PINO LA	2.438	0.0
2199	4437	4441	ES5 40x80	ES5 PINO LA	0.262	0.0
2200	4416	4436	ES5 40x80	ES5 PINO LA	2.177	0.0
2201	4436	4440	ES5 40x80	ES5 PINO LA	0.523	0.0
2202	4417	4435	ES5 40x80	ES5 PINO LA	1.915	0.0
2203	4435	4439	ES5 40x80	ES5 PINO LA	0.785	0.0
2204	4418	4434	ES5 40x80	ES5 PINO LA	1.654	0.0
2205	4434	4438	ES5 40x80	ES5 PINO LA	1.046	0.0
2206	4419	4359	ES5 80X14	ES5 PINO LA	1.392	0.0
2207	4359	4353	ES5 80X14	ES5 PINO LA	1.308	0.0
2208	4420	4442	ES5 40x80	ES5 PINO LA	2.700	0.0
2209	4421	4443	ES5 40x80	ES5 PINO LA	2.700	0.0
2210	4422	4444	ES5 40x80	ES5 PINO LA	2.700	0.0
2211	3627	3628	ES5 80X14	*ES5 PINO LA*	1.959	0.0
2212	4448	4347	ES5 80X14	ES5 PINO LA	2.091	0.0
2213	4350	4449	ES5 80X14	*ES5 PINO LA*	2.090	0.0
2214	4449	4450	ES5 80X14	*ES5 PINO LA*	1.959	0.0
2215	4451	4449	2-ES5 80X1	*ES5 PINO LA*	2.281	0.0
2216	4449	4352	ES5 80X14	*ES5 PINO LA*	2.008	0.0
2217	4452	4450	2-ES5 80X1	*ES5 PINO LA*	2.281	0.0
2218	4450	4354	2-ES5 80X1	*ES5 PINO LA*	2.008	0.0
2219	4454	4448	2-ES5 80X1	*ES5 PINO LA*	2.281	0.0
2220	4448	4353	ES5 80X14	*ES5 PINO LA*	2.008	0.0
2221	4448	4354	ES5 40x80	ES5 PINO LA	2.809	0.0
2222	4354	4449	ES5 40x80	ES5 PINO LA	2.803	0.0
2223	4450	4448	ES5 80X14	*ES5 PINO LA*	1.959	0.0
2226	4458	4260	ES5 80X14	ES5 PINO LA	2.091	0.0
2227	4263	4459	ES5 80X14	*ES5 PINO LA*	2.090	0.0
2228	4459	4460	ES5 80X14	*ES5 PINO LA*	1.959	0.0
2229	4461	4459	2-ES5 80X1	*ES5 PINO LA*	2.281	0.0
2230	4459	4265	ES5 80X14	*ES5 PINO LA*	2.008	0.0
2231	4462	4460	2-ES5 80X1	*ES5 PINO LA*	2.281	0.0
2232	4460	4267	2-ES5 80X1	*ES5 PINO LA*	2.008	0.0
2233	4464	4458	2-ES5 80X1	*ES5 PINO LA*	2.281	0.0
2234	4458	4266	ES5 80X14	*ES5 PINO LA*	2.008	0.0
2235	4458	4267	ES5 40x80	ES5 PINO LA	2.809	0.0
2236	4267	4459	ES5 40x80	ES5 PINO LA	2.803	0.0
2237	4460	4458	ES5 80X14	*ES5 PINO LA*	1.959	0.0
2238	4419	4358	ES5 80X22	ES5 PINO LA	2.902	0.0
2239	4266	4260	ES5 80X22	ES5 PINO LA	2.902	0.0
2240	4226	4157	ES5 80X22	ES5 PINO LA	2.902	0.0
2241	4152	4146	ES5 80X22	ES5 PINO LA	2.902	0.0
2242	4138	4069	ES5 80X22	ES5 PINO LA	2.902	0.0

Member	Node 1	Node 2	Section	Material	Length (m)	Gamma (Deg)
2243	4065	15	ES5 80X22	ES5 PINO LA	2.902	0.0
2244	630	3827	ES5 80X22	ES5 PINO LA	2.902	0.0
2245	435	3829	ES5 80X22	ES5 PINO LA	2.902	0.0
2246	3866	3865	ES5 80X14	ES5 PINO LA	1.959	0.0
2247	455	3831	ES5 80X22	ES5 PINO LA	2.902	0.0
2248	4353	4347	ES5 80X22	ES5 PINO LA	2.902	0.0
2249	4414	4268	ES5 80X22	ES5 PINO LA	0.603	0.0

Member	Type
56	N/A
57	N/A
58	N/A
59	N/A
60	N/A
81	N/A
82	N/A
83	N/A
84	N/A
85	N/A
108	Timber Member
109	Timber Member
117	Timber Member
118	Timber Member
126	Timber Member
127	Timber Member
135	Timber Member
136	Timber Member
144	Timber Member
145	Timber Member
158	N/A
159	N/A
160	N/A
161	N/A
176	N/A
177	N/A
178	N/A
179	N/A
194	N/A
195	N/A
196	N/A
197	N/A
198	N/A
217	N/A

Member	Type
218	N/A
219	N/A
220	N/A
221	N/A
238	Timber Member
239	Timber Member
247	Timber Member
248	Timber Member
256	Timber Member
257	Timber Member
264	N/A
265	N/A
266	N/A
267	N/A
268	N/A
276	N/A
277	N/A
278	N/A
279	N/A
280	N/A
332	Timber Member
333	Timber Member
334	Timber Member
335	Timber Member
350	Timber Member
351	Timber Member
352	Timber Member
353	Timber Member
368	Timber Member
369	Timber Member
370	Timber Member
371	Timber Member
386	Timber Member
387	Timber Member
388	Timber Member
389	Timber Member
393	N/A
394	N/A
395	N/A
396	N/A
397	N/A
401	N/A
402	N/A
403	N/A

Member	Type
404	N/A
405	N/A
460	N/A
461	N/A
462	N/A
464	N/A
470	N/A
480	N/A
481	N/A
482	N/A
484	N/A
490	N/A
500	N/A
501	N/A
502	N/A
503	N/A
506	N/A
507	N/A
509	N/A
510	N/A
514	N/A
515	N/A
594	N/A
595	N/A
602	N/A
604	N/A
605	N/A
707	N/A
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710	N/A
717	N/A
719	N/A
743	N/A
745	N/A
775	N/A
776	N/A
779	N/A
780	N/A
781	N/A
782	N/A
783	N/A
784	N/A
787	Timber Member
788	Timber Member

Member	Type
830	Timber Member
831	Timber Member
848	Timber Member
849	Timber Member
850	Timber Member
851	Timber Member
866	Timber Member
867	Timber Member
868	Timber Member
869	Timber Member
884	Timber Member
885	Timber Member
886	Timber Member
887	Timber Member
902	Timber Member
903	Timber Member
904	Timber Member
905	Timber Member
940	Timber Member
941	Timber Member
942	Timber Member
943	Timber Member
952	N/A
953	N/A
954	N/A
955	N/A
971	Timber Member
972	Timber Member
980	Timber Member
981	Timber Member
989	Timber Member
990	Timber Member
1006	N/A
1007	N/A
1008	N/A
1009	N/A
1010	N/A
1122	Timber Member
1123	Timber Member
1125	Timber Member
1131	N/A
1132	N/A
1140	Timber Member
1141	Timber Member

Member	Type
1151	Timber Member
1152	Timber Member
1161	Timber Member
1162	Timber Member
1171	N/A
1172	Timber Member
1173	Timber Member
1174	Timber Member
1175	N/A
1176	N/A
1177	N/A
1179	N/A
1181	N/A
1184	N/A
1185	N/A
1187	N/A
1188	N/A
1189	N/A
1190	N/A
1191	N/A
1192	N/A
1193	N/A
1194	Timber Member
1195	Timber Member
1196	N/A
1197	N/A
1198	N/A
1199	N/A
1200	N/A
1201	N/A
1202	N/A
1203	N/A
1204	N/A
1205	N/A
1206	N/A
1207	N/A
1208	N/A
1209	N/A
1211	N/A
1212	N/A
1213	N/A
1214	N/A
1215	N/A
1217	N/A

Member	Type
1218	N/A
1219	N/A
1220	N/A
1221	N/A
1222	N/A
1223	N/A
1224	N/A
1225	N/A
1226	Timber Member
1366	Timber Member
1367	Timber Member
1368	Timber Member
1369	Timber Member
1370	Timber Member
1371	Timber Member
1372	Timber Member
1373	Timber Member
1376	Timber Member
1377	Timber Member
1380	Timber Member
1381	Timber Member
1511	N/A
1512	N/A
1513	N/A
1514	N/A
1515	N/A
1522	Timber Member
1523	Timber Member
1525	Timber Member
1526	Timber Member
1528	Timber Member
1529	Timber Member
1531	Timber Member
1532	Timber Member
1533	N/A
1534	N/A
1535	N/A
1536	N/A
1537	N/A
1538	Timber Member
1539	Timber Member
1540	N/A
1541	Timber Member
1542	Timber Member

Member	Type
1543	Timber Member
1544	Timber Member
1545	N/A
1546	N/A
1547	N/A
1548	N/A
1549	N/A
1550	Timber Member
1551	N/A
1552	N/A
1553	N/A
1554	Timber Member
1555	N/A
1556	N/A
1557	N/A
1558	N/A
1559	Timber Member
1560	N/A
1561	N/A
1562	N/A
1563	Timber Member
1564	Timber Member
1565	Timber Member
1566	Timber Member
1567	Timber Member
1568	Timber Member
1569	Timber Member
1570	Timber Member
1571	Timber Member
1572	Timber Member
1573	Timber Member
1574	Timber Member
1575	N/A
1577	Timber Member
1578	Timber Member
1579	N/A
1580	N/A
1581	N/A
1582	N/A
1583	N/A
1584	Timber Member
1585	Timber Member
1586	Timber Member
1587	Timber Member

Member	Type
1588	Timber Member
1589	Timber Member
1590	Timber Member
1591	Timber Member
1592	Timber Member
1593	Timber Member
1594	N/A
1595	N/A
1596	N/A
1597	N/A
1598	N/A
1599	N/A
1600	N/A
1601	N/A
1602	N/A
1603	N/A
1604	N/A
1605	N/A
1606	N/A
1607	N/A
1608	Timber Member
1609	Timber Member
1610	Timber Member
1611	Timber Member
1612	Timber Member
1613	Timber Member
1614	N/A
1615	N/A
1616	N/A
1617	N/A
1618	N/A
1619	Timber Member
1620	Timber Member
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1622	Timber Member
1623	Timber Member
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1625	Timber Member
1626	Timber Member
1627	Timber Member
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1629	Timber Member
1630	Timber Member
1631	Timber Member

Member	Type
1632	Timber Member
1633	Timber Member
1634	Timber Member
1635	N/A
1636	N/A
1637	N/A
1638	N/A
1639	N/A
1640	N/A
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1642	N/A
1643	N/A
1644	N/A
1645	N/A
1646	N/A
1647	N/A
1648	N/A
1649	N/A
1650	Timber Member
1651	Timber Member
1652	Timber Member
1653	Timber Member
1654	Timber Member
1655	Timber Member
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1657	Timber Member
1658	Timber Member
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1667	Timber Member
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1670	Timber Member
1671	Timber Member
1672	Timber Member
1673	Timber Member
1674	Timber Member
1675	Timber Member

Member	Type
1676	N/A
1677	N/A
1678	N/A
1679	N/A
1680	N/A
1681	Timber Member
1682	Timber Member
1683	N/A
1684	Timber Member
1685	Timber Member
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1687	Timber Member
1688	N/A
1689	N/A
1690	N/A
1691	N/A
1692	N/A
1693	Timber Member
1694	N/A
1695	N/A
1696	N/A
1697	Timber Member
1698	N/A
1699	N/A
1700	N/A
1701	N/A
1702	Timber Member
1703	N/A
1704	N/A
1705	N/A
1706	Timber Member
1707	Timber Member
1708	Timber Member
1709	Timber Member
1710	Timber Member
1711	Timber Member
1712	Timber Member
1713	Timber Member
1714	Timber Member
1715	Timber Member
1716	Timber Member
1717	Timber Member
1718	N/A
1720	Timber Member

Member	Type
1721	Timber Member
1722	N/A
1723	N/A
1724	N/A
1725	N/A
1726	N/A
1727	Timber Member
1728	Timber Member
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1734	Timber Member
1735	Timber Member
1736	Timber Member
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1744	N/A
1745	N/A
1746	N/A
1747	N/A
1748	N/A
1749	N/A
1750	N/A
1751	Timber Member
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1753	Timber Member
1754	Timber Member
1755	Timber Member
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1757	N/A
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1761	N/A
1762	Timber Member
1763	Timber Member
1764	Timber Member

Member	Type
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1766	Timber Member
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1771	Timber Member
1772	Timber Member
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1776	Timber Member
1777	Timber Member
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1779	N/A
1780	N/A
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1782	N/A
1783	N/A
1784	N/A
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1786	N/A
1787	N/A
1788	N/A
1789	N/A
1790	N/A
1791	N/A
1792	N/A
1793	Timber Member
1794	Timber Member
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1796	Timber Member
1797	Timber Member
1798	Timber Member
1799	Timber Member
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1801	Timber Member
1802	Timber Member
1803	Timber Member
1804	Timber Member
1805	Timber Member
1806	Timber Member
1807	Timber Member
1808	Timber Member

Member	Type
1809	Timber Member
1810	Timber Member
1811	Timber Member
1812	Timber Member
1813	Timber Member
1814	Timber Member
1815	Timber Member
1816	Timber Member
1817	Timber Member
1818	Timber Member
1819	N/A
1820	N/A
1821	N/A
1822	N/A
1823	N/A
1824	Timber Member
1825	Timber Member
1826	N/A
1827	N/A
1828	N/A
1829	Timber Member
1830	N/A
1831	N/A
1832	N/A
1833	Timber Member
1834	Timber Member
1835	N/A
1837	N/A
1838	N/A
1839	N/A
1840	N/A
1841	N/A
1842	N/A
1843	N/A
1844	N/A
1845	N/A
1846	N/A
1847	N/A
1848	N/A
1849	N/A
1850	N/A
1851	N/A
1852	N/A
1853	N/A

Member	Type
1854	N/A
1855	N/A
1856	N/A
1857	N/A
1858	N/A
1859	N/A
1860	N/A
1861	Timber Member
1862	Timber Member
1863	N/A
1864	N/A
1865	N/A
1866	Timber Member
1867	N/A
1868	N/A
1869	N/A
1870	Timber Member
1871	Timber Member
1872	N/A
1874	N/A
1875	N/A
1876	N/A
1877	N/A
1878	N/A
1879	N/A
1880	N/A
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1882	N/A
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1885	N/A
1886	N/A
1887	N/A
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1889	N/A
1890	N/A
1891	N/A
1892	N/A
1893	N/A
1894	N/A
1895	N/A
1896	N/A
1897	N/A
1898	Timber Member

Member	Type
1899	Timber Member
1900	N/A
1903	Timber Member
1904	Timber Member
1905	N/A
1906	N/A
1908	N/A
1911	N/A
1912	N/A
1914	Timber Member
1915	N/A
1918	N/A
1919	Timber Member
1920	N/A
1921	N/A
1922	N/A
1924	Timber Member
1926	Timber Member
1927	Timber Member
1928	Timber Member
1930	Timber Member
1933	Timber Member
1934	Timber Member
1935	N/A
1937	Timber Member
1939	N/A
1940	N/A
1941	N/A
1942	N/A
1943	N/A
1944	Timber Member
1946	Timber Member
1948	Timber Member
1950	Timber Member
1952	Timber Member
1954	N/A
1955	N/A
1956	N/A
1957	N/A
1958	N/A
1959	N/A
1960	N/A
1961	N/A
1962	N/A

Member	Type
1968	Timber Member
1970	Timber Member
1972	Timber Member
1974	N/A
1975	N/A
1976	N/A
1977	N/A
1978	N/A
1979	Timber Member
1980	Timber Member
1983	Timber Member
1984	Timber Member
1987	Timber Member
1988	Timber Member
1991	Timber Member
1992	Timber Member
2000	N/A
2001	N/A
2002	N/A
2003	N/A
2004	N/A
2005	N/A
2006	N/A
2007	N/A
2008	N/A
2009	N/A
2010	Timber Member
2011	Timber Member
2014	Timber Member
2015	Timber Member
2018	Timber Member
2019	Timber Member
2022	Timber Member
2023	Timber Member
2026	Timber Member
2027	Timber Member
2030	Timber Member
2032	Timber Member
2034	Timber Member
2035	N/A
2036	N/A
2037	N/A
2038	N/A
2039	N/A

Member	Type
2040	Timber Member
2041	Timber Member
2042	N/A
2043	Timber Member
2044	Timber Member
2045	N/A
2046	N/A
2047	N/A
2048	N/A
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2050	Timber Member
2051	N/A
2052	N/A
2053	Timber Member
2054	N/A
2055	N/A
2056	N/A
2057	Timber Member
2058	Timber Member
2059	Timber Member
2060	Timber Member
2061	Timber Member
2062	Timber Member
2063	Timber Member
2064	N/A
2066	Timber Member
2067	N/A
2068	N/A
2069	N/A
2070	N/A
2071	N/A
2072	Timber Member
2073	Timber Member
2074	Timber Member
2075	Timber Member
2076	Timber Member
2077	N/A
2078	N/A
2079	N/A
2080	N/A
2081	N/A
2082	N/A
2083	N/A
2084	N/A

Member	Type
2085	N/A
2086	Timber Member
2087	Timber Member
2088	Timber Member
2089	N/A
2090	N/A
2091	N/A
2092	N/A
2093	N/A
2094	Timber Member
2095	Timber Member
2096	Timber Member
2097	Timber Member
2098	N/A
2099	N/A
2100	Timber Member
2101	N/A
2102	N/A
2103	N/A
2104	Timber Member
2105	Timber Member
2106	Timber Member
2107	Timber Member
2108	Timber Member
2109	Timber Member
2110	Timber Member
2111	Timber Member
2112	Timber Member
2113	Timber Member
2114	Timber Member
2115	N/A
2116	N/A
2117	N/A
2118	N/A
2119	Timber Member
2120	Timber Member
2121	Timber Member
2122	Timber Member
2123	Timber Member
2124	Timber Member
2125	Timber Member
2126	Timber Member
2127	Timber Member
2128	Timber Member

Member	Type
2129	N/A
2130	N/A
2131	N/A
2132	N/A
2133	Timber Member
2134	Timber Member
2135	Timber Member
2136	Timber Member
2137	Timber Member
2138	Timber Member
2139	Timber Member
2140	Timber Member
2141	Timber Member
2142	Timber Member
2143	Timber Member
2144	Timber Member
2145	N/A
2146	N/A
2147	N/A
2148	N/A
2149	N/A
2150	Timber Member
2151	Timber Member
2152	N/A
2153	N/A
2154	N/A
2155	Timber Member
2156	N/A
2157	N/A
2158	N/A
2159	Timber Member
2160	Timber Member
2161	N/A
2163	N/A
2164	N/A
2165	N/A
2166	N/A
2167	N/A
2168	N/A
2169	N/A
2170	N/A
2171	N/A
2172	N/A
2173	N/A

Member	Type
2174	N/A
2175	N/A
2176	N/A
2177	N/A
2178	N/A
2179	N/A
2180	N/A
2181	N/A
2182	Timber Member
2183	Timber Member
2184	Timber Member
2185	Timber Member
2186	Timber Member
2187	Timber Member
2188	N/A
2189	N/A
2190	N/A
2191	N/A
2192	N/A
2193	N/A
2194	N/A
2195	N/A
2196	N/A
2197	N/A
2198	Timber Member
2199	Timber Member
2200	Timber Member
2201	Timber Member
2202	Timber Member
2203	Timber Member
2204	Timber Member
2205	Timber Member
2206	Timber Member
2207	Timber Member
2208	Timber Member
2209	Timber Member
2210	Timber Member
2211	N/A
2212	Timber Member
2213	N/A
2214	N/A
2215	N/A
2216	N/A
2217	N/A

Member	Type
2218	N/A
2219	N/A
2220	N/A
2221	Timber Member
2222	Timber Member
2223	N/A
2226	Timber Member
2227	N/A
2228	N/A
2229	N/A
2230	N/A
2231	N/A
2232	N/A
2233	N/A
2234	N/A
2235	Timber Member
2236	Timber Member
2237	N/A
2238	Timber Member
2239	Timber Member
2240	Timber Member
2241	Timber Member
2242	Timber Member
2243	Timber Member
2244	Timber Member
2245	Timber Member
2246	Timber Member
2247	Timber Member
2248	Timber Member
2249	Timber Member

Data - Sections

	Section name	Member list	AX (mm2)	AY (mm2)
	2-ES5 80X140	460to490By10 46	22400	18667
	ES5 80X140	56to60 81to85 15	11200	9333
	ES5 80X225	194to198 217to22	18000	15000
	ES5 40x80	108to144By9 109t	3200	2667

	AZ (mm2)	IX (mm4)	IY (mm4)	IZ (mm4)
	18667	69957410	36586667	47786667
	9333	15358470	18293333	5973333
	15000	29797742	75937500	9600000
	2667	1170866	1706667	426667

Data - Supports

	Support name	List of nodes	List of edges
	Pinned	3630 3632 3634 3867to386	
	Fixed	420 423 431 440 443 451 3	

	List of objects	Support conditions
		UX UY UZ
		UX UY UZ RX RY RZ

Loads - Cases

Case	Label	Case name	Nature
1	DL1	DL1	Structural
2	DL2	DL2	Structural
11	LL1	LL1	Category A
21	WIND1	W1	wind
22	WIND2	W2	wind
23	WIND21	W3	wind
24	WIND212	W4	wind
31	WIND211	S1	seismic
32	WIND2111	S2	seismic
50	MOD144	Modal	
51		D	Structural
61		L	Structural
71		Der X	Structural
72		Der Y	Structural
73		Der X2	Structural
74		Der Y2	Structural
81		EQ1	Structural
82		EQ2	Structural
91		W1	Structural
92		W2	Structural
93		W3	dead
94		W4	dead
102		D + L	dead
103		D + 0.75L	dead

Case	Label	Case name	Nature
104		D + W1	dead
105		D + W2	dead
106		D + W3	dead
107		D + W4	dead
108		D+0.7E	dead
109		D+0.7E	dead
110		D+0.7E	dead
111		D+0.7E	dead
112		D+0.7E	dead
113		D+0.7E	dead
114		D+0.7E	dead
115		D+0.7E	dead
116		D + 0.75L + 0.75W1	dead
117		D + 0.75L + 0.75W2	dead
118		D + 0.75L + 0.75W3	dead
119		D + 0.75L + 0.75W4	dead
120		D+0.75(0.7E) + 0.75Lr	dead
121		D+0.75(0.7E) + 0.75Lr	dead
122		D+0.75(0.7E) + 0.75Lr	dead
123		D+0.75(0.7E) + 0.75Lr	dead
124		D+0.75(0.7E) + 0.75Lr	dead
125		D+0.75(0.7E) + 0.75Lr	dead
126		D+0.75(0.7E) + 0.75Lr	dead
127		D+0.75(0.7E) + 0.75Lr	dead
128		0.6D + W1	dead
129		0.6D + W2	dead
130		0.6D + W3	dead
131		0.6D + W4	dead
132		0.6D+0.7E	dead
133		0.6D+0.7E	dead
134		0.6D+0.7E	dead
135		0.6D+0.7E	dead
136		0.6D+0.7E	dead
137		0.6D+0.7E	dead
138		0.6D+0.7E	dead
139		0.6D+0.7E	dead

Case	Analysis type
1	Static - Linear
2	Static - Linear
11	Static - Linear
21	Static - Linear
22	Static - Linear
23	Static - Linear
24	Static - Linear

Case	Analysis type
31	Static - Linear
32	Static - Linear
50	Modal
51	Linear Combination
61	Linear Combination
71	Linear Combination
72	Linear Combination
73	Linear Combination
74	Linear Combination
81	Linear Combination
82	Linear Combination
91	Linear Combination
92	Linear Combination
93	Linear Combination
94	Linear Combination
102	Linear Combination
103	Linear Combination
104	Linear Combination
105	Linear Combination
106	Linear Combination
107	Linear Combination
108	Linear Combination
109	Linear Combination
110	Linear Combination
111	Linear Combination
112	Linear Combination
113	Linear Combination
114	Linear Combination
115	Linear Combination
116	Linear Combination
117	Linear Combination
118	Linear Combination
119	Linear Combination
120	Linear Combination
121	Linear Combination
122	Linear Combination
123	Linear Combination
124	Linear Combination
125	Linear Combination
126	Linear Combination
127	Linear Combination
128	Linear Combination
129	Linear Combination
130	Linear Combination
131	Linear Combination
132	Linear Combination

Case	Analysis type
133	Linear Combination
134	Linear Combination
135	Linear Combination
136	Linear Combination
137	Linear Combination
138	Linear Combination
139	Linear Combination

Loads - Values

	Case	Load type	List
	1	self-weight	56to60 81to85
	2	uniform load	108to144By9 1
	11	uniform load	108to144By9 1
	21	uniform load	108to144By9 1
	31	self-weight	56to60 81to85
	31	uniform load	108to144By9 1
	32	self-weight	56to60 81to85
	32	uniform load	108to144By9 1

	Load values
	PZ Negative Factor=1.00
	PZ=-0.24(kN/m)
	PZ=-0.21(kN/m) projected
	PZ=-0.24(kN/m) projected
	PX Factor=0.20
	PX=0.05(kN/m)
	PY Factor=0.20
	PY=0.05(kN/m)

Manual Combinations

- Cases: 51 61 71to74 81 82 91to94 102to139

Combinations	Name	Analysis type	Combination	Case nature
51 (C)	D	Linear Combinatio	SLS	Structural
61 (C)	L	Linear Combinatio	SLS	Structural
71 (C)	Der X	Linear Combinatio	SLS	Structural
72 (C)	Der Y	Linear Combinatio	SLS	Structural
73 (C)	Der X2	Linear Combinatio	SLS	Structural
74 (C)	Der Y2	Linear Combinatio	SLS	Structural
81 (C)	EQ1	Linear Combinatio	ACC	Structural
82 (C)	EQ2	Linear Combinatio	ACC	Structural

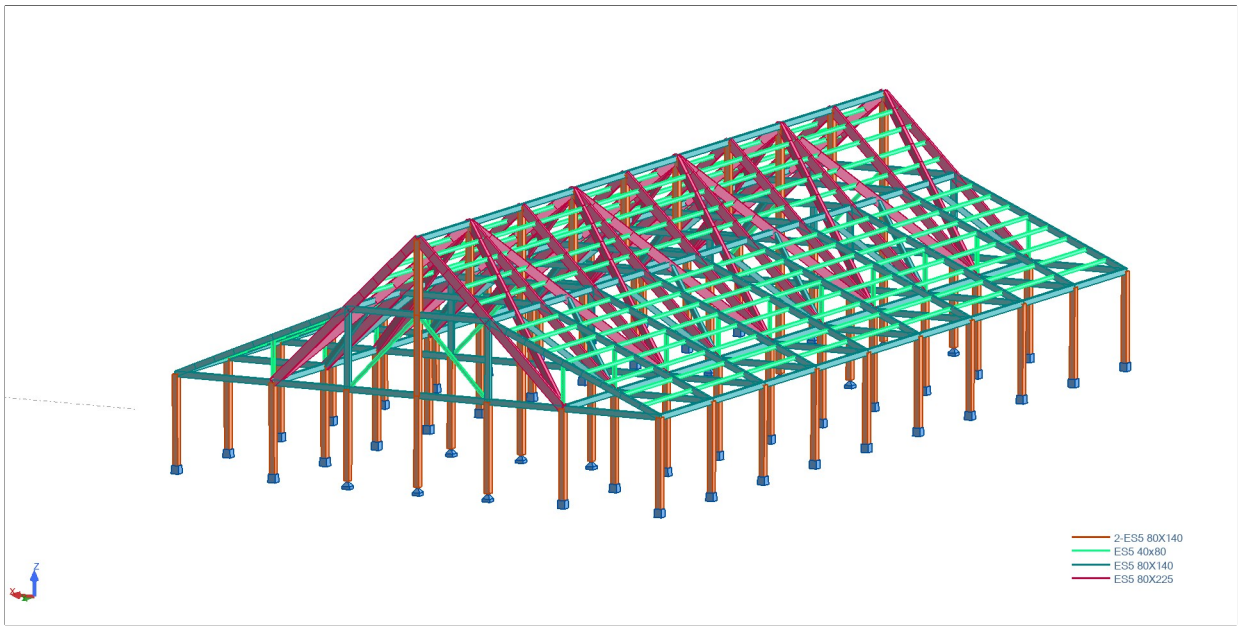
Combinations	Name	Analysis type	Combination	Case nature
91 (C)	W1	Linear Combinatio	SLS	Structural
92 (C)	W2	Linear Combinatio	SLS	Structural
93 (C)	W3	Linear Combinatio	SLS	dead
94 (C)	W4	Linear Combinatio	SLS	dead
102 (C)	D + L	Linear Combinatio	SLS	dead
103 (C)	D + 0.75L	Linear Combinatio	SLS	dead
104 (C)	D + W1	Linear Combinatio	SLS	dead
105 (C)	D + W2	Linear Combinatio	SLS	dead
106 (C)	D + W3	Linear Combinatio	SLS	dead
107 (C)	D + W4	Linear Combinatio	SLS	dead
108 (C)	D+0.7E	Linear Combinatio	SLS	dead
109 (C)	D+0.7E	Linear Combinatio	SLS	dead
110 (C)	D+0.7E	Linear Combinatio	SLS	dead
111 (C)	D+0.7E	Linear Combinatio	SLS	dead
112 (C)	D+0.7E	Linear Combinatio	SLS	dead
113 (C)	D+0.7E	Linear Combinatio	SLS	dead
114 (C)	D+0.7E	Linear Combinatio	SLS	dead
115 (C)	D+0.7E	Linear Combinatio	SLS	dead
116 (C)	D + 0.75L + 0.75	Linear Combinatio	SLS	dead
117 (C)	D + 0.75L + 0.75	Linear Combinatio	SLS	dead
118 (C)	D + 0.75L + 0.75	Linear Combinatio	SLS	dead
119 (C)	D + 0.75L + 0.75	Linear Combinatio	SLS	dead
120 (C)	D+0.75(0.7E) + 0.	Linear Combinatio	SLS	dead
121 (C)	D+0.75(0.7E) + 0.	Linear Combinatio	SLS	dead
122 (C)	D+0.75(0.7E) + 0.	Linear Combinatio	SLS	dead
123 (C)	D+0.75(0.7E) + 0.	Linear Combinatio	SLS	dead
124 (C)	D+0.75(0.7E) + 0.	Linear Combinatio	SLS	dead
125 (C)	D+0.75(0.7E) + 0.	Linear Combinatio	SLS	dead
126 (C)	D+0.75(0.7E) + 0.	Linear Combinatio	SLS	dead
127 (C)	D+0.75(0.7E) + 0.	Linear Combinatio	SLS	dead
128 (C)	0.6D + W1	Linear Combinatio	SLS	dead
129 (C)	0.6D + W2	Linear Combinatio	SLS	dead
130 (C)	0.6D + W3	Linear Combinatio	SLS	dead
131 (C)	0.6D + W4	Linear Combinatio	SLS	dead
132 (C)	0.6D+0.7E	Linear Combinatio	SLS	dead
133 (C)	0.6D+0.7E	Linear Combinatio	SLS	dead
134 (C)	0.6D+0.7E	Linear Combinatio	SLS	dead
135 (C)	0.6D+0.7E	Linear Combinatio	SLS	dead
136 (C)	0.6D+0.7E	Linear Combinatio	SLS	dead
137 (C)	0.6D+0.7E	Linear Combinatio	SLS	dead
138 (C)	0.6D+0.7E	Linear Combinatio	SLS	dead
139 (C)	0.6D+0.7E	Linear Combinatio	SLS	dead

Combinations	Definition
51 (C)	(1+2)*1.00

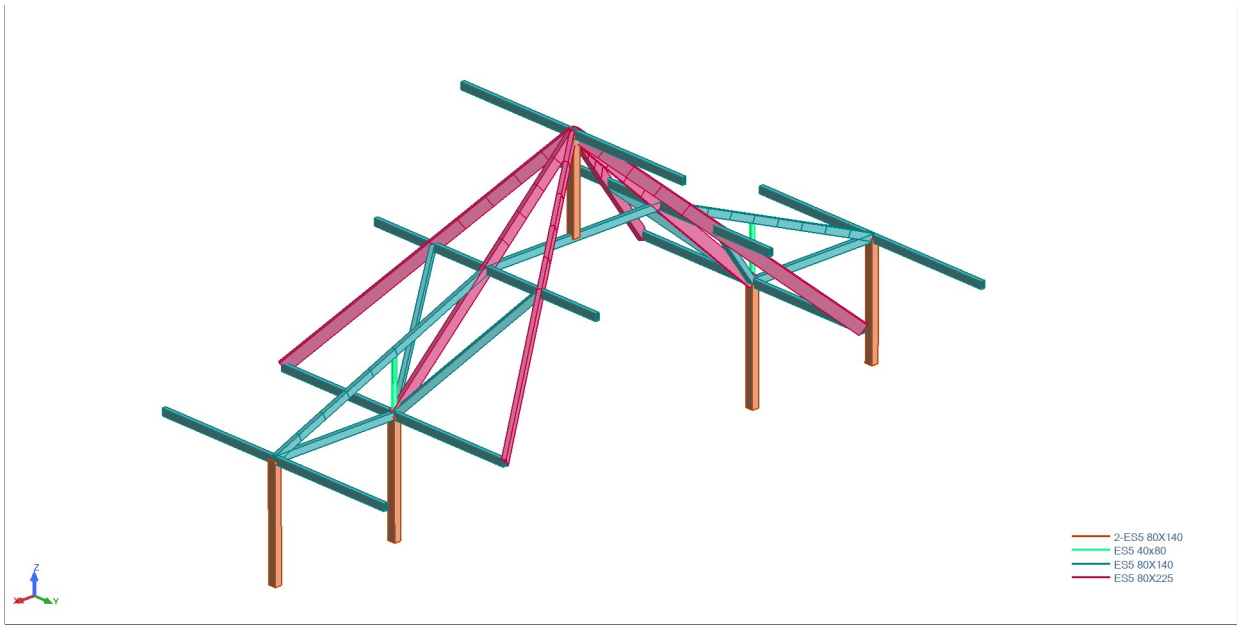
Combinations	Definition
61 (C)	11*1.00
71 (C)	31*0.64+51*1.00
72 (C)	32*0.64+51*1.00
73 (C)	31*0.64+51*0.60
74 (C)	32*0.64+51*0.60
81 (C)	31*0.55
82 (C)	32*0.55
91 (C)	21*1.00+23*0.30
92 (C)	21*1.00+24*0.30
93 (C)	22*1.00+23*0.30
94 (C)	22*1.00+24*0.30
102 (C)	(51+61)*1.00
103 (C)	51*1.00+61*0.75
104 (C)	(51+91)*1.00
105 (C)	(51+92)*1.00
106 (C)	(51+93)*1.00
107 (C)	(51+94)*1.00
108 (C)	51*1.00+81*0.70+82*0.21
109 (C)	51*1.00+81*0.70+82*-0.21
110 (C)	51*1.00+81*-0.70+82*0.21
111 (C)	51*1.00+81*-0.70+82*-0.21
112 (C)	51*1.00+81*0.21+82*0.70
113 (C)	51*1.00+81*-0.21+82*0.70
114 (C)	51*1.00+81*0.21+82*-0.70
115 (C)	51*1.00+81*-0.21+82*-0.70
116 (C)	51*1.00+(61+91)*0.75
117 (C)	51*1.00+(61+92)*0.75
118 (C)	51*1.00+(61+93)*0.75
119 (C)	51*1.00+(61+94)*0.75
120 (C)	51*1.00+81*0.53+82*0.16+61*0.75
121 (C)	51*1.00+81*-0.53+82*0.16+61*0.75
122 (C)	51*1.00+81*0.53+82*-0.16+61*0.75
123 (C)	51*1.00+81*-0.53+82*-0.16+61*0.75
124 (C)	51*1.00+81*0.16+82*0.53+61*0.75
125 (C)	51*1.00+81*0.16+82*-0.53+61*0.75
126 (C)	51*1.00+81*-0.16+82*0.53+61*0.75
127 (C)	51*1.00+81*-0.16+82*-0.53+61*0.75
128 (C)	51*0.60+91*1.00
129 (C)	51*0.60+92*1.00
130 (C)	51*0.60+93*1.00
131 (C)	51*0.60+94*1.00
132 (C)	51*0.60+81*0.70+82*0.21
133 (C)	51*0.60+81*0.70+82*-0.21
134 (C)	51*0.60+81*-0.70+82*0.21
135 (C)	51*0.60+81*-0.70+82*-0.21
136 (C)	51*0.60+81*0.21+82*0.70

Combinations	Definition
137 (C)	51*0.60+81*-0.21+82*0.70
138 (C)	51*0.60+81*0.21+82*-0.70
139 (C)	51*0.60+81*-0.21+82*-0.70

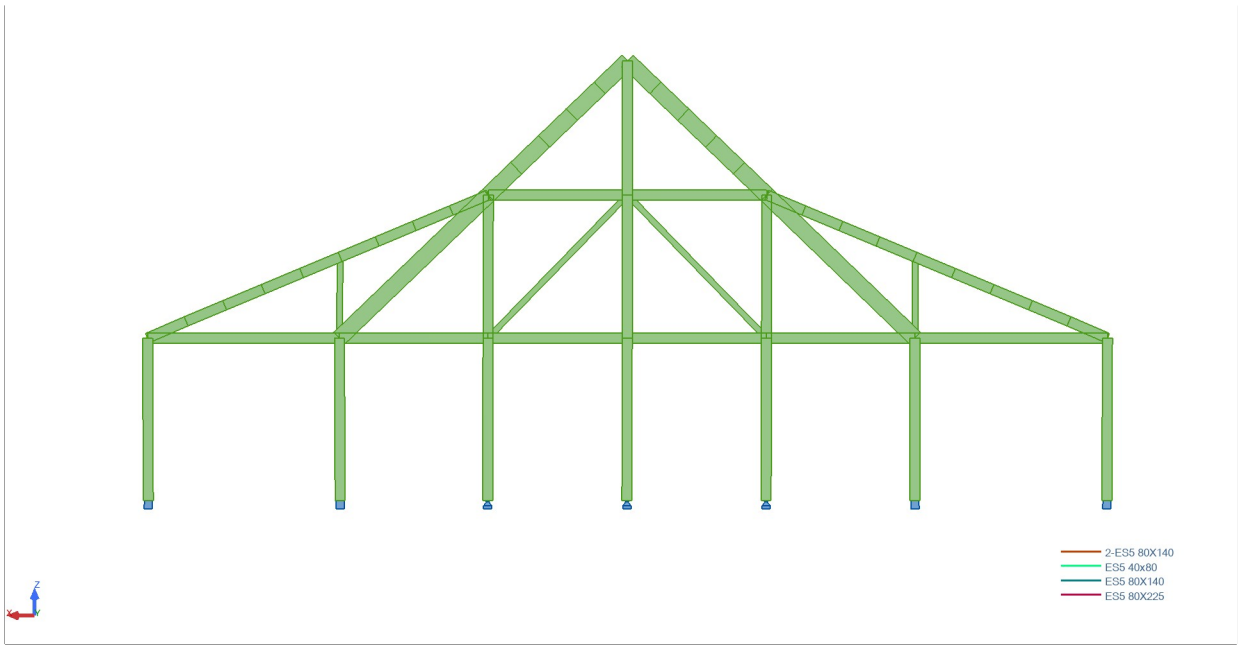
3d Axonometria



portico 2



portico 1



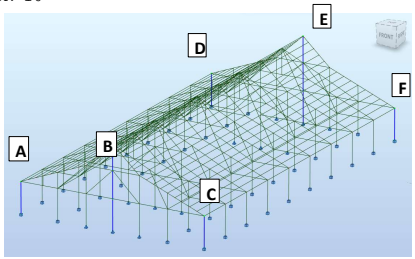
Chequeo de derivas

Fecha: 10/16/2025

Calculo: **Elyn Sofía Montoya** Proyecto: **La chorrera**

Según capitulo A-6 de la NSR-10 **Sismo X** **Sismo Y**

Pórtico en concreto



Punto **A**

DERX_1 COMBO DERY_1

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	DY (mm)	Deriva Y	Deriva Y %	Deriva Total (m)	Check
N+2.28	4349	2.28	13	13.00	0.57%	38.00	38.00	1.67%	0.040162	Cumple
N+0.00	4348	0.00	0.0			0.00				

Punto DERX_2 COMBO DERY_2

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	DY (mm)	Deriva Y	Deriva Y %	Deriva Total (m)	Check
N+2.28	4349	2.28	13	13.00	0.57%	38.00	38.00	1.67%	0.040162	Cumple
N+0.00	4348	0	0.0			0.00				

Punto **B**

DERX_1 COMBO DERY_1

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	DY (mm)	Deriva Y	Deriva Y %	Deriva Total (m)	Check
N+6.17	4355	6.17	13	0.00	0.00%	45.00	1.00	0.05%	0.001000	Cumple
N+4.29	4354	4.29	13	0.00	0.00%	44.00	0.00	0.00%	0.000000	Cumple
N+2.28	4450	2.28	13	13.00	0.57%	44.00	44.00	1.93%	0.045880	Cumple
N+0.00	4452	0.00	0.0			0.00				

Punto DERX_2 COMBO DERY_2

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	DY (mm)	Deriva Y	Deriva Y %	Deriva Total (m)	Check
N+6.17	4355	6.17	13	0.00	0.00%	45.00	0.00	0.00%	0.000000	Cumple
N+4.29	4354	4.29	13	0.00	0.00%	45.00	-1.00	0.05%	0.001000	Cumple
N+2.28	4450	2.28	13	13.00	0.57%	46.00	46.00	2.02%	0.047802	Cumple
N+0.00	4452	0	0.0			0.00				

Punto **C**

DERX_1 COMBO DERY_1

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	DY (mm)	Deriva Y	Deriva Y %	Deriva Total (m)	Check
N+2.28	4357	2.28	13	13.00	0.57%	38.00	38.00	1.67%	0.040162	Cumple
N+0.00	4356	0.00	0.0			0.00				

Punto DERX_2 COMBO DERY_2

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	DY (mm)	Deriva Y	Deriva Y %	Deriva Total (m)	Check
N+2.28	4357	2.28	13	13.00	0.57%	38.00	38.00	1.67%	0.040162	Cumple
N+0.00	4356	0	0.0			0.00				

Punto **D**

DERX_1 COMBO DERY_1

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	DY (mm)	Deriva Y	Deriva Y %	Deriva Total (m)	Check
N+2.28	441	2.28	13	13.00	0.57%	38.00	38.00	1.67%	0.040162	Cumple
N+0.00	440	0.00	0.0			0.00				

Punto DERX_2 COMBO DERY_2

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	DY (mm)	Deriva Y	Deriva Y %	Deriva Total (m)	Check
N+2.28	441	2.28	13	13.00	0.57%	38.00	38.00	1.67%	0.040162	Cumple
N+0.00	440	0	0.0			0.00				

Punto **E**

DERX_1 COMBO DERY_1

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	DY (mm)	Deriva Y	Deriva Y %	Deriva Total (m)	Check
N+6.17	446	6.17	13	0.00	0.00%	44.00	-2.00	0.11%	0.002000	Cumple
N+4.29	445	4.29	13	0.00	0.00%	46.00	-3.00	0.15%	0.003000	Cumple
N+2.28	3627	2.28	13	13.00	0.57%	49.00	49.00	2.15%	0.050695	Cumple
N+0.00	3632	0.00	0.0			0.00				

Punto DERX_2 COMBO DERY_2

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	DY (mm)	Deriva Y	Deriva Y %	Deriva Total (m)	Check
N+6.17	446	6.17	13	0.00	0.00%	45.00	-1.00	0.05%	0.001000	Cumple
N+4.29	445	4.29	13	0.00	0.00%	46.00	-2.00	0.10%	0.002000	Cumple
N+2.28	3627	2.28	13	13.00	0.57%	48.00	48.00	2.11%	0.049729	Cumple
N+0.00	3632	0	0.0			0.00				

Punto **F**

DERX_1 COMBO DERY_1

Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	DY (mm)	Deriva Y	Deriva Y %	Deriva Total (m)	Check
N+2.28	452	2.28	13	13.00	0.57%	38.00	38.00	1.67%	0.040162	Cumple
N+0.00	451	0.00	0.0			0.00				

Punto DERX_2 COMBO DERY_2

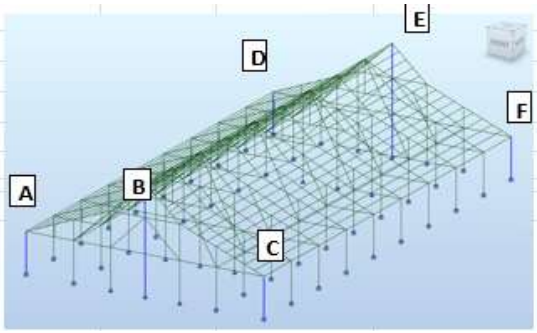
Piso	Nudo	nivel modelo	Dx (mm)	Deriva X	Deriva X %	DY (mm)	Deriva Y	Deriva Y %	Deriva Total (m)	Check
N+2.28	452	2.28	13	13.00	0.57%	38.00	38.00	1.67%	0.040162	Cumple
N+0.00	451	0	0.0			0.00				

IRREGULARIDAD TORSIONAL

Proyecto: **La chorrera**

Según Tabla A.3-6 de la NSR-10

Calculo: Elyn Sofia Montoya



No presenta irregularidad torsional

COMBO DERX_1 COMBO DERY_1

	EJE: A			EJE: C				
Piso	**Nudo**	**Dx (mm)**	**DY (mm)**	**Nudo**	**Dx (mm)**	**DY (mm)**	**CHEQUEO DX**	**CHEQUEO DY**
N+2.28	4349	13.00	38.000	4357	13.00	38.00	Regular	Regular
N+0.00	4348	0.00	0.00	4356	0.00	0.00	Regular	Regular

COMBO DERX_2 COMBO DERY_2

	EJE: A			EJE: c				
Piso	**Nudo**	**Dx (mm)**	**DY (mm)**	**Nudo**	**Dx (mm)**	**DY (mm)**	**CHEQUEO DX**	**CHEQUEO DY**
N+2.28	4349	13.00	38.000	4357	13.00	38.0000	Regular	Regular
N+0.00	4348	0.00	0.00	4356	0.00	0.00	Regular	Regular

COMBO DERX_1 COMBO DERY_1

	EJE: A			EJE: D				
Piso	**Nudo**	**Dx (mm)**	**DY (mm)**	**Nudo**	**Dx (mm)**	**DY (mm)**	**CHEQUEO DX**	**CHEQUEO DY**
N+2.28	4349	13.00	38.000	441	13.00	38.00	Regular	Regular
N+0.00	4348	0.00	0.00	440	0.00	0.00	Regular	Regular

COMBO DERX_2 COMBO DERY_2

	EJE: A			EJE: D				
Piso	**Nudo**	**Dx (mm)**	**DY (mm)**	**Nudo**	**Dx (mm)**	**DY (mm)**	**CHEQUEO DX**	**CHEQUEO DY**
N+2.28	4349	13.00	38.000	441	13.00	38.0000	Regular	Regular
N+0.00	4348	0.00	0.00	440	0.00	0.00	Regular	Regular

Diseño de columnas en madera estructural

Ing.=	**Juan Hurtado**	**Fecha=**	**10/16/2025**
Revisa	**Elyn Sofía Montoya**		

Proyecto: **La Chorrera**

Geometria Correas

Grupo	ES.5	Madera=	PINO AMARILLO	Luz=	2.70 m
b=	40 mm	h=	80 mm		

Propiedades basicas

Densidad (DB)=	5.80 kN/m³	$E_{0.5}$=	11750 MPa	E_{min}=	6200 MPa
Fb=	16.50 MPa	Fv=	2.10 MPa	$E_{0.05}$=	8250 MPa
I=	1706667 mm^4	Fp=	5.10 MPa	Fc=	11.40 MPa
Ft=	2.10 MPa				

Coeficientes de modificación

(Los esfuerzos admisibles se veran afectados por sus condiciones geometricas y de factores bioticos de acuerdo a G.2.2.3)

$$f_i' = f_i \times C_D \times C_m \times C_t \times C_L \times C_F \times C_{fu}$$

Humedad= 12%

Para F_b; C_m=	**1.00**	Para F_v; C_m=	**1.00**	Para E; C_m=	**1.00**
Para F_p; C_m=	**1.00**				

Duración carga= Permanente Tipo de carga= Muerta

Para F_b; C_D=	**0.90**	Para F_v; C_D=	**0.90**

Temperatura= T ≤ 37.8°C Condición= Humedo

Para F_b,F_v,F_p;C_t=	1.00	Para E ;C_t=	1.00
Para F_t=	1.00		

Incisiones paralelas al grano= NO

Para F_b,F_v ;C_{in}=	1.00	
Para E ;C_{in}=	1.00	Cuando se tengan incisiones en la madera, en forma paralela al grano a una profundidad max 100 mm y Long de 3/8".

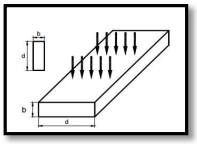
Por acción conjunta		**Por rigidez al pandeo**		**Por desviación del grano**	
Para F_b,F_v ;C_r=	1.00	Para E_{min} ;C_T=	1.00	Para F_b,F_t ;C_{Dg}=	1.00

Coeficientes de modificación para Flexión

Coeficiente de forma Para F_b,F_t ;C_d= 1.15

Coeficiente por flexión en el eje debil Cargas sobre b= NO

Para F_b ;C_{fu}= 1.00



Coeficiente de modificación por estabilidad lateral de COLUMNAS (C_L)

Numero de Luces de la Viga	luz.simple	Lu=	2.70 m
Tipo de Carga	C) Carga uniforme repartida	Lu/d=	3.38
	(Ver figura G.3.3.2)	Le=	2.70 m

d/b= 2.00 **No requiere soporte lateral**

RB= 11.61895 F_{bE}= 55 MPa F_b^*= 17 MPa

C_L= 1.00

Propiedades modificadas

F'b=	17.08 MPa	F'v=	1.89 MPa	E'0.5=	11750.00 MPa
F'c=	10.26 MPa	F't=	1.89 MPa		

Diseño de elementos en Madera

C. Muerta + C. Viva

Flexión	M1=	0.19 kN-m	<	Mr=	0.73 kN-m	**Ok**
	M2=	0.04 kN-m	<	Mr=	0.36 kN-m	**Ok**
Cortante	V=	0.51 kN				
	fv=	0.24 MPa	<	f'v=	1.89 MPa	**Ok**
Axial - compresion	P=	1.80 kN	<	Padm=	3.50 kN	**Ok**
Axial - traccion	T=		<	Tadm=	6.05 kN	**Ok**

Esfuerzos de flexo compresión =	0.89	< 1	Cumple
Esfuerzos de flexo tracciòn =	0.37	< 1	Cumple

Flexión	M1=	0.14 kN-m	<	Mr=	0.73 kN-m	**Ok**
	M2=	0.07 kN-m	<	Mr=	0.36 kN-m	**Ok**
Cortante	V=	0.11 kN				
	fv=	0.05 MPa	<	f'v=	1.89 MPa	**Ok**
Axial - compresion	P=		<	Padm=	3.50 kN	**Ok**
Axial - traccion	T=	2.98 kN	<	Tadm=	6.05 kN	**Ok**

Esfuerzos de flexo compresión =	0.38	< 1	Cumple
Esfuerzos de flexo tracciòn =	0.88	< 1	Cumple

Flexión	M1=	0.64 kN-m	<	Mr=	0.73 kN-m	**Ok**
	M2=	0.00 kN-m	<	Mr=	0.36 kN-m	**Ok**
Cortante	V=	1.34 kN				
	fv=	0.63 MPa	<	f'v=	1.89 MPa	**Ok**
Axial - compresion	P=	0.32 kN	<	Padm=	3.50 kN	**Ok**
Axial - traccion	T=		<	Tadm=	6.05 kN	**Ok**

Esfuerzos de flexo compresión =	0.97	< 1	Cumple
Esfuerzos de flexo tracciòn =	0.88	< 1	Cumple

Flexión	M1=	0.64 kN-m	<	Mr=	0.73 kN-m	**Ok**
	M2=	0.00 kN-m	<	Mr=	0.36 kN-m	**Ok**
Cortante	V=	1.34 kN				
	fv=	0.63 MPa	<	f'v=	1.89 MPa	**Ok**
Axial - compresion	P=	0.36 kN	<	Padm=	3.50 kN	**Ok**
Axial - traccion	T=		<	Tadm=	6.05 kN	**Ok**

Esfuerzos de flexo compresión =	0.98	< 1	Cumple
Esfuerzos de flexo tracciòn =	0.88	< 1	Cumple

Diseño de columnas en madera estructural

Ing.= Juan Hurtado **Fecha=** 10/16/2025

Proyecto: **La Chorrera**

Geometria Correas

Grupo	ES.5	Madera=	PINO AMARILLO	Luz=	2.70 m
b=	40 mm	h=	80 mm		

Propiedades basicas

Densidad (DB)=	5.80 kN/m³	$E_{0.5}$=	11750 MPa	E_{min}=	6200 MPa
Fb=	16.50 MPa	Fv=	2.10 MPa	$E_{0.05}$=	8250 MPa
I=	1706667 mm^4	Fp=	5.10 MPa	Fc=	11.40 MPa
Ft=	2.10 MPa				

Coeficientes de modificación

(Los esfuerzos admisibles se veran afectados por sus condiciones geometricas y de factores bioticos de acuerdo a G.2.2.3)

$$f_i' = f_i \times C_D \times C_m \times C_t \times C_L \times C_F \times C_{fu}$$

Humedad= 12%

Para F_b; C_m=	**1.00**	Para F_v; C_m=	**1.00**	Para E; C_m=	**1.00**
Para F_p; C_m=	**1.00**				

Duración carga= Diez minutos Tipo de carga= Viento y terremotos

Para F_b; C_D=	**1.60**	Para F_v; C_D=	**1.60**

Temperatura= T ≤ 37.8°C Condición= Humedo

Para F_b,F_v,F_p;C_t=	1.00	Para E ;C_t=	1.00
Para F_t=	1.00		

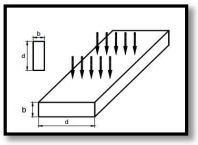
Incisiones paralelas al grano= NO

Para F_b,F_v ;C_{in}=	1.00	
Para E ;C_{in}=	1.00	Cuando se tengan incisiones en la madera, en forma paralela al grano a una profundidad max 100 mm y Long de 3/8".

Por acción conjunta		**Por rigidez al pandeo**		**Por desviación del grano**	
Para F_b,F_v ;C_r=	1.00	Para E_{min} ;C_T=	1.00	Para F_b,F_t ;C_{Dg}=	1.00

Coeficientes de modificación para Flexión

Coeficiente de forma	Para F_b,F_t ;C_d=	1.15
	Cargas sobre b=	NO
Coeficiente por flexión en el eje debil	Para F_b ;C_{fu}=	1.00



Coeficiente de modificación por estabilidad lateral de COLUMNAS (C_L)

Numero de Luces de la Viga	luz.simple	Lu=	2.70 m
Tipo de Carga	C) Carga uniforme repartida	Lu/d=	3.38
	(Ver figura G.3.3.2)	Le=	2.70 m

d/b= 2.00 **No requiere soporte lateral**

RB=	11.61895	F_{bE}=	55 MPa	F_b^*=	30 MPa
C_L=	1.00				

Propiedades modificadas

F'b=	30.36 MPa	F'v=	3.36 MPa	E'0.5=	11750.00 MPa
F'c=	18.24 MPa	F't=	3.36 MPa		

Coeficiente de longitud de columna K_e

Condición apoyo= articulado en ambos extremos

ke=	1	le=	2.70 m	
λb=	67.50	λl=	33.75	**No cumple**
C=	0.80	FCE=	1.12 MPa	

Coeficiente de estabilidad de columnas CP

Cp=	0.06	Cp*Fc'=	1.10 MPa

Diseño de elementos en Madera

C. Muerta + C. Viva

Flexión	M1=	0.17 kN-m	<	Mr=	1.30 kN-m	**Ok**
	M2=	0.09 kN-m	<	Mr=	0.65 kN-m	**Ok**
Cortante	V=	0.14 kN				
	fv=	0.07 MPa	<	f'v=	3.36 MPa	**Ok**
Axial - compresion	P=		<	Padm=	3.53 kN	**Ok**
Axial - traccion	T=	3.69 kN	<	Tadm=	10.75 kN	**Ok**

Esfuerzos de flexo compresión =	0.27 < 1		Cumple
Esfuerzos de flexo tracciòn =	0.61 < 1		Cumple

Flexión	M1=	0.24 kN-m	<	Mr=	1.30 kN-m	**Ok**
	M2=	0.05 kN-m	<	Mr=	0.65 kN-m	**Ok**
Cortante	V=	0.64 kN				
	fv=	0.30 MPa	<	f'v=	3.36 MPa	**Ok**
Axial - compresion	P=	2.23 kN	<	Padm=	3.53 kN	**Ok**
Axial - traccion	T=		<	Tadm=	10.75 kN	**Ok**

Esfuerzos de flexo compresión =	0.89 < 1		Cumple
Esfuerzos de flexo tracciòn =	0.26 < 1		Cumple

Flexión	M1=	0.79 kN-m	<	Mr=	1.30 kN-m	**Ok**
	M2=	0.00 kN-m	<	Mr=	0.65 kN-m	**Ok**
Cortante	V=	1.67 kN				
	fv=	0.78 MPa	<	f'v=	3.36 MPa	**Ok**
Axial - compresion	P=	0.45 kN	<	Padm=	3.53 kN	**Ok**
Axial - traccion	T=		<	Tadm=	10.75 kN	**Ok**

Esfuerzos de flexo compresión =	0.74 < 1		Cumple
Esfuerzos de flexo tracciòn =	0.61 < 1		Cumple

Flexión	M1=	1.89 kN-m	<	Mr=	1.30 kN-m	**falla**
	M2=	0.04 kN-m	<	Mr=	0.65 kN-m	**Ok**
Cortante	V=	0.70 kN				
	fv=	0.33 MPa	<	f'v=	3.36 MPa	**Ok**
Axial - compresion	P=		<	Padm=	3.53 kN	**Ok**
Axial - traccion	T=	0.45 kN	<	Tadm=	10.75 kN	**Ok**

Esfuerzos de flexo compresión =	1.52 < 1		No cumple
Esfuerzos de flexo tracciòn =	1.56 < 1		No cumple

Diseño de columnas en madera estructural

Ing.=	**Juan Hurtado**	**Fecha=**	**10/16/2025**
Revisa	**Elyn Sofía Montoya**		

Proyecto: **La Chorrera**

Geometria Correas

Grupo	ES.5	Madera=	PINO AMARILLO	Luz=	1.14 m
b=	40 mm	h=	80 mm		

Propiedades basicas

Densidad (DB)=	5.80 kN/m³	$E_{0.5}$=	11750 MPa	E_{min}=	6200 MPa
Fb=	16.50 MPa	Fv=	2.10 MPa	$E_{0.05}$=	8250 MPa
I=	1706667 mm^4	Fp=	5.10 MPa	Fc=	11.40 MPa
Ft=	2.10 MPa				

Coeficientes de modificación

(Los esfuerzos admisibles se veran afectados por sus condiciones geometricas y de factores bioticos de acuerdo a G.2.2.3)

$$f_i' = f_i \times C_D \times C_m \times C_t \times C_L \times C_F \times C_{fu}$$

Humedad= 12%

Para F_b; C_m=	**1.00**	Para F_v; C_m=	**1.00**	Para E; C_m=	**1.00**
Para F_p; C_m=	**1.00**				

Duración carga= Permanente Tipo de carga= Muerta

Para F_b; C_D=	**0.90**	Para F_v; C_D=	**0.90**

Temperatura= T ≤ 37.8°C Condición= Humedo

Para F_b,F_v,F_p;C_t=	1.00	Para E ;C_t=	1.00
Para F_t=	1.00		

Incisiones paralelas al grano= NO

Para F_b,F_v ;C_{in}=	1.00	
Para E ;C_{in}=	1.00	Cuando se tengan incisiones en la madera, en forma paralela al grano a una profundidad max 100 mm y Long de 3/8".

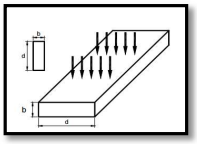
Por acción conjunta		**Por rigidez al pandeo**		**Por desviación del grano**	
Para F_b,F_v ;C_r=	1.00	Para E_{min} ;C_T=	1.00	Para F_b,F_t ;C_{Dg}=	1.00

Coeficientes de modificación para Flexión

Coeficiente de forma Para F_b,F_t ;C_d= 1.15

Coeficiente por flexión en el eje debil Cargas sobre b= NO

Para F_b ;C_{fu}= 1.00



Coeficiente de modificación por estabilidad lateral de COLUMNAS (C_L)

Numero de Luces de la Viga	luz.simple	Lu=	1.14 m
Tipo de Carga	C) Carga uniforme repartida	Lu/d=	1.42
	(Ver figura G.3.3.2)	Le=	1.14 m

d/b= 2.00 **No requiere soporte lateral**

RB= 7.54321 F_{bE}= 131 MPa F_b^*= 17 MPa

C_L= 1.00

Propiedades modificadas

F'b=	17.08 MPa	F'v=	1.89 MPa	E'0.5=	11750.00 MPa
F'c=	10.26 MPa	F't=	1.89 MPa		

Diseño de elementos en Madera

C. Muerta + C. Viva

Flexión	M1=	0.17 kN-m	<	Mr=	0.73 kN-m	**Ok**
	M2=	0.03 kN-m	<	Mr=	0.36 kN-m	**Ok**
Cortante	V=	0.28 kN				
	fv=	0.13 MPa	<	f'v=	1.89 MPa	**Ok**
Axial - compresion	P=	8.55 kN	<	Padm=	16.69 kN	**Ok**
Axial - traccion	T=		<	Tadm=	6.05 kN	**Ok**

Esfuerzos de flexo compresión =	0.83	< 1	Cumple
Esfuerzos de flexo tracciòn =	0.32	< 1	Cumple

Flexión	M1=	0.22 kN-m	<	Mr=	0.73 kN-m	**Ok**
	M2=	0.00 kN-m	<	Mr=	0.36 kN-m	**Ok**
Cortante	V=	0.41 kN				
	fv=	0.19 MPa	<	f'v=	1.89 MPa	**Ok**
Axial - compresion	P=	8.23 kN	<	Padm=	16.69 kN	**Ok**
Axial - traccion	T=		<	Tadm=	6.05 kN	**Ok**

Esfuerzos de flexo compresión =	0.79	< 1	Cumple
Esfuerzos de flexo tracciòn =	0.30	< 1	Cumple

Diseño de columnas en madera estructural

Ing.=	**Juan Hurtado**	**Fecha=**	**10/16/2025**
Revisa	**Elyn Sofía Montoya**		

Proyecto: **La Chorrera**

Geometria Correas

Grupo	ES.5	Madera=	PINO AMARILLO	Luz=	1.14 m
b=	40 mm	h=	80 mm		

Propiedades basicas

Densidad (DB)=	5.80 kN/m³	$E_{0.5}$=	11750 MPa	E_{min}=	6200 MPa
Fb=	16.50 MPa	Fv=	2.10 MPa	$E_{0.05}$=	8250 MPa
I=	1706667 mm^4	Fp=	5.10 MPa	Fc=	11.40 MPa
Ft=	2.10 MPa				

Coeficientes de modificación

(Los esfuerzos admisibles se veran afectados por sus condiciones geometricas y de factores bioticos de acuerdo a G.2.2.3)

$$f_i' = f_i \times C_D \times C_m \times C_t \times C_L \times C_F \times C_{fu}$$

Humedad= 12%

Para F_b; C_m=	**1.00**	Para F_v; C_m=	**1.00**	Para E; C_m=	**1.00**
Para F_p; C_m=	**1.00**				

Duración carga= Permanente Tipo de carga= Muerta

Para F_b; C_D=	**0.90**	Para F_v; C_D=	**0.90**

Temperatura= T ≤ 37.8°C Condición= Humedo

Para F_b,F_v,F_p;C_t=	1.00	Para E ;C_t=	1.00
Para F_t=	1.00		

Incisiones paralelas al grano= NO

Para F_b,F_v ;C_{in}=	1.00	
Para E ;C_{in}=	1.00	Cuando se tengan incisiones en la madera, en forma paralela al grano a una profundidad max 100 mm y Long de 3/8".

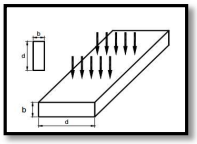
Por acción conjunta		**Por rigidez al pandeo**		**Por desviación del grano**	
Para F_b,F_v ;C_r=	1.00	Para E_{min} ;C_T=	1.00	Para F_b,F_t ;C_{Dg}=	1.00

Coeficientes de modificación para Flexión

Coeficiente de forma Para F_b,F_t ;C_d= 1.15

Coeficiente por flexión en el eje debil Cargas sobre b= NO

Para F_b ;C_{fu}= 1.00



Coeficiente de modificación por estabilidad lateral de COLUMNAS (C_L)

Numero de Luces de la Viga	luz.simple	Lu=	1.14 m
Tipo de Carga	C) Carga uniforme repartida	Lu/d=	1.42
	(Ver figura G.3.3.2)	Le=	1.14 m

d/b= 2.00 **No requiere soporte lateral**

RB= 7.54321 F_{bE}= 131 MPa F_b^*= 17 MPa

C_L= 1.00

Propiedades modificadas

F'b=	17.08 MPa	F'v=	1.89 MPa	E'0.5=	11750.00 MPa
F'c=	10.26 MPa	F't=	1.89 MPa		

Diseño de elementos en Madera

C. Muerta + C. Viva

Flexión	M1=	0.17 kN-m	<	Mr=	0.73 kN-m	**Ok**
	M2=	0.03 kN-m	<	Mr=	0.36 kN-m	**Ok**
Cortante	V=	0.28 kN				
	fv=	0.13 MPa	<	f'v=	1.89 MPa	**Ok**
Axial - compresion	P=	8.55 kN	<	Padm=	16.69 kN	**Ok**
Axial - traccion	T=		<	Tadm=	6.05 kN	**Ok**

Esfuerzos de flexo compresión =	0.83	< 1	Cumple
Esfuerzos de flexo tracciòn =	0.32	< 1	Cumple

Flexión	M1=	0.22 kN-m	<	Mr=	0.73 kN-m	**Ok**
	M2=	0.00 kN-m	<	Mr=	0.36 kN-m	**Ok**
Cortante	V=	0.41 kN				
	fv=	0.19 MPa	<	f'v=	1.89 MPa	**Ok**
Axial - compresion	P=	8.23 kN	<	Padm=	16.69 kN	**Ok**
Axial - traccion	T=		<	Tadm=	6.05 kN	**Ok**

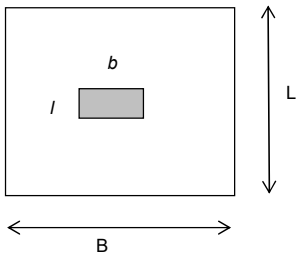
Esfuerzos de flexo compresión =	0.79	< 1	Cumple
Esfuerzos de flexo tracciòn =	0.30	< 1	Cumple

ZAPATA TIPO Z-1 **Casa Chorrera**

P (t)	FC	P_u (t)	s_{adm} (t/m^2)	b_{col} (cm)	l_{col} (cm)	h_{zap} (cm)
11.18	1.3	14.53	16.8	30	30	30

Materiales

f'$_c$ (MPa)	λ	f_y (MPa)	Relación de rigidez
21	1	420	1.17



1. Dimension del cimiento

A_{req} (m^2)	B (m)	L (m)	Check	Voladizo (m)
0.73	1.00	1.00	CUMPLE	0.35

2. Chequeo Esfuerzos de contacto

A_1 (mm^2) = 90000

0.65 x 0.85 x f 'c x A_1 = 1044.225 kN > Pu **CUMPLE**

3. Cortante como Viga

s_u (t/m^2)	V_u (kN)	ϕ
14.53	14.53	0.75

ϕVc = ϕ 0.17 λ $\sqrt{f'c}$ x 250 = 146.07 kN > Vu **CUMPLE**

4. Cortante como placa

b_0 (mm)	b	a_s	V_u (kN)	Check
2200	1.00	40	145.275	**CUMPLE**

ϕVc = ϕ 0.33 λ $\sqrt{f'c}$ x 2200 x 2[illegible] = 561.42 kN

ϕVc = ϕ 0.17 λ x (1 + 2 / b) x $\sqrt{f'c}$ x bo x 2[illegible] = 867.65 kN

$$\phi Vc = \phi\ 0.083\ \lambda \left(\frac{a_s * d}{bo} + 2 \right) \sqrt{f'c} \times bo \times 2[\text{illegible}] = 860.07 \text{ kN}$$

5. Diseño a flexion

M_u (t-m)	R (kg/cm^2)	k	ρ	A_s (cm^2)
0.89	1.58	0.050	0.0004	*5.40*

Colocar # 4 *cada* *0.20* *m* Asb = 1.27 cm2

Son 5 barras en c/direccion L= 1.25 m **Sentido largo**

Son 5 barras en c/direccion L= 1.25 m **Sentido corto**

Diseño de vigas de cimentación

Proyecto: Casa la Chorrera

Fecha= 10/16/2025

Por: Ing. Juan Hurtado

1. Bases del diseño

Sección Viga de amarre		
b=	300	mm
h min=	150	mm
h adop=	350	mm
I=	1071875000	mm^4

Riesgo sismico	Bajo	
Luz =	6.00	m
A_a =	0.05	m/s^2
0.25 A_a =	0.0125	m/s^2
C.F=	1.30	

2. Materiales

Concreto	21	MPa
Acero de refuerzo	420	MPa
E concrete	17872	MPa
ϕ shear	0.75	
ϕ beinding	0.9	
k	0.0500	

3. Solicitudes

Fz columna=	10	kN
Δ Diferencial=	5	mm
M empotramiento=	7	kN-m
0.25 Ao*Fz=	0	kN

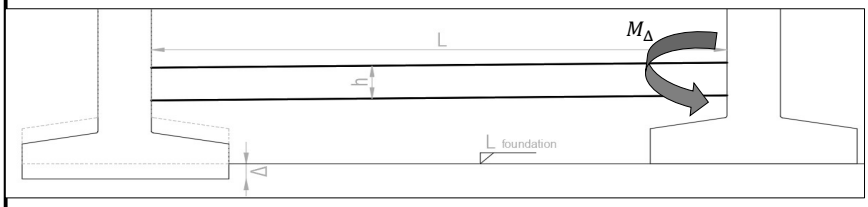
4. Compression check

Cu=	0.16	kN
Areq =	12	mm^2
A viga=	105000	mm^2
Check	ok	

5. tension check

Tu=	0.16	kN
As=	0.00	cm^2
As mín=	5.94	cm^2
Check=	ok	

6. Beinding Check



$$M_\Delta = \frac{6 \times E \times I \times \Delta}{L^2}$$

M Δ=	15.96	kN-m
Mu Δ=	20.75	kN-m
d viga=	300	mm
V Δ=	5.3	kN
Vu Δ=	6.9	kN

Empotramiento en la base

Mu fundación=	9	kN-m
Vu Fundación=	3	kN

Solicitudes de diseño

Mu Vcim=	21	kN-m
Vu Vcim=	7	kN

ϕRn	0.09	As=	2.97	cm^2	As utilizado= 3.81 cm^2
ρ req	0.0023	As min=	2.97	cm^2	Verificación= **cumple**

Ramas	**Ganchos**	**#estribo**	**Av (cm^2)**	**Separacion (cm)**	
2	1	#3	4.26	25	

ϕVc=	53	kN			
ΔV=	-46	kN			
ϕVs =	1610	kN	**S diseño=**	25	cm
ϕVn=	**1663**	**kN** **cumple**	**S mínimo =**	7	cm

TITLE PAGE

Project: MC33_Chorrera_09mar

Author :

Reactions ULS: global extremes

in the coordinate system: global - Cases: 1 2 11 21to24 31 32

	FX (kN)	FY (kN)	FZ (kN)	MX (kNm)
MAX	0.24	0.29	3.81	2.30
Node	487	620	575	443
Case	1	1	1	32
MIN	-1.47	-1.79	-1.33	-0.22
Node	612	443	629	620
Case	31	32	32	1

	MY (kNm)	MZ (kNm)
MAX	0.23	0.02
Node	487	612
Case	1	32
MIN	-1.70	-0.01
Node	612	604
Case	31	32

Member Forces ULS: envelope

- Cases: 1 2 11 21to24 31 32

Member	FX (kN)	FY (kN)	FZ (kN)	MX (kNm)
1 / MAX	0.14	0.21	0.33	0.85
Node	3563	622	622	3563
Case	1	32	1	1
1 / MIN	-0.25	-0.81	-0.43	-1.28
Node	3563	622	3563	622
Case	31	31	1	1
2 / MAX	0.26	0.22	0.52	1.52
Node	401	3563	3563	401
Case	1	32	1	1
2 / MIN	-0.92	-0.54	-0.49	-1.15
Node	401	3563	401	3563
Case	31	31	1	1
3 / MAX	0.01	0.05	0.03	0.00
Node	512	512	512	512
Case	32	32	1	1
3 / MIN	-1.71	-0.02	-0.11	-0.00

Member	FX (kN)	FY (kN)	FZ (kN)	MX (kNm)
Node	512	3583	3583	512
Case	1	32	31	32
4 / MAX	0.01	0.00	0.12	0.00
Node	3583	3583	3583	3583
Case	32	1	31	32
4 / MIN	-1.95	-0.11	-0.08	-0.00
Node	509	509	509	3583
Case	31	32	1	1
5 / MAX	0.02	0.05	0.04	0.04
Node	424	424	424	424
Case	32	32	1	1
5 / MIN	-2.01	-0.02	-0.13	-0.00
Node	3567	3567	3567	424
Case	31	32	31	32
6 / MAX	0.01	0.0	0.13	0.00
Node	3567	3567	3567	3567
Case	32	2	31	32
6 / MIN	-2.31	-0.12	-0.08	-0.03
Node	421	421	421	3567
Case	31	32	1	1
7 / MAX	0.21	0.81	0.33	1.28
Node	605	605	605	605
Case	31	31	1	1
7 / MIN	-0.17	-0.21	-0.43	-0.85
Node	3599	3599	3599	3599
Case	31	32	1	1
8 / MAX	0.28	0.54	0.52	1.15
Node	596	3599	3599	3599
Case	1	31	1	1
8 / MIN	-0.84	-0.33	-0.49	-1.52
Node	596	596	596	596
Case	31	32	1	1
9 / MAX	0.00	0.06	0.06	0.0
Node	444	444	444	444
Case	32	32	1	2
9 / MIN	-0.93	-0.01	-0.08	-0.01
Node	444	3571	3571	444
Case	1	32	1	1
10 / MAX	0.00	0.00	0.12	0.01
Node	3571	3571	3571	3571
Case	32	31	31	1
10 / MIN	-0.93	-0.11	-0.09	0.0
Node	3571	441	441	3571
Case	1	32	1	2
11 / MAX	0.04	0.06	0.03	0.0
Node	532	532	532	532

Member	FX (kN)	FY (kN)	FZ (kN)	MX (kNm)
Case	32	32	1	2
11 / MIN	-1.73	-0.02	-0.11	-0.00
Node	532	3587	3587	532
Case	1	32	31	32
12 / MAX	0.04	0.00	0.12	0.00
Node	3587	3587	3587	3587
Case	32	1	31	32
12 / MIN	-1.78	-0.11	-0.08	0.0
Node	3587	529	529	3587
Case	1	32	1	2
13 / MAX	0.0	0.05	0.04	0.00
Node	468	468	468	468
Case	2	32	1	1
13 / MIN	-1.60	-0.02	-0.11	-0.00
Node	3575	3575	3575	468
Case	31	32	31	32
14 / MAX	0.0	0.0	0.12	0.00
Node	3575	3575	3575	3575
Case	2	2	31	32
14 / MIN	-1.88	-0.11	-0.08	-0.00
Node	465	465	465	3575
Case	31	32	1	1
15 / MAX	0.03	0.06	0.03	0.0
Node	576	576	576	576
Case	32	32	1	2
15 / MIN	-1.72	-0.04	-0.12	-0.03
Node	3595	576	3595	576
Case	31	1	31	1
16 / MAX	0.03	0.01	0.13	0.03
Node	3595	3595	3595	3595
Case	32	1	31	1
16 / MIN	-2.01	-0.12	-0.08	0.0
Node	573	573	573	3595
Case	31	32	1	2
17 / MAX	0.00	0.06	0.03	0.0
Node	488	488	488	488
Case	32	32	1	2
17 / MIN	-1.98	-0.02	-0.11	-0.00
Node	488	3579	3579	488
Case	1	32	1	32
18 / MAX	0.00	0.0	0.12	0.00
Node	3579	3579	3579	3579
Case	32	2	31	32
18 / MIN	-2.02	-0.11	-0.08	0.0
Node	3579	485	485	3579
Case	1	32	1	2

Member	FX (kN)	FY (kN)	FZ (kN)	MX (kNm)
19 / MAX	0.00	0.05	0.06	0.01
Node	556	556	556	556
Case	32	32	1	1
19 / MIN	-0.53	-0.02	-0.08	-0.00
Node	556	3591	3591	556
Case	1	32	1	32
20 / MAX	0.00	0.00	0.11	0.00
Node	3591	3591	3591	3591
Case	32	1	31	32
20 / MIN	-0.70	-0.11	-0.08	-0.01
Node	553	553	553	3591
Case	31	32	1	1
21 / MAX	0.23	0.71	0.33	1.28
Node	3565	630	630	630
Case	31	1	1	1
21 / MIN	-0.17	-0.81	-0.43	-0.85
Node	630	630	3565	3565
Case	1	31	1	1
22 / MAX	0.90	0.46	0.52	1.15
Node	412	3565	3565	3565
Case	31	1	1	1
22 / MIN	-0.16	-0.54	-0.49	-1.52
Node	3565	3565	412	412
Case	1	31	1	1
23 / MAX	2.03	0.02	0.13	0.01
Node	3569	3569	3569	435
Case	31	32	31	31
23 / MIN	-0.88	-0.05	-0.09	-0.04
Node	435	435	3569	435
Case	1	32	1	1
24 / MAX	2.33	0.12	0.09	0.03
Node	432	432	3569	3569
Case	31	32	1	1
24 / MIN	-1.00	-0.00	-0.13	-0.01
Node	3569	3569	3569	3569
Case	1	31	31	31
25 / MAX	0.26	0.01	0.07	0.01
Node	3573	3573	3573	455
Case	31	32	31	1
25 / MIN	-0.93	-0.06	-0.08	-0.00
Node	455	455	3573	455
Case	1	32	1	31
26 / MAX	0.48	0.11	0.09	0.00
Node	452	452	3573	3573
Case	31	32	1	31
26 / MIN	-0.94	0.0	-0.12	-0.01

Member	FX (kN)	FY (kN)	FZ (kN)	MX (kNm)
Node	3573	3573	3573	3573
Case	1	2	31	1
27 / MAX	1.63	0.02	0.11	0.00
Node	3577	3577	3577	479
Case	31	32	31	32
27 / MIN	-1.37	-0.05	-0.10	-0.00
Node	479	479	3577	479
Case	1	32	1	1
28 / MAX	1.90	0.11	0.10	0.00
Node	476	476	3577	3577
Case	31	32	1	1
28 / MIN	-1.40	-0.00	-0.12	-0.00
Node	3577	3577	3577	3577
Case	1	31	31	32
29 / MAX	1.36	0.02	0.11	0.00
Node	3581	3581	3581	499
Case	31	32	31	32
29 / MIN	-1.97	-0.06	-0.11	-0.00
Node	499	499	3581	499
Case	1	32	1	31
30 / MAX	1.63	0.11	0.10	0.00
Node	496	496	3581	3581
Case	31	32	1	31
30 / MIN	-2.02	-0.00	-0.12	-0.00
Node	3581	3581	3581	3581
Case	1	31	31	32
31 / MAX	1.69	0.03	0.11	0.00
Node	3585	3585	3585	523
Case	31	32	31	32
31 / MIN	-1.71	-0.05	-0.10	-0.00
Node	523	523	3585	523
Case	1	32	1	1
32 / MAX	1.96	0.11	0.10	0.00
Node	520	520	3585	3585
Case	31	32	1	1
32 / MIN	-1.74	-0.00	-0.12	-0.00
Node	3585	3585	3585	3585
Case	1	1	31	32
33 / MAX	1.34	0.02	0.11	0.00
Node	3589	3589	3589	543
Case	31	32	31	32
33 / MIN	-1.73	-0.06	-0.11	-0.00
Node	543	543	3589	543
Case	1	32	1	31
34 / MAX	1.61	0.11	0.10	0.00
Node	540	540	3589	3589

Member	FX (kN)	FY (kN)	FZ (kN)	MX (kNm)
Case	31	32	1	31
34 / MIN	-1.78	-0.00	-0.12	-0.00
Node	3589	3589	3589	3589
Case	1	1	31	32
35 / MAX	0.52	0.02	0.08	0.00
Node	3593	3593	3593	567
Case	31	32	31	32
35 / MIN	-0.53	-0.05	-0.08	-0.01
Node	567	567	3593	567
Case	1	32	1	1
36 / MAX	0.76	0.11	0.09	0.01
Node	564	564	3593	3593
Case	31	32	1	1
36 / MIN	-0.53	-0.00	-0.11	-0.00
Node	3593	3593	3593	3593
Case	1	1	31	31
37 / MAX	1.78	0.04	0.12	0.03
Node	3597	587	3597	587
Case	31	1	31	1
37 / MIN	-0.93	-0.06	-0.10	-0.01
Node	587	587	3597	587
Case	1	32	1	31
38 / MAX	2.08	0.12	0.09	0.01
Node	584	584	3597	3597
Case	31	32	1	31
38 / MIN	-1.07	-0.01	-0.13	-0.03
Node	3597	3597	3597	3597
Case	1	1	31	1
39 / MAX	0.15	0.81	0.33	0.85
Node	3600	613	613	3600
Case	1	31	1	1
39 / MIN	-0.23	-0.71	-0.43	-1.28
Node	613	613	3600	613
Case	31	1	1	1
40 / MAX	0.82	0.54	0.52	1.52
Node	599	3600	3600	599
Case	31	31	1	1
40 / MIN	-0.14	-0.46	-0.49	-1.15
Node	3600	3600	599	3600
Case	1	1	1	1
41 / MAX	0.0	0.0	0.08	0.01
Node	597	597	597	597
Case	2	2	1	1
41 / MIN	-0.52	-0.18	-0.52	0.0
Node	597	597	597	597
Case	1	32	31	2

Member	FX (kN)	FY (kN)	FZ (kN)	MX (kNm)
42 / MAX	0.17	0.04	0.11	0.01
Node	2	1	1	1
Case	31	31	1	1
42 / MIN	-0.61	-0.08	-0.16	-0.00
Node	1	1	1	1
Case	1	32	31	31
43 / MAX	0.14	0.08	0.09	0.0
Node	3	3	2	2
Case	31	32	1	2
43 / MIN	-0.61	-0.02	-0.16	-0.01
Node	2	2	2	2
Case	1	32	31	1
44 / MAX	0.49	0.18	0.14	0.00
Node	619	619	3	3
Case	31	32	1	31
44 / MIN	-0.52	-0.05	-0.52	-0.01
Node	3	3	3	3
Case	1	31	31	1
45 / MAX	1.24	0.08	0.00	0.00
Node	3605	3605	3605	3605
Case	1	32	1	31
45 / MIN	0.0	-0.00	-0.23	0.0
Node	3605	3605	3605	3605
Case	2	31	31	1
46 / MAX	0.75	0.18	0.02	0.01
Node	1	1	605	1
Case	31	1	31	32
46 / MIN	0.0	-0.08	-0.05	-0.02
Node	1	605	1	1
Case	2	32	31	1
47 / MAX	1.44	0.11	0.00	0.0
Node	3607	3607	3607	3607
Case	1	32	1	2
47 / MIN	0.0	0.0	-0.22	-0.00
Node	3607	3607	3607	3607
Case	2	2	31	31
48 / MAX	1.10	0.05	0.04	0.00
Node	2	2	606	2
Case	1	1	31	31
48 / MIN	0.0	-0.06	-0.02	0.0
Node	2	606	2	2
Case	2	32	31	2
49 / MAX	1.24	0.08	0.00	0.00
Node	3606	3606	3606	3606
Case	1	32	32	32
49 / MIN	-0.62	0.0	-0.23	-0.00

Member	FX (kN)	FY (kN)	FZ (kN)	MX (kNm)
Node	3	3606	3606	3606
Case	31	2	31	31
50 / MAX	0.73	0.18	0.02	0.02
Node	3	3	613	3
Case	1	1	31	1
50 / MIN	-0.60	-0.09	-0.05	-0.01
Node	613	3	3	3
Case	31	31	31	32
460 / MAX	0.72	0.33	0.04	0.0
Node	420	420	420	420
Case	1	32	1	2
460 / MIN	-1.11	0.0	-0.63	-0.00
Node	421	420	420	420
Case	31	2	31	1
461 / MAX	1.73	0.07	0.06	0.00
Node	422	422	421	421
Case	31	32	1	32
461 / MIN	-0.05	-0.02	-0.28	0.0
Node	421	421	421	421
Case	32	32	31	2
462 / MAX	3.24	0.04	1.25	0.0
Node	423	423	423	423
Case	1	1	31	2
462 / MIN	0.0	-1.68	-0.10	-0.00
Node	423	423	423	423
Case	2	32	1	32
463 / MAX	1.39	0.02	0.04	0.01
Node	425	425	424	424
Case	1	31	1	1
463 / MIN	-0.18	-0.02	-0.61	-0.03
Node	424	424	425	424
Case	31	32	31	32
464 / MAX	1.61	0.01	0.05	0.0
Node	422	422	422	422
Case	1	31	32	2
464 / MIN	-0.11	-0.71	-1.19	-0.14
Node	424	422	422	422
Case	32	32	1	32
465 / MAX	0.06	0.47	0.44	0.11
Node	426	426	426	426
Case	31	32	31	32
465 / MIN	-1.25	-0.05	-0.33	-0.01
Node	426	424	426	424
Case	1	1	1	32
467 / MAX	0.57	0.14	0.09	0.0
Node	427	428	427	427

Member	FX (kN)	FY (kN)	FZ (kN)	MX (kNm)
Case	31	32	31	2
467 / MIN	-0.28	-0.00	0.0	-0.00
Node	428	427	427	427
Case	1	31	2	31
470 / MAX	1.12	0.02	0.63	0.00
Node	432	431	431	431
Case	31	31	31	1
470 / MIN	0.0	-0.33	-0.00	-0.00
Node	431	431	431	431
Case	2	32	32	31
471 / MAX	1.05	0.02	0.28	0.00
Node	433	432	432	432
Case	1	32	31	31
471 / MIN	-1.75	-0.07	-0.11	-0.00
Node	433	433	433	432
Case	31	32	1	32
472 / MAX	3.24	0.04	1.25	0.00
Node	434	434	434	434
Case	1	1	31	32
472 / MIN	-1.18	-1.68	-0.00	-0.00
Node	434	434	434	434
Case	31	32	32	31
473 / MAX	1.39	0.02	0.61	0.03
Node	425	435	425	435
Case	1	32	31	32
473 / MIN	0.0	-0.01	-0.00	-0.01
Node	435	435	425	435
Case	2	1	1	1
474 / MAX	1.61	0.71	0.70	0.14
Node	433	433	433	433
Case	1	32	31	32
474 / MIN	-1.31	-0.01	-1.18	-0.01
Node	435	435	433	433
Case	31	31	1	31
475 / MAX	0.40	0.05	0.08	0.01
Node	435	435	435	435
Case	31	1	1	32
475 / MIN	-1.25	-0.47	-0.44	-0.11
Node	426	426	426	426
Case	1	32	31	32
477 / MAX	0.00	0.14	0.09	0.00
Node	436	437	436	436
Case	32	32	31	32
477 / MIN	-0.57	0.0	-0.01	-0.00
Node	436	436	436	436
Case	31	2	1	31

Member	FX (kN)	FY (kN)	FZ (kN)	MX (kNm)
480 / MAX	0.0	0.32	0.03	0.00
Node	440	440	440	440
Case	2	32	1	1
480 / MIN	-0.50	-0.01	-0.59	-0.00
Node	441	440	440	440
Case	31	1	31	32
481 / MAX	0.83	0.09	0.06	0.00
Node	442	442	441	441
Case	1	32	1	32
481 / MIN	-0.05	-0.00	-0.22	-0.00
Node	441	441	441	441
Case	31	1	31	1
482 / MAX	2.80	0.01	1.40	0.19
Node	443	443	443	442
Case	1	31	31	32
482 / MIN	-0.86	-1.79	-0.57	-0.01
Node	443	443	442	442
Case	31	32	1	1
483 / MAX	0.12	0.0	0.09	0.05
Node	445	444	444	445
Case	31	2	1	32
483 / MIN	-2.18	-0.05	-0.71	-0.03
Node	444	444	445	444
Case	1	32	1	32
484 / MAX	0.0	0.01	1.49	0.19
Node	442	444	444	444
Case	2	1	1	32
484 / MIN	-2.01	-0.25	-0.18	-0.01
Node	442	442	442	444
Case	1	32	31	1
485 / MAX	0.00	0.47	0.25	0.10
Node	446	446	446	446
Case	32	32	1	32
485 / MIN	-0.23	-0.01	0.0	-0.01
Node	444	446	444	444
Case	1	1	2	32
487 / MAX	0.60	0.16	0.03	0.00
Node	447	448	447	447
Case	1	32	31	1
487 / MIN	0.0	-0.01	-0.03	-0.00
Node	447	447	448	447
Case	2	1	31	32
490 / MAX	0.51	0.01	0.59	0.00
Node	452	451	451	451
Case	31	1	31	32
490 / MIN	-0.16	-0.32	-0.00	-0.00

Member	FX (kN)	FY (kN)	FZ (kN)	MX (kNm)
Node	452	451	451	451
Case	1	32	32	1
491 / MAX	0.83	0.00	0.22	0.00
Node	453	452	452	452
Case	1	1	31	1
491 / MIN	-0.07	-0.08	-0.12	-0.00
Node	453	453	453	452
Case	31	32	1	32
492 / MAX	2.80	0.01	1.40	0.01
Node	454	454	454	453
Case	1	1	31	1
492 / MIN	-0.00	-1.79	0.0	-0.17
Node	454	454	454	453
Case	32	32	2	32
493 / MAX	0.0	0.06	0.11	0.03
Node	455	455	455	455
Case	2	32	1	32
493 / MIN	-2.22	-0.00	-0.64	-0.05
Node	455	445	445	445
Case	1	31	1	32
494 / MAX	0.39	0.25	1.55	0.01
Node	455	453	455	455
Case	1	32	1	1
494 / MIN	-2.06	-0.02	-0.00	-0.19
Node	453	455	453	455
Case	1	1	32	32
495 / MAX	0.22	0.01	0.21	0.01
Node	455	446	446	455
Case	31	1	1	32
495 / MIN	-0.22	-0.47	-0.08	-0.10
Node	455	446	455	446
Case	1	32	31	32
497 / MAX	0.54	0.16	0.03	0.00
Node	456	457	456	456
Case	1	32	31	32
497 / MIN	-0.05	-0.01	-0.03	-0.00
Node	456	456	457	456
Case	31	1	31	1
500 / MAX	0.57	0.04	0.12	0.00
Node	441	421	441	441
Case	31	31	32	32
500 / MIN	0.0	-0.05	-0.20	-0.00
Node	441	441	421	441
Case	2	31	1	31
501 / MAX	0.59	0.06	0.58	0.00
Node	421	421	421	421

Member	FX (kN)	FY (kN)	FZ (kN)	MX (kNm)
Case	31	32	1	1
501 / MIN	0.0	-0.11	0.0	0.0
Node	421	421	421	421
Case	2	1	2	2
502 / MAX	0.0	0.04	0.48	0.00
Node	442	422	442	442
Case	2	31	32	31
502 / MIN	-1.27	-0.04	-0.08	-0.00
Node	442	442	422	442
Case	1	31	1	1
503 / MAX	0.19	0.04	0.58	0.0
Node	422	422	422	422
Case	32	32	32	2
503 / MIN	-1.55	-0.06	-0.10	-0.00
Node	422	422	402	422
Case	1	31	1	31
504 / MAX	0.48	0.04	0.48	0.00
Node	453	433	453	453
Case	31	31	32	31
504 / MIN	-1.27	-0.04	-0.08	-0.00
Node	453	453	433	453
Case	1	31	1	32
505 / MAX	0.55	0.03	0.58	0.00
Node	433	413	433	433
Case	31	31	32	32
505 / MIN	-1.55	-0.06	-0.10	-0.00
Node	433	433	413	433
Case	1	31	1	31
506 / MAX	0.24	0.04	0.12	0.00
Node	452	432	452	452
Case	1	31	32	1
506 / MIN	-0.57	-0.05	-0.20	-0.00
Node	452	452	432	452
Case	31	31	1	31
507 / MAX	0.33	0.11	0.58	0.00
Node	432	432	432	432
Case	1	1	1	31
507 / MIN	-0.59	-0.06	-0.11	-0.00
Node	432	432	432	432
Case	31	32	31	1
508 / MAX	3.18	0.06	0.26	0.00
Node	442	426	442	426
Case	1	31	1	32
508 / MIN	-0.87	-0.05	-0.30	-0.01
Node	442	442	426	442
Case	31	31	1	32

Member	FX (kN)	FY (kN)	FZ (kN)	MX (kNm)
509 / MAX	0.70	0.05	0.09	0.0
Node	446	426	446	446
Case	1	31	1	2
509 / MIN	-0.20	-0.04	-0.26	-0.00
Node	426	446	446	446
Case	32	31	32	31
510 / MAX	3.08	0.0	0.40	0.00
Node	426	426	426	426
Case	1	2	1	31
510 / MIN	0.0	-0.11	-0.40	-0.00
Node	426	426	426	426
Case	2	31	32	1
511 / MAX	0.69	0.03	0.30	0.00
Node	426	402	402	426
Case	31	31	1	32
511 / MIN	-1.87	-0.05	-0.26	-0.01
Node	402	426	426	402
Case	32	31	1	32
512 / MAX	0.93	0.40	1.16	0.03
Node	413	413	413	413
Case	1	31	32	1
512 / MIN	-1.35	-0.05	-0.47	-0.00
Node	426	426	413	413
Case	32	31	1	32
513 / MAX	3.18	0.06	0.26	0.01
Node	453	426	453	453
Case	1	31	1	32
513 / MIN	0.0	-0.05	-0.30	-0.00
Node	453	453	426	426
Case	2	31	1	32
514 / MAX	0.55	0.06	0.11	0.0
Node	422	460	422	422
Case	32	32	1	2
514 / MIN	-0.23	-0.02	-0.05	-0.00
Node	422	422	460	422
Case	31	31	1	32
515 / MAX	0.08	0.07	0.10	0.00
Node	422	461	422	422
Case	1	32	1	31
515 / MIN	-0.50	-0.03	-0.09	-0.00
Node	422	461	461	422
Case	32	31	32	32
516 / MAX	0.55	0.03	0.11	0.00
Node	433	462	433	433
Case	32	31	1	32
516 / MIN	-0.05	-0.06	-0.05	-0.00

Member	FX (kN)	FY (kN)	FZ (kN)	MX (kNm)
Node	462	462	462	433
Case	1	32	1	31
517 / MAX	0.19	0.03	0.10	0.00
Node	433	433	433	433
Case	31	31	1	32
517 / MIN	-0.50	-0.07	-0.10	-0.00
Node	433	463	463	433
Case	32	32	32	1
518 / MAX	0.0	0.32	0.04	0.00
Node	464	464	464	464
Case	2	32	1	31
518 / MIN	-1.06	0.0	-0.61	-0.00
Node	465	464	464	464
Case	31	2	31	32
519 / MAX	1.35	0.07	0.07	0.00
Node	466	466	465	465
Case	31	32	1	32
519 / MIN	0.0	-0.02	-0.27	0.0
Node	465	465	465	465
Case	2	32	31	2
520 / MAX	2.76	0.01	1.22	0.0
Node	467	467	467	467
Case	1	31	31	2
520 / MIN	-0.01	-1.66	-0.14	-0.00
Node	467	467	467	467
Case	32	32	1	32
521 / MAX	0.01	0.00	0.06	0.00
Node	469	469	468	468
Case	31	32	1	1
521 / MIN	-0.19	-0.03	-0.74	-0.03
Node	468	468	469	468
Case	31	32	31	32
522 / MAX	2.10	0.00	0.15	0.00
Node	466	466	466	466
Case	1	1	1	31
522 / MIN	-0.02	-0.26	-0.33	-0.01
Node	466	466	468	466
Case	32	32	31	32
523 / MAX	0.54	0.47	0.59	0.11
Node	468	470	470	470
Case	1	32	31	32
523 / MIN	-0.45	-0.01	-0.32	-0.01
Node	468	470	470	468
Case	31	1	1	32
525 / MAX	0.73	0.14	0.09	0.00
Node	471	472	471	471

Member	FX (kN)	FY (kN)	FZ (kN)	MX (kNm)
Case	31	32	31	31
525 / MIN	-0.27	-0.00	-0.00	-0.00
Node	472	471	471	471
Case	1	1	32	32
528 / MAX	1.07	0.00	0.61	0.00
Node	476	475	475	475
Case	31	31	31	32
528 / MIN	-0.16	-0.32	0.0	0.0
Node	476	475	475	475
Case	1	32	2	2
529 / MAX	1.30	0.02	0.27	0.00
Node	477	476	476	476
Case	1	32	31	31
529 / MIN	-1.37	-0.07	-0.11	-0.00
Node	477	477	477	476
Case	31	32	1	32
530 / MAX	2.76	0.00	1.22	0.00
Node	478	478	478	478
Case	1	1	31	32
530 / MIN	-0.61	-1.66	0.0	0.0
Node	478	478	478	478
Case	31	32	2	2
531 / MAX	0.20	0.03	0.74	0.03
Node	479	479	469	479
Case	31	32	31	32
531 / MIN	-0.16	-0.00	-0.00	-0.00
Node	479	469	479	479
Case	1	31	32	1
532 / MAX	1.89	0.67	0.34	0.13
Node	479	477	477	477
Case	1	32	31	32
532 / MIN	-0.77	-0.01	-1.44	-0.00
Node	479	477	477	477
Case	31	1	1	1
533 / MAX	0.54	0.01	0.07	0.01
Node	479	470	479	479
Case	1	1	1	32
533 / MIN	-0.15	-0.47	-0.59	-0.11
Node	470	470	470	470
Case	31	32	31	32
535 / MAX	0.0	0.14	0.09	0.00
Node	480	481	480	480
Case	2	32	31	32
535 / MIN	-0.72	-0.00	-0.01	0.0
Node	480	480	480	480
Case	31	1	1	2

Member	FX (kN)	FY (kN)	FZ (kN)	MX (kNm)
538 / MAX	0.0	0.32	0.05	0.00
Node	484	484	484	484
Case	2	32	1	31
538 / MIN	-0.96	0.0	-0.60	-0.00
Node	485	484	484	484
Case	31	2	31	32
539 / MAX	1.88	0.07	0.06	0.00
Node	486	486	485	485
Case	1	32	1	32
539 / MIN	-0.00	-0.02	-0.26	-0.00
Node	485	485	485	485
Case	32	32	31	1
540 / MAX	3.77	0.00	1.24	0.0
Node	487	487	487	487
Case	1	31	31	2
540 / MIN	0.0	-1.77	-0.24	-0.00
Node	487	487	487	487
Case	2	32	1	32
541 / MAX	0.01	0.00	0.05	0.00
Node	489	488	488	488
Case	31	31	1	1
541 / MIN	-0.54	-0.04	-0.09	-0.03
Node	488	488	489	488
Case	1	32	31	32
542 / MAX	2.66	0.00	0.12	0.00
Node	486	486	486	486
Case	1	1	1	1
542 / MIN	-0.00	-0.27	-0.31	-0.01
Node	486	486	488	486
Case	32	32	31	32
543 / MAX	0.84	0.44	0.07	0.09
Node	488	490	488	490
Case	1	32	1	32
543 / MIN	-0.23	-0.00	-0.32	-0.01
Node	488	490	490	488
Case	31	1	1	32
545 / MAX	0.09	0.12	0.03	0.00
Node	491	492	491	491
Case	31	32	31	1
545 / MIN	-0.27	-0.00	-0.02	-0.00
Node	492	491	492	491
Case	1	1	31	32
548 / MAX	0.96	0.00	0.60	0.00
Node	496	495	495	495
Case	31	31	31	32
548 / MIN	-0.45	-0.32	-0.00	0.0

Member	FX (kN)	FY (kN)	FZ (kN)	MX (kNm)
Node	496	495	495	495
Case	1	32	32	2
549 / MAX	1.88	0.02	0.26	0.00
Node	497	496	496	496
Case	1	32	31	1
549 / MIN	-1.13	-0.07	-0.12	-0.00
Node	497	497	497	496
Case	31	32	1	32
550 / MAX	3.76	0.0	1.23	0.00
Node	498	498	498	498
Case	1	2	31	32
550 / MIN	-0.59	-1.77	0.0	-0.00
Node	498	498	498	498
Case	31	32	2	31
551 / MAX	0.14	0.04	0.09	0.03
Node	499	499	489	499
Case	31	32	31	32
551 / MIN	-0.54	0.0	-0.00	-0.00
Node	499	499	489	499
Case	1	2	1	1
552 / MAX	2.70	0.27	0.31	0.01
Node	497	497	499	497
Case	1	32	31	32
552 / MIN	-0.80	-0.00	-0.09	-0.00
Node	499	497	499	497
Case	31	1	1	1
553 / MAX	0.84	0.00	0.07	0.01
Node	499	490	499	499
Case	1	1	1	32
553 / MIN	0.0	-0.44	-0.32	-0.09
Node	499	490	490	490
Case	2	32	1	32
555 / MAX	0.00	0.12	0.03	0.00
Node	500	501	500	500
Case	32	32	31	32
555 / MIN	-0.27	-0.00	-0.02	-0.00
Node	501	500	501	500
Case	1	1	31	31
558 / MAX	0.56	0.04	0.13	0.00
Node	485	465	485	485
Case	31	31	32	1
558 / MIN	-0.02	-0.05	-0.09	-0.00
Node	465	485	465	485
Case	32	31	1	31
559 / MAX	0.57	0.04	0.13	0.00
Node	465	441	465	465

Member	FX (kN)	FY (kN)	FZ (kN)	MX (kNm)
Case	31	31	32	31
559 / MIN	0.0	-0.04	-0.06	0.0
Node	465	465	441	465
Case	2	31	1	2
560 / MAX	0.0	0.04	0.49	0.00
Node	486	466	486	486
Case	2	31	32	31
560 / MIN	-0.91	-0.04	-0.09	-0.00
Node	486	486	466	486
Case	31	31	1	1
561 / MAX	0.31	0.04	0.49	0.00
Node	466	442	466	466
Case	32	31	32	1
561 / MIN	-0.92	-0.04	-0.09	-0.00
Node	466	466	442	466
Case	31	31	1	31
562 / MAX	0.90	0.04	0.49	0.00
Node	497	477	497	497
Case	31	31	32	1
562 / MIN	-0.66	-0.04	-0.09	0.0
Node	497	497	477	497
Case	1	31	1	2
563 / MAX	0.92	0.04	0.49	0.0
Node	477	453	477	477
Case	31	31	32	2
563 / MIN	-0.67	-0.04	-0.09	-0.00
Node	477	477	453	477
Case	1	31	1	31
564 / MAX	0.25	0.04	0.13	0.00
Node	496	476	496	496
Case	1	31	32	32
564 / MIN	-0.56	-0.05	-0.09	-0.00
Node	496	496	476	496
Case	31	31	1	1
565 / MAX	0.26	0.04	0.13	0.00
Node	476	452	476	476
Case	1	31	32	31
565 / MIN	-0.57	-0.04	-0.06	-0.00
Node	476	476	452	476
Case	31	31	1	1
566 / MAX	2.88	1.32	0.03	0.00
Node	486	486	470	486
Case	1	1	32	1
566 / MIN	-0.27	-1.57	-1.66	-0.10
Node	470	486	486	486
Case	31	32	1	32

Member	FX (kN)	FY (kN)	FZ (kN)	MX (kNm)
567 / MAX	1.93	0.04	0.08	0.00
Node	490	470	490	490
Case	1	31	1	32
567 / MIN	-0.48	-0.05	-0.25	-0.00
Node	470	490	490	490
Case	32	31	32	31
568 / MAX	0.92	0.04	0.09	0.00
Node	470	446	470	470
Case	32	31	1	31
568 / MIN	-0.02	-0.05	-0.27	-0.00
Node	470	470	470	470
Case	31	31	32	32
569 / MAX	2.10	0.89	1.01	0.00
Node	442	442	442	470
Case	1	31	32	32
569 / MIN	-1.37	-1.53	-0.79	-0.01
Node	470	442	442	442
Case	32	32	1	32
570 / MAX	2.06	1.54	1.02	0.02
Node	453	453	453	453
Case	1	32	32	32
570 / MIN	-1.38	-0.05	-0.77	-0.01
Node	470	470	453	453
Case	32	31	1	31
571 / MAX	2.88	1.57	0.18	0.10
Node	497	497	470	497
Case	1	32	31	32
571 / MIN	-0.20	-1.30	-1.66	-0.00
Node	470	497	497	497
Case	1	1	1	1
572 / MAX	1.87	0.81	0.10	0.00
Node	466	466	504	466
Case	1	1	32	1
572 / MIN	-0.13	-0.56	-1.19	-0.13
Node	504	466	466	466
Case	31	32	1	32
573 / MAX	0.11	0.07	0.11	0.00
Node	466	505	466	466
Case	1	32	1	31
573 / MIN	-0.49	-0.03	-0.10	-0.00
Node	466	505	505	466
Case	32	31	32	32
574 / MAX	0.50	0.03	0.11	0.00
Node	477	506	477	477
Case	32	31	1	32
574 / MIN	-0.03	-0.07	-0.05	-0.00

Member	FX (kN)	FY (kN)	FZ (kN)	MX (kNm)
Node	506	506	506	477
Case	1	32	1	31
575 / MAX	0.19	0.03	0.11	0.00
Node	477	477	477	477
Case	31	31	1	32
575 / MIN	-0.49	-0.07	-0.10	-0.00
Node	477	507	507	477
Case	32	32	32	1
576 / MAX	0.01	0.32	0.05	0.00
Node	508	508	508	508
Case	32	32	1	31
576 / MIN	-1.09	-0.00	-0.61	-0.00
Node	509	508	508	508
Case	31	31	31	32
577 / MAX	1.62	0.07	0.07	0.00
Node	510	510	509	509
Case	1	32	1	32
577 / MIN	-0.01	-0.02	-0.27	0.0
Node	509	509	509	509
Case	32	32	31	2
578 / MAX	3.09	0.0	1.21	0.00
Node	511	511	511	511
Case	1	2	31	1
578 / MIN	-0.01	-1.66	-0.16	-0.00
Node	511	511	511	511
Case	32	32	1	32
579 / MAX	0.01	0.00	0.05	0.00
Node	513	512	512	512
Case	32	31	1	1
579 / MIN	-0.44	-0.03	-0.82	-0.03
Node	512	512	513	512
Case	1	32	31	32
580 / MAX	2.58	0.00	0.17	0.00
Node	510	510	510	510
Case	1	1	1	31
580 / MIN	-0.02	-0.26	-0.33	-0.01
Node	510	510	512	510
Case	32	32	31	32
581 / MAX	0.92	0.46	0.66	0.11
Node	512	514	514	514
Case	1	32	31	32
581 / MIN	-0.40	-0.00	-0.33	-0.01
Node	512	514	514	512
Case	31	1	1	32
583 / MAX	0.80	0.13	0.10	0.0
Node	515	516	515	515

Member	FX (kN)	FY (kN)	FZ (kN)	MX (kNm)
Case	31	32	31	2
583 / MIN	-0.27	-0.00	0.0	-0.00
Node	516	515	515	515
Case	1	1	2	32
586 / MAX	1.10	0.0	0.61	0.00
Node	520	519	519	519
Case	31	2	31	32
586 / MIN	-0.33	-0.32	-0.00	0.0
Node	520	519	519	519
Case	1	32	32	2
587 / MAX	1.62	0.01	0.27	0.00
Node	521	520	520	520
Case	1	32	31	31
587 / MIN	-1.42	-0.07	-0.11	-0.00
Node	521	521	521	520
Case	31	32	1	32
588 / MAX	3.09	0.01	1.21	0.00
Node	522	522	522	522
Case	1	31	31	32
588 / MIN	-0.69	-1.66	-0.00	-0.00
Node	522	522	522	522
Case	31	32	32	1
589 / MAX	0.21	0.03	0.82	0.03
Node	523	523	513	523
Case	31	32	31	32
589 / MIN	-0.44	-0.00	0.0	-0.00
Node	523	513	523	513
Case	1	32	2	32
590 / MAX	2.33	0.67	0.40	0.12
Node	523	521	521	521
Case	1	32	31	32
590 / MIN	-0.94	-0.10	-1.77	-0.00
Node	523	523	521	521
Case	31	32	1	1
591 / MAX	1.00	0.00	0.07	0.01
Node	523	514	523	523
Case	1	1	1	32
591 / MIN	-0.25	-0.45	-0.66	-0.11
Node	514	514	514	514
Case	31	32	31	32
593 / MAX	0.00	0.13	0.10	0.00
Node	524	525	524	524
Case	32	32	31	32
593 / MIN	-0.81	-0.00	-0.00	-0.00
Node	524	524	524	524
Case	31	1	1	31

Member	FX (kN)	FY (kN)	FZ (kN)	MX (kNm)
596 / MAX	0.01	0.32	0.05	0.00
Node	528	528	528	528
Case	32	32	1	1
596 / MIN	-0.93	-0.00	-0.61	-0.00
Node	529	528	528	528
Case	31	1	31	32
597 / MAX	1.66	0.07	0.05	0.00
Node	530	530	529	529
Case	1	32	1	32
597 / MIN	-0.04	-0.02	-0.26	-0.00
Node	529	529	529	529
Case	32	32	31	1
598 / MAX	3.55	0.0	1.25	0.00
Node	531	531	531	531
Case	1	2	31	1
598 / MIN	-0.04	-1.77	-0.22	-0.00
Node	531	531	531	531
Case	32	32	1	32
599 / MAX	0.02	0.00	0.06	0.00
Node	532	533	532	532
Case	32	31	1	31
599 / MIN	-0.32	-0.04	-0.09	-0.03
Node	532	532	533	532
Case	1	32	31	32
600 / MAX	2.60	0.00	0.11	0.00
Node	530	530	530	530
Case	1	1	1	1
600 / MIN	-0.03	-0.27	-0.31	-0.01
Node	530	530	532	530
Case	32	32	31	32
601 / MAX	0.82	0.44	0.08	0.09
Node	532	534	532	534
Case	1	32	1	32
601 / MIN	-0.23	-0.00	-0.31	-0.01
Node	532	534	534	532
Case	31	31	1	32
603 / MAX	0.09	0.12	0.03	0.00
Node	535	536	535	535
Case	31	32	31	1
603 / MIN	-0.26	-0.00	-0.02	-0.00
Node	536	535	536	535
Case	1	1	31	32
606 / MAX	0.95	0.00	0.61	0.00
Node	540	539	539	539
Case	31	1	31	32
606 / MIN	-0.32	-0.32	-0.00	-0.00

Member	FX (kN)	FY (kN)	FZ (kN)	MX (kNm)
Node	540	539	539	539
Case	1	32	32	1
607 / MAX	1.66	0.02	0.26	0.00
Node	541	540	540	540
Case	1	32	31	1
607 / MIN	-1.10	-0.07	-0.12	-0.00
Node	541	541	541	540
Case	31	32	1	32
608 / MAX	3.55	0.02	1.25	0.00
Node	542	542	542	542
Case	1	31	31	32
608 / MIN	-0.54	-1.77	-0.00	-0.00
Node	542	542	542	542
Case	31	32	32	1
609 / MAX	0.15	0.04	0.09	0.03
Node	543	543	533	543
Case	31	32	31	32
609 / MIN	-0.32	0.0	-0.00	-0.00
Node	543	543	543	533
Case	1	2	31	32
610 / MAX	2.64	0.27	0.31	0.01
Node	541	541	543	541
Case	1	32	31	32
610 / MIN	-0.76	-0.00	-0.10	-0.00
Node	543	541	543	541
Case	31	31	1	31
611 / MAX	0.82	0.0	0.08	0.01
Node	543	543	543	543
Case	1	2	1	32
611 / MIN	-0.00	-0.44	-0.31	-0.09
Node	543	534	534	534
Case	32	32	1	32
613 / MAX	0.00	0.12	0.03	0.00
Node	544	545	544	544
Case	32	32	31	32
613 / MIN	-0.26	-0.00	-0.02	-0.00
Node	545	544	545	544
Case	1	1	31	31
616 / MAX	0.56	0.04	0.13	0.00
Node	529	509	529	529
Case	31	31	32	1
616 / MIN	-0.08	-0.04	-0.08	-0.00
Node	509	529	509	529
Case	32	31	1	31
617 / MAX	0.56	0.04	0.13	0.00
Node	509	485	509	509

Member	FX (kN)	FY (kN)	FZ (kN)	MX (kNm)
Case	31	31	32	31
617 / MIN	-0.05	-0.04	-0.09	-0.00
Node	485	509	485	509
Case	32	31	1	1
618 / MAX	0.0	0.04	0.49	0.00
Node	530	510	530	530
Case	2	31	32	31
618 / MIN	-0.98	-0.04	-0.09	-0.00
Node	530	530	510	530
Case	31	31	1	1
619 / MAX	0.30	0.04	0.49	0.00
Node	510	486	510	510
Case	32	31	32	1
619 / MIN	-0.97	-0.04	-0.08	-0.00
Node	510	510	486	510
Case	31	31	1	31
620 / MAX	0.96	0.04	0.49	0.00
Node	541	521	541	541
Case	31	31	32	1
620 / MIN	-0.84	-0.04	-0.09	0.0
Node	541	541	521	541
Case	1	31	1	2
621 / MAX	0.95	0.04	0.49	0.0
Node	521	497	521	521
Case	31	31	32	2
621 / MIN	-0.82	-0.04	-0.08	-0.00
Node	521	521	497	521
Case	1	31	1	1
622 / MAX	0.25	0.04	0.13	0.00
Node	540	520	540	540
Case	1	31	32	32
622 / MIN	-0.56	-0.04	-0.08	-0.00
Node	540	540	520	540
Case	31	31	1	1
623 / MAX	0.25	0.04	0.13	0.00
Node	520	496	520	520
Case	1	31	32	1
623 / MIN	-0.56	-0.04	-0.09	0.0
Node	520	520	496	520
Case	31	31	1	2
624 / MAX	1.91	0.05	0.27	0.00
Node	530	514	530	514
Case	32	31	1	32
624 / MIN	-0.02	-0.04	-0.28	-0.01
Node	530	530	514	530
Case	31	31	1	32

Member	FX (kN)	FY (kN)	FZ (kN)	MX (kNm)
625 / MAX	1.71	0.04	0.08	0.0
Node	534	514	534	534
Case	1	31	1	2
625 / MIN	-0.86	-0.04	-0.26	-0.00
Node	514	534	534	534
Case	32	31	32	31
626 / MAX	1.92	0.04	0.10	0.00
Node	514	490	514	514
Case	1	31	1	31
626 / MIN	0.0	-0.04	-0.26	-0.00
Node	514	514	514	514
Case	2	31	32	32
627 / MAX	0.63	0.04	0.26	0.00
Node	486	486	486	514
Case	1	31	1	32
627 / MIN	-1.89	-0.06	-0.28	-0.01
Node	486	514	514	486
Case	32	31	1	32
628 / MAX	0.58	0.04	0.26	0.01
Node	497	497	497	497
Case	1	31	1	32
628 / MIN	-1.88	-0.06	-0.28	-0.00
Node	497	514	514	514
Case	32	31	1	32
629 / MAX	2.64	1.62	0.18	0.10
Node	541	541	541	541
Case	1	32	31	32
629 / MIN	-0.10	-0.62	-1.84	-0.00
Node	514	541	541	514
Case	31	1	1	32
630 / MAX	0.49	0.07	0.11	0.0
Node	510	548	510	510
Case	32	32	1	2
630 / MIN	-0.19	-0.03	-0.05	-0.00
Node	510	510	548	510
Case	31	31	1	32
631 / MAX	2.22	0.07	0.38	0.00
Node	510	549	510	510
Case	1	32	32	1
631 / MIN	-0.44	-0.98	-1.48	-0.12
Node	549	510	510	510
Case	32	1	1	32
632 / MAX	0.49	0.03	0.11	0.00
Node	521	550	521	521
Case	32	31	1	32
632 / MIN	-0.01	-0.07	-0.05	-0.00

Member	FX (kN)	FY (kN)	FZ (kN)	MX (kNm)
Node	550	550	550	521
Case	1	32	1	31
633 / MAX	0.20	0.03	0.11	0.00
Node	521	521	521	521
Case	31	31	1	32
633 / MIN	-0.49	-0.07	-0.10	-0.00
Node	521	551	551	521
Case	32	32	32	1
634 / MAX	0.15	0.32	0.03	0.0
Node	552	552	552	552
Case	1	32	1	2
634 / MIN	-0.63	0.0	-0.61	-0.00
Node	553	552	552	552
Case	31	2	31	32
635 / MAX	0.46	0.07	0.07	0.00
Node	554	554	553	553
Case	1	32	1	32
635 / MIN	-0.00	-0.01	-0.26	0.0
Node	553	553	553	553
Case	32	32	31	2
636 / MAX	1.59	0.0	1.27	0.00
Node	555	555	555	555
Case	1	2	31	31
636 / MIN	-0.70	-1.66	-0.08	-0.00
Node	555	555	555	555
Case	31	32	1	32
637 / MAX	0.03	0.00	0.17	0.00
Node	557	556	556	556
Case	32	1	1	1
637 / MIN	-2.81	-0.03	-0.96	-0.03
Node	557	556	557	556
Case	1	32	31	32
638 / MAX	0.90	0.0	0.81	0.00
Node	554	554	554	554
Case	1	2	31	31
638 / MIN	-1.17	-0.66	-0.52	-0.12
Node	554	554	554	554
Case	31	32	1	32
639 / MAX	3.92	0.47	0.86	0.11
Node	556	558	558	558
Case	1	32	31	32
639 / MIN	-0.29	-0.00	-0.21	-0.01
Node	556	556	558	556
Case	31	1	1	32
641 / MAX	1.00	0.13	0.10	0.0
Node	559	560	559	559

Member	FX (kN)	FY (kN)	FZ (kN)	MX (kNm)
Case	31	32	31	2
641 / MIN	-0.15	-0.00	-0.00	-0.00
Node	560	559	559	559
Case	1	31	1	32
644 / MAX	0.65	0.00	0.60	0.00
Node	564	563	563	563
Case	31	31	31	32
644 / MIN	0.0	-0.32	-0.00	-0.00
Node	563	563	563	563
Case	2	32	32	31
645 / MAX	0.46	0.01	0.26	0.00
Node	565	564	564	564
Case	1	32	31	31
645 / MIN	-0.32	-0.07	-0.11	-0.00
Node	565	565	565	564
Case	31	32	1	32
646 / MAX	1.59	0.02	1.26	0.00
Node	566	566	566	566
Case	1	31	31	32
646 / MIN	-0.00	-1.66	-0.00	0.0
Node	566	566	566	566
Case	32	32	32	2
647 / MAX	0.16	0.03	0.96	0.03
Node	567	567	557	567
Case	31	32	31	32
647 / MIN	-2.81	-0.00	-0.04	-0.00
Node	557	567	567	567
Case	1	1	31	1
648 / MAX	1.10	0.66	0.44	0.12
Node	565	565	567	565
Case	31	32	31	32
648 / MIN	-0.01	-0.00	-0.74	-0.00
Node	567	567	565	567
Case	32	31	31	31
649 / MAX	3.93	0.00	0.11	0.01
Node	567	567	567	567
Case	1	1	1	32
649 / MIN	-0.39	-0.47	-0.85	-0.11
Node	558	558	558	558
Case	31	32	31	32
651 / MAX	0.0	0.13	0.10	0.00
Node	568	569	568	568
Case	2	32	31	32
651 / MIN	-1.00	0.0	-0.00	-0.00
Node	568	568	568	568
Case	31	2	32	31

Member	FX (kN)	FY (kN)	FZ (kN)	MX (kNm)
654 / MAX	0.67	0.33	0.04	0.00
Node	572	572	572	572
Case	1	32	1	1
654 / MIN	-0.99	-0.07	-0.63	-0.00
Node	573	572	572	572
Case	31	1	31	32
655 / MAX	1.46	0.06	0.04	0.00
Node	574	574	573	573
Case	31	32	1	32
655 / MIN	0.0	-0.03	-0.27	-0.00
Node	573	573	573	573
Case	2	1	31	1
656 / MAX	3.81	0.0	1.29	0.00
Node	575	575	575	575
Case	1	2	31	1
656 / MIN	-0.03	-1.78	-0.20	-0.00
Node	575	575	575	575
Case	32	32	1	32
657 / MAX	1.48	0.00	0.08	0.00
Node	577	577	576	577
Case	1	32	1	1
657 / MIN	-0.12	-0.03	-0.11	-0.03
Node	576	576	577	576
Case	31	32	31	32
658 / MAX	3.52	1.08	0.0	0.02
Node	576	574	574	574
Case	1	1	2	1
658 / MIN	0.0	-2.12	-1.36	-0.11
Node	574	574	574	574
Case	2	32	1	32
659 / MAX	0.96	0.45	0.08	0.10
Node	576	578	576	578
Case	1	32	1	32
659 / MIN	-0.27	0.0	-0.29	-0.02
Node	576	576	578	578
Case	31	2	1	1
661 / MAX	0.09	0.13	0.04	0.00
Node	579	580	579	579
Case	31	32	31	31
661 / MIN	-0.24	-0.00	-0.02	-0.00
Node	580	579	580	579
Case	1	1	31	32
664 / MAX	1.01	0.07	0.63	0.00
Node	584	583	583	583
Case	31	1	31	32
664 / MIN	-0.08	-0.33	-0.00	-0.00

Member	FX (kN)	FY (kN)	FZ (kN)	MX (kNm)
Node	583	583	583	583
Case	32	32	32	1
665 / MAX	1.12	0.03	0.27	0.00
Node	585	584	584	584
Case	1	1	31	1
665 / MIN	-1.52	-0.06	-0.13	-0.00
Node	585	585	585	584
Case	31	32	1	32
666 / MAX	3.81	0.03	1.28	0.00
Node	586	586	586	586
Case	1	31	31	32
666 / MIN	-1.11	-1.78	0.0	-0.00
Node	586	586	586	586
Case	31	32	2	1
667 / MAX	1.48	0.03	0.11	0.03
Node	577	587	577	587
Case	1	32	31	32
667 / MIN	0.0	-0.02	0.0	-0.00
Node	587	577	587	587
Case	2	31	2	31
668 / MAX	3.73	0.27	0.28	0.01
Node	585	585	587	585
Case	1	32	31	32
668 / MIN	-1.23	-0.01	-0.15	-0.01
Node	587	585	587	585
Case	31	1	1	1
669 / MAX	0.96	0.00	0.08	0.02
Node	587	578	587	578
Case	1	31	1	1
669 / MIN	0.0	-0.44	-0.29	-0.10
Node	587	578	578	578
Case	2	32	1	32
671 / MAX	0.00	0.13	0.04	0.00
Node	588	589	588	588
Case	32	32	31	31
671 / MIN	-0.24	-0.00	-0.02	-0.00
Node	589	588	589	588
Case	1	1	31	1
674 / MAX	0.57	0.05	0.20	0.00
Node	573	553	573	573
Case	31	31	1	1
674 / MIN	-0.14	-0.04	0.0	-0.00
Node	553	573	573	573
Case	32	31	2	31
675 / MAX	0.57	0.04	0.13	0.00
Node	553	529	553	553

Member	FX (kN)	FY (kN)	FZ (kN)	MX (kNm)
Case	31	31	32	32
675 / MIN	-0.11	-0.04	-0.11	-0.00
Node	529	553	529	553
Case	32	31	1	1
676 / MAX	0.0	0.05	0.49	0.0
Node	574	554	574	574
Case	2	31	32	2
676 / MIN	-0.73	-0.04	-0.08	-0.00
Node	574	574	554	574
Case	31	31	1	1
677 / MAX	0.31	0.04	0.49	0.00
Node	554	530	554	554
Case	32	31	32	1
677 / MIN	-0.71	-0.04	-0.08	-0.00
Node	554	554	530	554
Case	31	31	1	32
678 / MAX	0.74	0.05	0.49	0.00
Node	585	565	585	585
Case	31	31	32	1
678 / MIN	-0.36	-0.04	-0.08	-0.00
Node	565	585	565	585
Case	32	31	1	31
679 / MAX	0.73	0.04	0.49	0.00
Node	565	541	565	565
Case	31	31	32	31
679 / MIN	-0.38	-0.04	-0.08	-0.00
Node	565	565	541	565
Case	1	31	1	1
680 / MAX	0.24	0.05	0.20	0.0
Node	584	564	584	584
Case	1	31	1	2
680 / MIN	-0.57	-0.04	-0.02	-0.00
Node	584	584	584	584
Case	31	31	31	1
681 / MAX	0.26	0.04	0.13	0.00
Node	564	540	564	564
Case	1	31	32	1
681 / MIN	-0.57	-0.04	-0.11	-0.00
Node	564	564	540	564
Case	31	31	1	31
682 / MAX	1.98	0.05	0.25	0.00
Node	574	558	574	558
Case	32	31	1	32
682 / MIN	-2.19	-0.04	-0.29	-0.01
Node	558	574	558	574
Case	1	31	1	32

Member	FX (kN)	FY (kN)	FZ (kN)	MX (kNm)
683 / MAX	2.96	0.03	0.12	0.00
Node	578	558	578	578
Case	1	31	1	1
683 / MIN	-1.35	-0.05	-0.24	-0.00
Node	558	578	578	578
Case	32	31	32	31
684 / MAX	1.71	0.05	0.10	0.00
Node	558	534	558	558
Case	1	31	1	31
684 / MIN	0.0	-0.04	-0.26	-0.00
Node	558	558	558	558
Case	2	31	32	1
685 / MAX	2.64	0.01	1.10	0.00
Node	530	558	530	558
Case	1	32	32	32
685 / MIN	-1.44	-1.57	-1.28	-0.10
Node	558	530	530	530
Case	32	32	1	32
686 / MAX	0.64	0.04	0.26	0.01
Node	541	541	541	541
Case	31	31	1	32
686 / MIN	-1.95	-0.05	-0.28	-0.00
Node	541	558	558	558
Case	32	31	1	32
687 / MAX	1.99	0.05	0.25	0.01
Node	585	558	585	585
Case	32	31	1	32
687 / MIN	-2.19	-0.04	-0.29	-0.00
Node	558	585	558	558
Case	1	31	1	32
688 / MAX	0.49	0.07	0.11	0.0
Node	554	592	554	554
Case	32	32	1	2
688 / MIN	-0.19	-0.03	-0.05	-0.00
Node	554	554	592	554
Case	31	31	1	32
689 / MAX	0.12	0.07	0.11	0.00
Node	554	593	554	554
Case	1	32	1	31
689 / MIN	-0.49	-0.03	-0.10	-0.00
Node	554	593	593	554
Case	32	31	32	32
690 / MAX	0.49	0.03	0.11	0.00
Node	565	594	565	565
Case	32	31	1	32
690 / MIN	-0.00	-0.07	-0.05	-0.00

Member	FX (kN)	FY (kN)	FZ (kN)	MX (kNm)
Node	594	594	594	565
Case	1	32	1	31
691 / MAX	0.20	0.03	0.11	0.00
Node	565	565	565	565
Case	31	31	1	32
691 / MIN	-0.49	-0.07	-0.10	-0.00
Node	565	595	595	565
Case	32	32	32	1
692 / MAX	0.59	0.11	0.20	0.00
Node	596	596	596	596
Case	31	1	32	32
692 / MIN	-0.17	-0.03	-0.58	-0.00
Node	573	596	573	596
Case	32	31	1	1
693 / MAX	0.38	0.06	0.58	0.00
Node	597	574	597	597
Case	32	31	32	31
693 / MIN	-1.49	-0.03	-0.05	-0.00
Node	597	597	574	597
Case	1	31	1	32
694 / MAX	0.37	0.06	0.58	0.00
Node	598	585	598	598
Case	32	31	32	31
694 / MIN	-1.49	-0.04	-0.05	-0.00
Node	598	598	585	598
Case	1	32	1	1
695 / MAX	0.33	0.06	0.20	0.00
Node	599	584	599	599
Case	1	31	32	1
695 / MIN	-0.59	-0.11	-0.58	-0.00
Node	599	599	584	599
Case	31	1	1	31
696 / MAX	3.06	0.09	0.0	0.00
Node	600	578	600	600
Case	1	31	2	1
696 / MIN	-0.38	-0.00	-0.35	-0.00
Node	578	600	600	600
Case	32	32	32	31
697 / MAX	0.27	0.03	0.34	0.00
Node	574	574	574	600
Case	1	31	1	32
697 / MIN	-2.00	-0.07	-0.19	-0.01
Node	574	600	600	574
Case	32	1	31	32
698 / MAX	2.16	1.69	1.08	0.11
Node	585	585	585	585

Member	FX (kN)	FY (kN)	FZ (kN)	MX (kNm)
Case	1	32	32	32
698 / MIN	-1.42	-0.74	-1.60	-0.02
Node	600	585	585	585
Case	32	31	1	1
699 / MAX	1.10	0.10	0.47	0.02
Node	597	601	597	597
Case	1	32	31	1
699 / MIN	-0.60	-0.70	-0.97	-0.02
Node	597	597	597	597
Case	31	1	1	32
700 / MAX	0.57	0.03	0.14	0.00
Node	598	602	598	598
Case	32	31	1	32
700 / MIN	0.0	-0.10	-0.03	-0.00
Node	598	602	598	598
Case	2	32	31	31
701 / MAX	0.32	0.29	0.09	0.0
Node	603	603	603	603
Case	1	1	1	2
701 / MIN	-0.67	0.0	-0.61	-0.01
Node	596	603	603	603
Case	31	2	31	1
702 / MAX	0.36	0.16	0.02	0.02
Node	597	596	596	596
Case	31	1	1	1
702 / MIN	-0.09	0.0	-0.24	0.0
Node	596	596	596	596
Case	1	2	31	2
703 / MAX	1.76	0.06	1.47	0.0
Node	604	604	604	604
Case	1	1	31	2
703 / MIN	-0.86	-1.33	-0.03	-0.01
Node	604	604	604	604
Case	31	32	32	32
704 / MAX	0.21	0.30	0.09	0.09
Node	606	606	605	606
Case	31	31	1	1
704 / MIN	-0.35	-0.07	-0.75	-0.06
Node	605	605	606	606
Case	1	1	31	31
705 / MAX	0.54	0.02	0.08	0.0
Node	597	597	597	597
Case	1	1	1	2
705 / MIN	-0.84	-0.20	-0.30	-0.06
Node	597	597	605	597
Case	31	32	31	1

Member	FX (kN)	FY (kN)	FZ (kN)	MX (kNm)
706 / MAX	1.04	0.95	0.47	1.12
Node	600	600	600	600
Case	31	31	31	1
706 / MIN	0.0	-1.50	-0.19	-1.16
Node	605	600	600	605
Case	2	1	1	1
708 / MAX	0.77	0.15	0.09	0.00
Node	607	608	607	607
Case	31	32	31	32
708 / MIN	0.0	-0.18	-0.00	-0.03
Node	607	607	607	607
Case	2	31	32	1
711 / MAX	0.67	0.06	0.61	0.01
Node	599	611	611	611
Case	31	31	31	1
711 / MIN	0.0	-0.29	-0.00	-0.00
Node	611	611	611	611
Case	2	1	32	31
712 / MAX	0.0	0.02	0.24	0.00
Node	599	599	599	599
Case	2	31	31	31
712 / MIN	-0.35	-0.16	-0.16	-0.02
Node	598	599	598	599
Case	31	1	1	1
713 / MAX	1.76	0.22	1.47	0.04
Node	612	598	612	598
Case	1	1	31	31
713 / MIN	0.0	-1.33	0.0	-0.23
Node	612	612	612	598
Case	2	32	2	1
714 / MAX	0.0	0.30	0.67	0.03
Node	613	606	606	613
Case	2	31	31	32
714 / MIN	-0.37	-0.03	-0.56	-0.09
Node	606	606	606	606
Case	31	1	1	1
715 / MAX	0.56	0.20	0.30	0.06
Node	598	598	613	598
Case	31	32	31	1
715 / MIN	-0.01	-0.02	-0.13	-0.02
Node	598	598	613	598
Case	32	1	1	31
716 / MAX	0.97	1.50	0.42	1.16
Node	613	600	613	613
Case	1	1	1	1
716 / MIN	-1.08	-0.79	-0.41	-1.12

Member	FX (kN)	FY (kN)	FZ (kN)	MX (kNm)
Node	600	600	600	600
Case	31	32	31	1
718 / MAX	0.44	0.18	0.09	0.03
Node	614	614	614	614
Case	1	31	31	1
718 / MIN	-0.69	-0.10	-0.01	-0.02
Node	614	614	614	614
Case	31	1	1	31
723 / MAX	0.31	0.28	0.09	0.01
Node	620	620	620	620
Case	1	32	1	1
723 / MIN	-0.70	-0.29	-0.60	-0.00
Node	401	620	620	620
Case	31	1	31	32
724 / MAX	0.44	0.13	0.01	0.00
Node	402	402	401	401
Case	31	32	1	32
724 / MIN	-0.08	-0.16	-0.24	-0.01
Node	401	401	401	401
Case	1	1	31	1
725 / MAX	1.93	0.0	1.45	0.01
Node	621	621	621	621
Case	1	2	31	1
725 / MIN	-1.33	-1.42	-0.04	-0.01
Node	621	621	621	621
Case	32	32	1	32
726 / MAX	0.26	0.08	0.10	0.06
Node	623	622	622	623
Case	32	1	1	31
726 / MIN	-0.29	-0.30	-0.47	-0.09
Node	622	623	623	623
Case	1	31	1	1
727 / MAX	0.92	0.24	0.75	0.15
Node	402	402	402	622
Case	1	31	32	32
727 / MIN	-1.08	-0.96	-0.48	-0.03
Node	622	402	402	402
Case	31	32	1	1
728 / MAX	0.75	1.54	0.42	1.16
Node	622	406	622	622
Case	1	1	1	1
728 / MIN	-0.63	-0.96	-0.25	-1.09
Node	622	406	406	406
Case	31	31	1	1
730 / MAX	0.37	0.18	0.05	0.02
Node	624	624	624	624

Member	FX (kN)	FY (kN)	FZ (kN)	MX (kNm)
Case	1	31	31	1
730 / MIN	-0.05	0.0	-0.01	0.0
Node	624	624	625	624
Case	32	2	31	2
733 / MAX	0.70	0.29	0.60	0.00
Node	412	628	628	628
Case	31	1	31	32
733 / MIN	-0.14	-0.28	0.0	-0.01
Node	628	628	628	628
Case	32	32	2	1
734 / MAX	0.0	0.16	0.24	0.01
Node	412	412	412	412
Case	2	1	31	1
734 / MIN	-0.43	-0.13	-0.16	-0.00
Node	413	413	413	412
Case	31	32	1	32
735 / MAX	1.93	0.05	1.45	0.24
Node	629	413	629	413
Case	1	31	31	1
735 / MIN	-1.43	-1.42	-0.75	-0.20
Node	413	629	413	413
Case	32	32	32	32
736 / MAX	0.26	0.08	0.22	0.09
Node	623	630	623	623
Case	32	32	31	1
736 / MIN	-0.36	-0.30	-0.47	-0.05
Node	623	623	623	623
Case	31	31	1	32
737 / MAX	1.07	0.21	0.19	0.02
Node	413	413	413	413
Case	31	32	31	31
737 / MIN	0.0	-0.16	-0.48	-0.16
Node	413	630	630	630
Case	2	1	31	32
738 / MAX	0.75	0.06	0.42	1.09
Node	630	630	630	406
Case	1	32	1	1
738 / MIN	-0.08	-1.54	-0.25	-1.16
Node	406	406	630	630
Case	31	1	31	1
740 / MAX	0.37	0.13	0.05	0.02
Node	631	632	631	631
Case	1	32	31	31
740 / MIN	-0.24	-0.18	-0.01	-0.02
Node	631	631	631	631
Case	31	31	1	1

Member	FX (kN)	FY (kN)	FZ (kN)	MX (kNm)
741 / MAX	0.41	1.10	0.02	0.02
Node	3563	3562	3562	3562
Case	1	1	1	1
741 / MIN	-0.03	-0.11	-0.02	0.0
Node	3562	3563	3562	3562
Case	32	32	31	2
742 / MAX	0.41	1.10	0.0	0.00
Node	3565	3564	3564	3564
Case	1	1	2	31
742 / MIN	-0.26	-0.23	-0.02	-0.02
Node	3564	3564	3564	3564
Case	31	31	31	1
743 / MAX	1.06	0.0	0.0	0.0
Node	3567	3566	3566	3566
Case	1	2	2	2
743 / MIN	0.0	-0.21	-0.06	-0.00
Node	3566	3566	3566	3566
Case	2	1	31	1
744 / MAX	1.06	0.05	0.00	0.00
Node	3569	3568	3568	3568
Case	1	31	1	1
744 / MIN	-0.47	-0.21	-0.06	-0.00
Node	3568	3568	3568	3568
Case	31	1	31	31
745 / MAX	0.20	0.03	0.0	0.00
Node	3570	3570	3570	3570
Case	31	1	2	1
745 / MIN	-0.00	-0.12	-0.03	-0.00
Node	3570	3571	3570	3570
Case	32	32	31	32
746 / MAX	0.11	0.03	0.00	0.00
Node	3573	3572	3572	3572
Case	1	1	1	32
746 / MIN	-0.20	-0.12	-0.03	-0.00
Node	3572	3573	3572	3572
Case	31	32	31	1
747 / MAX	0.31	0.0	0.00	0.0
Node	3575	3574	3574	3574
Case	1	2	32	2
747 / MIN	0.0	-0.12	-0.06	-0.00
Node	3574	3575	3574	3574
Case	2	32	31	32
748 / MAX	0.31	0.00	0.00	0.00
Node	3577	3576	3576	3576
Case	1	31	1	32
748 / MIN	-0.29	-0.12	-0.06	-0.00

Member	FX (kN)	FY (kN)	FZ (kN)	MX (kNm)
Node	3576	3577	3576	3576
Case	31	32	31	31
749 / MAX	0.30	0.00	0.0	0.00
Node	3579	3578	3578	3578
Case	1	1	2	1
749 / MIN	-0.00	-0.12	-0.05	-0.00
Node	3578	3579	3578	3578
Case	32	32	31	32
750 / MAX	0.30	0.00	0.01	0.00
Node	3581	3580	3580	3580
Case	1	1	1	32
750 / MIN	-0.28	-0.12	-0.05	-0.00
Node	3580	3581	3580	3580
Case	31	32	31	1
751 / MAX	0.29	0.00	0.00	0.0
Node	3583	3582	3582	3582
Case	1	31	32	2
751 / MIN	-0.00	-0.12	-0.06	-0.00
Node	3582	3583	3582	3582
Case	32	32	31	32
752 / MAX	0.29	0.00	0.00	0.00
Node	3585	3584	3584	3584
Case	1	1	1	32
752 / MIN	-0.29	-0.12	-0.06	-0.00
Node	3584	3585	3584	3584
Case	31	32	31	31
753 / MAX	0.32	0.01	0.00	0.00
Node	3587	3586	3586	3586
Case	1	1	32	1
753 / MIN	-0.00	-0.12	-0.05	-0.00
Node	3586	3587	3586	3586
Case	32	32	31	32
754 / MAX	0.32	0.01	0.01	0.00
Node	3589	3588	3588	3588
Case	1	1	1	32
754 / MIN	-0.29	-0.12	-0.05	-0.00
Node	3588	3589	3588	3588
Case	31	32	31	1
755 / MAX	0.20	0.0	0.0	0.0
Node	3590	3590	3590	3590
Case	31	2	2	2
755 / MIN	0.0	-0.12	-0.05	-0.00
Node	3590	3591	3590	3590
Case	2	32	31	1
756 / MAX	0.12	0.01	0.00	0.00
Node	3593	3592	3592	3592

Member	FX (kN)	FY (kN)	FZ (kN)	MX (kNm)
Case	1	31	1	1
756 / MIN	-0.20	-0.12	-0.05	-0.00
Node	3592	3593	3592	3592
Case	31	32	31	31
757 / MAX	1.08	0.21	0.0	0.00
Node	3594	3594	3594	3594
Case	1	1	2	1
757 / MIN	-0.00	-0.13	-0.05	-0.00
Node	3594	3594	3595	3594
Case	32	32	31	32
758 / MAX	1.08	0.21	0.02	0.00
Node	3597	3596	3596	3596
Case	1	1	1	32
758 / MIN	-0.47	-0.13	-0.05	-0.00
Node	3596	3597	3596	3596
Case	31	32	31	1
759 / MAX	0.41	0.0	0.02	0.00
Node	3598	3598	3598	3598
Case	1	2	1	32
759 / MIN	0.0	-1.10	-0.02	-0.02
Node	3598	3598	3599	3598
Case	2	1	31	1
760 / MAX	0.41	0.23	0.00	0.02
Node	598	598	598	598
Case	1	31	32	1
760 / MIN	-0.26	-1.10	-0.02	-0.00
Node	598	598	3600	598
Case	31	1	31	31
761 / MAX	1.24	0.08	0.00	0.00
Node	3608	3608	3608	3608
Case	1	32	32	32
761 / MIN	-0.34	-0.03	-0.23	-0.00
Node	3608	3608	3608	3608
Case	32	1	31	1
762 / MAX	1.09	0.01	0.01	0.02
Node	3609	3609	3610	3610
Case	1	32	32	1
762 / MIN	-0.34	-0.18	-0.15	-0.00
Node	3609	3610	3609	3609
Case	32	1	31	32
763 / MAX	1.31	0.11	0.00	0.00
Node	3611	3611	3611	3611
Case	1	32	1	1
763 / MIN	-0.12	-0.03	-0.21	-0.00
Node	3611	3611	3611	3611
Case	32	1	31	31

Member	FX (kN)	FY (kN)	FZ (kN)	MX (kNm)
764 / MAX	1.16	0.04	0.05	0.00
Node	3612	3612	3613	3612
Case	1	32	31	1
764 / MIN	-0.18	-0.06	-0.14	-0.00
Node	3613	3613	3612	3612
Case	32	32	31	32
765 / MAX	1.24	0.08	0.00	0.00
Node	3614	3614	3614	3614
Case	1	32	1	31
765 / MIN	-0.48	-0.03	-0.23	0.0
Node	3615	3614	3614	3614
Case	31	1	31	1
766 / MAX	1.09	0.09	0.01	0.01
Node	3615	3616	3616	3616
Case	1	31	31	31
766 / MIN	-0.48	-0.18	-0.15	-0.02
Node	3615	3616	3615	3616
Case	31	1	31	1
767 / MAX	3.19	0.08	0.00	0.0
Node	3617	3617	3617	3617
Case	1	32	1	2
767 / MIN	-0.03	0.0	-0.08	-0.00
Node	3617	3617	3617	3617
Case	32	2	31	1
768 / MAX	3.04	0.00	0.06	0.0
Node	3618	3618	556	3618
Case	1	1	31	2
768 / MIN	-0.03	-0.06	-0.01	-0.00
Node	3618	556	3618	3618
Case	32	32	31	32
769 / MAX	3.20	0.08	0.00	0.00
Node	3619	3619	3619	3619
Case	1	32	32	32
769 / MIN	-0.91	-0.00	-0.08	0.0
Node	3620	3619	3619	3619
Case	31	31	31	2
770 / MAX	3.06	0.00	0.06	0.00
Node	3620	3620	567	3620
Case	1	1	31	31
770 / MIN	-0.91	-0.06	-0.01	-0.00
Node	567	567	3620	3620
Case	31	32	31	32
775 / MAX	0.0	0.01	0.0	0.01
Node	3625	3625	3625	3625
Case	2	1	2	32
775 / MIN	-0.46	-0.17	-0.50	-0.00

Member	FX (kN)	FY (kN)	FZ (kN)	MX (kNm)
Node	3625	3625	3625	3625
Case	1	32	31	1
776 / MAX	0.14	0.06	0.13	0.00
Node	3627	3627	3626	3626
Case	31	32	1	32
776 / MIN	-0.03	-0.04	-0.23	-0.00
Node	3626	3626	3626	3626
Case	1	32	31	1
778 / MAX	0.32	0.14	0.19	0.00
Node	3629	3629	3628	3628
Case	31	32	1	1
778 / MIN	-0.43	-0.01	-0.56	-0.01
Node	3628	3628	3628	3628
Case	1	1	31	32
779 / MAX	2.26	0.08	0.00	0.00
Node	3630	3630	3630	3630
Case	1	32	1	31
779 / MIN	0.0	-0.00	-0.22	0.0
Node	3630	3630	3630	3630
Case	2	1	31	1
780 / MAX	2.14	0.01	0.00	0.01
Node	3626	3626	3631	3626
Case	1	32	31	32
780 / MIN	0.0	-0.05	-0.06	0.0
Node	3626	3631	3626	3626
Case	2	32	31	2
781 / MAX	2.56	0.12	0.01	0.00
Node	3632	3632	3632	3632
Case	1	32	1	31
781 / MIN	0.0	-0.00	-0.20	-0.00
Node	3632	3632	3632	3632
Case	2	1	31	1
782 / MAX	2.33	0.00	0.08	0.01
Node	3627	3627	3633	3627
Case	1	31	31	32
782 / MIN	-0.07	-0.08	-0.03	-0.00
Node	3633	3633	3633	3627
Case	31	32	1	1
783 / MAX	2.17	0.07	0.00	0.00
Node	3634	3634	3634	3634
Case	1	32	1	32
783 / MIN	-0.59	-0.00	-0.21	0.0
Node	3628	3634	3634	3634
Case	31	1	31	1
784 / MAX	2.20	0.02	0.04	0.00
Node	3628	3628	3628	3628

Member	FX (kN)	FY (kN)	FZ (kN)	MX (kNm)
Case	1	32	1	31
784 / MIN	-0.33	-0.04	-0.04	-0.01
Node	3635	3635	3628	3628
Case	31	32	31	32
785 / MAX	0.48	0.01	0.02	0.00
Node	3	3	3	3
Case	31	32	1	32
785 / MIN	0.0	-0.01	-0.02	0.0
Node	3	606	606	3
Case	2	32	1	2
786 / MAX	0.15	0.01	0.02	0.00
Node	1	606	1	1
Case	1	32	1	31
786 / MIN	-0.46	-0.01	-0.02	-0.00
Node	1	1	606	1
Case	31	32	1	32
787 / MAX	0.42	0.01	0.02	0.00
Node	3628	3628	3628	3628
Case	31	32	1	32
787 / MIN	-0.58	-0.01	-0.02	-0.00
Node	445	445	445	3628
Case	1	32	1	1
788 / MAX	0.07	0.02	0.00	0.00
Node	445	445	445	445
Case	31	32	32	31
788 / MIN	-0.85	-0.01	-0.48	-0.00
Node	445	3626	445	3626
Case	1	32	31	32
789 / MAX	0.63	0.02	0.12	0.00
Node	3636	3637	3636	3636
Case	32	32	1	31
789 / MIN	-0.60	-0.09	-0.15	-0.01
Node	3636	3636	3636	3636
Case	1	32	31	1
790 / MAX	0.63	0.09	0.08	0.01
Node	3637	3638	3637	3637
Case	32	32	1	1
790 / MIN	-0.60	-0.04	-0.15	-0.00
Node	3637	3637	3637	3637
Case	1	31	31	32
791 / MAX	0.48	0.01	0.02	0.00
Node	3638	3638	3638	3638
Case	31	32	1	32
791 / MIN	0.0	-0.01	-0.02	-0.00
Node	3638	623	623	3638
Case	2	32	1	1

Member	FX (kN)	FY (kN)	FZ (kN)	MX (kNm)
792 / MAX	0.11	0.03	0.62	0.00
Node	3636	623	623	623
Case	1	32	31	31
792 / MIN	-0.46	-0.01	-0.00	-0.00
Node	3636	3636	623	3636
Case	31	32	1	32
793 / MAX	0.69	0.16	0.10	0.00
Node	402	402	402	402
Case	32	1	32	32
793 / MIN	-0.54	-0.18	-0.52	-0.01
Node	402	402	402	402
Case	1	32	31	1
794 / MAX	0.69	0.18	0.18	0.01
Node	3638	3639	3638	3638
Case	32	32	1	1
794 / MIN	-0.54	-0.16	-0.53	-0.00
Node	3638	3638	3638	3638
Case	1	1	31	31
795 / MAX	0.69	0.07	0.61	0.00
Node	3565	3565	3565	3565
Case	1	1	1	1
795 / MIN	-0.33	-0.07	-0.61	-0.00
Node	3600	3600	3600	3600
Case	32	1	1	1
796 / MAX	0.69	0.07	0.61	0.00
Node	3563	3599	3563	3599
Case	1	1	1	1
796 / MIN	-0.33	-0.07	-0.61	-0.00
Node	3599	3563	3599	3563
Case	32	1	1	1
797 / MAX	0.90	0.11	0.23	0.00
Node	3644	3640	3644	3644
Case	1	31	1	31
797 / MIN	-0.17	-0.11	-0.23	-0.00
Node	3644	3644	3640	3644
Case	31	31	1	32
798 / MAX	0.15	0.11	0.23	0.00
Node	3645	3641	3645	3645
Case	1	31	1	31
798 / MIN	-0.11	-0.11	-0.23	-0.00
Node	3641	3645	3641	3645
Case	32	31	1	32
799 / MAX	0.11	0.11	0.23	0.00
Node	3646	3642	3646	3646
Case	32	31	1	1
799 / MIN	-0.11	-0.11	-0.23	-0.00

Member	FX (kN)	FY (kN)	FZ (kN)	MX (kNm)
Node	3642	3646	3642	3646
Case	32	31	1	32
800 / MAX	0.22	0.11	0.23	0.00
Node	3647	3643	3647	3647
Case	31	31	1	32
800 / MIN	-0.36	-0.11	-0.23	-0.00
Node	3647	3647	3643	3647
Case	1	31	1	31
801 / MAX	0.11	0.11	0.23	0.00
Node	3655	3651	3655	3655
Case	32	31	1	1
801 / MIN	-0.36	-0.11	-0.23	-0.00
Node	3655	3655	3651	3655
Case	1	31	1	32
802 / MAX	0.11	0.11	0.23	0.00
Node	3654	3650	3654	3654
Case	32	31	1	32
802 / MIN	-0.11	-0.11	-0.23	-0.00
Node	3650	3654	3650	3654
Case	32	31	1	1
803 / MAX	0.15	0.11	0.23	0.00
Node	3653	3649	3653	3653
Case	1	31	1	32
803 / MIN	-0.11	-0.11	-0.23	-0.00
Node	3649	3653	3649	3653
Case	32	31	1	1
804 / MAX	0.90	0.11	0.23	0.00
Node	3652	3648	3652	3652
Case	1	31	1	32
804 / MIN	-0.11	-0.11	-0.23	-0.00
Node	3648	3652	3648	3652
Case	32	31	1	1
805 / MAX	0.26	0.11	0.23	0.00
Node	3669	3666	3669	3669
Case	31	31	1	31
805 / MIN	-0.53	-0.11	-0.23	-0.00
Node	3669	3669	3666	3669
Case	1	31	1	32
806 / MAX	0.12	0.11	0.23	0.0
Node	3668	3665	3668	3668
Case	1	31	1	2
806 / MIN	-0.11	-0.11	-0.23	-0.00
Node	3665	3668	3665	3668
Case	32	31	1	32
807 / MAX	1.08	0.11	0.23	0.00
Node	3667	3664	3667	3667

Member	FX (kN)	FY (kN)	FZ (kN)	MX (kNm)
Case	1	31	1	32
807 / MIN	-0.12	-0.11	-0.23	-0.00
Node	3664	3667	3664	3667
Case	32	31	1	31
808 / MAX	0.0	0.26	0.0	0.00
Node	605	605	605	605
Case	2	1	2	1
808 / MIN	-1.47	-0.01	-0.87	-0.00
Node	605	605	576	605
Case	1	32	1	31
809 / MAX	0.0	0.04	0.27	0.00
Node	576	556	576	576
Case	2	31	1	31
809 / MIN	-1.39	-0.05	-0.02	0.0
Node	576	576	576	576
Case	1	1	32	2
810 / MAX	0.0	0.04	0.06	0.0
Node	556	532	556	556
Case	2	31	1	2
810 / MIN	-1.38	-0.05	-0.11	-0.00
Node	556	556	532	556
Case	1	31	1	31
811 / MAX	0.0	0.04	0.09	0.00
Node	532	512	532	532
Case	2	31	1	1
811 / MIN	-1.37	-0.04	-0.09	0.0
Node	532	532	512	532
Case	1	31	1	2
812 / MAX	0.06	0.05	0.09	0.00
Node	512	488	512	512
Case	32	31	1	32
812 / MIN	-1.37	-0.04	-0.08	-0.00
Node	512	512	488	512
Case	1	31	1	31
813 / MAX	0.17	0.04	0.08	0.00
Node	488	468	488	488
Case	32	31	1	31
813 / MIN	-1.38	-0.05	-0.10	-0.00
Node	488	488	468	488
Case	1	31	1	1
820 / MAX	0.30	0.10	0.22	0.00
Node	613	587	613	613
Case	31	31	31	32
820 / MIN	-1.46	-0.26	-0.87	-0.00
Node	613	613	587	613
Case	1	1	1	31

Member	FX (kN)	FY (kN)	FZ (kN)	MX (kNm)
821 / MAX	0.33	0.05	0.27	0.00
Node	587	587	587	587
Case	31	1	1	31
821 / MIN	-1.39	-0.04	-0.04	-0.00
Node	587	587	587	587
Case	1	31	31	1
822 / MAX	0.32	0.04	0.06	0.00
Node	567	543	567	567
Case	31	31	1	1
822 / MIN	-1.38	-0.05	-0.11	-0.00
Node	567	567	543	567
Case	1	31	1	31
823 / MAX	0.31	0.04	0.09	0.0
Node	3676	3676	543	543
Case	31	31	1	2
823 / MIN	-1.37	-0.04	-0.09	-0.00
Node	543	543	3676	543
Case	1	31	1	1
824 / MAX	0.31	0.05	0.09	0.00
Node	3676	499	3676	3676
Case	31	31	1	1
824 / MIN	-1.38	-0.04	-0.08	-0.00
Node	499	3676	499	3676
Case	1	31	1	32
825 / MAX	0.31	0.04	0.08	0.00
Node	499	479	499	499
Case	31	31	1	31
825 / MIN	-1.38	-0.05	-0.10	-0.00
Node	499	499	479	499
Case	1	31	1	32
826 / MAX	0.31	0.05	0.12	0.00
Node	479	455	479	479
Case	31	31	1	31
826 / MIN	-1.40	-0.04	-0.05	0.0
Node	479	479	455	479
Case	1	31	1	2
827 / MAX	0.32	0.04	0.03	0.00
Node	455	435	455	455
Case	32	31	31	32
827 / MIN	-1.43	-0.05	-0.28	-0.00
Node	455	455	435	455
Case	1	1	1	31
828 / MAX	0.46	0.26	0.87	0.00
Node	435	435	435	435
Case	32	1	1	31
828 / MIN	-1.50	-0.09	-0.22	-0.00

Member	FX (kN)	FY (kN)	FZ (kN)	MX (kNm)
Node	435	435	435	435
Case	1	31	31	32
829 / MAX	0.30	0.05	0.12	0.00
Node	468	444	468	468
Case	32	31	1	31
829 / MIN	-1.40	-0.04	-0.05	-0.00
Node	468	468	444	468
Case	1	31	1	1
830 / MAX	0.32	0.05	0.0	0.00
Node	444	444	444	444
Case	32	1	2	1
830 / MIN	-1.43	-0.05	-0.28	-0.00
Node	444	444	424	444
Case	1	31	1	31
831 / MAX	0.46	0.0	0.87	0.00
Node	424	424	424	424
Case	32	2	1	31
831 / MIN	-1.51	-0.26	-0.02	-0.00
Node	424	424	424	424
Case	1	1	32	1
832 / MAX	0.11	0.11	0.23	0.00
Node	3675	3672	3675	3675
Case	32	31	1	32
832 / MIN	-0.53	-0.11	-0.23	-0.00
Node	3675	3675	3672	3675
Case	1	31	1	1
833 / MAX	0.12	0.11	0.23	0.00
Node	3674	3671	3674	3674
Case	1	31	1	32
833 / MIN	-0.11	-0.11	-0.23	-0.00
Node	3671	3674	3671	3674
Case	32	31	1	31
834 / MAX	1.08	0.11	0.23	0.00
Node	3673	3670	3673	3673
Case	1	31	1	1
834 / MIN	-0.12	-0.11	-0.23	-0.00
Node	3670	3673	3670	3673
Case	32	31	1	31
835 / MAX	0.12	0.11	0.23	0.00
Node	3695	3687	3695	3695
Case	32	31	1	1
835 / MIN	-0.23	-0.11	-0.23	-0.00
Node	3695	3695	3687	3695
Case	1	31	1	31
836 / MAX	0.12	0.11	0.23	0.00
Node	3696	3688	3696	3696

Member	FX (kN)	FY (kN)	FZ (kN)	MX (kNm)
Case	32	31	1	32
836 / MIN	-0.11	-0.11	-0.23	-0.00
Node	3688	3696	3688	3696
Case	32	31	1	31
837 / MAX	0.15	0.11	0.23	0.00
Node	3697	3689	3697	3697
Case	32	31	1	32
837 / MIN	-0.15	-0.11	-0.23	-0.00
Node	3697	3697	3689	3697
Case	31	31	1	1
838 / MAX	0.20	0.11	0.23	0.00
Node	3698	3690	3698	3698
Case	32	31	1	31
838 / MIN	-0.37	-0.11	-0.23	-0.00
Node	3698	3698	3690	3698
Case	31	31	1	1
839 / MAX	0.37	0.11	0.23	0.00
Node	3694	3686	3694	3694
Case	31	31	1	31
839 / MIN	-0.15	-0.11	-0.23	-0.00
Node	3694	3694	3686	3694
Case	1	31	1	32
840 / MAX	0.15	0.11	0.23	0.00
Node	3693	3685	3693	3693
Case	31	31	1	31
840 / MIN	-0.12	-0.11	-0.23	-0.00
Node	3693	3693	3685	3693
Case	1	31	1	32
841 / MAX	0.12	0.11	0.23	0.0
Node	3692	3684	3692	3692
Case	32	31	1	2
841 / MIN	-0.11	-0.11	-0.23	-0.00
Node	3684	3692	3684	3692
Case	32	31	1	31
842 / MAX	0.22	0.11	0.23	0.00
Node	3691	3683	3691	3691
Case	31	31	1	32
842 / MIN	-0.23	-0.11	-0.23	-0.00
Node	3691	3691	3683	3691
Case	1	31	1	31

Member	MY (kNm)	MZ (kNm)
1 / MAX	0.02	0.25
Node	622	3563
Case	31	1

Member	MY (kNm)	MZ (kNm)
1 / MIN	-0.26	-0.64
Node	3563	622
Case	1	1
2 / MAX	0.18	0.22
Node	401	401
Case	31	32
2 / MIN	-0.27	-0.41
Node	3563	3563
Case	1	1
3 / MAX	0.11	0.00
Node	512	3583
Case	31	1
3 / MIN	-0.11	-0.04
Node	3583	3583
Case	31	32
4 / MAX	0.20	0.13
Node	509	509
Case	31	32
4 / MIN	-0.10	-0.06
Node	3583	3583
Case	31	32
5 / MAX	0.13	0.07
Node	424	424
Case	31	1
5 / MIN	-0.12	-0.04
Node	3567	3567
Case	31	32
6 / MAX	0.21	0.14
Node	421	421
Case	31	32
6 / MIN	-0.11	-0.06
Node	3567	3567
Case	31	32
7 / MAX	0.02	0.63
Node	605	605
Case	31	1
7 / MIN	-0.26	-0.25
Node	3599	3599
Case	1	1
8 / MAX	0.18	0.41
Node	596	3599
Case	31	1
8 / MIN	-0.27	-0.10
Node	3599	596
Case	1	1
9 / MAX	0.05	0.01

Member	MY (kNm)	MZ (kNm)
Node	444	444
Case	31	32
9 / MIN	-0.08	-0.04
Node	3571	3571
Case	31	32
10 / MAX	0.21	0.14
Node	441	441
Case	31	32
10 / MIN	-0.08	-0.06
Node	3571	3571
Case	31	32
11 / MAX	0.11	0.00
Node	532	3587
Case	31	1
11 / MIN	-0.11	-0.04
Node	3587	3587
Case	31	32
12 / MAX	0.20	0.13
Node	529	529
Case	31	32
12 / MIN	-0.09	-0.06
Node	3587	3587
Case	31	32
13 / MAX	0.11	0.01
Node	468	468
Case	31	1
13 / MIN	-0.11	-0.04
Node	3575	3575
Case	31	32
14 / MAX	0.20	0.13
Node	465	465
Case	31	32
14 / MIN	-0.10	-0.06
Node	3575	3575
Case	31	32
15 / MAX	0.12	0.02
Node	576	3595
Case	31	1
15 / MIN	-0.12	-0.06
Node	3595	576
Case	31	1
16 / MAX	0.21	0.14
Node	573	573
Case	31	32
16 / MIN	-0.10	-0.06
Node	3595	3595

Member	MY (kNm)	MZ (kNm)
Case	31	32
17 / MAX	0.11	0.00
Node	488	488
Case	31	1
17 / MIN	-0.11	-0.04
Node	3579	3579
Case	31	32
18 / MAX	0.20	0.13
Node	485	485
Case	31	32
18 / MIN	-0.10	-0.06
Node	3579	3579
Case	31	32
19 / MAX	0.05	0.01
Node	556	3591
Case	31	1
19 / MIN	-0.08	-0.04
Node	3591	3591
Case	31	32
20 / MAX	0.20	0.13
Node	553	553
Case	31	32
20 / MIN	-0.07	-0.06
Node	3591	3591
Case	31	32
21 / MAX	0.13	0.64
Node	3565	630
Case	31	1
21 / MIN	-0.26	-0.25
Node	3565	3565
Case	1	1
22 / MAX	0.13	0.41
Node	3565	3565
Case	31	1
22 / MIN	-0.27	-0.22
Node	3565	412
Case	1	32
23 / MAX	0.12	0.04
Node	3569	3569
Case	31	32
23 / MIN	-0.13	-0.07
Node	435	435
Case	31	1
24 / MAX	0.11	0.06
Node	3569	3569
Case	31	32

Member	MY (kNm)	MZ (kNm)
24 / MIN	-0.21	-0.14
Node	432	432
Case	31	32
25 / MAX	0.08	0.04
Node	3573	3573
Case	31	32
25 / MIN	-0.05	-0.01
Node	455	455
Case	31	32
26 / MAX	0.08	0.06
Node	3573	3573
Case	31	32
26 / MIN	-0.21	-0.14
Node	452	452
Case	31	32
27 / MAX	0.11	0.04
Node	3577	3577
Case	31	32
27 / MIN	-0.11	-0.01
Node	479	479
Case	31	1
28 / MAX	0.10	0.06
Node	3577	3577
Case	31	32
28 / MIN	-0.20	-0.13
Node	476	476
Case	31	32
29 / MAX	0.11	0.04
Node	3581	3581
Case	31	32
29 / MIN	-0.11	-0.00
Node	499	499
Case	31	1
30 / MAX	0.10	0.06
Node	3581	3581
Case	31	32
30 / MIN	-0.20	-0.13
Node	496	496
Case	31	32
31 / MAX	0.11	0.04
Node	3585	3585
Case	31	32
31 / MIN	-0.11	-0.00
Node	523	523
Case	31	31
32 / MAX	0.10	0.06

Member	MY (kNm)	MZ (kNm)
Node	3585	3585
Case	31	32
32 / MIN	-0.20	-0.13
Node	520	520
Case	31	32
33 / MAX	0.11	0.04
Node	3589	3589
Case	31	32
33 / MIN	-0.11	-0.00
Node	543	3589
Case	31	1
34 / MAX	0.10	0.06
Node	3589	3589
Case	31	32
34 / MIN	-0.20	-0.13
Node	540	540
Case	31	32
35 / MAX	0.09	0.04
Node	3593	3593
Case	31	32
35 / MIN	-0.05	-0.01
Node	567	3593
Case	31	1
36 / MAX	0.07	0.06
Node	3593	3593
Case	31	32
36 / MIN	-0.20	-0.13
Node	564	564
Case	31	32
37 / MAX	0.12	0.06
Node	3597	587
Case	31	1
37 / MIN	-0.12	-0.02
Node	587	3597
Case	31	1
38 / MAX	0.11	0.06
Node	3597	3597
Case	31	32
38 / MIN	-0.21	-0.14
Node	584	584
Case	31	32
39 / MAX	0.13	0.25
Node	3600	3600
Case	31	1
39 / MIN	-0.26	-0.63
Node	3600	613

Member	MY (kNm)	MZ (kNm)
Case	1	1
40 / MAX	0.13	0.10
Node	3600	599
Case	31	1
40 / MIN	-0.27	-0.41
Node	3600	3600
Case	1	1
41 / MAX	0.72	0.09
Node	597	1
Case	31	1
41 / MIN	-0.36	-0.25
Node	1	597
Case	31	1
42 / MAX	0.11	0.12
Node	1	2
Case	31	1
42 / MIN	-0.20	0.0
Node	2	1
Case	31	2
43 / MAX	0.20	0.12
Node	2	2
Case	31	1
43 / MIN	-0.11	-0.07
Node	3	3
Case	31	31
44 / MAX	0.35	0.09
Node	3	3
Case	31	1
44 / MIN	-0.73	-0.24
Node	619	619
Case	31	1
45 / MAX	0.00	0.00
Node	1	1
Case	1	31
45 / MIN	-0.44	-0.11
Node	1	1
Case	31	32
46 / MAX	0.03	0.01
Node	1	1
Case	31	31
46 / MIN	-0.01	-0.43
Node	605	605
Case	31	1
47 / MAX	0.00	0.00
Node	2	3607
Case	1	32

Member	MY (kNm)	MZ (kNm)
47 / MIN	-0.41	-0.17
Node	2	2
Case	31	32
48 / MAX	0.01	0.00
Node	606	606
Case	31	31
48 / MIN	-0.01	-0.17
Node	2	2
Case	31	32
49 / MAX	0.00	0.00
Node	3	3606
Case	32	32
49 / MIN	-0.44	-0.11
Node	3	3
Case	31	32
50 / MAX	0.02	0.17
Node	3	613
Case	31	31
50 / MIN	-0.01	-0.42
Node	613	613
Case	31	1
460 / MAX	0.77	0.36
Node	420	420
Case	31	32
460 / MIN	-0.59	-0.31
Node	421	421
Case	31	32
461 / MAX	0.38	0.05
Node	421	421
Case	31	1
461 / MIN	-0.38	-0.05
Node	422	422
Case	31	32
462 / MAX	1.17	1.46
Node	422	422
Case	31	32
462 / MIN	-1.53	-2.22
Node	423	423
Case	31	32
463 / MAX	0.06	0.07
Node	424	424
Case	31	1
463 / MIN	-0.07	-0.05
Node	425	425
Case	1	32
464 / MAX	0.74	0.29

Member	MY (kNm)	MZ (kNm)
Node	422	424
Case	31	32
464 / MIN	-0.21	-0.00
Node	422	422
Case	1	31
465 / MAX	0.22	0.34
Node	426	424
Case	31	32
465 / MIN	-0.09	-0.51
Node	426	426
Case	1	32
467 / MAX	0.05	0.03
Node	428	427
Case	31	32
467 / MIN	-0.05	-0.17
Node	427	428
Case	31	32
470 / MAX	0.59	0.31
Node	432	432
Case	31	32
470 / MIN	-0.77	-0.36
Node	431	431
Case	31	32
471 / MAX	0.38	0.05
Node	433	433
Case	31	32
471 / MIN	-0.38	-0.05
Node	432	432
Case	31	1
472 / MAX	1.16	1.46
Node	433	433
Case	31	32
472 / MIN	-1.52	-2.22
Node	434	434
Case	31	32
473 / MAX	0.03	0.05
Node	435	425
Case	1	32
473 / MIN	-0.07	-0.07
Node	425	435
Case	1	1
474 / MAX	0.11	0.02
Node	435	435
Case	31	31
474 / MIN	-0.74	-0.29
Node	433	435

Member	MY (kNm)	MZ (kNm)
Case	31	32
475 / MAX	0.05	0.50
Node	435	426
Case	31	32
475 / MIN	-0.21	-0.34
Node	426	435
Case	31	32
477 / MAX	0.05	0.03
Node	437	436
Case	31	32
477 / MIN	-0.05	-0.17
Node	436	437
Case	31	32
480 / MAX	0.73	0.35
Node	440	440
Case	31	32
480 / MIN	-0.54	-0.30
Node	441	441
Case	31	32
481 / MAX	0.33	0.03
Node	441	441
Case	31	32
481 / MIN	-0.27	-0.08
Node	442	442
Case	31	32
482 / MAX	0.69	1.62
Node	442	442
Case	31	32
482 / MIN	-1.62	-2.30
Node	443	443
Case	31	32
483 / MAX	0.02	0.0
Node	445	444
Case	31	2
483 / MIN	-0.09	-0.02
Node	445	444
Case	1	32
484 / MAX	0.46	0.18
Node	442	444
Case	31	32
484 / MIN	-0.21	-0.23
Node	444	442
Case	31	32
485 / MAX	0.00	0.33
Node	446	444
Case	31	32

Member	MY (kNm)	MZ (kNm)
485 / MIN	-0.08	-0.46
Node	444	446
Case	31	32
487 / MAX	0.00	0.08
Node	448	447
Case	1	32
487 / MIN	-0.01	-0.16
Node	448	448
Case	31	32
490 / MAX	0.54	0.30
Node	452	452
Case	31	32
490 / MIN	-0.73	-0.35
Node	451	451
Case	31	32
491 / MAX	0.27	0.08
Node	453	453
Case	31	32
491 / MIN	-0.33	-0.03
Node	452	452
Case	31	32
492 / MAX	0.66	1.62
Node	453	453
Case	31	32
492 / MIN	-1.62	-2.30
Node	454	454
Case	31	32
493 / MAX	0.06	0.02
Node	455	455
Case	31	32
493 / MIN	-0.06	-0.00
Node	445	455
Case	1	31
494 / MAX	0.19	0.24
Node	455	453
Case	31	32
494 / MIN	-0.44	-0.23
Node	453	455
Case	31	32
495 / MAX	0.08	0.46
Node	455	446
Case	31	32
495 / MIN	-0.05	-0.33
Node	455	455
Case	1	32
497 / MAX	0.01	0.08

Member	MY (kNm)	MZ (kNm)
Node	456	456
Case	1	32
497 / MIN	-0.01	-0.16
Node	457	457
Case	31	32
500 / MAX	0.15	0.04
Node	421	441
Case	32	32
500 / MIN	-0.27	-0.04
Node	421	421
Case	1	1
501 / MAX	0.99	0.22
Node	401	401
Case	1	1
501 / MIN	-0.35	-0.10
Node	421	401
Case	1	32
502 / MAX	0.66	0.06
Node	422	442
Case	32	32
502 / MIN	-0.64	-0.04
Node	442	422
Case	32	32
503 / MAX	0.82	0.06
Node	402	402
Case	32	1
503 / MIN	-0.75	-0.07
Node	422	402
Case	32	32
504 / MAX	0.66	0.04
Node	433	433
Case	32	32
504 / MIN	-0.64	-0.06
Node	453	453
Case	32	32
505 / MAX	0.82	0.07
Node	413	413
Case	32	32
505 / MIN	-0.75	-0.05
Node	433	413
Case	32	1
506 / MAX	0.15	0.04
Node	432	432
Case	32	1
506 / MIN	-0.27	-0.04
Node	432	452

Member	MY (kNm)	MZ (kNm)
Case	1	32
507 / MAX	0.99	0.10
Node	412	412
Case	1	32
507 / MIN	-0.35	-0.22
Node	432	412
Case	1	1
508 / MAX	0.0	0.11
Node	442	442
Case	2	32
508 / MIN	-0.40	-0.04
Node	442	426
Case	32	31
509 / MAX	0.39	0.00
Node	446	446
Case	32	32
509 / MIN	-0.31	-0.03
Node	426	426
Case	32	31
510 / MAX	0.56	0.10
Node	406	406
Case	1	31
510 / MIN	-0.64	-0.07
Node	406	426
Case	32	31
511 / MAX	0.55	0.17
Node	402	402
Case	32	32
511 / MIN	-0.35	-0.05
Node	402	402
Case	1	1
512 / MAX	0.39	0.11
Node	413	413
Case	32	1
512 / MIN	-0.37	-0.28
Node	413	413
Case	1	31
513 / MAX	0.11	0.01
Node	426	453
Case	31	1
513 / MIN	-0.40	-0.10
Node	453	453
Case	32	32
514 / MAX	0.07	0.03
Node	422	422
Case	31	32

Member	MY (kNm)	MZ (kNm)
514 / MIN	-0.22	-0.03
Node	422	460
Case	32	32
515 / MAX	0.21	0.04
Node	422	422
Case	32	32
515 / MIN	-0.08	-0.04
Node	422	461
Case	1	32
516 / MAX	0.03	0.03
Node	462	462
Case	32	32
516 / MIN	-0.22	-0.03
Node	433	433
Case	32	32
517 / MAX	0.21	0.04
Node	433	463
Case	32	32
517 / MIN	-0.08	-0.04
Node	433	433
Case	1	32
518 / MAX	0.74	0.35
Node	464	464
Case	31	32
518 / MIN	-0.57	-0.30
Node	465	465
Case	31	32
519 / MAX	0.36	0.02
Node	465	465
Case	31	32
519 / MIN	-0.36	-0.05
Node	466	466
Case	31	32
520 / MAX	1.14	1.42
Node	466	466
Case	31	32
520 / MIN	-1.48	-2.20
Node	467	467
Case	31	32
521 / MAX	0.03	0.00
Node	468	469
Case	1	1
521 / MIN	-0.04	-0.04
Node	469	469
Case	1	32
522 / MAX	0.64	0.29

Member	MY (kNm)	MZ (kNm)
Node	466	468
Case	31	32
522 / MIN	-0.17	-0.26
Node	468	466
Case	31	32
523 / MAX	0.28	0.33
Node	470	468
Case	31	32
523 / MIN	-0.09	-0.50
Node	468	470
Case	31	32
525 / MAX	0.06	0.03
Node	472	471
Case	31	32
525 / MIN	-0.05	-0.16
Node	471	472
Case	31	32
528 / MAX	0.57	0.30
Node	476	476
Case	31	32
528 / MIN	-0.74	-0.35
Node	475	475
Case	31	32
529 / MAX	0.36	0.05
Node	477	477
Case	31	32
529 / MIN	-0.36	-0.02
Node	476	476
Case	31	32
530 / MAX	1.14	1.42
Node	477	477
Case	31	32
530 / MIN	-1.48	-2.20
Node	478	478
Case	31	32
531 / MAX	0.03	0.04
Node	479	469
Case	1	32
531 / MIN	-0.04	-0.00
Node	469	469
Case	1	1
532 / MAX	0.16	0.01
Node	479	479
Case	31	1
532 / MIN	-0.74	-0.29
Node	477	479

Member	MY (kNm)	MZ (kNm)
Case	31	32
533 / MAX	0.09	0.50
Node	479	470
Case	31	32
533 / MIN	-0.28	-0.33
Node	470	479
Case	31	32
535 / MAX	0.06	0.03
Node	481	480
Case	31	32
535 / MIN	-0.05	-0.16
Node	480	481
Case	31	32
538 / MAX	0.74	0.35
Node	484	484
Case	31	32
538 / MIN	-0.56	-0.30
Node	485	485
Case	31	32
539 / MAX	0.36	0.02
Node	485	485
Case	31	32
539 / MIN	-0.34	-0.05
Node	486	486
Case	31	32
540 / MAX	1.17	1.59
Node	486	486
Case	31	32
540 / MIN	-1.49	-2.29
Node	487	487
Case	31	32
541 / MAX	0.04	0.00
Node	488	488
Case	1	31
541 / MIN	-0.04	-0.03
Node	489	489
Case	1	32
542 / MAX	0.60	0.29
Node	486	488
Case	31	32
542 / MIN	-0.15	-0.27
Node	488	486
Case	31	32
543 / MAX	0.01	0.33
Node	488	488
Case	1	32

Member	MY (kNm)	MZ (kNm)
543 / MIN	-0.09	-0.45
Node	490	490
Case	1	32
545 / MAX	0.01	0.03
Node	492	491
Case	1	32
545 / MIN	-0.01	-0.14
Node	491	492
Case	31	32
548 / MAX	0.56	0.30
Node	496	496
Case	31	32
548 / MIN	-0.73	-0.35
Node	495	495
Case	31	32
549 / MAX	0.34	0.05
Node	497	497
Case	31	32
549 / MIN	-0.36	-0.02
Node	496	496
Case	31	32
550 / MAX	1.16	1.59
Node	497	497
Case	31	32
550 / MIN	-1.49	-2.29
Node	498	498
Case	31	32
551 / MAX	0.04	0.03
Node	499	489
Case	1	32
551 / MIN	-0.04	-0.00
Node	489	489
Case	1	1
552 / MAX	0.14	0.28
Node	499	497
Case	31	32
552 / MIN	-0.60	-0.29
Node	497	499
Case	31	32
553 / MAX	0.04	0.44
Node	499	490
Case	31	32
553 / MIN	-0.09	-0.32
Node	490	499
Case	1	32
555 / MAX	0.00	0.03

Member	MY (kNm)	MZ (kNm)
Node	500	500
Case	1	32
555 / MIN	-0.01	-0.14
Node	500	501
Case	31	32
558 / MAX	0.18	0.05
Node	465	485
Case	32	32
558 / MIN	-0.18	-0.05
Node	485	465
Case	32	32
559 / MAX	0.18	0.05
Node	441	465
Case	32	32
559 / MIN	-0.18	-0.05
Node	465	441
Case	32	32
560 / MAX	0.68	0.02
Node	466	486
Case	32	32
560 / MIN	-0.65	-0.03
Node	486	466
Case	32	32
561 / MAX	0.65	0.04
Node	442	466
Case	32	32
561 / MIN	-0.68	-0.06
Node	466	442
Case	32	32
562 / MAX	0.68	0.03
Node	477	477
Case	32	32
562 / MIN	-0.65	-0.02
Node	497	497
Case	32	32
563 / MAX	0.65	0.06
Node	453	453
Case	32	32
563 / MIN	-0.68	-0.04
Node	477	477
Case	32	32
564 / MAX	0.18	0.05
Node	476	476
Case	32	32
564 / MIN	-0.18	-0.05
Node	496	496

Member	MY (kNm)	MZ (kNm)
Case	32	32
565 / MAX	0.18	0.05
Node	452	452
Case	32	32
565 / MIN	-0.18	-0.05
Node	476	476
Case	32	32
566 / MAX	0.65	0.43
Node	486	486
Case	31	31
566 / MIN	-0.35	-0.23
Node	486	486
Case	1	1
567 / MAX	0.37	0.00
Node	490	470
Case	32	32
567 / MIN	-0.32	-0.02
Node	470	490
Case	32	31
568 / MAX	0.33	0.00
Node	470	470
Case	32	32
568 / MIN	-0.39	-0.02
Node	446	470
Case	32	31
569 / MAX	0.33	0.33
Node	442	442
Case	31	32
569 / MIN	-0.32	-0.23
Node	442	442
Case	1	31
570 / MAX	0.22	0.03
Node	453	470
Case	32	31
570 / MIN	-0.31	-0.33
Node	453	453
Case	1	32
571 / MAX	0.19	0.43
Node	470	497
Case	31	31
571 / MIN	-0.65	-0.28
Node	497	497
Case	31	32
572 / MAX	0.62	0.40
Node	466	466
Case	31	31

Member	MY (kNm)	MZ (kNm)
572 / MIN	-0.21	-0.14
Node	466	466
Case	1	1
573 / MAX	0.22	0.04
Node	466	466
Case	32	32
573 / MIN	-0.09	-0.04
Node	466	505
Case	1	32
574 / MAX	0.03	0.04
Node	506	506
Case	32	32
574 / MIN	-0.21	-0.04
Node	477	477
Case	32	32
575 / MAX	0.22	0.04
Node	477	507
Case	32	32
575 / MIN	-0.09	-0.04
Node	477	477
Case	1	32
576 / MAX	0.74	0.35
Node	508	508
Case	31	32
576 / MIN	-0.57	-0.30
Node	509	509
Case	31	32
577 / MAX	0.36	0.02
Node	509	509
Case	31	32
577 / MIN	-0.36	-0.06
Node	510	510
Case	31	32
578 / MAX	1.13	1.42
Node	510	510
Case	31	32
578 / MIN	-1.47	-2.21
Node	511	511
Case	31	32
579 / MAX	0.05	0.00
Node	512	513
Case	1	1
579 / MIN	-0.04	-0.04
Node	513	513
Case	1	32
580 / MAX	0.64	0.28

Member	MY (kNm)	MZ (kNm)
Node	510	512
Case	31	32
580 / MIN	-0.16	-0.25
Node	512	510
Case	31	32
581 / MAX	0.31	0.33
Node	514	512
Case	31	32
581 / MIN	-0.09	-0.49
Node	512	514
Case	31	32
583 / MAX	0.07	0.03
Node	516	515
Case	31	32
583 / MIN	-0.06	-0.16
Node	515	516
Case	31	32
586 / MAX	0.57	0.30
Node	520	520
Case	31	32
586 / MIN	-0.74	-0.35
Node	519	519
Case	31	32
587 / MAX	0.36	0.06
Node	521	521
Case	31	32
587 / MIN	-0.36	-0.02
Node	520	520
Case	31	32
588 / MAX	1.13	1.42
Node	521	521
Case	31	32
588 / MIN	-1.47	-2.20
Node	522	522
Case	31	32
589 / MAX	0.04	0.04
Node	523	513
Case	1	32
589 / MIN	-0.04	-0.00
Node	513	513
Case	1	1
590 / MAX	0.16	0.00
Node	523	523
Case	31	1
590 / MIN	-0.72	-0.32
Node	521	523

Member	MY (kNm)	MZ (kNm)
Case	31	32
591 / MAX	0.09	0.48
Node	523	514
Case	31	32
591 / MIN	-0.31	-0.31
Node	514	523
Case	31	32
593 / MAX	0.07	0.03
Node	525	524
Case	31	32
593 / MIN	-0.06	-0.16
Node	524	525
Case	31	32
596 / MAX	0.74	0.35
Node	528	528
Case	31	32
596 / MIN	-0.56	-0.30
Node	529	529
Case	31	32
597 / MAX	0.36	0.02
Node	529	529
Case	31	32
597 / MIN	-0.34	-0.05
Node	530	530
Case	31	32
598 / MAX	1.18	1.59
Node	530	530
Case	31	32
598 / MIN	-1.51	-2.29
Node	531	531
Case	31	32
599 / MAX	0.03	0.01
Node	532	532
Case	1	31
599 / MIN	-0.04	-0.03
Node	533	533
Case	1	32
600 / MAX	0.61	0.29
Node	530	532
Case	31	32
600 / MIN	-0.15	-0.28
Node	532	530
Case	31	32
601 / MAX	0.01	0.33
Node	532	532
Case	1	32

Member	MY (kNm)	MZ (kNm)
601 / MIN	-0.08	-0.45
Node	534	534
Case	1	32
603 / MAX	0.00	0.03
Node	536	535
Case	1	32
603 / MIN	-0.01	-0.14
Node	535	536
Case	31	32
606 / MAX	0.56	0.30
Node	540	540
Case	31	32
606 / MIN	-0.74	-0.35
Node	539	539
Case	31	32
607 / MAX	0.34	0.05
Node	541	541
Case	31	32
607 / MIN	-0.36	-0.02
Node	540	540
Case	31	32
608 / MAX	1.18	1.59
Node	541	541
Case	31	32
608 / MIN	-1.50	-2.29
Node	542	542
Case	31	32
609 / MAX	0.03	0.03
Node	543	533
Case	1	32
609 / MIN	-0.04	-0.00
Node	533	533
Case	1	31
610 / MAX	0.15	0.28
Node	543	541
Case	31	32
610 / MIN	-0.60	-0.29
Node	541	543
Case	31	32
611 / MAX	0.04	0.44
Node	543	534
Case	31	32
611 / MIN	-0.08	-0.32
Node	534	543
Case	1	32
613 / MAX	0.00	0.03

Member	MY (kNm)	MZ (kNm)
Node	544	544
Case	1	32
613 / MIN	-0.01	-0.14
Node	544	545
Case	31	32
616 / MAX	0.18	0.05
Node	509	529
Case	32	32
616 / MIN	-0.18	-0.05
Node	529	509
Case	32	32
617 / MAX	0.18	0.05
Node	485	509
Case	32	32
617 / MIN	-0.18	-0.05
Node	509	485
Case	32	32
618 / MAX	0.68	0.02
Node	510	530
Case	32	32
618 / MIN	-0.65	-0.03
Node	530	510
Case	32	32
619 / MAX	0.65	0.03
Node	486	510
Case	32	32
619 / MIN	-0.68	-0.02
Node	510	486
Case	32	32
620 / MAX	0.68	0.03
Node	521	521
Case	32	32
620 / MIN	-0.65	-0.03
Node	541	541
Case	32	32
621 / MAX	0.65	0.03
Node	497	497
Case	32	32
621 / MIN	-0.68	-0.03
Node	521	521
Case	32	32
622 / MAX	0.18	0.05
Node	520	520
Case	32	32
622 / MIN	-0.18	-0.05
Node	540	540

Member	MY (kNm)	MZ (kNm)
Case	32	32
623 / MAX	0.18	0.05
Node	496	496
Case	32	32
623 / MIN	-0.18	-0.05
Node	520	520
Case	32	32
624 / MAX	0.11	0.07
Node	530	530
Case	31	32
624 / MIN	-0.40	-0.03
Node	530	514
Case	32	31
625 / MAX	0.37	0.00
Node	534	514
Case	32	32
625 / MIN	-0.32	-0.02
Node	514	534
Case	32	31
626 / MAX	0.32	0.00
Node	514	490
Case	32	32
626 / MIN	-0.37	-0.02
Node	490	490
Case	32	31
627 / MAX	0.40	0.07
Node	486	486
Case	32	32
627 / MIN	-0.29	0.0
Node	514	486
Case	1	2
628 / MAX	0.40	0.04
Node	497	514
Case	32	31
628 / MIN	-0.29	-0.07
Node	514	497
Case	1	32
629 / MAX	0.18	0.45
Node	514	541
Case	31	31
629 / MIN	-0.65	-0.28
Node	541	541
Case	31	32
630 / MAX	0.05	0.05
Node	510	510
Case	31	32

Member	MY (kNm)	MZ (kNm)
630 / MIN	-0.22	-0.04
Node	510	548
Case	32	32
631 / MAX	0.60	0.16
Node	510	510
Case	31	1
631 / MIN	-0.23	-0.40
Node	510	510
Case	1	31
632 / MAX	0.04	0.04
Node	550	550
Case	32	32
632 / MIN	-0.22	-0.05
Node	521	521
Case	32	32
633 / MAX	0.22	0.04
Node	521	551
Case	32	32
633 / MIN	-0.09	-0.05
Node	521	521
Case	1	32
634 / MAX	0.74	0.35
Node	552	552
Case	31	32
634 / MIN	-0.56	-0.30
Node	553	553
Case	31	32
635 / MAX	0.36	0.02
Node	553	553
Case	31	32
635 / MIN	-0.34	-0.06
Node	554	554
Case	31	32
636 / MAX	1.21	1.42
Node	554	554
Case	31	32
636 / MIN	-1.52	-2.21
Node	555	555
Case	31	32
637 / MAX	0.06	0.02
Node	557	556
Case	1	1
637 / MIN	-0.07	-0.04
Node	556	557
Case	1	32
638 / MAX	0.82	0.28

Member	MY (kNm)	MZ (kNm)
Node	554	556
Case	31	32
638 / MIN	-0.36	0.0
Node	556	554
Case	31	2
639 / MAX	0.39	0.34
Node	558	556
Case	31	32
639 / MIN	-0.19	-0.50
Node	556	558
Case	31	32
641 / MAX	0.07	0.03
Node	560	559
Case	31	32
641 / MIN	-0.05	-0.16
Node	559	560
Case	31	32
644 / MAX	0.56	0.30
Node	564	564
Case	31	32
644 / MIN	-0.74	-0.35
Node	563	563
Case	31	32
645 / MAX	0.34	0.06
Node	565	565
Case	31	32
645 / MIN	-0.36	-0.02
Node	564	564
Case	31	32
646 / MAX	1.20	1.42
Node	565	565
Case	31	32
646 / MIN	-1.52	-2.21
Node	566	566
Case	31	32
647 / MAX	0.06	0.04
Node	557	557
Case	1	32
647 / MIN	-0.07	-0.02
Node	567	567
Case	1	1
648 / MAX	0.35	0.00
Node	567	567
Case	31	31
648 / MIN	-0.82	-0.28
Node	565	567

Member	MY (kNm)	MZ (kNm)
Case	31	32
649 / MAX	0.18	0.50
Node	567	558
Case	31	32
649 / MIN	-0.39	-0.34
Node	558	567
Case	31	32
651 / MAX	0.07	0.03
Node	569	568
Case	31	32
651 / MIN	-0.05	-0.16
Node	568	569
Case	31	32
654 / MAX	0.77	0.36
Node	572	572
Case	31	32
654 / MIN	-0.58	-0.31
Node	573	573
Case	31	32
655 / MAX	0.37	0.03
Node	573	574
Case	31	1
655 / MIN	-0.36	-0.05
Node	574	573
Case	31	1
656 / MAX	1.22	1.60
Node	574	574
Case	31	32
656 / MIN	-1.56	-2.30
Node	575	575
Case	31	32
657 / MAX	0.04	0.0
Node	576	576
Case	31	2
657 / MIN	-0.03	-0.07
Node	577	576
Case	1	1
658 / MAX	0.87	0.29
Node	574	576
Case	31	32
658 / MIN	-0.40	-0.03
Node	574	576
Case	1	1
659 / MAX	0.00	0.33
Node	578	576
Case	32	32

Member	MY (kNm)	MZ (kNm)
659 / MIN	-0.08	-0.46
Node	578	578
Case	1	32
661 / MAX	0.00	0.03
Node	580	579
Case	1	32
661 / MIN	-0.02	-0.15
Node	579	580
Case	31	32
664 / MAX	0.58	0.31
Node	584	584
Case	31	32
664 / MIN	-0.77	-0.36
Node	583	583
Case	31	32
665 / MAX	0.36	0.05
Node	585	584
Case	31	1
665 / MIN	-0.37	-0.03
Node	584	585
Case	31	1
666 / MAX	1.22	1.60
Node	585	585
Case	31	32
666 / MIN	-1.55	-2.30
Node	586	586
Case	31	32
667 / MAX	0.00	0.07
Node	577	587
Case	32	1
667 / MIN	-0.04	-0.04
Node	587	587
Case	31	31
668 / MAX	0.09	0.28
Node	587	585
Case	31	32
668 / MIN	-0.57	-0.29
Node	585	587
Case	31	32
669 / MAX	0.01	0.46
Node	587	578
Case	31	32
669 / MIN	-0.08	-0.33
Node	578	587
Case	1	32
671 / MAX	0.00	0.03

Member	MY (kNm)	MZ (kNm)
Node	589	588
Case	31	32
671 / MIN	-0.02	-0.15
Node	588	589
Case	31	32
674 / MAX	0.17	0.04
Node	553	573
Case	32	32
674 / MIN	-0.27	-0.05
Node	573	553
Case	1	32
675 / MAX	0.18	0.05
Node	529	553
Case	32	32
675 / MIN	-0.18	-0.05
Node	553	529
Case	32	32
676 / MAX	0.68	0.02
Node	554	574
Case	32	32
676 / MIN	-0.65	-0.03
Node	574	554
Case	32	32
677 / MAX	0.65	0.03
Node	530	554
Case	32	32
677 / MIN	-0.68	-0.02
Node	554	530
Case	32	32
678 / MAX	0.68	0.03
Node	565	565
Case	32	32
678 / MIN	-0.65	-0.02
Node	585	565
Case	32	31
679 / MAX	0.65	0.02
Node	541	541
Case	32	32
679 / MIN	-0.68	-0.03
Node	565	565
Case	32	32
680 / MAX	0.17	0.05
Node	564	564
Case	32	32
680 / MIN	-0.27	-0.04
Node	584	584

Member	MY (kNm)	MZ (kNm)
Case	1	32
681 / MAX	0.18	0.05
Node	540	540
Case	32	32
681 / MIN	-0.18	-0.05
Node	564	564
Case	32	32
682 / MAX	0.15	0.07
Node	574	574
Case	31	32
682 / MIN	-0.38	-0.04
Node	574	558
Case	32	31
683 / MAX	0.34	0.00
Node	578	558
Case	32	32
683 / MIN	-0.30	-0.04
Node	558	578
Case	32	31
684 / MAX	0.32	0.00
Node	558	534
Case	32	1
684 / MIN	-0.38	-0.02
Node	534	534
Case	32	31
685 / MAX	0.67	0.28
Node	530	530
Case	31	32
685 / MIN	-0.33	-0.43
Node	530	530
Case	1	31
686 / MAX	0.39	0.03
Node	541	558
Case	32	31
686 / MIN	-0.30	-0.07
Node	558	541
Case	1	32
687 / MAX	0.23	0.02
Node	558	558
Case	31	1
687 / MIN	-0.38	-0.07
Node	585	585
Case	32	32
688 / MAX	0.04	0.05
Node	554	554
Case	31	32

Member	MY (kNm)	MZ (kNm)
688 / MIN	-0.22	-0.04
Node	554	592
Case	32	32
689 / MAX	0.22	0.05
Node	554	554
Case	32	32
689 / MIN	-0.09	-0.04
Node	554	593
Case	1	32
690 / MAX	0.04	0.04
Node	594	594
Case	32	32
690 / MIN	-0.22	-0.05
Node	565	565
Case	32	32
691 / MAX	0.22	0.04
Node	565	595
Case	32	32
691 / MIN	-0.09	-0.05
Node	565	565
Case	1	32
692 / MAX	0.98	0.23
Node	596	596
Case	1	1
692 / MIN	-0.35	-0.08
Node	573	573
Case	1	1
693 / MAX	0.73	0.08
Node	574	597
Case	32	32
693 / MIN	-0.84	-0.05
Node	597	574
Case	32	32
694 / MAX	0.73	0.05
Node	585	585
Case	32	32
694 / MIN	-0.84	-0.08
Node	598	598
Case	32	32
695 / MAX	0.98	0.08
Node	599	584
Case	1	1
695 / MIN	-0.35	-0.23
Node	584	599
Case	1	1
696 / MAX	0.50	0.07

Member	MY (kNm)	MZ (kNm)
Node	600	600
Case	32	31
696 / MIN	-0.44	-0.05
Node	578	578
Case	32	31
697 / MAX	0.32	0.14
Node	574	600
Case	32	1
697 / MIN	-0.38	-0.05
Node	574	600
Case	1	31
698 / MAX	0.27	0.0
Node	600	585
Case	32	2
698 / MIN	-0.68	-0.45
Node	585	585
Case	31	31
699 / MAX	0.43	0.21
Node	597	597
Case	31	31
699 / MIN	-0.16	-0.26
Node	597	597
Case	32	1
700 / MAX	0.05	0.08
Node	602	602
Case	32	32
700 / MIN	-0.29	-0.10
Node	598	598
Case	32	32
701 / MAX	0.75	0.32
Node	603	603
Case	31	32
701 / MIN	-0.55	-0.45
Node	596	596
Case	31	1
702 / MAX	0.37	0.26
Node	596	596
Case	31	1
702 / MIN	-0.28	-0.16
Node	597	597
Case	31	1
703 / MAX	1.48	0.92
Node	597	597
Case	31	32
703 / MIN	-1.70	-1.95
Node	604	604

Member	MY (kNm)	MZ (kNm)
Case	31	32
704 / MAX	0.01	0.41
Node	606	606
Case	31	1
704 / MIN	-0.06	-0.03
Node	606	605
Case	1	32
705 / MAX	0.47	0.21
Node	597	605
Case	31	32
705 / MIN	-0.24	-0.14
Node	605	597
Case	31	32
706 / MAX	0.20	0.66
Node	600	600
Case	31	1
706 / MIN	-0.21	-0.58
Node	605	600
Case	1	32
708 / MAX	0.06	0.24
Node	608	608
Case	31	31
708 / MIN	-0.05	-0.13
Node	607	608
Case	31	32
711 / MAX	0.55	0.45
Node	599	599
Case	31	1
711 / MIN	-0.75	-0.32
Node	611	611
Case	31	32
712 / MAX	0.28	0.16
Node	598	598
Case	31	1
712 / MIN	-0.37	-0.26
Node	599	599
Case	31	1
713 / MAX	0.76	0.92
Node	598	598
Case	31	32
713 / MIN	-1.70	-1.95
Node	612	612
Case	31	32
714 / MAX	0.02	0.22
Node	613	613
Case	31	31

Member	MY (kNm)	MZ (kNm)
714 / MIN	-0.06	-0.41
Node	606	606
Case	1	1
715 / MAX	0.24	0.14
Node	613	598
Case	31	32
715 / MIN	-0.46	-0.21
Node	598	613
Case	31	32
716 / MAX	0.20	0.58
Node	613	600
Case	31	32
716 / MIN	-0.21	-0.66
Node	613	600
Case	1	1
718 / MAX	0.06	0.22
Node	615	615
Case	31	1
718 / MIN	-0.05	-0.24
Node	614	615
Case	31	31
723 / MAX	0.75	0.44
Node	620	401
Case	31	1
723 / MIN	-0.54	-0.24
Node	401	401
Case	31	32
724 / MAX	0.36	0.16
Node	401	402
Case	31	1
724 / MIN	-0.28	-0.26
Node	402	401
Case	31	1
725 / MAX	1.46	1.06
Node	402	402
Case	31	32
725 / MIN	-1.68	-2.02
Node	621	621
Case	31	32
726 / MAX	0.02	0.01
Node	622	623
Case	32	32
726 / MIN	-0.06	-0.42
Node	623	623
Case	1	1
727 / MAX	0.43	0.29

Member	MY (kNm)	MZ (kNm)
Node	402	402
Case	31	32
727 / MIN	-0.24	-0.29
Node	402	402
Case	1	1
728 / MAX	0.01	0.33
Node	622	406
Case	32	31
728 / MIN	-0.21	-0.73
Node	622	406
Case	1	1
730 / MAX	0.02	0.09
Node	625	624
Case	31	31
730 / MIN	-0.02	-0.25
Node	624	625
Case	31	1
733 / MAX	0.54	0.24
Node	412	412
Case	31	32
733 / MIN	-0.75	-0.44
Node	628	412
Case	31	1
734 / MAX	0.28	0.26
Node	413	412
Case	31	1
734 / MIN	-0.36	-0.16
Node	412	413
Case	31	1
735 / MAX	0.73	1.06
Node	413	413
Case	31	32
735 / MIN	-1.68	-2.02
Node	629	629
Case	31	32
736 / MAX	0.03	0.42
Node	630	623
Case	31	1
736 / MIN	-0.06	-0.22
Node	623	630
Case	1	31
737 / MAX	0.21	0.46
Node	630	630
Case	31	1
737 / MIN	-0.46	-0.21
Node	413	630

Member	MY (kNm)	MZ (kNm)
Case	31	31
738 / MAX	0.16	0.73
Node	630	406
Case	31	1
738 / MIN	-0.21	-0.19
Node	630	630
Case	1	32
740 / MAX	0.02	0.24
Node	632	632
Case	31	31
740 / MIN	-0.02	-0.25
Node	631	632
Case	31	1
741 / MAX	0.02	0.41
Node	3563	3563
Case	31	1
741 / MIN	-0.01	-0.83
Node	3563	3562
Case	32	1
742 / MAX	0.02	0.41
Node	3565	3565
Case	31	1
742 / MIN	-0.01	-0.83
Node	3564	3564
Case	1	1
743 / MAX	0.04	0.16
Node	3567	3566
Case	31	1
743 / MIN	-0.02	-0.08
Node	3566	3567
Case	31	1
744 / MAX	0.04	0.16
Node	3569	3568
Case	31	1
744 / MIN	-0.02	-0.08
Node	3568	3569
Case	31	1
745 / MAX	0.02	0.07
Node	3571	3570
Case	31	32
745 / MIN	-0.00	-0.07
Node	3570	3571
Case	31	32
746 / MAX	0.02	0.07
Node	3573	3572
Case	31	32

Member	MY (kNm)	MZ (kNm)
746 / MIN	-0.00	-0.07
Node	3573	3573
Case	1	32
747 / MAX	0.04	0.07
Node	3575	3574
Case	31	32
747 / MIN	-0.02	-0.06
Node	3574	3575
Case	31	32
748 / MAX	0.04	0.07
Node	3577	3576
Case	31	32
748 / MIN	-0.02	-0.06
Node	3576	3577
Case	31	32
749 / MAX	0.04	0.07
Node	3579	3578
Case	31	32
749 / MIN	-0.01	-0.06
Node	3578	3579
Case	31	32
750 / MAX	0.04	0.07
Node	3581	3580
Case	31	32
750 / MIN	-0.01	-0.06
Node	3580	3581
Case	31	32
751 / MAX	0.04	0.07
Node	3583	3582
Case	31	32
751 / MIN	-0.02	-0.06
Node	3582	3583
Case	31	32
752 / MAX	0.04	0.07
Node	3585	3584
Case	31	32
752 / MIN	-0.02	-0.06
Node	3584	3585
Case	31	32
753 / MAX	0.04	0.07
Node	3587	3586
Case	31	32
753 / MIN	-0.01	-0.07
Node	3586	3587
Case	31	32
754 / MAX	0.04	0.07

Member	MY (kNm)	MZ (kNm)
Node	3589	3588
Case	31	32
754 / MIN	-0.01	-0.07
Node	3588	3589
Case	31	32
755 / MAX	0.04	0.07
Node	3591	3590
Case	31	32
755 / MIN	-0.01	-0.06
Node	3590	3591
Case	31	32
756 / MAX	0.04	0.07
Node	3593	3592
Case	31	32
756 / MIN	-0.01	-0.06
Node	3592	3593
Case	31	32
757 / MAX	0.04	0.08
Node	3594	3594
Case	31	1
757 / MIN	-0.01	-0.16
Node	3595	3595
Case	31	1
758 / MAX	0.04	0.08
Node	3597	3597
Case	31	1
758 / MIN	-0.01	-0.16
Node	3596	3596
Case	31	1
759 / MAX	0.02	0.83
Node	3598	3599
Case	31	1
759 / MIN	-0.01	-0.41
Node	3598	3598
Case	1	1
760 / MAX	0.02	0.83
Node	598	3600
Case	31	1
760 / MIN	-0.02	-0.41
Node	3600	598
Case	1	1
761 / MAX	0.01	0.07
Node	3609	3609
Case	32	1
761 / MIN	-0.43	-0.11
Node	3609	3609

Member	MY (kNm)	MZ (kNm)
Case	31	32
762 / MAX	0.01	0.42
Node	3610	3610
Case	32	1
762 / MIN	-0.43	-0.11
Node	3609	3609
Case	31	32
763 / MAX	0.00	0.08
Node	3612	3612
Case	1	1
763 / MIN	-0.41	-0.17
Node	3612	3612
Case	31	32
764 / MAX	0.02	0.17
Node	3613	3613
Case	31	1
764 / MIN	-0.41	-0.17
Node	3612	3612
Case	31	32
765 / MAX	0.00	0.07
Node	3615	3615
Case	1	1
765 / MIN	-0.43	-0.11
Node	3615	3615
Case	31	32
766 / MAX	0.00	0.42
Node	3615	3616
Case	1	1
766 / MIN	-0.43	-0.17
Node	3615	3616
Case	31	31
767 / MAX	0.00	0.00
Node	3618	3617
Case	1	1
767 / MIN	-0.11	-0.09
Node	3618	3618
Case	31	32
768 / MAX	0.01	0.0
Node	556	3618
Case	1	2
768 / MIN	-0.11	-0.09
Node	3618	3618
Case	31	32
769 / MAX	0.00	0.00
Node	3620	3620
Case	32	31

Member	MY (kNm)	MZ (kNm)
769 / MIN	-0.11	-0.09
Node	3620	3620
Case	31	32
770 / MAX	0.00	0.00
Node	567	567
Case	32	31
770 / MIN	-0.11	-0.09
Node	3620	3620
Case	31	32
775 / MAX	0.71	0.04
Node	3625	3626
Case	31	32
775 / MIN	-0.33	-0.20
Node	3626	3625
Case	31	32
776 / MAX	0.14	0.03
Node	3626	3626
Case	31	32
776 / MIN	-0.31	-0.01
Node	3627	3626
Case	31	1
778 / MAX	0.42	0.01
Node	3628	3629
Case	31	1
778 / MIN	-0.75	-0.18
Node	3629	3629
Case	31	32
779 / MAX	0.01	0.00
Node	3626	3626
Case	1	1
779 / MIN	-0.42	-0.09
Node	3626	3626
Case	31	32
780 / MAX	0.04	0.03
Node	3626	3631
Case	31	1
780 / MIN	-0.02	-0.08
Node	3631	3626
Case	1	32
781 / MAX	0.01	0.01
Node	3627	3627
Case	1	1
781 / MIN	-0.37	-0.19
Node	3627	3627
Case	31	32
782 / MAX	0.04	0.01

Member	MY (kNm)	MZ (kNm)
Node	3633	3633
Case	31	1
782 / MIN	-0.06	-0.19
Node	3627	3627
Case	31	32
783 / MAX	0.00	0.01
Node	3628	3628
Case	1	1
783 / MIN	-0.40	-0.08
Node	3628	3628
Case	31	32
784 / MAX	0.03	0.02
Node	3635	3635
Case	1	1
784 / MIN	-0.04	-0.07
Node	3628	3628
Case	1	32
785 / MAX	0.00	0.00
Node	3	3
Case	31	31
785 / MIN	-0.01	-0.01
Node	3	606
Case	1	1
786 / MAX	0.00	0.01
Node	606	606
Case	32	1
786 / MIN	-0.01	-0.00
Node	1	606
Case	1	31
787 / MAX	0.00	0.00
Node	445	3628
Case	31	1
787 / MIN	-0.01	-0.00
Node	3628	445
Case	1	32
788 / MAX	0.0	0.00
Node	445	445
Case	2	1
788 / MIN	-0.01	-0.01
Node	3626	445
Case	1	32
789 / MAX	0.11	0.12
Node	3636	3637
Case	31	32
789 / MIN	-0.19	-0.12
Node	3637	3637

Member	MY (kNm)	MZ (kNm)
Case	31	1
790 / MAX	0.19	0.12
Node	3637	3637
Case	31	32
790 / MIN	-0.11	-0.12
Node	3638	3637
Case	31	1
791 / MAX	0.00	0.01
Node	3638	623
Case	31	1
791 / MIN	-0.01	-0.00
Node	3638	3638
Case	1	31
792 / MAX	0.00	0.00
Node	3636	623
Case	32	32
792 / MIN	-0.01	-0.02
Node	3636	623
Case	1	1
793 / MAX	0.73	0.25
Node	402	402
Case	31	1
793 / MIN	-0.36	-0.21
Node	3636	402
Case	31	32
794 / MAX	0.36	0.25
Node	3638	3639
Case	31	1
794 / MIN	-0.74	-0.21
Node	3639	3639
Case	31	32
795 / MAX	1.26	0.02
Node	3565	3600
Case	1	31
795 / MIN	-0.27	-0.15
Node	3565	3600
Case	31	1
796 / MAX	1.26	0.15
Node	3563	3599
Case	1	1
796 / MIN	-0.04	-0.01
Node	3599	3563
Case	32	32
797 / MAX	0.04	0.02
Node	3640	3644
Case	31	1

Member	MY (kNm)	MZ (kNm)
797 / MIN	-0.74	-0.45
Node	3644	3640
Case	1	31
798 / MAX	0.04	0.02
Node	3641	3641
Case	31	1
798 / MIN	-0.70	-0.45
Node	3645	3641
Case	1	31
799 / MAX	0.04	0.02
Node	3642	3642
Case	31	1
799 / MIN	-0.71	-0.45
Node	3646	3642
Case	1	31
800 / MAX	0.03	0.01
Node	3643	3643
Case	31	1
800 / MIN	-0.78	-0.45
Node	3647	3643
Case	1	31
801 / MAX	0.01	0.00
Node	3651	3651
Case	32	32
801 / MIN	-0.78	-0.45
Node	3655	3651
Case	1	31
802 / MAX	0.00	0.00
Node	3650	3650
Case	32	32
802 / MIN	-0.71	-0.45
Node	3654	3650
Case	1	31
803 / MAX	0.00	0.00
Node	3649	3649
Case	32	32
803 / MIN	-0.70	-0.45
Node	3653	3649
Case	1	31
804 / MAX	0.00	0.00
Node	3648	3648
Case	32	32
804 / MIN	-0.74	-0.45
Node	3652	3648
Case	1	31
805 / MAX	0.03	0.02

Member	MY (kNm)	MZ (kNm)
Node	3666	3669
Case	31	1
805 / MIN	-0.77	-0.45
Node	3669	3666
Case	1	31
806 / MAX	0.03	0.02
Node	3665	3665
Case	31	1
806 / MIN	-0.75	-0.45
Node	3665	3665
Case	1	31
807 / MAX	0.02	0.01
Node	3664	3664
Case	31	1
807 / MIN	-0.80	-0.45
Node	3664	3664
Case	1	31
808 / MAX	1.63	0.52
Node	605	605
Case	1	1
808 / MIN	-0.48	-0.17
Node	576	576
Case	1	1
809 / MAX	0.06	0.03
Node	556	556
Case	1	1
809 / MIN	-0.44	-0.11
Node	576	576
Case	1	1
810 / MAX	0.03	0.02
Node	556	556
Case	1	1
810 / MIN	-0.04	-0.02
Node	532	556
Case	1	31
811 / MAX	0.03	0.02
Node	532	512
Case	32	32
811 / MIN	-0.04	-0.02
Node	532	532
Case	1	31
812 / MAX	0.03	0.01
Node	512	488
Case	32	32
812 / MIN	-0.04	-0.02
Node	512	488

Member	MY (kNm)	MZ (kNm)
Case	1	31
813 / MAX	0.03	0.02
Node	488	468
Case	32	32
813 / MIN	-0.06	-0.02
Node	468	488
Case	1	31
820 / MAX	1.63	0.17
Node	613	587
Case	1	1
820 / MIN	-0.49	-0.52
Node	613	613
Case	31	1
821 / MAX	0.09	0.11
Node	587	587
Case	31	1
821 / MIN	-0.44	-0.03
Node	587	567
Case	1	1
822 / MAX	0.03	0.02
Node	567	567
Case	1	32
822 / MIN	-0.04	-0.02
Node	543	567
Case	1	31
823 / MAX	0.03	0.01
Node	543	543
Case	32	32
823 / MIN	-0.04	-0.02
Node	3676	543
Case	1	31
824 / MAX	0.02	0.01
Node	3676	3676
Case	32	32
824 / MIN	-0.04	-0.02
Node	3676	499
Case	1	31
825 / MAX	0.03	0.01
Node	499	499
Case	32	32
825 / MIN	-0.06	-0.02
Node	479	499
Case	1	31
826 / MAX	0.04	0.01
Node	455	479
Case	1	32

Member	MY (kNm)	MZ (kNm)
826 / MIN	-0.06	-0.03
Node	479	455
Case	1	31
827 / MAX	0.08	0.11
Node	435	435
Case	31	1
827 / MIN	-0.45	-0.03
Node	435	455
Case	1	1
828 / MAX	1.63	0.17
Node	630	435
Case	1	1
828 / MIN	-0.49	-0.53
Node	435	630
Case	1	1
829 / MAX	0.03	0.02
Node	444	444
Case	1	1
829 / MIN	-0.06	-0.03
Node	468	444
Case	1	31
830 / MAX	0.07	0.03
Node	444	444
Case	1	1
830 / MIN	-0.45	-0.11
Node	424	424
Case	1	1
831 / MAX	1.63	0.53
Node	622	622
Case	1	1
831 / MIN	-0.49	-0.17
Node	424	424
Case	1	1
832 / MAX	0.00	0.00
Node	3672	3672
Case	32	32
832 / MIN	-0.77	-0.45
Node	3675	3672
Case	1	31
833 / MAX	0.00	0.00
Node	3671	3671
Case	32	32
833 / MIN	-0.75	-0.45
Node	3671	3671
Case	1	31
834 / MAX	0.00	0.00

Member	MY (kNm)	MZ (kNm)
Node	3670	3673
Case	32	32
834 / MIN	-0.80	-0.45
Node	3670	3670
Case	1	31
835 / MAX	0.00	0.00
Node	3695	3695
Case	32	32
835 / MIN	-0.87	-0.45
Node	3687	3687
Case	1	31
836 / MAX	0.01	0.00
Node	3696	3696
Case	32	32
836 / MIN	-0.85	-0.45
Node	3696	3696
Case	1	31
837 / MAX	0.01	0.00
Node	3697	3697
Case	32	32
837 / MIN	-0.85	-0.45
Node	3697	3697
Case	1	31
838 / MAX	0.01	0.00
Node	3698	3698
Case	32	32
838 / MIN	-0.87	-0.45
Node	3698	3698
Case	1	31
839 / MAX	0.02	0.01
Node	3686	3686
Case	31	1
839 / MIN	-0.87	-0.45
Node	3694	3694
Case	1	31
840 / MAX	0.03	0.01
Node	3685	3685
Case	31	1
840 / MIN	-0.85	-0.45
Node	3693	3693
Case	1	31
841 / MAX	0.03	0.02
Node	3684	3684
Case	31	1
841 / MIN	-0.85	-0.45
Node	3692	3692

Member	MY (kNm)	MZ (kNm)
Case	1	31
842 / MAX	0.02	0.01
Node	3683	3683
Case	31	1
842 / MIN	-0.87	-0.45
Node	3683	3683
Case	1	31