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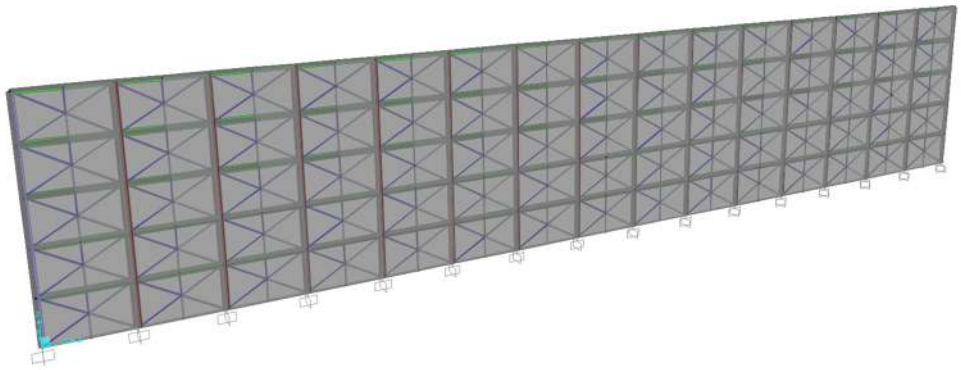
COINGEST
CONSULTORIA E INGENIERIA ESTRUCTURAL

PROYECTO

ADECUACIÓN Y MEJORAMIENTO DEL COMPLEJO DEPORTIVO EN EL NÚCLEO RURAL ESCOLAR Y RECREATIVO DE CHICHIMENE EN EL MUNICIPIO DE ACACÍAS-META

BLOQUE: MURO CONTRA IMPACTO

(ACACÍAS – META)



Matrícula Inmobiliaria: 232-1991
Cédula catastral: 030000020003000

Rev	Fecha	Descripción	Elaborado	Revisado	Aprobado
IV					
III					
II					
I	ENERO-2025	Inicial			

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1 INTRODUCCIÓN

A continuación, se presenta la memoria de cálculo de una estructura metálica. El sistema estructural empleado corresponde a los permitidos en la AIS-180-13 Estructuras diferentes a edificaciones – 14. Estructura de parques de diversión o de monumentos. La estructura se compone de perfiles tubulares circulares tipo PTC ø4”X6.00mm, PTC ø3”X2.50mm, ángulos de alas iguales L2”X2”X1/4” y L1 ½”X1 ½”X1/4” unidos mediante soldaduras con una resistencia mínima de 70KSI. Todos los miembros estructurales que conforman el sistema de resistencia sísmica de la estructura están fabricados con un acero que cumple la norma ASTM A500 Gr. C. y ASTM A36. Se realizó evaluación de cargas gravitacionales muertas vivas y se realizó análisis sísmico modal espectral, validado con el método de la fuerza horizontal equivalente, de acuerdo con lo establecido en el Capítulo A.5 del Título A de NSR-10.
Para el diseño de los elementos a criterio como diseñador, se trabajará la envolvente asegurando que la estructura se someta a la condición más crítica de todos los casos con el fin de revisar la eficiencia de los elementos y asegurar que estos tengan un buen desempeño.

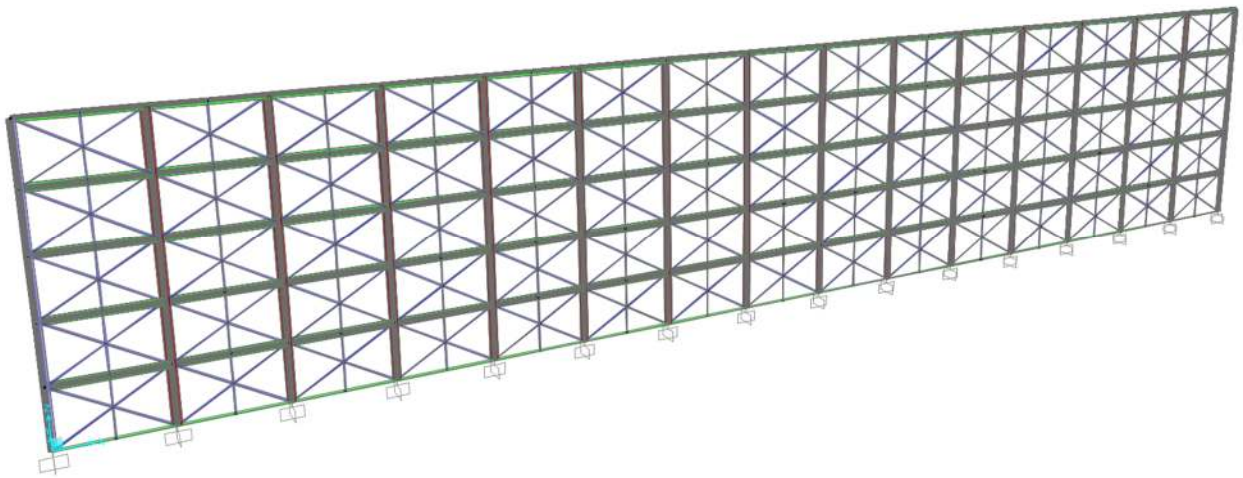


Imagen 1. Modelo matemático 3D de la estructura
Fuente: Elaboración propia

2 CARACTERÍSTICAS GENERALES DE LA ESTRUCTURA

El proyecto presenta las siguientes características desde el punto de vista estructural:

Tipo de estructura:	Estructura de parques de diversión o de monumentos
Zona de amenaza sísmica (según NSR-10)	Alta
Resistencia a la compresión del concreto $f'c$	21 MPa (3000 psi) para cimentación
Perfilería metálica	ASTM A500 Gr. C / ASTM A36
Tipo de cimentación	Superficial
Secciones pedestales	350X350

Tabla 1. Características generales de la estructura

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3 PARÁMETROS SÍSMICOS DEL PROYECTO

El proyecto **"ADECUACIÓN Y MEJORAMIENTO DEL COMPLEJO DEPORTIVO EN EL NÚCLEO RURAL ESCOLAR Y RECREATIVO DE CHICHIMENE EN EL MUNICIPIO DE ACACÍAS-META.**

Se encuentra localizado en el municipio de acacias, en el departamento del Meta, en zona de amenaza sísmica alta. En la siguiente tabla se muestran los parámetros sísmicos del proyecto.

Municipio	Acacías Meta
Código municipio	50006
Perfil de Suelo	D (según estudio de suelos)
Aa	0.30
Av	0.30
Fa	1.20
Fv	1.80
Grupo de uso	I
I	1.00

Tabla 2. Parámetros sísmicos del proyecto
Fuente: Elaboración propia

4 NORMAS TÉCNICAS Y RECOMENDACIONES

Para el diseño de los elementos de concreto reforzado y de los elementos de acero, se consideraron los siguientes códigos y/o normativa:

- Norma Colombiana Sismo Resistente NSR-10

Modificaciones técnicas y científicas en el reglamento NSR-10

- ✓ Ley 400 de 1997 (Modificada por la Ley 1229 de 2008, Ley 1796 de 2016 y Decreto-Ley e019 de 2012)
- ✓ Decreto 926 del 19 de Marzo de 2010
- ✓ Decreto 2525 del 13 de Junio de 2010
- ✓ Decreto 092 del 17 de Enero de 2011
- ✓ Decreto 0340 del 13 de Febrero de 2012
- ✓ Decreto 945 del 5 de junio de 2017
- AISC LRFD 10.
- ACI 318-14 Building Code Requirements for Structural Concrete
- AIS-180-13

5 SISTEMA DE UNIDADES

Los elementos de la estructura fueron analizados y diseñados empleando las unidades del sistema internacional de unidades SI:

Longitud	metros (m); centímetros (cm); milímetros (mm)
Área	metros cuadrados (m²); milímetros cuadrados (mm²)
Fuerza	Newton (N); kilo Newton (kN)
Esfuerzo	mega Pascales (MPa)
Masa	kilogramo (kg); Toneladas (T)
Periodos	segundos (s)
Frecuencias	Radianes por segundo (rad/s)

Tabla 3. Unidades empleadas en el análisis

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6 COEFICIENTES DE SEGURIDAD

6.1 COEFICIENTES DE SEGURIDAD PARA DISEÑO DE CONCRETO

- Secciones controladas por tracción **Ø= 0.90**

- Secciones controladas por compresión

- Elementos con refuerzo en espiral según C.10.9.3 **Ø =0.75**
- Otros elementos reforzados **Ø =0.65**

Para las secciones en que la deformación unitaria neta a la tracción en el acero extremo a tracción en el estado de resistencia nominal, εt, se encuentra entre los

límites para secciones controladas por compresión y las secciones controladas por tracción, se permite que □□aumente linealmente desde el valor correspondiente a las secciones controladas por compresión hasta 0.90, en la medida que εt aumente desde el límite de deformación unitaria controlado por compresión hasta 0.005.

En forma alternativa, cuando se usa el Apéndice C-B, para elementos en los cuales fy no exceda 420 MPa, con refuerzo simétrico, y cuando (d-d') /h no es menor de 0.7, se permite aumentar□□ linealmente hasta 0.90 en la medida que ϕPn disminuye de 0.10fc' Ag hasta cero.

Para otros elementos reforzados ϕ puede incrementarse linealmente a 0.90 en la medida que ϕPn disminuye desde 0.10 fc' Ag ó ϕPb, el que sea menor, hasta cero.

- Cortante y torsión **Ø =0.75**
- Aplastamiento en el concreto (excepto para anclajes de postensado y modelo puntal – tensor) **Ø =0.65**

6.2 COEFICIENTES DE SEGURIDAD PARA DISEÑO DE ACERO

•Fluencia por tensión sobre el área bruta	**Ø t = 0.90**
•Rotura por tensión sobre el área neta	**Ø t = 0.75**
•Rotura por cortante sobre el área neta efectiva	**Ø t = 0.75**
•Flexión	**Ø b = 0.90**
•Cortante	**Ø v = 0.90**
•Torsión	**Ø t = 0.90**

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7 MATERIALES

7.1. ACERO ASTM A500 G. C

Para los elementos que conforman la estructura principal, se emplearon perfiles tubulares rectangulares PTE cuyo material cumple la norma ASTM A500 Gr. C. Las propiedades mecánicas del material se presentan a continuación:

Resistencia a la cedencia del acero $f_y = 345\ MPa$
Resistencia última a la tracción $f_y = 430\ MPa$
Módulo de elasticidad del acero $E = 200\,000\ MPa$

7.2. CONCRETO

El concreto empleado en el análisis y diseño de los elementos de la cimentación corresponde a un concreto de 21 MPa, las propiedades mecánicas más importantes se presentan a continuación:

Resistencia a la compresión del concreto $f'_c = 21\ MPa$
Módulo de elasticidad del concreto $E = 17872\ MPa$

7.3. ACERO DE REFUERZO

Malla electrosoldadas y acero de refuerzo en barras corrugadas:

Resistencia a la fluencia del acero $F_y = 420\ MPa$
Módulo de elasticidad del acero $E = 200.000\ MPa$

En la siguiente tabla se presentan las propiedades de las barras corrugadas empleadas en el diseño estructural del proyecto. Las dimensiones nominales corresponden a las establecidas en el título C del NSR – 10.

Designación de la barra	Diámetro en pulgadas	Dimensiones nominales		Peso (kg/m)
		Ø (mm)	A (mm²)	
No. 2	1/4	6.4	32	0.25
No. 3	3/8	9.5	71	0.56
No. 4	1/2	12.7	129	0.994
No. 5	5/8	15.9	199	1.552
No. 6	3/4	19.1	284	2.235
No. 7	7/8	22.2	387	23.042
No. 8	1	25.4	510	3.973

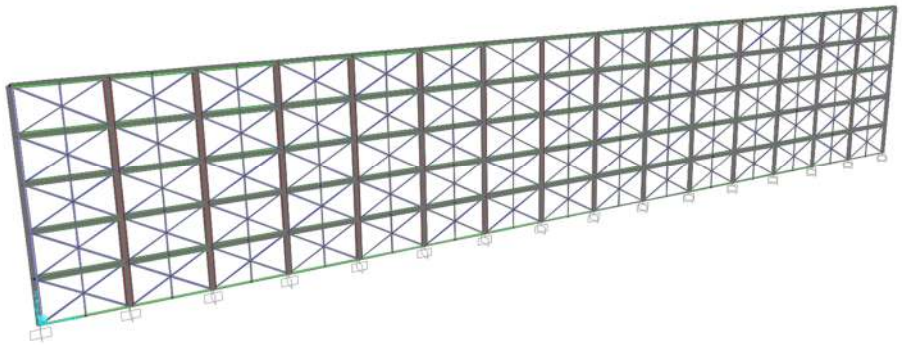
Tabla 4. Propiedades de las barras de acero de refuerzo corrugado

8 ANÁLISIS DE CARGAS

Las cargas aplicadas en la estructura están bajo las consideraciones y recomendaciones establecidas en el título B del NSR-10. A continuación se definen los parámetros generales que se tuvieron en cuenta en el análisis de las cargas y se detallan en los anexos.

8.1. AVALUO DE CARGAS

AVALUO DE CARGAS TITULO B.3 NSR - 10



CARGA MUERTA

Estructura metalica	0.027	**Ton/m²**
Otras cargas	0.01	**Ton/m²**

Nota: Otras cargas hacen parte de la estimacion de una carga adicional correspondiente a una malla eslabonada

D = 0.037 Ton/m²

CARGA VIVA

Uso Cerramiento

Carga Viva m² **L** = 0.180 Ton/m^2

Nota: Se considera una carga viva como factor de seguridad considerando un apoyo de x cantidad de personas sobre la superficie del cerramiento

CARGA DE VIENTO

Carga de viento **W** = 0.087 Ton/m^2

Nota: Ver analisis de viento

8.2. CARGAS DE SISMO

La evaluación de las cargas sísmicas y su aplicación en la estructura se ha desarrollado según lo establecido en el título A del NSR-10. Se realizó un análisis modal espectral de la estructura y posteriormente se hizo un ajuste de dicho análisis con el método FHE.

8.3. CARGAS DE VIENTO

A continuación, se muestra el resumen del análisis por cargas de viento:

WIND LOADS NSR-10

Wind pressure

p = q G Cp rigid buildings
= q Gf Cp flexible buildings
qz = 0.00483 Kz Kzt Kd V² I (Kg/m²); V in Km/h

W I N D L O A D I N G P A R A M E T E R S

Basic wind speed (Km/h), V ..... = 150

V: 3-second gust speed at 10 m, with annual probability of 0.002

Importance factor, I ..... = 1.0

OCCUPANCY CATEGORY		IMPORTANCE FACTOR (1)	(2)
I	Normal occupancy buildings	0.87	0.77
II	Especial occupancy buildings	1.00	1.00
III	Public assistance facilities	1.15	1.15
IV	Essential facilities	1.15	1.15

(1): Non-hurricane prone regions with V=140-160 km/h
(2): Hurricane prone regions with V >160 Km/h

Exposure category ..... = C

ROUGHNESS	DESCRIPTION
B	Urban and suburban areas, wooded areas, obstructions >30ft
C	Open terrain with scattered obstructions less than 30 ft
D	Flat, unobstructed areas, wind over large bodies of water

Directionality factor, Kd ..... = 0.85

Topographic factor, Kzt ..... = 1.0

Kzt = (1 + K1 K2 K3)²

Wall pressure coefficients, Cp

Windward wall ..... = 0.8
Leeward wall (Wind X) ..... = -0.5
Leeward wall (Wind Y) ..... = -0.5
Side walls ..... = -0.7
Roof ..... = 0.0

G U S T E F F E C T S F A C T O R S

Basic wind velocity, (Km/h) = 150
Exposure category ..... = C
Exposed height, (m) ..... = 7.25

	X-direction	Y-direction	
Estimated natural frequency, f(Hz) =	3.1	3.1	
Height / Length ratio, H/L ..... =	.367	0	
Structure clasification ..... =	RIGID	RIGID	
Background response index, Q ..... =	.945	.887	(Eq. B.6.5-4)
Resonant response factor, R1 *.... =	.475	.169	(Eq. B.6.5-8)
Gh: Rigid - Simplified analysis .. =	.85	.85	(Sec B.6.5.8.1)
Gh: Rigid - Complete analysis .... =	.894	.86	(Eq. B.6.5-2)
Gf: Flexible -Analytical(2% dampng)=	1.086	1.02	(Eq. B.6.5-6)
Gf: Flexible -Analytical(1% dampng)=	1.111	1.024	(Eq. B.6.5-6)
Gust effects factor, G ..... =	.894	.86	

* 1% damping ratio. For damping ratio ß, R = R1 * (0.01/ß)^½

V E L O C I T Y P R E S S U R E

Floor -	Height z, m	Pressure qz, K/m2
6	7.25	87.336
5	5.80	83.329
4	4.34	79.259
3	2.90	79.259
2	1.45	79.259
1	0.0	79.259

A C C I D E N T A L T O R S I O N F O R W I N D L O A D S

	X-direction	Y-direction
Accidental eccentricity as a percentage of building dimension, (%)-	15	15

WY is Envelope of:
Case 1: Pwy + Ply
Case 2: 0.75 (Pwy + Ply) + Mt Mt-0.75(Pwy+Ply)Bx ex

WX is Envelope of:
Case 1: Pwx + Plx
Case 2: 0.75 (Pwx + Plx) + Mt Mt-0.75(Pwx+Plx)By ey

NOTE: Load cases 3 and 4 are handled through load combinations

---

A C C I D E N T A L E C C E N T R I C I T Y W I N D L O A D S

Level -	X-DIRECTION (WY) ex (m)	Y-DIRECTION (WX) ey (m)
6	2.96	0.00
5	2.96	0.00
4	2.96	0.00
3	2.96	0.00
2	2.96	0.00

WY is Envelope of:
Case 1: Pwy + Ply
Case 2: 0.75 (Pwy + Ply) + Mt Mt-0.75(Pwy+Ply)Bx ex

WX is Envelope of:
Case 1: Pwx + Plx
Case 2: 0.75 (Pwx + Plx) + Mt Mt-0.75(Pwx+Plx)By ey

NOTE: Load cases 3 and 4 are handled through load combinations

Wind nodal forces:
Pw = Σ pz Ai Pl = Σ ph Ai
Ps = Σ ph Ai Pr = Σ ph Ai
Ai = Nodal tributary area

W I N D F O R C E S: X - D I R E C T I O N

Floor No	Height z, m	Windward Pw, Ton	Leeward Pl, Ton	Side Ps, Ton	Roof Pr, Ton
6	7.25	0.0	0.0	0.78	0.0
5	5.80	0.0	0.0	1.57	0.0
4	4.34	0.0	0.0	1.57	0.0
3	2.90	0.0	0.0	1.57	0.0
2	1.45	0.0	0.0	1.57	0.0
1	0.0	0.0	0.0	0.78	0.0

Base shear, V:Σ(Pw+Pl) .. = 0.0 ton
Building Weight, W ..... = 0.35 ton (V/W = 0.0)
Overturning moment
From horizontal forces . = 0.0 ton-m
From roof forces ..... = 0.0 ton-m
Total moment, Mo ..... = 0.0 ton-m
Stabilizing moment, Ms.... = 3.47 ton-m (Mo/Ms = 0.0)

Wind nodal forces:

Pw = Σ pz Ai Pl = Σ ph Ai
Ps = Σ ph Ai Pr = Σ ph Ai
Ai = Nodal tributary area

W I N D F O R C E S: Y - D I R E C T I O N

Floor No	Height z, m	Windward Pw, Ton	Leeward Pl, Ton	Side Ps, Ton	Roof Pr, Ton
6	7.25	0.86	0.54	0.0	0.0
5	5.80	1.64	1.08	0.0	0.0
4	4.34	1.55	1.08	0.0	0.0
3	2.90	1.55	1.08	0.0	0.0
2	1.45	1.55	1.08	0.0	0.0
1	0.0	0.78	0.54	0.0	0.0

Base shear, V:Σ(Pw+Pl) .. = 13.35 ton
Building Weight, W ..... = 0.35 ton (V/W = 38.14)
Overturning moment
  From horizontal forces . = 48.84 ton-m
  From roof forces ..... = 0.0 ton-m
  Total moment, Mo ..... = 48.84 ton-m
Stabilizing moment, Ms.... = 0.0 ton-m

8.4. CARGAS DE SISMO Y MOVIMIENTO SÍSMICO DE DISEÑO

El nivel de amenaza y los parámetros sísmicos de la estructura necesarios para el cálculo de los movimientos sísmicos de diseño se obtuvieron gracias al mapa de amenaza sísmica de la NSR-10 y del estudio geotécnico y se muestran a continuación:

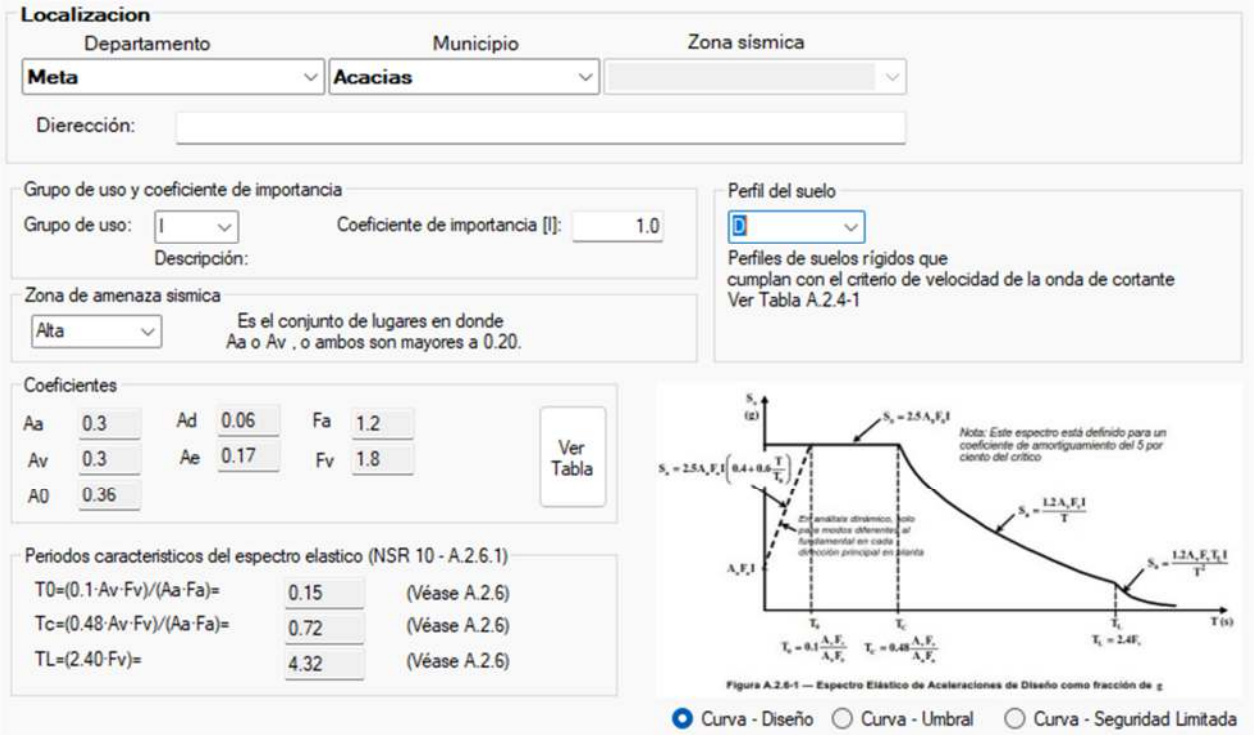


Tabla 5. Parámetros sísmicos del proyecto

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De acuerdo con los parámetros sísmicos se calcula el siguiente espectro de diseño:

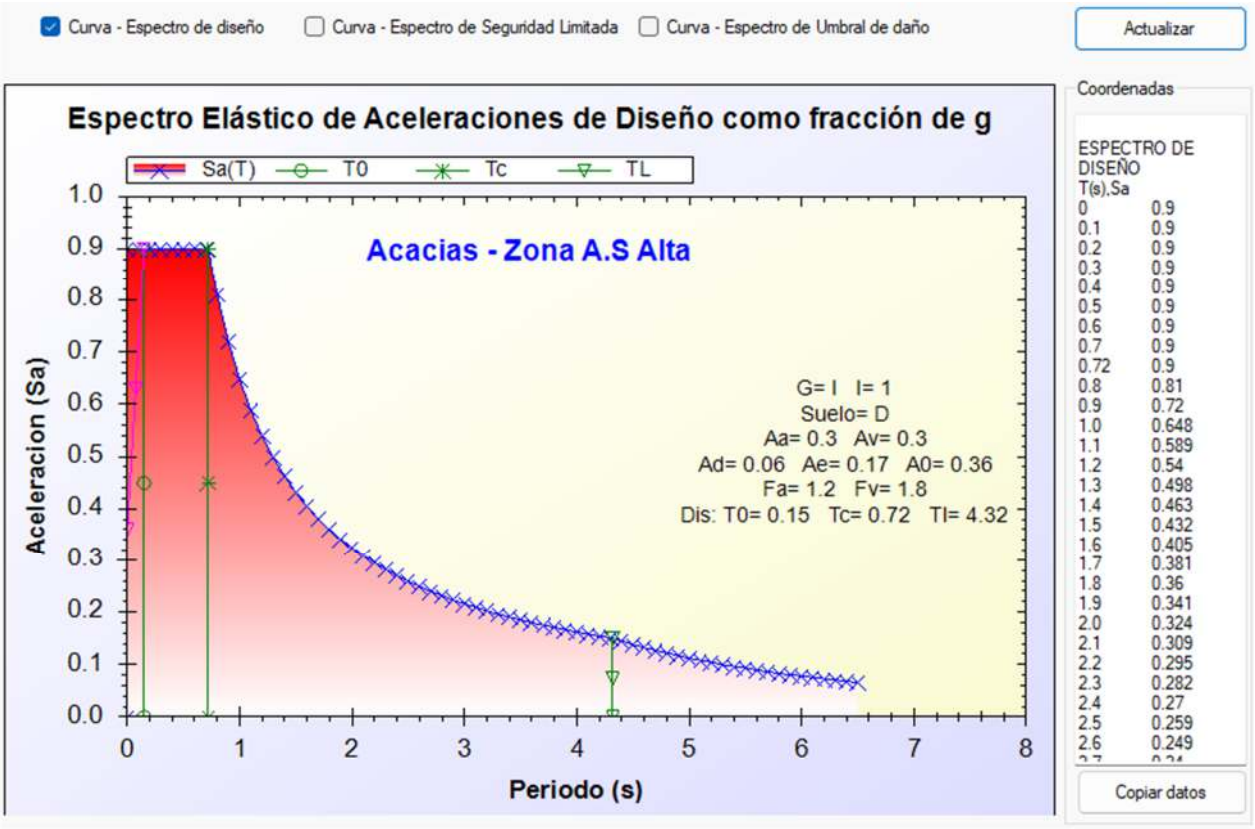


Imagen 2. Espectro elástico de diseño

9 COMBINACIONES DE CARGA

LOAD CASE

DO = Peso Propio
DL = Carga Muerta
LL = Carga Viva
WL = Carga de Viento
EQK-K = Fuerzas Sismicas Elásticas en X
EQK-Y = Fuerzas Sismicas Elásticas en Y

R_0	=	2.00	Estructura diferente a edificaciones
Ω_0	=	2.00	14. Estructura de parques de diversion o de monumentos (AIS 180-13)
$Ø_p$	=	1.00	
$Ø_a$	=	1.00	
$Ø_r$	=	0.75	
Ø	=	0.90	Soldaduras en Obra
R	=	1.3500	

COMBINAIONES DE DISEÑO SEGÚN HIPOTESIS DE CARGA SEGUN B.2.4.2.

COMBINACIONES PARA DISEÑO DE ELEMENTOS

COMB 1	=	+	1.4 DO	+	1.4 DL							
COMB 2	=	+	1.2 DO	+	1.2 DL	+	1.6 LL	+	0.5 WL			
COMB 3	=	+	1.2 DO	+	1.2 DL	+	1.6 LL	-	0.5 WL			
COMB 4	=	+	1.2 DO	+	1.2 DL	+	1.0 LL	+	1.0 WL			
COMB 5	=	+	1.2 DO	+	1.2 DL	+	1.0 LL	-	1.0 WL			
COMB 6	=	+	0.9 DO	+	0.9 DL			+	1.0 WL			
COMB 7	=	+	0.9 DO	+	0.9 DL			-	1.0 WL			
COMB 8	=	+	1.2 DO	+	1.2 DL	+	1.0 LL			+	0.74 EQK-X	+ 0.22 EQK-Y
COMB 9	=	+	1.2 DO	+	1.2 DL	+	1.0 LL			+	0.74 EQK-X	- 0.22 EQK-Y
COMB 10	=	+	1.2 DO	+	1.2 DL	+	1.0 LL			-	0.74 EQK-X	+ 0.22 EQK-Y
COMB 11	=	+	0.9 DO	+	1.2 DL	+	1.0 LL			-	0.74 EQK-X	- 0.22 EQK-Y
COMB 12	=	+	0.9 DO	+	1.2 DL	+	1.0 LL			+	0.22 EQK-X	+ 0.74 EQK-Y
COMB 13	=	+	1.2 DO	+	1.2 DL	+	1.0 LL			-	0.22 EQK-X	- 0.74 EQK-Y
COMB 14	=	+	1.2 DO	+	1.2 DL	+	1.0 LL			+	0.22 EQK-X	+ 0.74 EQK-Y
COMB 15	=	+	1.2 DO	+	1.2 DL	+	1.0 LL			-	0.22 EQK-X	- 0.74 EQK-Y
COMB 16	=	+	1.2 DO	+	0.9 DL					+	0.74 EQK-X	+ 0.22 EQK-Y
COMB 17	=	+	1.2 DO	+	0.9 DL					+	0.74 EQK-X	- 0.22 EQK-Y
COMB 18	=	+	1.2 DO	+	0.9 DL					-	0.74 EQK-X	+ 0.22 EQK-Y
COMB 19	=	+	1.2 DO	+	0.9 DL					-	0.74 EQK-X	- 0.22 EQK-Y
COMB 20	=	+	1.2 DO	+	0.9 DL					+	0.22 EQK-X	+ 0.74 EQK-Y
COMB 21	=	+	0.9 DO	+	0.9 DL					-	0.22 EQK-X	- 0.74 EQK-Y
COMB 22	=	+	0.9 DO	+	0.9 DL					+	0.22 EQK-X	+ 0.74 EQK-Y
COMB 23	=	+	0.9 DO	+	0.9 DL					-	0.22 EQK-X	- 0.74 EQK-Y

ENVOLVENTE= COMB1+COMB2+COMB3+COMB4+COMB5+COMB6+COMB7+COMB8+COMB9+COMB10+COMB11+COMB12+COMB13+COMB14+COMB15+COMB16+COMB17+COMB18+COMB19+COMB20+COMB21+COMB22+COMB23

10 ANALISIS SISMICO

ANÁLISIS SÍSMICO

El Analisis Sísmico se realizará por el método de la Fuerza Horizontal Equivalente. El programa de análisis estructural SAP2000 v20 realiza diréctamente el análisis sísmico utilizando Las fuerzas elásticas de diseño construidas con los siguientes parámetros:

Generalidades :

Localización	=	**ACACIAS - META**	
Código Municipio	=	**50006**	
Tipo de Suelo	=	**D**	(Según Estudio de Suelos)
Grupo de Importancia	=	**1**	Estructuras de ocupación normal
Sistema Estructural	=	**Estructuras de parques de diversion o de monumentos (AIS-180-13)**	
Zona de Amenaza Sísmica	=	**Alta**	
Capacidad de disipación de Energía	=	**DES**	Capacidad especial de disipación de energía

Parámetros Sísmicos:

I	=	**1.00**	Coeficiente de Importancia
Aa	=	**0.30**	Coeficiente de aceleración horizontal pico efectiva
Fa	=	**1.20**	Coeficiente de amplificación
Av	=	**0.30**	Coeficiente de velocidad horizontal pico efectiva
Fv	=	**1.80**	Coeficiente de amplificación

Peso por nivel para el Análisis Sísmico:

NIVEL	C.S. (T/m²)	Area (m^2)	Masa (kg)
N+7.25	0.041	271.87	11019.38
		Σ	11019.38

MÉTODO DE LA FUERZA HORIZONTAL EQUIVALENTE [FHE]

Periodo Fundamental de la Estructura T :

Tx	=	**0.3490 seg**	(Obtenido del Análisis modal de la estructura)
Ty	=	**0.3450 seg**	(Obtenido del Análisis modal de la estructura)

Cálculo del periodo aproximado Ta:

Ta	=	$C_t h_n^{\wedge(\alpha)}$	
Ct	=	**0.072**	(Pórticos de acero estructural)
α	=	**0.80**	(Pórticos de acero estructural)
hn	=	**7.25 m**	
Ta	=	**0.351 seg**	(Periodo aproximado)

CuTa :

Cu	=	**1.102**	≤	**1.20**
Cu (def)	=	**1.20**		
Cu.Ta	=	**0.421 seg**		

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El periodo T no debe exceder CuTa :

T	≤	CuTa	
0.3490 seg	≤	0.421 seg	OK
T (def)	=	0.349 seg	Periodo definitivo para el análisis)

Cálculo de To, Tc y TL:

$$T_0 = 0.1\frac{A_v F_v}{A_a F_a} = 0.150 \text{ seg}$$

$$T_C = 0.48\frac{A_v F_v}{A_a F_a} = 0.720 \text{ seg}$$

$$T_L = 2.4 F_v = 4.320 \text{ seg}$$

Máxima aceleración horizontal de diseño Sa:

$S_a = 2.5 A_a F_a I$: (Para periodos de vibración menores a Tc) = 0.9000

$S_a = \frac{1.2 A_v F_v I}{T}$: (Para periodos de vibración entre Tc y TL) = 0.9000

$S_a = \frac{1.2 A_v F_v T_L I}{T^2}$: (Para periodos de vibración mayores a TL) = 0.1500

Como : T < Tc Entonces : Sa = 2.5 Aa Fa I

Sa = 0.9000 (Máxima Aceleración horizontal de diseño)

Cortante Sísmico en la base Vs :

$$V_S = S_a\, g\, M = 9.92 \text{ Ton}$$

Cálculo de la fuerza Sísmica :

CÁLCULO DE LA FUERZA SISMICA POR NIVEL									
NIVEL	W(T)	hi (m)	hn(m)	K	hn^k	Mn*hn^k	Cvn	Fx,y (Ton)	Fx,y (KN)
N+7.25	11.02	7.25	7.25	1.000	7.25	79.89	1.00	9.92	99.17
Σ	11.02					79.89	1.00	9.92	99.17

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ANÁLISIS SÍSMICO - MÉTODO DE LA FUERZA HORIZONTAL EQUIVALENTE FHE

LOCALIZACIÓN GEOGRÁFICA Y PARÁMETROS SÍSMICOS

Municipio:	Acacias	
Departamento:	Meta	
Perfil del suelo:	D	
Aa	0.30	Coeficiente de aceleración pico espectral
Av	0.30	Coeficiente de velocidad pico espectral
Fa	1.20	Coeficiente que modifica la aceleración pico espectral
Fv	1.80	Coeficiente que modifica la velocidad pico espectral
I	1.00	Coeficiente de importancia
Ta (s)	0.35	Periodo aproximado de la estructura
T_0 (s)	0.15	Periodo inicial
T_C (s)	0.72	Periodo corto
T_L (s)	4.32	Periodo largo

MASA Y PERIODO DE LA ESTRUCTURA

W (kN)	110.19	Peso de la estructura
m (Ton)	11.23	Masa de la estructura
T (s)	0.349	Periodo fundamental de vibración

ANÁLISIS FHE

Sist. Est.	PRM acero	Sistema estructural
h_n (m)	7.25	Altura de la estructura
c_t	0.072	coeficiente para el calculo del periodo
α	0.80	coeficiente para el calculo del periodo
Ta (s)	0.351	Periodo aproximado de la estructura
Cu	1.10	coeficiente para el calculo del periodo
Cu mínimo	1.20	coeficiente mínimo para el cálculo del periodo
Cu (diseño)	1.20	coeficiente de diseño para el cálculo del periodo
CuTa	0.421	valor máximo del periodo fundamental
T_0 (s)	0.15	Periodo inicial
Tc (s)	0.72	Periodo corto
T_L (s)	4.32	Periodo Largo
k	1.00	valor que se relaciona con el periodo fundamental T
Sa (g)	0.9000	Pseudo aceleración
Vs (kN)	99.17	Cortante basal

CÁLCULO DE FUERZAS SÍSIMICAS EQUIVALENTES

Nivel	Masa (Ton)	h (m)	h^k (m)	$m \cdot h^k$ (Ton·m)	Cvx	Fs (kN)	Vs (kN)
N+7.25	11.02	7.25	7.25	79.89	1.00	99.17	99.17
Σ	**11.02**	**-**		**79.89**	**1.00**	**99.17**	**-**

ANALISIS SISMICO - AJUSTE DEL ANALISIS MODAL SEGUN A.5 NSR-10

PERIODO APROXIMADO Y CORTANTES BASAL

T_a (s)	0.351	Periodo aproximado
C_u	1.20	Coeficiente utilizado para calcular el periodo máximo permisible
C_uT_a	0.421	Valor máximo del periodo permitido según A.4.2.1
Vs_{FHE} (kN)	99.17	Cortante basal calculado por el método FHE
Tx (s)	0.349	Cumple
Ty (s)	0.345	Cumple

NOTA. SE TOMA EL VALOR DE CU*Ta para el calculo de las fuerzas sismicas

RESULTADO DEL CORTANTE BASAL DEL MODELO MATEMATICO

Sa_X (g)	0.900	Pseudo aceleración (calculada para la dirección X)
Sa_Y (g)	0.900	Pseudo aceleración (calculada para la dirección Y)
Vs_X (kN)	99.17	Cortante basal (calculado en el modelo para la dirección X)
Vs_Y (kN)	99.17	Cortante basal (calculado en el modelo para la dirección Y)

RESULTADOS OBTENIDOS DEL ANÁLISIS MODAL PARA EL SISMO EN X

Vx (kN)	81.00	Cortante modal en la dirección X
Vy (kN)	85.05	Cortante modal en la dirección Y
V_{XR} (kN)	117.45	Combinación SRSS

RESULTADOS OBTENIDOS DEL ANÁLISIS MODAL PARA EL SISMO EN Y

Vx (kN)	58.50	Cortante modal en la dirección X
Vy (kN)	37.05	Cortante modal en la dirección Y
V_{YR} (kN)	69.25	Combinación SRSS

La estructura es regular? Si

AJUSTE DEL ANÁLISIS MODAL

Vx (kN)	81.00	Cortante modal en la dirección X (corregido)
Vy (kN)	79.34	Cortante modal en la dirección Y (corregido)
Factor X	9.81	Factor de ajuste en la dirección X
Factor Y	11.240	Factor de ajuste en la dirección Y

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11 DESPLAZAMIENTOS HORIZONTALES

Las derivas de diseño límite para esta estructura se fijaron de acuerdo con el parágrafo A.6.4.1 NSR-10 como el 1.0% de la altura del piso.

A.6.4.1 - La deriva máxima para cualquier piso determinada de acuerdo con el procedimiento de A.6.3.1, no puede exceder los límites establecidos en la tabla A.6.4-1 en la cual la deriva máxima se expresa como un porcentaje de la altura de piso hpi:

Tabla A.6.4-1 Derivas máximas como porcentaje de h_{pi}

Estructura de:	*Deriva máxima*
Concreto reforzado, metálicas, de madera, y de mampostería que cumplen los requisitos de A.6.4.2.2	$1.0\%\left(\Delta'_{max} \le 0.01 h_{pi}\right)$
De mampostería que cumplen los requisitos de A.6.4.2.3	$0.5\%\left(\Delta'_{max} \le 0.005 h_{pi}\right)$

A.6.2.1.2 — En las edificaciones pertenecientes a los grupos de uso II, III y IV, para la determinación de las fuerzas horizontales que se empleen para calcular los desplazamientos horizontales en el centro de masa, se permite que el coeficiente de importancia I, tenga un valor igual a la unidad (I=1.0), y las fuerzas de diseño a emplear para obtener la resistencia de la estructura deben utilizar el valor del coeficiente de importancia I correspondiente al grupo de uso de la edificación, tal como se define en A.2.5.2.

NOMENCLATURA

DO: Peso propio de la estructura metálica.
DL: Cargas muertas gravitacionales generadas por el peso de cubierta y otras.
LL: Carga viva de Cubierta
WL: Carga de viento
EQK-X: Espectro sismo dirección X
EQK-Y: Espectro sismo dirección Y

COMBINACIONES PARA CHEQUEO DE DERIVAS

Der01: 1.2 DL + 1.2 DO + 1.00 LL + 1.00 EQK-X
Der02: 1.2 DL + 1.2 DO + 1.00 LL - 1.00 EQK-X
Der03: 1.2 DL + 1.2 DO + 1.00 LL + 1.00 EQK-Y
Der04: 1.2 DL + 1.2 DO + 1.00 LL - 1.00 EQK-Y
Der05: 0.9 DL + 0.9 DO + 1.00 EQK-X
Der06: 0.9 DL + 0.9 DO - 1.00 EQK-X
Der07: 0.9 DL + 0.9 DO + 1.00 EQK-Y
Der08: 0.9 DL + 0.9 DO - 1.00 EQK-Y

11.1 RESULTADO DERIVAS

11.1.1 Derivas sentido x

ANALISIS DE DERIVAS X

NIVEL O PISO	NIVEL (m)	ALTURA DE PISO (m)	NODO	DESP. REAL X (cm)	DESP. REAL Y (cm)	DERIVA cm	ADMISIBLE cm	%	
SENTIDO X-X (1)									
N+7.25	7.25	7.25	17	0.001	2.795	2.795	7.250	0.386	OK
SENTIDO X-X (2)									
N+7.25	7.25	7.25	173	0.000	2.500	2.500	7.250	0.345	OK
SENTIDO X-X (3)									
N+7.25	7.25	7.25	4	0.001	2.489	2.489	7.250	0.343	OK
SENTIDO X-X (4)									
N+7.25	7.25	7.25	169	0.000	2.795	2.795	7.250	0.386	OK

11.1.2 Derivas sentido y

ANALISIS DE DERIVAS Y

NIVEL O PISO	NIVEL (m)	ALTURA DE PISO (m)	NODO	DESP. REAL X (cm)	DESP. REAL Y (cm)	DERIVA cm	ADMISIBLE cm	%	
SENTIDO Y-Y (1)									
CUBIERTA	7.25	7.25	17	0.00	10.79	10.788	7.25	1.488	NO CUMPLE
SENTIDO Y-Y (2)									
CUBIERTA	7.25	7.25	173	0.00	13.68	13.676	7.25	1.886	NO CUMPLE
SENTIDO Y-Y (3)									
CUBIERTA	7.25	7.25	4	0.00	13.68	13.676	7.25	1.886	NO CUMPLE
SENTIDO Y-Y (4)									
CUBIERTA	7.25	7.25	169	0.00	10.79	10.788	7.25	1.488	NO CUMPLE

La máxima máxima establecida en la NSR-10 la cual es del 1.00%, de igual manera es importante en este punto hacer referencia al documento publicado por ASCE, American Society of Civil Engineers "Minimum Design Loads for Buildings and Other Structures" documento que hace parte de la normativa Estado unidense y que sirvió de base para la redacción de la NSR-10.

A su vez, El siguiente aspecto que determina el diseño estructural son las derivas, para su determinación se siguieron el procedimiento indicado en la NSR-10 en los numerales A.6.3 y A.6.4. También se tienen en cuenta los efectos de segundo orden P-Delta. Los desplazamientos totales a partir de los cuales se calcularon tales derivas se obtuvieron por el programa SAP2000.
De acuerdo al apéndice A-1.4 en la NSR-10 "los límites de la deriva deben ser establecidos por el diseñador tomando en cuenta el peligro que represente para la vida la falla de elementos estructurales y no estructurales", para este caso Dmáxima = 1.132%, sin embargo, es importante en este punto hacer referencia al documento publicado por ASCE, American Society of Civil Engineers "Minimum Design Loads for Buildings and Other Structures" documento que hace parte de la normativa estadounidense y que sirvió de base para la redacción de la NSR-10.

Chapter 15

SEISMIC DESIGN REQUIREMENTS FOR NONBUILDING STRUCTURES

15.4 STRUCTURAL DESIGN REQUIREMENTS

15.4.5 Drift Limitations

The drift limitations of Section 12.12.1 need not apply to nonbuilding structures if a rational analysis indicates they can be exceeded without adversely affecting structural stability or attached or interconnected components and elements such as walkways and piping. P-delta effects shall be considered where critical to the function or stability of the structure.

12.12 DRIFT AND DEFORMATION

12.12.1 Story Drift Limit

The design story drift (Δ) as determined in Sections 12.8.6, 12.9.2, or 16.1, shall not exceed the allowable story drift (Δ_a) as obtained from Table 12.12-1 for any story.

12.12.1.1 Moment Frames in Structures Assigned to Seismic Design Categories D through F

For seismic force-resisting systems comprised solely of moment frames in structures assigned to Seismic Design Categories D, E, or F, the design story drift (Δ) shall not exceed Δ_a/ρ for any story. ρ shall be determined in accordance with Section 12.3.4.2.

La deriva máxima presentada en el análisis es aceptable en mi criterio como diseñador dado que este tipo de estructura (cerramiento) tiene un uso muy diferente al de un edificio, lo que implica la no necesidad de controlar deflexiones encaminadas a controlar el daño de los elementos no estructurales. El anterior segmento de texto fue extraído del código *AISC-SEI-7-10* que regula las cargas mínimas que debe tener la estructura.

12 RESUMEN IRREGULARIDADES

Se debe clasificar como regular o como irregular en planta y en altura o como redundante o con ausencia de redundancia. Se sabe que no solamente es la forma exterior de ella y su tamaño, sino la naturaleza, las dimensiones y la localización de los elementos estructurales, y no estructurales, que afecten el comportamiento de la edificación ante las solicitaciones sísmicas.

12.1 IRREGULARIDADES EN PLANTA

La edificación se considera irregular cuando ocurra, véase la figura A.3-1, uno, o varios, de los casos descritos en la tabla A.3-6, donde se definen los valores de ϕp

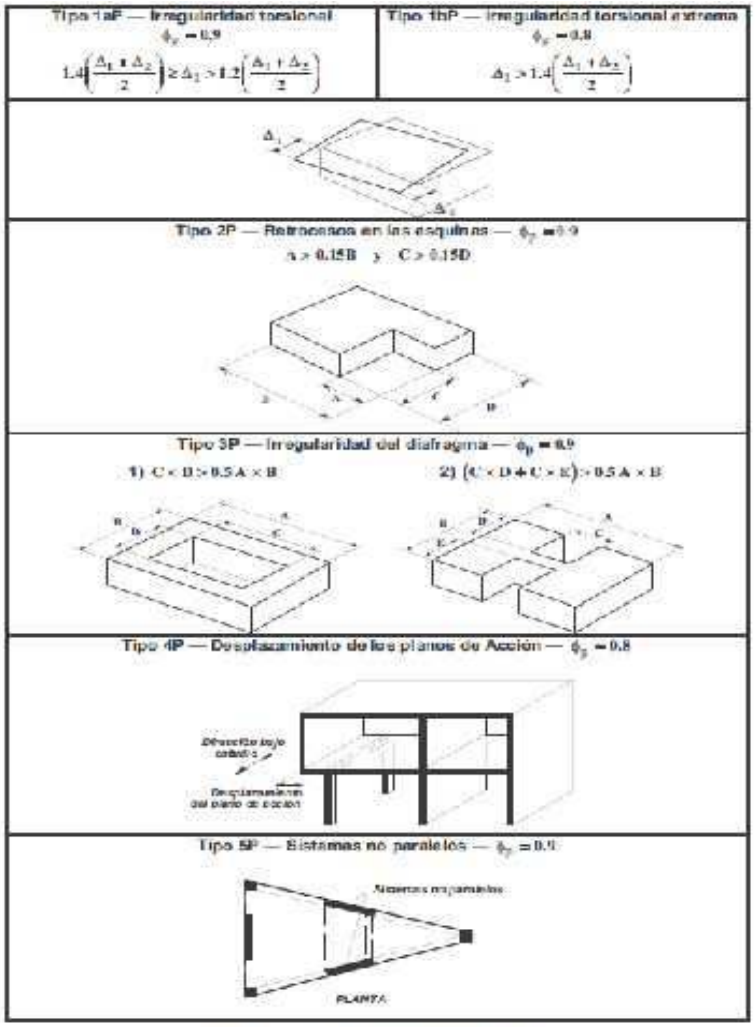
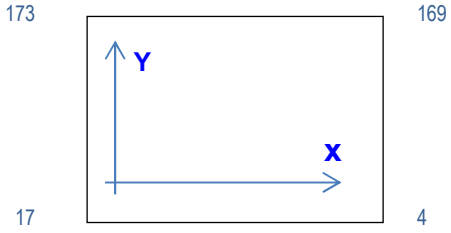


Figura A.3-1 — Irregularidades en planta

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12.2 CHEQUEO DE IRREGULARIDAD TORSIONAL

REVISION DE LA IRREGULARIDAD TORSIONAL



D= Deriva del análisis.

EQK-K LOAD CASE: Drift 1

NODOS		
CUBIERTA	173	169

Nivel	Δ1 [cm]	Δ2 [cm]	1.2x(Δ1+ Δ2) / 2		1.4x(Δ1+ Δ2) / 2		Ax
CUBIERTA	2.500	2.795	3.177	OK	2.040	OK	0.774

NODOS		
CUBIERTA	17	4

Nivel	Δ1 [cm]	Δ2 [cm]	1.2x(Δ1+ Δ2) / 2		1.4x(Δ1+ Δ2) / 2		Ax
CUBIERTA	2.795	2.489	3.171	OK	3.200	OK	0.777

EQK-Y LOAD CASE: Drift 3

NODOS		
CUBIERTA	169	4

Nivel	Δ1 [cm]	Δ2 [cm]	1.2x(Δ1+ Δ2) / 2		1.4x(Δ1+ Δ2) / 2		Ax
CUBIERTA	10.788	13.676	14.679	OK	2.040	OK	0.868

NODOS		
CUBIERTA	173	17

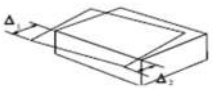
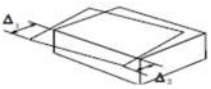
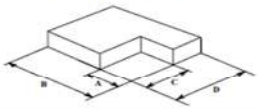
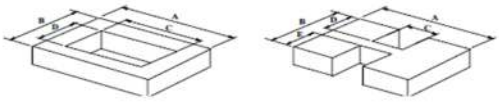
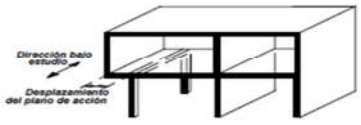
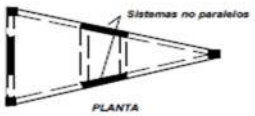
Nivel	Δ1 [cm]	Δ2 [cm]	1.2x(Δ1+ Δ2) / 2		1.4x(Δ1+ Δ2) / 2		Ax
CUBIERTA	13.676	10.788	14.679	OK	3.200	OK	0.868

12.3 RESUMEN DE IRREGULARIDADES EN PLANTA

CHEQUEO DE LAS IRREGULARIDADES DE LA ESTRUCTURA

PROYECTO	MURO CONTRA IMPACTO
LOCALIZACION	ACACIAS (META)

TABLA A.3-6 IRREGULARIDADES EN PLANTA

TIPO	DESCRIPCION DE LA IRREGULARIDAD EN PLANTA			
1aP	**Irregularidad torsional** – La irregularidad torsional existe cuando en una edificación con diafragma rígido, la máxima deriva de piso de un extremo de la estructura, calculada incluyendo la torsión accidental y medida perpendicularmente a un eje determinado, es más de 1.2 y menor o igual a 1.4 veces la deriva promedio de los dos extremos de la estructura, con respecto al mismo eje de referencia.	Tipo 1aP — Irregularidad torsional $\phi_p = 0.9$ $1.4\left(\frac{\Delta_1+\Delta_2}{2}\right) \geq \Delta_1 > 1.2\left(\frac{\Delta_1+\Delta_2}{2}\right)$ 	SI / NO: X DIRECCION: X / Y Φpx: 1.00 Φpy: 1.00 La estructura no presenta irregularidad en planta tipo 1aP	
1bP	**Irregularidad torsional extrema** – La irregularidad torsional extrema existe cuando en una edificación con diafragma rígido, la máxima deriva de piso de un extremo de la estructura, calculada incluyendo la torsión accidental y medida perpendicularmente a un eje determinado, es más de 1.4 veces la deriva promedio de los dos extremos de la estructura, con respecto al mismo eje de referencia.	Tipo 1bP — Irregularidad torsional extrema $\phi_p = 0.8$ $\Delta_1 > 1.4\left(\frac{\Delta_1+\Delta_2}{2}\right)$ 	SI / NO: DIRECCION: X / Y X Φpx: 1.00 Φpy: 1.00 La estructura no presenta irregularidad en planta tipo 1bP	
2P	**Retrocesos excesivos en las esquinas** – La configuración de una estructura se considera irregular cuando ésta tiene retrocesos excesivos en sus esquinas. Un retroceso en una esquina se considera excesivo cuando las proyecciones de la estructura, a ambos lados del retroceso, son mayores que el 15 por ciento de la dimensión de la planta de la estructura en la dirección del retroceso.	Tipo 2P — Retrocesos en las esquinas — $\phi_p = 0.9$ $A > 0.15B$ y $C > 0.15D$ 	A: 0.00 B: 0.00 C: 0.00 D: 0.00 Φp: 1.00 La estructura no presenta irregularidad en planta tipo 2P	
3P	**Discontinuidades en el diafragma** – Cuando el diafragma tiene discontinuidades apreciables o variaciones en su rigidez, incluyendo las causadas por aberturas, entradas, retrocesos o huecos con áreas mayores al 50 por ciento del área bruta del diafragma o existen cambios en la rigidez efectiva del diafragma de más del 50 por ciento, entre niveles consecutivos, la estructura se considera irregular.	Tipo 3P — Irregularidad del diafragma — $\phi_p = 0.9$ 1) $C \times D > 0.5A \times B$ 2) $(C \times D + C \times E) > 0.5A \times B$ 	A: 0.00 B: 0.00 C: 0.00 D: 0.00 E: 0.00 Φp: 1.00 La estructura no presenta irregularidad en planta tipo 3P	
4P	**Desplazamientos del plano de acción de elementos verticales** – La estructura se considera irregular cuando existen discontinuidades en las trayectorias de las fuerzas inducidas por los efectos sísmicos, tales como cuando se traslada el plano que contiene a un grupo de elementos verticales del sistema de resistencia sísmica, en una dirección perpendicular a él, generando un nuevo plano. Los altillos o manzardas de un solo piso se eximen de este requisito en la consideración de irregularidad.	Tipo 4P — Desplazamiento de los planos de Acción — $\phi_p = 0.8$ 	SI / NO: X DIRECCION: X / Y Φpx: 1.00 Φpy: 1.00 La estructura no presenta irregularidad en planta tipo 4P	
5P	**Sistemas no paralelos** – Cuando las direcciones de acción horizontal de los elementos verticales del sistema de resistencia sísmica no son paralelas o simétricas con respecto a los ejes ortogonales horizontales principales del sistema de resistencia sísmica, la estructura se considera irregular.	Tipo 5P — Sistemas no paralelos — $\phi_p = 0.9$ 	SI / NO: X DIRECCION: X / Y Φpx: 1.00 Φpy: 1.00 La estructura no presenta irregularidad en planta tipo 5P	
			Φpx: 1.00 Φpy: 1.00	

12.4 IRREGULARIDADES EN ALTURA

Una edificación se clasifica como irregular en altura, véase la figura A.3-2, cuando ocurre uno, o varios, de los casos descritos en la tabla A.3-7, donde se definen los valores de ϕa.

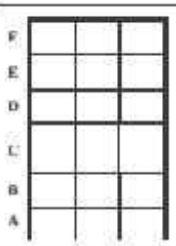
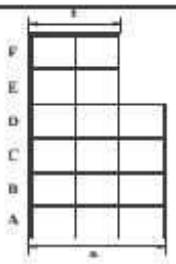
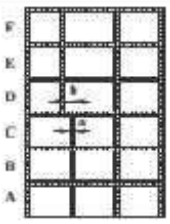
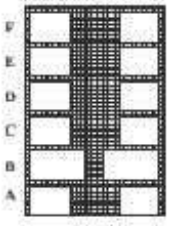
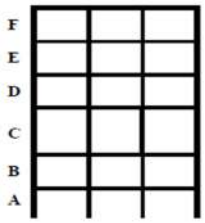
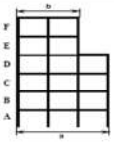
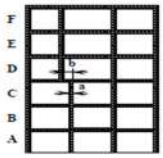
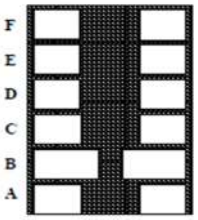
Tipo 1aA — Piso flexible $\phi_a = 0.9$ 0.60 Rigidez K_D < Rigidez K_C < 0.70 Rigidez K_D o 0.70 $(K_D+K_E+K_F)/3$ ≤ Rigidez K_C < 0.80 $(K_D+K_E+K_F)/3$	
Tipo 1bA — Piso flexible extremo $\phi_a = 0.8$ Rigidez K_C < 0.60 Rigidez K_D o Rigidez K_C < 0.70 $(K_E+K_F+K_F)/3$	
Tipo 2A — Distribución masa — $\phi_a = 0.9$ $m_d > 1.50\ m_E$ o $m_D > 1.50\ m_C$	
Tipo 3A — Geométrica — $\phi_a = 0.9$ a > 1.30 b	
Tipo 4A — Desplazamiento dentro del plano de acción — $\phi_a = 0.8$ b > a	
Tipo 5aA — Piso débil $\phi_a = 0.9$ 0.65 Resist. Piso C ≤ Resist. Piso B < 0.80 Resist. Piso C	
Tipo 5bA — Piso débil extremo $\phi_a = 0.8$ Resistencia Piso B < 0.65 Resistencia Piso C	

Figura A.3-2 — Irregularidades en la altura

12.5 RESUMEN DE IRREGUARIDAD EN ALTURA

TABLA A.3-7 IRREGULARIDADES EN ALTURA

TIPO	DESCRIPCION DE LA IRREGULARIDAD EN ALTURA		
1aA	**Piso flexible (Irregularidad en rigidez)** — Cuando la rigidez ante fuerzas horizontales de un piso es menor del 70 por ciento pero superior o igual al 60 por ciento de la rigidez del piso superior o menor del 80 por ciento pero superior o igual al 70 por ciento del promedio de la rigidez de los tres pisos superiores, la estructura se considera irregular.	Tipo 1aA — Piso flexible $\phi_a = 0.9$ $0.60\ \text{Rigidez}\ K_D \le \text{Rigidez}\ K_C < 0.70\ \text{Rigidez}\ K_D$ o $0.70\ (K_D+K_E+K_F)/3 \le \text{Rigidez}\ K_C < 0.80\ (K_D+K_E+K_F)/3$	
1bA	**Piso flexible (Irregularidad extrema en rigidez)** — Cuando la rigidez ante fuerzas horizontales de un piso es menor del 60 por ciento de la rigidez del piso superior o menor del 70 por ciento del promedio de la rigidez de los tres pisos superiores, la estructura se considera irregular.	Tipo 1bA — Piso flexible extremo $\phi_a = 0.8$ $\text{Rigidez}\ K_C < 0.60\ \text{Rigidez}\ K_D$ o $\text{Rigidez}\ K_C < 0.70\ (K_D+K_E+K_F)/3$	
2A	**Irregularidad en la distribución de las masas** — Cuando la masa, **mi**, de cualquier piso es mayor que 1.5 veces la masa de uno de los pisos contiguos, la estructura se considera irregular. Se exceptúa el caso de cubiertas que sean más livianas que el piso de abajo.	Tipo 2A — Distribución masa — $\phi_a = 0.9$ $m_D > 1.50\ m_E$ o $m_D > 1.50\ m_C$	
3A	**Irregularidad geométrica** — Cuando la dimensión horizontal del sistema de resistencia sísmica en cualquier piso es mayor que 1.3 veces la misma dimensión en un piso adyacente, la estructura se considera irregular. Se exceptúa el caso de los altillos de un solo piso.	Tipo 3A — Geométrica — $\phi_a = 0.9$ $a > 1.30\ b$	
4A	**Desplazamientos dentro del plano de acción** — La estructura se considera irregular cuando existen desplazamientos en el alineamiento de elementos verticales del sistema de resistencia sísmica, dentro del mismo plano que los contiene, y estos desplazamientos son mayores que la dimensión horizontal del elemento. Cuando los elementos desplazados solo sostienen la cubierta de la edificación sin otras cargas adicionales de tanques o equipos, se eximen de esta consideración de irregularidad.	Tipo 4A — Desplazamiento dentro del plano de acción — $\phi_a = 0.8$ $b > a$	
5aA	**Piso débil — Discontinuidad en la resistencia** — Cuando la resistencia del piso es menor del 80 por ciento de la del piso inmediatamente superior pero superior o igual al 65 por ciento, entendiendo la resistencia del piso como la suma de las resistencias de todos los elementos que comparten el cortante del piso para la dirección considerada, la estructura se considera irregular.	Tipo 5aA — Piso débil $\phi_a = 0.9$ $0.65\ \text{Resist. Piso C} \le \text{Resist. Piso B} < 0.80\ \text{Resist. Piso C}$	
5bA	**Piso débil — Discontinuidad extrema en la resistencia** — Cuando la resistencia del piso es menor del 65 por ciento de la del piso inmediatamente superior, entendiendo la resistencia del piso como la suma de las resistencias de todos los elementos que comparten el cortante del piso para la dirección considerada, la estructura se considera irregular.	Tipo 5bA — Piso débil extremo $\phi_a = 0.8$ $\text{Resistencia Piso B} < 0.65\ \text{Resistencia Piso C}$	

SI	NO
	X
DIRECCION	
X	Y
Φax	1.00
Φay	1.00

La estructura no presenta irregularidad en planta tipo 1aA

SI	NO
	X
DIRECCION	
X	Y
Φax	1.00
Φay	1.00

La estructura no presenta irregularidad en planta tipo 1bA

SI	NO
	X
Φa	1.00

La estructura no presenta irregularidad en planta tipo 2A

Ax	0.00
Bx	0.00
Ay	0.00
By	0.00
Φax	1.00
Φay	1.00

La estructura no presenta irregularidad en planta tipo 3A

Ax	0.00
Bx	0.00
Ay	0.00
By	0.00
Φax	1.00
Φay	1.00

La estructura no presenta irregularidad en planta tipo 4A

R piso Bx	0.00
R piso Cx	0.00
R piso By	0.00
R piso Cy	0.00
Φax	1.00
Φay	1.00

La estructura no presenta irregularidad en planta tipo 5aA

R piso Bx	0.00
R piso Cx	0.00
R piso By	0.00
R piso Cy	0.00
Φax	1.00
Φay	1.00

La estructura no presenta irregularidad en planta tipo 5bA

Φax	1.00
Φay	1.00

12.6 AUSENCIA DE REDUNDANCIA

Debe asignarse un factor de reducción de resistencia por ausencia de redundancia en el sistema estructural de resistencia sísmica, ϕr , en las dos direcciones principales en planta de la siguiente manera:

A.3.3.8.1 — En edificaciones con un sistema estructural con capacidad de disipación de energía mínima (DMI) — Para edificaciones cuyo sistema estructural de resistencia sísmica es de un material que cumple los requisitos de capacidad de disipación de energía mínima (DMI) el valor del factor de reducción de resistencia por ausencia de redundancia en el sistema estructural de resistencia sísmica, ϕr , se le asigna un valor de la unidad ϕr=1.0" .

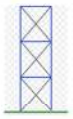
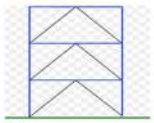
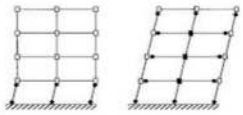
A.3.3.8.2 — En edificaciones con un sistema estructural con capacidad de disipación de energía moderada (DMO) y especial (DES) — Para edificaciones cuyo sistema estructural es de un material que cumple los requisitos de capacidad de disipación de energía moderada (DMO) o especial (DES) el valor del factor de reducción de resistencia por ausencia de redundancia en el sistema estructural de resistencia sísmica, ϕr , se le puede asignar un valor de la unidad ϕr=1.0 cuando en todos los pisos que resistan más del 35 por ciento del corte basal en la dirección bajo estudio el sistema estructural de resistencia sísmica cumpla las siguientes condiciones de redundancia:

a) En sistemas compuestos por pórticos con arriostramientos concéntricos.
b) En sistemas compuestos por pórticos con arriostramientos excéntricos.
c) En sistemas de pórtico resistente a momentos.
d) En sistemas con muros estructurales de concreto estructural.
e) Para otros sistemas.

En los sistemas estructurales que no cumplan las condiciones enunciadas en (a) a (d) el factor de reducción de resistencia por ausencia de redundancia en el sistema estructural de resistencia sísmica, ϕr , se le debe asignar un valor de ϕr=0.75 . Aunque no se cumplan las condiciones enunciadas en (a) a (d) el factor de reducción de resistencia por ausencia de redundancia en el sistema estructural de resistencia sísmica, ϕr , se le debe asignar un valor igual a la unidad ϕr=1.0" si todos los pisos que resistan más del 35 por ciento del corte basal en la dirección bajo estudio el sistema estructural de resistencia sísmica sean regulares en planta y tengan al menos dos vanos compuestos por elementos que sean parte del sistema de resistencia sísmica localizados en la periferia a

ambos lados de la planta en las dos direcciones principales. Cuando se trate de muros estructurales para efectos de contar el número de vanos equivalentes se calcula como la longitud horizontal del muro dividida por la altura del piso.

TABLA A.3-7 IRREGULARIDAD POR AUSENCIA DE REDUNDANCIA

TIPO	DESCRIPCION DE LA IRREGULARIDAD POR AUSENCIA DE REDUNDANCIA				
A.3.3.8.1	En edificaciones con un sistema estructural con capacidad de disipación de energía mínima (DMI) – Para edificaciones cuyo sistema estructural de resistencia sísmica es de un material que cumple los requisitos de capacidad de disipación de energía mínima (DMI) el valor del factor de reducción de resistencia por ausencia de redundancia en el sistema estructural de resistencia sísmica, φr , se le asigna un valor de la unidad φr=1.0			SI: X NO:	
				DIRECCION	
				X	Y
				Φrx	1.00
				Φry	1.00
				La estructura no presenta ausencia de redundancia	
A.3.3.8.2	En edificaciones con un sistema estructural con capacidad de disipación de energía moderada (DMO) y especial (DES) – Para edificaciones cuyo sistema estructural es de un material que cumple los requisitos de capacidad de disipación de energía moderada (DMO) o especial (DES) el valor del factor de reducción de resistencia por ausencia de redundancia en el sistema estructural de resistencia sísmica, φ , se le puede asignar un valor de la unidad (φr=1.0) cuando en todos los pisos que resistan más del 35 por ciento del corte basal en la dirección bajo estudio el sistema estructural de resistencia sísmica cumpla las siguientes condiciones de redundancia:	**(a). En sistemas compuestos por pórticos con arriostramientos concéntricos** – La falla de cualquiera de las diagonales o sus conexiones al pórtico no resulta en una reducción de más del 33 por ciento de la resistencia ante fuerzas horizontales del piso ni produce una irregularidad torsional en planta extrema (Tipo 1bP).		DIRECCION	
				X	Y
				Φrx	1.00
				Φry	1.00
				La estructura no presenta ausencia de redundancia	
		(b). En sistemas compuestos por pórticos con arriostramientos excéntricos – La pérdida de resistencia a momento (si se trata de vínculos a momento), o a cortante (para el caso de vínculos a corte), de los dos extremos de un vínculo no resulta en una reducción de más del 33 por ciento de la resistencia ante fuerzas horizontales del piso ni produce una irregularidad torsional en planta extrema (Tipo 1bP).		DIRECCION	
				X	Y
				X	X
				Φrx	0.75
				Φry	0.75
				La estructura presenta ausencia de redundancia	
		(c). En sistemas de pórtico resistente a momentos – La pérdida de la resistencia a momento en la conexión viga-columna de los dos extremos de una viga no resulta en una reducción de más del 33 por ciento de la resistencia ante fuerzas horizontales del piso ni produce una irregularidad torsional en planta extrema (Tipo 1bP).		DIRECCION	
				X	Y
				Φrx	1.00
				Φry	1.00
				La estructura no presenta ausencia de redundancia	
		(d). En sistemas con muros estructurales de concreto estructural – La falla de un muro estructural o de una porción de él que tengan una relación de la altura del piso a su longitud horizontal mayor de la unidad, o de los elementos colectores que lo conectan al diafragma, no resulta en una reducción de más del 33 por ciento de la resistencia ante fuerzas horizontales del piso ni produce una irregularidad torsional en planta extrema (Tipo 1bP).		DIRECCION	
				X	Y
				Φrx	1.00
				Φry	1.00
				La estructura no presenta ausencia de redundancia	
	En los sistemas estructurales que no cumplan las condiciones enunciadas en (a) a (d) el factor de reducción de resistencia por ausencia de redundancia en el sistema estructural de resistencia sísmica, φr , se le debe asignar un valor de φr=0.75. Aunque no se cumplan las condiciones enunciadas en (a) a (d) el factor de reducción de resistencia por ausencia de redundancia en el sistema estructural de resistencia sísmica, φr , se le debe asignar un valor igual a la unidad (φr=1.0), si todos los pisos que resistan más del 35 por ciento del corte basal en la dirección bajo estudio el sistema estructural de resistencia sísmica sean regulares en planta y tengan al menos dos vanos compuestos por elementos que sean parte del sistema de resistencia sísmica localizados en la periferia a ambos lados de la planta en las dos direcciones principales. Cuando se trate de muros estructurales para efectos de contar el número de vanos equivalentes se calcula como la longitud horizontal del muro dividida por la altura del piso.			SI	NO
				DIRECCION	
				X	Y
				Φrx	1.00
				Φry	1.00
				La estructura no presenta ausencia de redundancia	
				Φrx	0.75
				Φry	0.75

16. DATOS DE ENTRADA DEL MODELO MATEMÁTICO

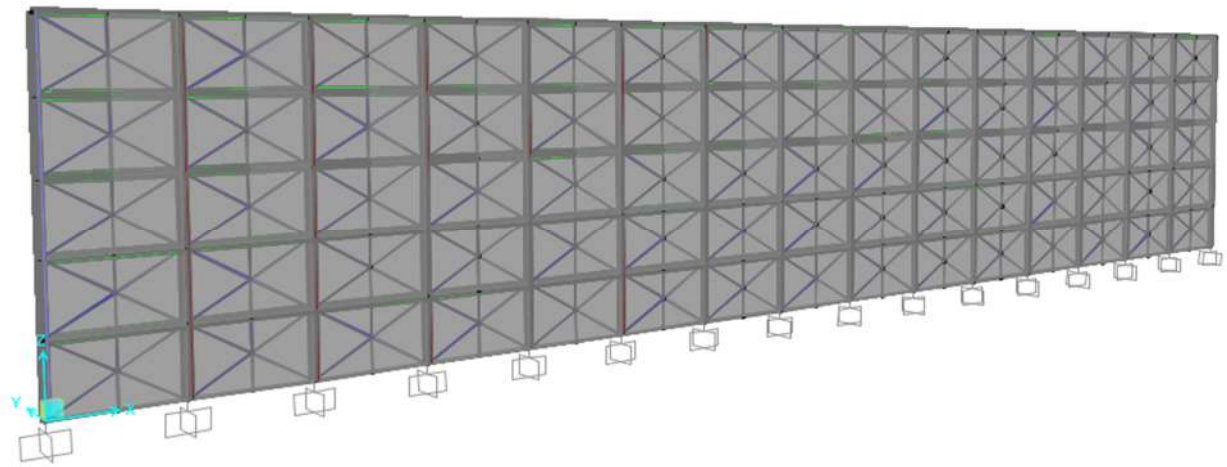


Imagen 3. Vista 3D Modelo matemático

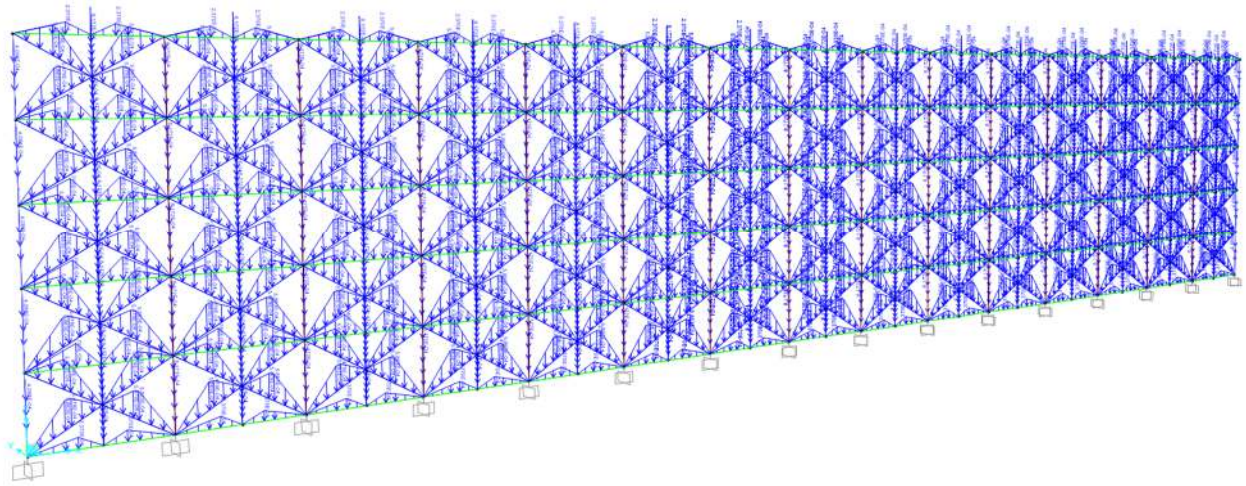


Imagen 4. Vista 3D Modelo matemático carga muerta aplicada

Calle 5ª No. 16ª – 34 Macunaima
Villavicencio, Meta
Celular: 311 441 9127
proyectos@coingest.com.co
wwww.coingest.com.co

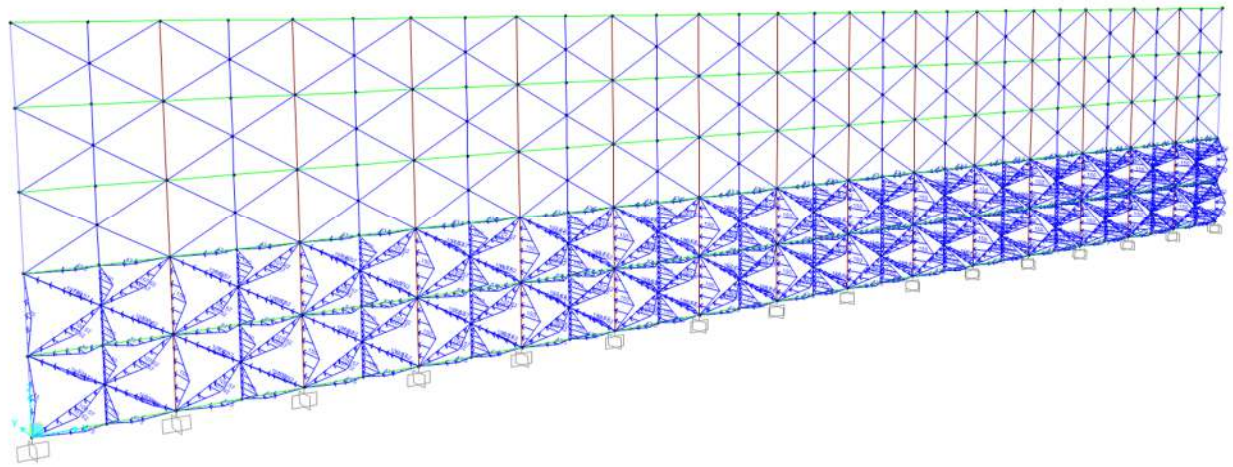


Imagen 5. Vista 3D Modelo matemático carga viva aplicada

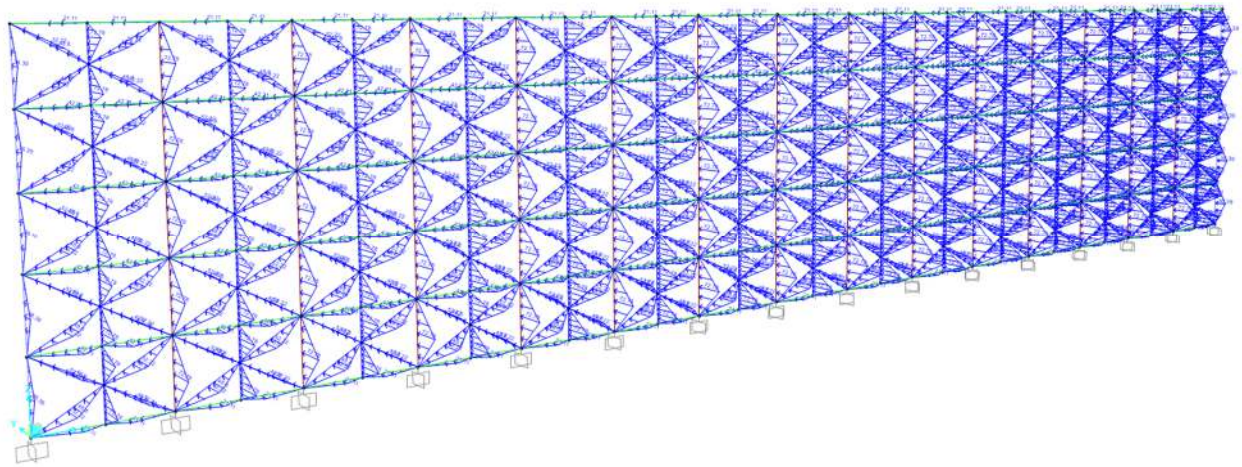


Imagen 6. Vista 3D Modelo matemático carga de viento aplicada

Calle 5ª No. 16ª – 34 Macunaima
Villavicencio, Meta
Celular: 311 441 9127
proyectos@coingest.com.co
wwww.coingest.com.co

Table: Area Loads - Uniform To Frame

Table: Area Loads - Uniform To Frame

Area	LoadPat	CoordSys	Dir	UnifLoad KN/m2	DistType
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1	LL	GLOBAL	Y	1.77	Two way
1	WL	GLOBAL	Y	0.86	Two way
2	DL	GLOBAL	Gravity	0.09807	Two way
2	LL	GLOBAL	Y	1.77	Two way
2	WL	GLOBAL	Y	0.86	Two way
3	DL	GLOBAL	Gravity	0.09807	Two way
3	WL	GLOBAL	Y	0.86	Two way
4	DL	GLOBAL	Gravity	0.09807	Two way
4	WL	GLOBAL	Y	0.86	Two way
5	DL	GLOBAL	Gravity	0.09807	Two way
5	WL	GLOBAL	Y	0.86	Two way
76	DL	GLOBAL	Gravity	0.09807	Two way
76	LL	GLOBAL	Y	1.77	Two way
76	WL	GLOBAL	Y	0.86	Two way
77	DL	GLOBAL	Gravity	0.09807	Two way
77	LL	GLOBAL	Y	1.77	Two way
77	WL	GLOBAL	Y	0.86	Two way
78	DL	GLOBAL	Gravity	0.09807	Two way
78	WL	GLOBAL	Y	0.86	Two way
79	DL	GLOBAL	Gravity	0.09807	Two way
79	WL	GLOBAL	Y	0.86	Two way
80	DL	GLOBAL	Gravity	0.09807	Two way
80	WL	GLOBAL	Y	0.86	Two way
81	DL	GLOBAL	Gravity	0.09807	Two way
81	LL	GLOBAL	Y	1.77	Two way
81	WL	GLOBAL	Y	0.86	Two way
82	DL	GLOBAL	Gravity	0.09807	Two way
82	LL	GLOBAL	Y	1.77	Two way
82	WL	GLOBAL	Y	0.86	Two way
83	DL	GLOBAL	Gravity	0.09807	Two way
83	WL	GLOBAL	Y	0.86	Two way
84	DL	GLOBAL	Gravity	0.09807	Two way
84	WL	GLOBAL	Y	0.86	Two way
85	DL	GLOBAL	Gravity	0.09807	Two way
85	WL	GLOBAL	Y	0.86	Two way
86	DL	GLOBAL	Gravity	0.09807	Two way
86	LL	GLOBAL	Y	1.77	Two way
86	WL	GLOBAL	Y	0.86	Two way
87	DL	GLOBAL	Gravity	0.09807	Two way
87	LL	GLOBAL	Y	1.77	Two way
87	WL	GLOBAL	Y	0.86	Two way

Table: Area Loads - Uniform To Frame

Area	LoadPat	CoordSys	Dir	UnifLoad KN/m2	DistType
88	DL	GLOBAL	Gravity	0.09807	Two way
88	WL	GLOBAL	Y	0.86	Two way
89	DL	GLOBAL	Gravity	0.09807	Two way
89	WL	GLOBAL	Y	0.86	Two way
90	DL	GLOBAL	Gravity	0.09807	Two way
90	WL	GLOBAL	Y	0.86	Two way
91	DL	GLOBAL	Gravity	0.09807	Two way
91	LL	GLOBAL	Y	1.77	Two way
91	WL	GLOBAL	Y	0.86	Two way
92	DL	GLOBAL	Gravity	0.09807	Two way
92	LL	GLOBAL	Y	1.77	Two way
92	WL	GLOBAL	Y	0.86	Two way
93	DL	GLOBAL	Gravity	0.09807	Two way
93	WL	GLOBAL	Y	0.86	Two way
94	DL	GLOBAL	Gravity	0.09807	Two way
94	WL	GLOBAL	Y	0.86	Two way
95	DL	GLOBAL	Gravity	0.09807	Two way
95	WL	GLOBAL	Y	0.86	Two way
96	DL	GLOBAL	Gravity	0.09807	Two way
96	LL	GLOBAL	Y	1.77	Two way
96	WL	GLOBAL	Y	0.86	Two way
97	DL	GLOBAL	Gravity	0.09807	Two way
97	LL	GLOBAL	Y	1.77	Two way
97	WL	GLOBAL	Y	0.86	Two way
98	DL	GLOBAL	Gravity	0.09807	Two way
98	WL	GLOBAL	Y	0.86	Two way
99	DL	GLOBAL	Gravity	0.09807	Two way
99	WL	GLOBAL	Y	0.86	Two way
100	DL	GLOBAL	Gravity	0.09807	Two way
100	WL	GLOBAL	Y	0.86	Two way
101	DL	GLOBAL	Gravity	0.09807	Two way
101	LL	GLOBAL	Y	1.77	Two way
101	WL	GLOBAL	Y	0.86	Two way
102	DL	GLOBAL	Gravity	0.09807	Two way
102	LL	GLOBAL	Y	1.77	Two way
102	WL	GLOBAL	Y	0.86	Two way
103	DL	GLOBAL	Gravity	0.09807	Two way
103	WL	GLOBAL	Y	0.86	Two way
104	DL	GLOBAL	Gravity	0.09807	Two way
104	WL	GLOBAL	Y	0.86	Two way
105	DL	GLOBAL	Gravity	0.09807	Two way
105	WL	GLOBAL	Y	0.86	Two way
106	DL	GLOBAL	Gravity	0.09807	Two way

Table: Area Loads - Uniform To Frame

Area	LoadPat	CoordSys	Dir	UnifLoad KN/m2	DistType
106	LL	GLOBAL	Y	1.77	Two way
106	WL	GLOBAL	Y	0.86	Two way
107	DL	GLOBAL	Gravity	0.09807	Two way
107	LL	GLOBAL	Y	1.77	Two way
107	WL	GLOBAL	Y	0.86	Two way
108	DL	GLOBAL	Gravity	0.09807	Two way
108	WL	GLOBAL	Y	0.86	Two way
109	DL	GLOBAL	Gravity	0.09807	Two way
109	WL	GLOBAL	Y	0.86	Two way
110	DL	GLOBAL	Gravity	0.09807	Two way
110	WL	GLOBAL	Y	0.86	Two way
111	DL	GLOBAL	Gravity	0.09807	Two way
111	LL	GLOBAL	Y	1.77	Two way
111	WL	GLOBAL	Y	0.86	Two way
112	DL	GLOBAL	Gravity	0.09807	Two way
112	LL	GLOBAL	Y	1.77	Two way
112	WL	GLOBAL	Y	0.86	Two way
113	DL	GLOBAL	Gravity	0.09807	Two way
113	WL	GLOBAL	Y	0.86	Two way
114	DL	GLOBAL	Gravity	0.09807	Two way
114	WL	GLOBAL	Y	0.86	Two way
115	DL	GLOBAL	Gravity	0.09807	Two way
115	WL	GLOBAL	Y	0.86	Two way
116	DL	GLOBAL	Gravity	0.09807	Two way
116	LL	GLOBAL	Y	1.77	Two way
116	WL	GLOBAL	Y	0.86	Two way
117	DL	GLOBAL	Gravity	0.09807	Two way
117	LL	GLOBAL	Y	1.77	Two way
117	WL	GLOBAL	Y	0.86	Two way
118	DL	GLOBAL	Gravity	0.09807	Two way
118	WL	GLOBAL	Y	0.86	Two way
119	DL	GLOBAL	Gravity	0.09807	Two way
119	WL	GLOBAL	Y	0.86	Two way
120	DL	GLOBAL	Gravity	0.09807	Two way
120	WL	GLOBAL	Y	0.86	Two way
121	DL	GLOBAL	Gravity	0.09807	Two way
121	LL	GLOBAL	Y	1.77	Two way
121	WL	GLOBAL	Y	0.86	Two way
122	DL	GLOBAL	Gravity	0.09807	Two way
122	LL	GLOBAL	Y	1.77	Two way
122	WL	GLOBAL	Y	0.86	Two way
123	DL	GLOBAL	Gravity	0.09807	Two way
123	WL	GLOBAL	Y	0.86	Two way

Table: Area Loads - Uniform To Frame

Area	LoadPat	CoordSys	Dir	UnifLoad KN/m2	DistType
124	DL	GLOBAL	Gravity	0.09807	Two way
124	WL	GLOBAL	Y	0.86	Two way
125	DL	GLOBAL	Gravity	0.09807	Two way
125	WL	GLOBAL	Y	0.86	Two way
126	DL	GLOBAL	Gravity	0.09807	Two way
126	LL	GLOBAL	Y	1.77	Two way
126	WL	GLOBAL	Y	0.86	Two way
127	DL	GLOBAL	Gravity	0.09807	Two way
127	LL	GLOBAL	Y	1.77	Two way
127	WL	GLOBAL	Y	0.86	Two way
128	DL	GLOBAL	Gravity	0.09807	Two way
128	WL	GLOBAL	Y	0.86	Two way
129	DL	GLOBAL	Gravity	0.09807	Two way
129	WL	GLOBAL	Y	0.86	Two way
130	DL	GLOBAL	Gravity	0.09807	Two way
130	WL	GLOBAL	Y	0.86	Two way
131	DL	GLOBAL	Gravity	0.09807	Two way
131	LL	GLOBAL	Y	1.77	Two way
131	WL	GLOBAL	Y	0.86	Two way
132	DL	GLOBAL	Gravity	0.09807	Two way
132	LL	GLOBAL	Y	1.77	Two way
132	WL	GLOBAL	Y	0.86	Two way
133	DL	GLOBAL	Gravity	0.09807	Two way
133	WL	GLOBAL	Y	0.86	Two way
134	DL	GLOBAL	Gravity	0.09807	Two way
134	WL	GLOBAL	Y	0.86	Two way
135	DL	GLOBAL	Gravity	0.09807	Two way
135	WL	GLOBAL	Y	0.86	Two way
136	DL	GLOBAL	Gravity	0.09807	Two way
136	LL	GLOBAL	Y	1.77	Two way
136	WL	GLOBAL	Y	0.86	Two way
137	DL	GLOBAL	Gravity	0.09807	Two way
137	LL	GLOBAL	Y	1.77	Two way
137	WL	GLOBAL	Y	0.86	Two way
138	DL	GLOBAL	Gravity	0.09807	Two way
138	WL	GLOBAL	Y	0.86	Two way
139	DL	GLOBAL	Gravity	0.09807	Two way
139	WL	GLOBAL	Y	0.86	Two way
140	DL	GLOBAL	Gravity	0.09807	Two way
140	WL	GLOBAL	Y	0.86	Two way
141	DL	GLOBAL	Gravity	0.09807	Two way
141	LL	GLOBAL	Y	1.77	Two way
141	WL	GLOBAL	Y	0.86	Two way

Table: Area Loads - Uniform To Frame

Area	LoadPat	CoordSys	Dir	UnifLoad KN/m2	DistType
142	DL	GLOBAL	Gravity	0.09807	Two way
142	LL	GLOBAL	Y	1.77	Two way
142	WL	GLOBAL	Y	0.86	Two way
143	DL	GLOBAL	Gravity	0.09807	Two way
143	WL	GLOBAL	Y	0.86	Two way
144	DL	GLOBAL	Gravity	0.09807	Two way
144	WL	GLOBAL	Y	0.86	Two way
145	DL	GLOBAL	Gravity	0.09807	Two way
145	WL	GLOBAL	Y	0.86	Two way

Table: Case - Response Spectrum 1 - General, Part 1 of 2

Table: Case - Response Spectrum 1 - General, Part 1 of 2

Case	ModalCombo	GMCf1 Cyc/sec	GMCf2 Cyc/sec	PerRigid	DirCombo	MotionType	DampingType
Sx	CQC	1	0	SRSS	SRSS	Acceleration	Constant
Sy	CQC	1	0	SRSS	SRSS	Acceleration	Constant

Table: Case - Response Spectrum 1 - General, Part 2 of 2

Table: Case - Response Spectrum 1 - General, Part 2 of 2

Case	ConstDamp	EccenRatio	NumOverride
Sx	0.05	0.05	0
Sy	0.05	0.05	0

Table: Frame Section Assignments

Table: Frame Section Assignments

Frame	SectionType	AutoSelect	AnalSect	DesignSect	MatProp
2	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
3	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
4	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
7	Section Designer	N.A.	PTE4"e=6.00mm+2 L2"X2"X1/4"	PTE4"e=6.00mm+2 L2"X2"X1/4"	Default
8	Section Designer	N.A.	PTE4"e=6.00mm+2 L2"X2"X1/4"	PTE4"e=6.00mm+2 L2"X2"X1/4"	Default

Table: Frame Section Assignments

Frame	SectionType	AutoSelect	AnalSect	DesignSect	MatProp
10	Section Designer	N.A.	PTE4"e=6.00mm+ L2"X2"X1/4"	PTE4"e=6.00mm+ L2"X2"X1/4"	Default
11	Section Designer	N.A.	PTE4"e=6.00mm+ L2"X2"X1/4"	PTE4"e=6.00mm+ L2"X2"X1/4"	Default
13	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
14	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
15	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
16	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
17	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
18	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
19	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
20	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
21	Section Designer	N.A.	PTE4"e=6.00mm+2 L2"X2"X1/4"	PTE4"e=6.00mm+2 L2"X2"X1/4"	Default
22	Section Designer	N.A.	PTE4"e=6.00mm+ L2"X2"X1/4"	PTE4"e=6.00mm+ L2"X2"X1/4"	Default
23	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
24	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
25	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
26	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
27	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
28	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
29	Section Designer	N.A.	PTE3"e=2.50mm+ L2"X2"X1/4"	PTE3"e=2.50mm+ L2"X2"X1/4"	Default
30	Section Designer	N.A.	PTE3"e=2.50mm+ L2"X2"X1/4"	PTE3"e=2.50mm+ L2"X2"X1/4"	Default
31	Section Designer	N.A.	PTE4"e=6.00mm+2 L2"X2"X1/4"	PTE4"e=6.00mm+2 L2"X2"X1/4"	Default
32	Section Designer	N.A.	PTE4"e=6.00mm+ L2"X2"X1/4"	PTE4"e=6.00mm+ L2"X2"X1/4"	Default
635	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
636	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
637	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
638	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
639	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
640	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
641	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
642	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
643	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
644	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
645	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
646	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default

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Table: Frame Section Assignments

Frame	SectionType	AutoSelect	AnalSect	DesignSect	MatProp
647	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
648	Angle	N.A.	L2"X2"X1/4"	L2"X2"X1/4"	Default
649	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
650	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
651	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
652	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
653	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
654	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
655	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
656	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
657	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
658	Section Designer	N.A.	PTE4"e=6.00mm+2 L2"X2"X1/4"	PTE4"e=6.00mm+2 L2"X2"X1/4"	Default
659	Section Designer	N.A.	PTE4"e=6.00mm+2 L2"X2"X1/4"	PTE4"e=6.00mm+2 L2"X2"X1/4"	Default
660	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
661	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
662	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
663	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
664	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
665	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
666	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
667	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
668	Section Designer	N.A.	PTE4"e=6.00mm+2 L2"X2"X1/4"	PTE4"e=6.00mm+2 L2"X2"X1/4"	Default
669	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
670	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
671	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
672	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
673	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
674	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
675	Section Designer	N.A.	PTE3"e=2.50mm+ L2"X2"X1/4"	PTE3"e=2.50mm+ L2"X2"X1/4"	Default
676	Section Designer	N.A.	PTE3"e=2.50mm+ L2"X2"X1/4"	PTE3"e=2.50mm+ L2"X2"X1/4"	Default
677	Section Designer	N.A.	PTE4"e=6.00mm+2 L2"X2"X1/4"	PTE4"e=6.00mm+2 L2"X2"X1/4"	Default
678	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
679	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
680	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default

Table: Frame Section Assignments

Frame	SectionType	AutoSelect	AnalSect	DesignSect	MatProp
681	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
682	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
683	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
684	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
685	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
686	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
687	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
688	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
689	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
690	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
691	Angle	N.A.	L2"X2"X1/4"	L2"X2"X1/4"	Default
692	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
693	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
694	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
695	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
696	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
697	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
698	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
699	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
700	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
701	Section Designer	N.A.	PTE4"e=6.00mm+2 L2"X2"X1/4"	PTE4"e=6.00mm+2 L2"X2"X1/4"	Default
702	Section Designer	N.A.	PTE4"e=6.00mm+2 L2"X2"X1/4"	PTE4"e=6.00mm+2 L2"X2"X1/4"	Default
703	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
704	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
705	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
706	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
707	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
708	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
709	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
710	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
711	Section Designer	N.A.	PTE4"e=6.00mm+2 L2"X2"X1/4"	PTE4"e=6.00mm+2 L2"X2"X1/4"	Default
712	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
713	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
714	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
715	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
716	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default

Table: Frame Section Assignments

Frame	SectionType	AutoSelect	AnalSect	DesignSect	MatProp
717	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
718	Section Designer	N.A.	PTE3"e=2.50mm+ L2"X2"X1/4"	PTE3"e=2.50mm+ L2"X2"X1/4"	Default
719	Section Designer	N.A.	PTE3"e=2.50mm+ L2"X2"X1/4"	PTE3"e=2.50mm+ L2"X2"X1/4"	Default
720	Section Designer	N.A.	PTE4"e=6.00mm+2 L2"X2"X1/4"	PTE4"e=6.00mm+2 L2"X2"X1/4"	Default
721	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
722	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
723	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
724	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
725	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
726	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
727	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
728	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
729	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
730	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
731	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
732	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
733	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
734	Angle	N.A.	L2"X2"X1/4"	L2"X2"X1/4"	Default
735	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
736	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
737	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
738	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
739	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
740	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
741	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
742	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
743	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
744	Section Designer	N.A.	PTE4"e=6.00mm+2 L2"X2"X1/4"	PTE4"e=6.00mm+2 L2"X2"X1/4"	Default
745	Section Designer	N.A.	PTE4"e=6.00mm+2 L2"X2"X1/4"	PTE4"e=6.00mm+2 L2"X2"X1/4"	Default
746	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
747	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
748	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
749	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
750	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
751	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default

Table: Frame Section Assignments

Frame	SectionType	AutoSelect	AnalSect	DesignSect	MatProp
752	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
753	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
754	Section Designer	N.A.	PTE4"e=6.00mm+2 L2"X2"X1/4"	PTE4"e=6.00mm+2 L2"X2"X1/4"	Default
755	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
756	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
757	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
758	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
759	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
760	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
761	Section Designer	N.A.	PTE3"e=2.50mm+ L2"X2"X1/4"	PTE3"e=2.50mm+ L2"X2"X1/4"	Default
762	Section Designer	N.A.	PTE3"e=2.50mm+ L2"X2"X1/4"	PTE3"e=2.50mm+ L2"X2"X1/4"	Default
763	Section Designer	N.A.	PTE4"e=6.00mm+2 L2"X2"X1/4"	PTE4"e=6.00mm+2 L2"X2"X1/4"	Default
764	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
765	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
766	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
767	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
768	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
769	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
770	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
771	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
772	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
773	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
774	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
775	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
776	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
777	Angle	N.A.	L2"X2"X1/4"	L2"X2"X1/4"	Default
778	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
779	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
780	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
781	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
782	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
783	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
784	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
785	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
786	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default

Table: Frame Section Assignments

Frame	SectionType	AutoSelect	AnalSect	DesignSect	MatProp
787	Section Designer	N.A.	PTE4"e=6.00mm+2 L2"X2"X1/4"	PTE4"e=6.00mm+2 L2"X2"X1/4"	Default
788	Section Designer	N.A.	PTE4"e=6.00mm+2 L2"X2"X1/4"	PTE4"e=6.00mm+2 L2"X2"X1/4"	Default
789	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
790	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
791	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
792	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
793	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
794	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
795	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
796	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
797	Section Designer	N.A.	PTE4"e=6.00mm+2 L2"X2"X1/4"	PTE4"e=6.00mm+2 L2"X2"X1/4"	Default
798	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
799	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
800	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
801	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
802	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
803	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
804	Section Designer	N.A.	PTE3"e=2.50mm+ L2"X2"X1/4"	PTE3"e=2.50mm+ L2"X2"X1/4"	Default
805	Section Designer	N.A.	PTE3"e=2.50mm+ L2"X2"X1/4"	PTE3"e=2.50mm+ L2"X2"X1/4"	Default
806	Section Designer	N.A.	PTE4"e=6.00mm+2 L2"X2"X1/4"	PTE4"e=6.00mm+2 L2"X2"X1/4"	Default
807	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
808	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
809	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
810	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
811	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
812	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
813	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
814	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
815	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
816	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
817	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
818	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
819	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
820	Angle	N.A.	L2"X2"X1/4"	L2"X2"X1/4"	Default
821	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default

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Table: Frame Section Assignments

Frame	SectionType	AutoSelect	AnalSect	DesignSect	MatProp
822	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
823	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
824	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
825	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
826	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
827	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
828	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
829	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
830	Section Designer	N.A.	PTE4"e=6.00mm+2 L2"X2"X1/4"	PTE4"e=6.00mm+2 L2"X2"X1/4"	Default
831	Section Designer	N.A.	PTE4"e=6.00mm+2 L2"X2"X1/4"	PTE4"e=6.00mm+2 L2"X2"X1/4"	Default
832	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
833	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
834	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
835	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
836	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
837	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
838	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
839	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
840	Section Designer	N.A.	PTE4"e=6.00mm+2 L2"X2"X1/4"	PTE4"e=6.00mm+2 L2"X2"X1/4"	Default
841	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
842	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
843	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
844	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
845	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
846	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
847	Section Designer	N.A.	PTE3"e=2.50mm+ L2"X2"X1/4"	PTE3"e=2.50mm+ L2"X2"X1/4"	Default
848	Section Designer	N.A.	PTE3"e=2.50mm+ L2"X2"X1/4"	PTE3"e=2.50mm+ L2"X2"X1/4"	Default
849	Section Designer	N.A.	PTE4"e=6.00mm+2 L2"X2"X1/4"	PTE4"e=6.00mm+2 L2"X2"X1/4"	Default
850	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
851	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
852	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
853	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
854	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
855	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
856	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default

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Table: Frame Section Assignments

Frame	SectionType	AutoSelect	AnalSect	DesignSect	MatProp
857	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
858	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
859	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
860	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
861	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
862	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
863	Angle	N.A.	L2"X2"X1/4"	L2"X2"X1/4"	Default
864	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
865	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
866	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
867	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
868	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
869	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
870	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
871	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
872	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
873	Section Designer	N.A.	PTE4"e=6.00mm+2 L2"X2"X1/4"	PTE4"e=6.00mm+2 L2"X2"X1/4"	Default
874	Section Designer	N.A.	PTE4"e=6.00mm+2 L2"X2"X1/4"	PTE4"e=6.00mm+2 L2"X2"X1/4"	Default
875	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
876	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
877	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
878	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
879	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
880	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
881	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
882	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
883	Section Designer	N.A.	PTE4"e=6.00mm+2 L2"X2"X1/4"	PTE4"e=6.00mm+2 L2"X2"X1/4"	Default
884	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
885	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
886	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
887	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
888	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
889	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
890	Section Designer	N.A.	PTE3"e=2.50mm+ L2"X2"X1/4"	PTE3"e=2.50mm+ L2"X2"X1/4"	Default

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Table: Frame Section Assignments

Frame	SectionType	AutoSelect	AnalSect	DesignSect	MatProp
891	Section Designer	N.A.	PTE3"e=2.50mm+ L2"X2"X1/4"	PTE3"e=2.50mm+ L2"X2"X1/4"	Default
892	Section Designer	N.A.	PTE4"e=6.00mm+2 L2"X2"X1/4"	PTE4"e=6.00mm+2 L2"X2"X1/4"	Default
893	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
894	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
895	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
896	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
897	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
898	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
899	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
900	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
901	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
902	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
903	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
904	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
905	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
906	Angle	N.A.	L2"X2"X1/4"	L2"X2"X1/4"	Default
907	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
908	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
909	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
910	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
911	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
912	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
913	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
914	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
915	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
916	Section Designer	N.A.	PTE4"e=6.00mm+2 L2"X2"X1/4"	PTE4"e=6.00mm+2 L2"X2"X1/4"	Default
917	Section Designer	N.A.	PTE4"e=6.00mm+2 L2"X2"X1/4"	PTE4"e=6.00mm+2 L2"X2"X1/4"	Default
918	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
919	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
920	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
921	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
922	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
923	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
924	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
925	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default

Table: Frame Section Assignments

Frame	SectionType	AutoSelect	AnalSect	DesignSect	MatProp
926	Section Designer	N.A.	PTE4"e=6.00mm+2 L2"X2"X1/4"	PTE4"e=6.00mm+2 L2"X2"X1/4"	Default
927	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
928	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
929	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
930	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
931	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
932	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
933	Section Designer	N.A.	PTE3"e=2.50mm+ L2"X2"X1/4"	PTE3"e=2.50mm+ L2"X2"X1/4"	Default
934	Section Designer	N.A.	PTE3"e=2.50mm+ L2"X2"X1/4"	PTE3"e=2.50mm+ L2"X2"X1/4"	Default
935	Section Designer	N.A.	PTE4"e=6.00mm+2 L2"X2"X1/4"	PTE4"e=6.00mm+2 L2"X2"X1/4"	Default
936	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
937	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
938	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
939	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
940	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
941	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
942	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
943	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
944	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
945	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
946	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
947	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
948	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
949	Angle	N.A.	L2"X2"X1/4"	L2"X2"X1/4"	Default
950	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
951	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
952	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
953	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
954	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
955	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
956	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
957	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
958	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
959	Section Designer	N.A.	PTE4"e=6.00mm+2 L2"X2"X1/4"	PTE4"e=6.00mm+2 L2"X2"X1/4"	Default
960	Section Designer	N.A.	PTE4"e=6.00mm+2 L2"X2"X1/4"	PTE4"e=6.00mm+2 L2"X2"X1/4"	Default

Table: Frame Section Assignments

Frame	SectionType	AutoSelect	AnalSect	DesignSect	MatProp
961	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
962	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
963	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
964	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
965	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
966	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
967	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
968	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
969	Section Designer	N.A.	PTE4"e=6.00mm+2 L2"X2"X1/4"	PTE4"e=6.00mm+2 L2"X2"X1/4"	Default
970	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
971	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
972	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
973	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
974	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
975	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
976	Section Designer	N.A.	PTE3"e=2.50mm+ L2"X2"X1/4"	PTE3"e=2.50mm+ L2"X2"X1/4"	Default
977	Section Designer	N.A.	PTE3"e=2.50mm+ L2"X2"X1/4"	PTE3"e=2.50mm+ L2"X2"X1/4"	Default
978	Section Designer	N.A.	PTE4"e=6.00mm+2 L2"X2"X1/4"	PTE4"e=6.00mm+2 L2"X2"X1/4"	Default
979	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
980	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
981	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
982	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
983	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
984	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
985	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
986	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
987	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
988	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
989	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
990	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
991	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
992	Angle	N.A.	L2"X2"X1/4"	L2"X2"X1/4"	Default
993	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
994	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
995	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
996	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
997	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default

Table: Frame Section Assignments

Frame	SectionType	AutoSelect	AnalSect	DesignSect	MatProp
998	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
999	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
B8A	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
B8B	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
B8C	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
B8D	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
B8E	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
B93	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
B94	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
B95	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
B96	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
B97	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
B98	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
BF9	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
1000	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
1001	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
1002	Section Designer	N.A.	PTE4"e=6.00mm+2 L2"X2"X1/4"	PTE4"e=6.00mm+2 L2"X2"X1/4"	Default
1003	Section Designer	N.A.	PTE4"e=6.00mm+2 L2"X2"X1/4"	PTE4"e=6.00mm+2 L2"X2"X1/4"	Default
1004	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1005	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1006	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1007	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1008	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1009	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1010	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
1011	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
1012	Section Designer	N.A.	PTE4"e=6.00mm+2 L2"X2"X1/4"	PTE4"e=6.00mm+2 L2"X2"X1/4"	Default
1013	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1014	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1015	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1016	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1017	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1018	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1019	Section Designer	N.A.	PTE3"e=2.50mm+ L2"X2"X1/4"	PTE3"e=2.50mm+ L2"X2"X1/4"	Default
1020	Section Designer	N.A.	PTE3"e=2.50mm+ L2"X2"X1/4"	PTE3"e=2.50mm+ L2"X2"X1/4"	Default

Table: Frame Section Assignments

Frame	SectionType	AutoSelect	AnalSect	DesignSect	MatProp
1021	Section Designer	N.A.	PTE4"e=6.00mm+2 L2"X2"X1/4"	PTE4"e=6.00mm+2 L2"X2"X1/4"	Default
1022	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1023	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1024	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1025	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1026	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1027	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1028	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1029	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1030	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1031	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1032	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1033	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
1034	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
1035	Angle	N.A.	L2"X2"X1/4"	L2"X2"X1/4"	Default
1036	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1037	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1038	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1039	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1040	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1041	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1042	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1043	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
1044	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
1045	Section Designer	N.A.	PTE4"e=6.00mm+2 L2"X2"X1/4"	PTE4"e=6.00mm+2 L2"X2"X1/4"	Default
1046	Section Designer	N.A.	PTE4"e=6.00mm+2 L2"X2"X1/4"	PTE4"e=6.00mm+2 L2"X2"X1/4"	Default
1047	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1048	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1049	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1050	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1051	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1052	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1053	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
1054	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
1055	Section Designer	N.A.	PTE4"e=6.00mm+2 L2"X2"X1/4"	PTE4"e=6.00mm+2 L2"X2"X1/4"	Default

Table: Frame Section Assignments

Frame	SectionType	AutoSelect	AnalSect	DesignSect	MatProp
1056	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1057	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1058	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1059	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1060	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1061	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1062	Section Designer	N.A.	PTE3"e=2.50mm+ L2"X2"X1/4"	PTE3"e=2.50mm+ L2"X2"X1/4"	Default
1063	Section Designer	N.A.	PTE3"e=2.50mm+ L2"X2"X1/4"	PTE3"e=2.50mm+ L2"X2"X1/4"	Default
1064	Section Designer	N.A.	PTE4"e=6.00mm+2 L2"X2"X1/4"	PTE4"e=6.00mm+2 L2"X2"X1/4"	Default
1065	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1066	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1067	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1068	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1069	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1070	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1071	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1072	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1073	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1074	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1075	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1076	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
1077	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
1078	Angle	N.A.	L2"X2"X1/4"	L2"X2"X1/4"	Default
1079	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1080	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1081	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1082	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1083	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1084	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1085	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1086	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
1087	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
1088	Section Designer	N.A.	PTE4"e=6.00mm+2 L2"X2"X1/4"	PTE4"e=6.00mm+2 L2"X2"X1/4"	Default
1089	Section Designer	N.A.	PTE4"e=6.00mm+2 L2"X2"X1/4"	PTE4"e=6.00mm+2 L2"X2"X1/4"	Default
1090	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1091	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default

Table: Frame Section Assignments

Frame	SectionType	AutoSelect	AnalSect	DesignSect	MatProp
1092	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1093	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1094	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1095	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1096	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
1097	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
1098	Section Designer	N.A.	PTE4"e=6.00mm+2 L2"X2"X1/4"	PTE4"e=6.00mm+2 L2"X2"X1/4"	Default
1099	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1100	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1101	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1102	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1103	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1104	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1105	Section Designer	N.A.	PTE3"e=2.50mm+ L2"X2"X1/4"	PTE3"e=2.50mm+ L2"X2"X1/4"	Default
1106	Section Designer	N.A.	PTE3"e=2.50mm+ L2"X2"X1/4"	PTE3"e=2.50mm+ L2"X2"X1/4"	Default
1107	Section Designer	N.A.	PTE4"e=6.00mm+2 L2"X2"X1/4"	PTE4"e=6.00mm+2 L2"X2"X1/4"	Default
1108	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1109	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1110	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1111	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1112	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1113	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1114	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1115	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1116	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1117	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1118	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1119	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
1120	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
1121	Angle	N.A.	L2"X2"X1/4"	L2"X2"X1/4"	Default
1122	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1123	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1124	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1125	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1126	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1127	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1128	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default

Table: Frame Section Assignments

Frame	SectionType	AutoSelect	AnalSect	DesignSect	MatProp
1129	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
1130	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
1131	Section Designer	N.A.	PTE4"e=6.00mm+2 L2"X2"X1/4"	PTE4"e=6.00mm+2 L2"X2"X1/4"	Default
1132	Section Designer	N.A.	PTE4"e=6.00mm+2 L2"X2"X1/4"	PTE4"e=6.00mm+2 L2"X2"X1/4"	Default
1133	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1134	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1135	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1136	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1137	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1138	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1139	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
1140	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
1141	Section Designer	N.A.	PTE4"e=6.00mm+2 L2"X2"X1/4"	PTE4"e=6.00mm+2 L2"X2"X1/4"	Default
1142	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1143	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1144	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1145	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1146	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1147	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1148	Section Designer	N.A.	PTE3"e=2.50mm+ L2"X2"X1/4"	PTE3"e=2.50mm+ L2"X2"X1/4"	Default
1149	Section Designer	N.A.	PTE3"e=2.50mm+ L2"X2"X1/4"	PTE3"e=2.50mm+ L2"X2"X1/4"	Default
1150	Section Designer	N.A.	PTE4"e=6.00mm+2 L2"X2"X1/4"	PTE4"e=6.00mm+2 L2"X2"X1/4"	Default
1151	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1152	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1153	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1154	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1155	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1156	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1157	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1158	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1159	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1160	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1161	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1162	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default

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Table: Frame Section Assignments

Frame	SectionType	AutoSelect	AnalSect	DesignSect	MatProp
1163	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
1164	Angle	N.A.	L2"X2"X1/4"	L2"X2"X1/4"	Default
1165	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1166	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1167	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1168	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1169	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1170	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1171	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1172	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
1173	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
1174	Section Designer	N.A.	PTE4"e=6.00mm+2 L2"X2"X1/4"	PTE4"e=6.00mm+2 L2"X2"X1/4"	Default
1175	Section Designer	N.A.	PTE4"e=6.00mm+2 L2"X2"X1/4"	PTE4"e=6.00mm+2 L2"X2"X1/4"	Default
1176	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1177	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1178	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1179	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1180	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1181	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1182	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
1183	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
1184	Section Designer	N.A.	PTE4"e=6.00mm+2 L2"X2"X1/4"	PTE4"e=6.00mm+2 L2"X2"X1/4"	Default
1185	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1186	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1187	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1188	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1189	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1190	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1191	Section Designer	N.A.	PTE3"e=2.50mm+ L2"X2"X1/4"	PTE3"e=2.50mm+ L2"X2"X1/4"	Default
1192	Section Designer	N.A.	PTE3"e=2.50mm+ L2"X2"X1/4"	PTE3"e=2.50mm+ L2"X2"X1/4"	Default
1193	Section Designer	N.A.	PTE4"e=6.00mm+2 L2"X2"X1/4"	PTE4"e=6.00mm+2 L2"X2"X1/4"	Default
1194	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1195	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1196	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default

Table: Frame Section Assignments

Frame	SectionType	AutoSelect	AnalSect	DesignSect	MatProp
1197	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1198	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1199	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1200	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1201	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1202	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1203	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1204	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1205	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
1206	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
1207	Angle	N.A.	L2"X2"X1/4"	L2"X2"X1/4"	Default
1208	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1209	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1210	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1211	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1212	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1213	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1214	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1215	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
1216	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
1217	Section Designer	N.A.	PTE4"e=6.00mm+ L2"X2"X1/4"	PTE4"e=6.00mm+ L2"X2"X1/4"	Default
1218	Section Designer	N.A.	PTE4"e=6.00mm+ L2"X2"X1/4"	PTE4"e=6.00mm+ L2"X2"X1/4"	Default
1219	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1220	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1221	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1222	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1223	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1224	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1225	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
1226	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
1227	Section Designer	N.A.	PTE4"e=6.00mm+ L2"X2"X1/4"	PTE4"e=6.00mm+ L2"X2"X1/4"	Default
1228	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1229	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1230	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1231	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1232	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default

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Table: Frame Section Assignments

Frame	SectionType	AutoSelect	AnalSect	DesignSect	MatProp
1233	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
1234	Section Designer	N.A.	PTE3"e=2.50mm+ L2"X2"X1/4"	PTE3"e=2.50mm+ L2"X2"X1/4"	Default
1235	Section Designer	N.A.	PTE3"e=2.50mm+ L2"X2"X1/4"	PTE3"e=2.50mm+ L2"X2"X1/4"	Default
1236	Section Designer	N.A.	PTE4"e=6.00mm+ L2"X2"X1/4"	PTE4"e=6.00mm+ L2"X2"X1/4"	Default
B107	Section Designer	N.A.	PTE3"e=2.50mm+2 L2"X2"X1/4"	PTE3"e=2.50mm+2 L2"X2"X1/4"	Default
B131	Angle	N.A.	L2"X2"X1/4"	L2"X2"X1/4"	Default
B141	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
B142	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
B143	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
B144	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
B145	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default
B146	Angle	N.A.	L11/2"X11/2"X1/4"	L11/2"X11/2"X1/4"	Default

Table: Function - Response Spectrum - Colombia NSR-10, Part 1 of 2

Table: Function - Response Spectrum - Colombia NSR-10, Part 1 of 2

Name	Period Sec	Accel	FuncDamp	Aa	Av	Ae	Ad
ACACIAS	0	0.99	0.05	0.3	0.3	0.17	0.06
ACACIAS	0.1	0.99					
ACACIAS	0.2	0.99					
ACACIAS	0.3	0.99					
ACACIAS	0.4	0.99					
ACACIAS	0.5	0.99					
ACACIAS	0.6	0.99					
ACACIAS	0.7	0.99					
ACACIAS	0.8	0.891					
ACACIAS	0.9	0.792					
ACACIAS	1	0.7128					
ACACIAS	1.2	0.594					
ACACIAS	1.5	0.4752					
ACACIAS	1.7	0.419294					
ACACIAS	2	0.3564					
ACACIAS	2.5	0.28512					
ACACIAS	3	0.2376					
ACACIAS	3.5	0.203657					
ACACIAS	4	0.1782					
ACACIAS	5	0.123172					
ACACIAS	8	0.048114					

Table: Function - Response Spectrum - Colombia NSR-10, Part 1 of 2

Name	Period	Accel	FuncDamp	Aa	Av	Ae	Ad
	Sec						
ACACIAS	11	0.025449					
ACACIAS	15	0.013686					

Table: Function - Response Spectrum - Colombia NSR-10, Part 2 of 2

Table: Function - Response Spectrum - Colombia NSR-10, Part 2 of 2

Name	Period	GroupUse	Fa	Fv
	Sec			
ACACIAS	0	Group 2	1.2	1.8
ACACIAS	0.1			
ACACIAS	0.2			
ACACIAS	0.3			
ACACIAS	0.4			
ACACIAS	0.5			
ACACIAS	0.6			
ACACIAS	0.7			
ACACIAS	0.8			
ACACIAS	0.9			
ACACIAS	1			
ACACIAS	1.2			
ACACIAS	1.5			
ACACIAS	1.7			
ACACIAS	2			
ACACIAS	2.5			
ACACIAS	3			
ACACIAS	3.5			
ACACIAS	4			
ACACIAS	5			
ACACIAS	8			
ACACIAS	11			
ACACIAS	15			

Table: Load Case Definitions, Part 1 of 3

Table: Load Case Definitions, Part 1 of 3

Case	Type	InitialCond	ModalCase	BaseCase	MassSource	DesTypeOpt	DesignType
DO	LinStatic	Zero				Prog Det	Dead
MODAL	LinModal	Zero				Prog Det	Other
DL	LinStatic	Zero				Prog Det	Super Dead
LL	LinStatic	Zero				Prog Det	Roof Live
WL	LinStatic	Zero				Prog Det	Wind

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Table: Load Case Definitions, Part 1 of 3

Case	Type	InitialCond	ModalCase	BaseCase	MassSource	DesTypeOpt	DesignType
FHE-X	LinStatic	Zero				Prog Det	Quake
FHE-Y	LinStatic	Zero				Prog Det	Quake
Sx	LinRespSpec		MODAL			Prog Det	Quake
Sy	LinRespSpec		MODAL			Prog Det	Quake

Table: Load Case Definitions, Part 2 of 3

Table: Load Case Definitions, Part 2 of 3

Case	DesActOpt	DesignAct	AutoType	RunCase	CaseStatus	GUID
DO	Prog Det	Non-Composite	None	Yes	Finished	208fe3c0-42c3-46a5-9b5e-17dba84724dc
MODAL	Prog Det	Other	None	Yes	Finished	c937cc60-2f1c-4ca3-9a87-6b1dd91d76a9
DL	Prog Det	Long-Term Composite	None	Yes	Finished	0102bc40-03e8-464a-ac31-5380180ba037
LL	Prog Det	Short-Term Composite	None	Yes	Finished	c154cebb-2f3f-48da-948f-b8010c418229
WL	Prog Det	Short-Term Composite	None	Yes	Finished	bd6f3e56-e206-404a-b1b3-1739c4840482
FHE-X	Prog Det	Short-Term Composite	None	Yes	Finished	4f2c85ee-23d3-4068-b039-307b82512992
FHE-Y	Prog Det	Short-Term Composite	None	Yes	Finished	6181c92f-88e3-4449-9b86-3ca551c0e05a
Sx	Prog Det	Short-Term Composite	None	Yes	Finished	64181b65-4a10-4297-bae6-74480bf7ee3f
Sy	Prog Det	Short-Term Composite	None	Yes	Finished	f326f0e0-cf44-499b-807c-7a854274fc9a

Table: Load Case Definitions, Part 3 of 3

Table: Load Case Definitions, Part 3 of 3

Case	Notes
DO	
MODAL	
DL	
LL	
WL	
FHE-X	
FHE-Y	
Sx	
Sy	

Table: Material List 1 - By Object Type

Table: Material List 1 - By Object Type

ObjectType	Material	TotalWeight KN	NumPieces
Frame	A36	20.259	465
Frame	A500GrC	53.742	184
Area	A706Gr60	104.635	

Table: Material List 2 - By Section Property

Table: Material List 2 - By Section Property

Section	ObjectType	NumPieces	TotalLength m	TotalWeight KN
PTE3"e=2.50 mm+2 L2"X2"X1/4"	Frame	90	150	21.802
L2"X2"X1/4"	Frame	15	37.5	1.746
PTE3"e=2.50 mm+ L2"X2"X1/4"	Frame	30	37.5	3.705
L11/2"X11/2" X1/4"	Frame	450	542.26038	18.513
PTE4"e=6.00 mm+2 L2"X2"X1/4"	Frame	56	101.5	25.297
PTE4"e=6.00 mm+ L2"X2"X1/4"	Frame	8	14.5	2.939
MALLA ESLABONADA	Area			104.635

Table: Material Properties 01 - General, Part 1 of 2

Table: Material Properties 01 - General, Part 1 of 2

Material	Type	Grade	SymType	TempDepend	Color	GUID
4000Psi	Concrete	f'c 4000 psi	Isotropic	No	Magenta	c7b263a1-986e-4e31-8edb-6fb6b879b60d
A36	Steel	Grade 36	Isotropic	No	Yellow	975607aa-772e-4754-8893-4a0e75e828e9
A416Gr270	Tendon	Grade 270	Uniaxial	No	Magenta	5a579605-49e7-4f6c-8207-40660fdb6b6f
A500GrC	Steel	Grade C	Isotropic	No	Gray8Dark	fa9ef91e-2fc2-4516-9a4a-b919cec171e0

Table: Material Properties 01 - General, Part 1 of 2

Material	Type	Grade	SymType	TempDepend	Color	GUID
A572Gr50	Steel	Grade 50	Isotropic	No	Gray8Dark	50eccd21-5466-4a5e-8ef2-2ff8e85aa2cb
A653SQGr50	ColdFormed	SQ Grade 50	Isotropic	No	Green	50d705bd-235c-4953-affb-ca88506f8691
A706Gr60	Rebar	Grade 60	Uniaxial	No	Red	5f341b85-0d71-4dc3-9857-245bf20e794c

Table: Material Properties 01 - General, Part 2 of 2

Table: Material Properties 01 - General, Part 2 of 2

Material	Notes
4000Psi	Customary f'c 4000 psi 6/12/2022 5:49:56 p. m.
A36	United States ASTM A36 Grade 36 added 6/12/2022 5:37:37 p. m.
A416Gr270	ASTM A416 Grade 270 7/12/2022 8:27:57 a. m.
A500GrC	United States ASTM A500 Grade C added 7/12/2022 9:34:06 a. m.
A572Gr50	United States ASTM A572 Grade 50 added 23/07/2024 5:16:17 p.Â m.
A653SQGr50	United States ASTM A653 SQ Grade 50 added 6/12/2022 6:18:08 p. m.
A706Gr60	United States ASTM A706 Grade 60 added 6/12/2022 6:20:48 p. m.

16.1. DATOS DE SALIDA DEL MODELO MATEMÁTICO

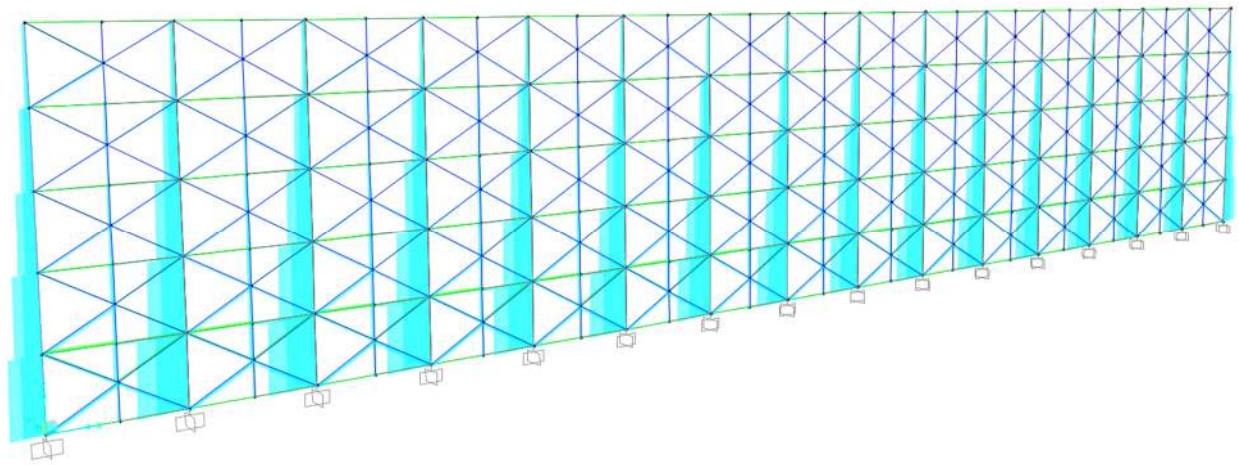


Imagen 7. Fuerzas internas axial force – Modelo SAP2000

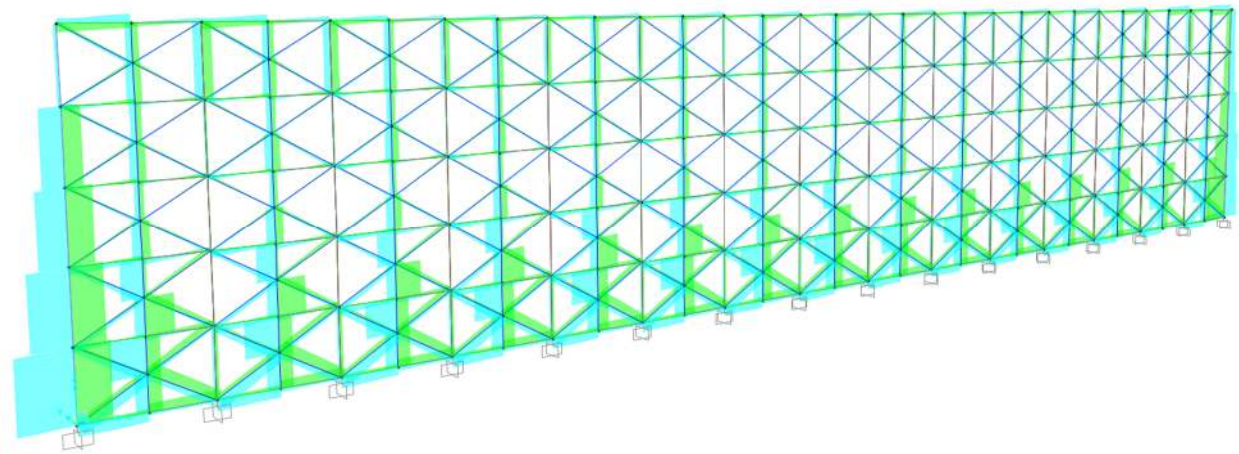


Imagen 8. Fuerzas internas shear 2-2 – Modelo SAP2000

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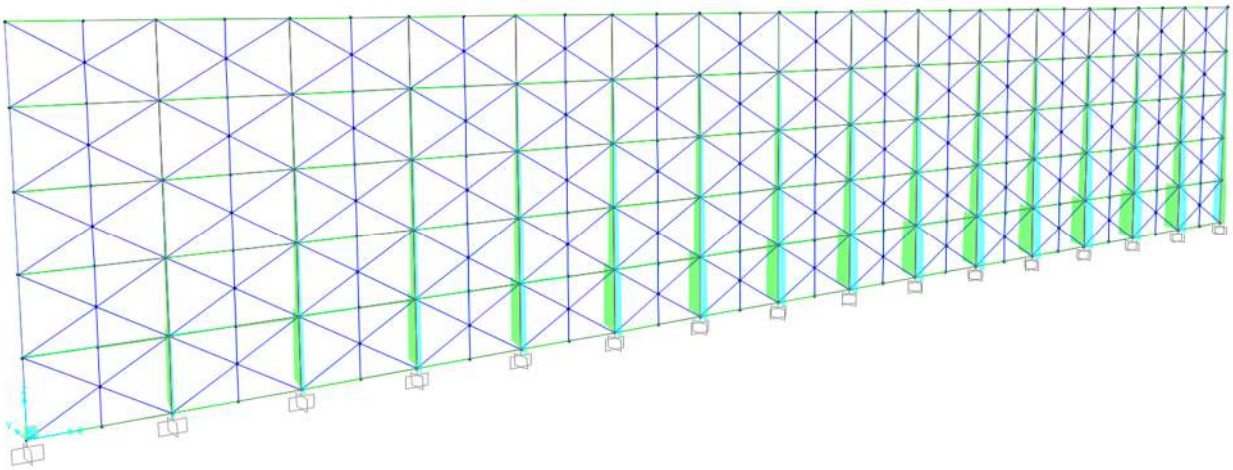


Imagen 9. Fuerzas internas shear 3-3 – Modelo SAP2000

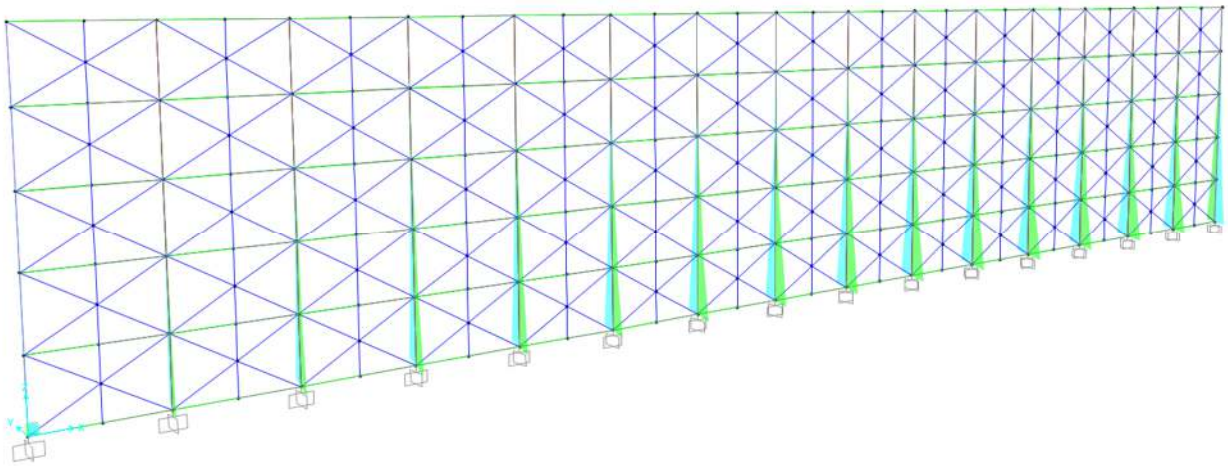


Imagen 10. Fuerzas internas moment 2-2 – Modelo SAP2000

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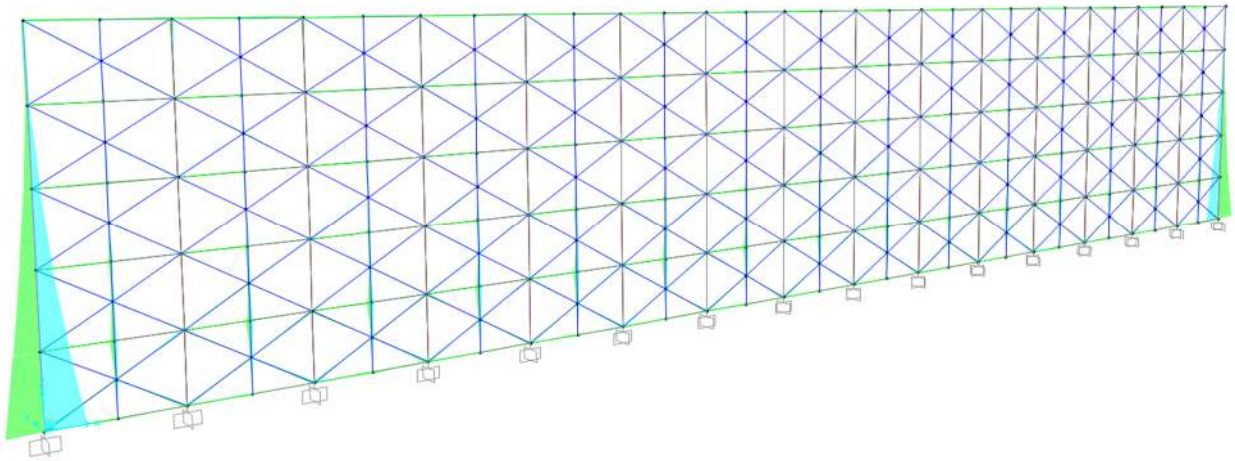


Imagen 11. Fuerzas internas moment 3-3 – Modelo SAP2000

Table: Element Forces - Frames, Part 1 of 2

Table: Element Forces - Frames, Part 1 of 2

Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T
	m				KN	KN	KN	KN-m
3	0	Enve Design	Combination	Max	-0.765	0.131	0.495	0.0134
3	0.72252	Enve Design	Combination	Max	-0.745	0.167	0.311	0.0134
3	1.44503	Enve Design	Combination	Max	-0.723	0.204	0.19	0.0134
3	0	Enve Design	Combination	Min	-1.369	-0.42	-1.391	-0.0149
3	0.72252	Enve Design	Combination	Min	-1.336	-0.372	-0.69	-0.0149
3	1.44503	Enve Design	Combination	Min	-1.303	-0.322	-0.108	-0.0149
7	0	Enve Design	Combination	Max	-9.98	0.103	23.13	1.4408
7	1.45	Enve Design	Combination	Max	-9.601	0.103	21.165	1.4408
7	1.45	Enve Design	Combination	Max	-7.454	0.026	11.366	2.2668
7	2.9	Enve Design	Combination	Max	-7.075	0.026	10.315	2.2668
7	0	Enve Design	Combination	Min	-15.8	-0.091	-13.812	-1.2461
7	1.45	Enve Design	Combination	Min	-15.211	-0.091	-13.294	-1.2461
7	1.45	Enve Design	Combination	Min	-11.68	-0.007966	-9.733	-2.0017
7	2.9	Enve Design	Combination	Min	-11.091	-0.007966	-9.215	-2.0017
10	0	Enve Design	Combination	Max	-6.226	1.065	12.793	3.7465
10	1.45	Enve Design	Combination	Max	-5.934	1.065	11.81	3.7465
10	1.45	Enve Design	Combination	Max	-4.732	0.969	8.075	2.8445
10	2.9	Enve Design	Combination	Max	-4.44	0.969	7.549	2.8445
10	0	Enve Design	Combination	Min	-9.956	-1.669	-8.345	-2.7126
10	1.45	Enve Design	Combination	Min	-9.503	-1.669	-8.087	-2.7126
10	1.45	Enve Design	Combination	Min	-7.556	-1.199	-6.968	-2.5812
10	2.9	Enve Design	Combination	Min	-7.103	-1.199	-6.709	-2.5812
635	0	Enve Design	Combination	Max	0.83	0.203	0.035	0.0144
635	0.72252	Enve Design	Combination	Max	0.859	0.253	0.424	0.0144
635	1.44503	Enve Design	Combination	Max	0.886	0.3	1.125	0.0144

Table: Element Forces - Frames, Part 1 of 2

Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T
	m				KN	KN	KN	KN-m
635	0	Enve Design	Combination	Min	-0.346	-0.147	-0.349	-0.0162
635	0.72252	Enve Design	Combination	Min	-0.324	-0.11	-0.179	-0.0162
635	1.44503	Enve Design	Combination	Min	-0.303	-0.074	-0.364	-0.0162
636	0	Enve Design	Combination	Max	0.017	0.131	1.031	0.0097
636	0.72252	Enve Design	Combination	Max	0.044	0.178	0.33	0.0097
636	1.44503	Enve Design	Combination	Max	0.073	0.228	0.084	0.0097
636	0	Enve Design	Combination	Min	-0.707	-0.103	-0.304	-0.0094
636	0.72252	Enve Design	Combination	Min	-0.675	-0.067	-0.12	-0.0094
636	1.44503	Enve Design	Combination	Min	-0.641	-0.03	-0.443	-0.0094
637	0	Enve Design	Combination	Max	0.094	-0.021	0.534	0.0067
637	0.72252	Enve Design	Combination	Max	0.116	0.017	0.033	0.0067
637	1.44503	Enve Design	Combination	Max	0.137	0.056	0.217	0.0067
637	0	Enve Design	Combination	Min	-0.616	-0.178	-0.171	-0.0067
637	0.72252	Enve Design	Combination	Min	-0.587	-0.128	-0.239	-0.0067
637	1.44503	Enve Design	Combination	Min	-0.559	-0.08	-0.94	-0.0067
642	0	Enve Design	Combination	Max	0.353	0.089	0.148	0.0082
642	0.72252	Enve Design	Combination	Max	0.382	0.139	0.258	0.0082
642	1.44503	Enve Design	Combination	Max	0.409	0.187	0.958	0.0082
642	0	Enve Design	Combination	Min	-0.252	-0.066	-0.515	-0.0083
642	0.72252	Enve Design	Combination	Min	-0.23	-0.029	-0.055	-0.0083
642	1.44503	Enve Design	Combination	Min	-0.209	0.006826	-0.24	-0.0083
643	0	Enve Design	Combination	Max	-0.33	0.008304	0.267	0.0108
643	0.72252	Enve Design	Combination	Max	-0.31	0.044	0.082	0.0108
643	1.44503	Enve Design	Combination	Max	-0.288	0.081	0.475	0.0108
643	0	Enve Design	Combination	Min	-1.215	-0.209	-0.999	-0.0113
643	0.72252	Enve Design	Combination	Min	-1.188	-0.162	-0.298	-0.0113
643	1.44503	Enve Design	Combination	Min	-1.159	-0.112	-0.121	-0.0113
644	0	Enve Design	Combination	Max	0.487	0.045	0.395	0.0151
644	0.72252	Enve Design	Combination	Max	0.509	0.083	0.131	0.0151
644	1.44503	Enve Design	Combination	Max	0.53	0.118	0.316	0.0151
644	0	Enve Design	Combination	Min	-0.793	-0.275	-0.073	-0.0135
644	0.72252	Enve Design	Combination	Min	-0.764	-0.225	-0.378	-0.0135
644	1.44503	Enve Design	Combination	Min	-0.736	-0.177	-1.079	-0.0135
645	0	Enve Design	Combination	Max	-0.544	0.356	1.453	0.0168
645	0.72252	Enve Design	Combination	Max	-0.523	0.404	0.752	0.0168
645	1.44503	Enve Design	Combination	Max	-0.501	0.453	0.156	0.0168
645	0	Enve Design	Combination	Min	-1.275	-0.232	-0.546	-0.0149
645	0.72252	Enve Design	Combination	Min	-1.243	-0.197	-0.361	-0.0149
645	1.44503	Enve Design	Combination	Min	-1.209	-0.159	-0.189	-0.0149
646	0	Enve Design	Combination	Max	1.045	-0.074	0.81	0.1659
646	0.41667	Enve Design	Combination	Max	1.045	-0.015	0.767	0.1659
646	0.83333	Enve Design	Combination	Max	1.045	0.053	0.638	0.1659
646	1.25	Enve Design	Combination	Max	1.045	0.116	0.552	0.1659

Table: Element Forces - Frames, Part 1 of 2

Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T
	m				KN	KN	KN	KN-m
646	1.25	Enve Design	Combination	Max	0.456	0.027	2.564	0.3648
646	1.66667	Enve Design	Combination	Max	0.456	0.09	2.891	0.3648
646	2.08333	Enve Design	Combination	Max	0.456	0.158	3.382	0.3648
646	2.5	Enve Design	Combination	Max	0.456	0.238	3.546	0.3648
646	0	Enve Design	Combination	Min	-0.334	-0.307	-3.06	-0.1682
646	0.41667	Enve Design	Combination	Min	-0.334	-0.228	-2.896	-0.1682
646	0.83333	Enve Design	Combination	Min	-0.334	-0.138	-2.405	-0.1682
646	1.25	Enve Design	Combination	Min	-0.334	-0.053	-2.077	-0.1682
646	1.25	Enve Design	Combination	Min	-1.026	-0.183	-1.065	-0.4335
646	1.66667	Enve Design	Combination	Min	-1.026	-0.098	-1.151	-0.4335
646	2.08333	Enve Design	Combination	Min	-1.026	-0.007981	-1.28	-0.4335
646	2.5	Enve Design	Combination	Min	-1.026	0.071	-1.323	-0.4335
648	0	Enve Design	Combination	Max	0.226	0.083	0.147	0.0177
648	0.41667	Enve Design	Combination	Max	0.226	0.102	0.168	0.0177
648	0.83333	Enve Design	Combination	Max	0.226	0.127	0.233	0.0177
648	1.25	Enve Design	Combination	Max	0.226	0.148	0.276	0.0177
648	1.25	Enve Design	Combination	Max	0.219	0.326	0.449	0.0233
648	1.66667	Enve Design	Combination	Max	0.219	0.355	0.57	0.0233
648	2.08333	Enve Design	Combination	Max	0.219	0.387	0.751	0.0233
648	2.5	Enve Design	Combination	Max	0.219	0.413	0.811	0.0233
648	0	Enve Design	Combination	Min	-0.219	-0.446	-0.811	-0.0233
648	0.41667	Enve Design	Combination	Min	-0.219	-0.419	-0.751	-0.0233
648	0.83333	Enve Design	Combination	Min	-0.219	-0.387	-0.57	-0.0233
648	1.25	Enve Design	Combination	Min	-0.219	-0.358	-0.45	-0.0233
648	1.25	Enve Design	Combination	Min	-0.226	-0.148	-0.276	-0.0177
648	1.66667	Enve Design	Combination	Min	-0.226	-0.126	-0.233	-0.0177
648	2.08333	Enve Design	Combination	Min	-0.226	-0.102	-0.168	-0.0177
648	2.5	Enve Design	Combination	Min	-0.226	-0.082	-0.146	-0.0177
651	0	Enve Design	Combination	Max	-0.796	0.083	0.055	0.0019
651	0.3625	Enve Design	Combination	Max	-0.775	0.083	0.133	0.0019
651	0.725	Enve Design	Combination	Max	-0.747	0.083	0.294	0.0019
651	0	Enve Design	Combination	Min	-1.262	-0.654	-0.727	-0.0017
651	0.3625	Enve Design	Combination	Min	-1.229	-0.654	-1.095	-0.0017
651	0.725	Enve Design	Combination	Min	-1.186	-0.654	-1.709	-0.0017
652	0	Enve Design	Combination	Max	-0.548	0.945	2.222	0.0016
652	0.3625	Enve Design	Combination	Max	-0.52	0.945	1.608	0.0016
652	0.725	Enve Design	Combination	Max	-0.499	0.945	1.24	0.0016
652	0	Enve Design	Combination	Min	-1.041	-0.343	-0.747	-0.0014
652	0.3625	Enve Design	Combination	Min	-1.004	-0.343	-0.585	-0.0014
652	0.725	Enve Design	Combination	Min	-0.976	-0.343	-0.488	-0.0014
653	0	Enve Design	Combination	Max	-0.651	0.447	0.61	0.0008933
653	0.3625	Enve Design	Combination	Max	-0.63	0.447	0.708	0.0008933
653	0.725	Enve Design	Combination	Max	-0.602	0.447	0.869	0.0008933

Table: Element Forces - Frames, Part 1 of 2

Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T
	m				KN	KN	KN	KN-m
653	0	Enve Design	Combination	Min	-1.255	-1.126	-1.436	-0.0007978
653	0.3625	Enve Design	Combination	Min	-1.227	-1.126	-1.805	-0.0007978
653	0.725	Enve Design	Combination	Min	-1.19	-1.126	-2.419	-0.0007978
654	0	Enve Design	Combination	Max	0.296	0.452	0.899	0.0002172
654	0.3625	Enve Design	Combination	Max	0.324	0.452	0.743	0.0002172
654	0.725	Enve Design	Combination	Max	0.345	0.452	0.812	0.0002172
654	0	Enve Design	Combination	Min	-0.684	-0.438	-0.552	-0.0002064
654	0.3625	Enve Design	Combination	Min	-0.647	-0.438	-0.714	-0.0002064
654	0.725	Enve Design	Combination	Min	-0.618	-0.438	-0.883	-0.0002064
655	0	Enve Design	Combination	Max	-0.794	0.149	0.529	0.0148
655	0.72252	Enve Design	Combination	Max	-0.774	0.185	0.344	0.0148
655	1.44503	Enve Design	Combination	Max	-0.752	0.222	0.176	0.0148
655	0	Enve Design	Combination	Min	-1.422	-0.445	-1.438	-0.0166
655	0.72252	Enve Design	Combination	Min	-1.39	-0.398	-0.737	-0.0166
655	1.44503	Enve Design	Combination	Min	-1.356	-0.348	-0.141	-0.0166
658	0	Enve Design	Combination	Max	-10.309	0.103	23.954	0.702
658	1.45	Enve Design	Combination	Max	-9.93	0.103	21.989	0.702
658	1.45	Enve Design	Combination	Max	-7.718	0.03	12.324	1.2349
658	2.9	Enve Design	Combination	Max	-7.34	0.03	11.273	1.2349
658	0	Enve Design	Combination	Min	-16.382	-0.087	-14.577	-0.6371
658	1.45	Enve Design	Combination	Min	-15.793	-0.087	-14.06	-0.6371
658	1.45	Enve Design	Combination	Min	-12.155	-0.004355	-10.534	-1.121
658	2.9	Enve Design	Combination	Min	-11.566	-0.004355	-10.017	-1.121
678	0	Enve Design	Combination	Max	0.845	0.199	0.034	0.0148
678	0.72252	Enve Design	Combination	Max	0.874	0.249	0.418	0.0148
678	1.44503	Enve Design	Combination	Max	0.902	0.297	1.119	0.0148
678	0	Enve Design	Combination	Min	-0.339	-0.144	-0.355	-0.0166
678	0.72252	Enve Design	Combination	Min	-0.317	-0.107	-0.173	-0.0166
678	1.44503	Enve Design	Combination	Min	-0.296	-0.071	-0.358	-0.0166
679	0	Enve Design	Combination	Max	-0.015	0.125	1.021	0.0104
679	0.72252	Enve Design	Combination	Max	0.012	0.172	0.32	0.0104
679	1.44503	Enve Design	Combination	Max	0.041	0.222	0.093	0.0104
679	0	Enve Design	Combination	Min	-0.743	-0.097	-0.295	-0.01
679	0.72252	Enve Design	Combination	Min	-0.711	-0.061	-0.11	-0.01
679	1.44503	Enve Design	Combination	Min	-0.677	-0.024	-0.453	-0.01
680	0	Enve Design	Combination	Max	0.072	-0.019	0.531	0.0073
680	0.72252	Enve Design	Combination	Max	0.094	0.019	0.036	0.0073
680	1.44503	Enve Design	Combination	Max	0.114	0.056	0.22	0.0073
680	0	Enve Design	Combination	Min	-0.647	-0.18	-0.168	-0.0072
680	0.72252	Enve Design	Combination	Min	-0.618	-0.13	-0.242	-0.0072
680	1.44503	Enve Design	Combination	Min	-0.59	-0.082	-0.943	-0.0072
685	0	Enve Design	Combination	Max	0.37	0.09	0.149	0.0081
685	0.72252	Enve Design	Combination	Max	0.399	0.14	0.258	0.0081

Table: Element Forces - Frames, Part 1 of 2

Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T
	m				KN	KN	KN	KN-m
685	1.44503	Enve Design	Combination	Max	0.426	0.187	0.959	0.0081
685	0	Enve Design	Combination	Min	-0.243	-0.066	-0.515	-0.0082
685	0.72252	Enve Design	Combination	Min	-0.221	-0.029	-0.054	-0.0082
685	1.44503	Enve Design	Combination	Min	-0.2	0.007086	-0.239	-0.0082
686	0	Enve Design	Combination	Max	-0.322	0.012	0.274	0.0108
686	0.72252	Enve Design	Combination	Max	-0.301	0.048	0.089	0.0108
686	1.44503	Enve Design	Combination	Max	-0.279	0.085	0.469	0.0108
686	0	Enve Design	Combination	Min	-1.2	-0.213	-1.005	-0.0112
686	0.72252	Enve Design	Combination	Min	-1.173	-0.165	-0.304	-0.0112
686	1.44503	Enve Design	Combination	Min	-1.144	-0.115	-0.114	-0.0112
687	0	Enve Design	Combination	Max	0.462	0.054	0.378	0.0161
687	0.72252	Enve Design	Combination	Max	0.484	0.092	0.146	0.0161
687	1.44503	Enve Design	Combination	Max	0.504	0.127	0.331	0.0161
687	0	Enve Design	Combination	Min	-0.795	-0.284	-0.057	-0.0143
687	0.72252	Enve Design	Combination	Min	-0.766	-0.235	-0.394	-0.0143
687	1.44503	Enve Design	Combination	Min	-0.739	-0.187	-1.095	-0.0143
688	0	Enve Design	Combination	Max	-0.563	0.355	1.451	0.0174
688	0.72252	Enve Design	Combination	Max	-0.542	0.402	0.75	0.0174
688	1.44503	Enve Design	Combination	Max	-0.52	0.452	0.157	0.0174
688	0	Enve Design	Combination	Min	-1.321	-0.233	-0.546	-0.0155
688	0.72252	Enve Design	Combination	Min	-1.289	-0.197	-0.362	-0.0155
688	1.44503	Enve Design	Combination	Min	-1.255	-0.16	-0.19	-0.0155
689	0	Enve Design	Combination	Max	1.058	-0.067	0.928	0.1411
689	0.41667	Enve Design	Combination	Max	1.058	-0.00853	0.885	0.1411
689	0.83333	Enve Design	Combination	Max	1.058	0.059	0.756	0.1411
689	1.25	Enve Design	Combination	Max	1.058	0.123	0.669	0.1411
689	1.25	Enve Design	Combination	Max	0.453	0.034	2.45	0.243
689	1.66667	Enve Design	Combination	Max	0.453	0.098	2.777	0.243
689	2.08333	Enve Design	Combination	Max	0.453	0.166	3.269	0.243
689	2.5	Enve Design	Combination	Max	0.453	0.243	3.432	0.243
689	0	Enve Design	Combination	Min	-0.348	-0.317	-3.19	-0.0954
689	0.41667	Enve Design	Combination	Min	-0.348	-0.238	-3.026	-0.0954
689	0.83333	Enve Design	Combination	Min	-0.348	-0.148	-2.535	-0.0954
689	1.25	Enve Design	Combination	Min	-0.348	-0.063	-2.208	-0.0954
689	1.25	Enve Design	Combination	Min	-1.023	-0.188	-0.966	-0.2908
689	1.66667	Enve Design	Combination	Min	-1.023	-0.104	-1.052	-0.2908
689	2.08333	Enve Design	Combination	Min	-1.023	-0.013	-1.181	-0.2908
689	2.5	Enve Design	Combination	Min	-1.023	0.065	-1.224	-0.2908
691	0	Enve Design	Combination	Max	0.236	0.094	0.166	0.0183
691	0.41667	Enve Design	Combination	Max	0.236	0.114	0.188	0.0183
691	0.83333	Enve Design	Combination	Max	0.236	0.138	0.253	0.0183
691	1.25	Enve Design	Combination	Max	0.236	0.16	0.296	0.0183
691	1.25	Enve Design	Combination	Max	0.231	0.327	0.451	0.0237

Table: Element Forces - Frames, Part 1 of 2

Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T
	m				KN	KN	KN	KN-m
691	1.66667	Enve Design	Combination	Max	0.231	0.356	0.572	0.0237
691	2.08333	Enve Design	Combination	Max	0.231	0.388	0.753	0.0237
691	2.5	Enve Design	Combination	Max	0.231	0.414	0.813	0.0237
691	0	Enve Design	Combination	Min	-0.231	-0.447	-0.813	-0.0237
691	0.41667	Enve Design	Combination	Min	-0.231	-0.421	-0.753	-0.0237
691	0.83333	Enve Design	Combination	Min	-0.231	-0.389	-0.572	-0.0237
691	1.25	Enve Design	Combination	Min	-0.231	-0.359	-0.452	-0.0237
691	1.25	Enve Design	Combination	Min	-0.236	-0.159	-0.296	-0.0183
691	1.66667	Enve Design	Combination	Min	-0.236	-0.137	-0.253	-0.0183
691	2.08333	Enve Design	Combination	Min	-0.236	-0.113	-0.188	-0.0183
691	2.5	Enve Design	Combination	Min	-0.236	-0.093	-0.166	-0.0183
694	0	Enve Design	Combination	Max	-0.809	0.084	0.059	0.0009905
694	0.3625	Enve Design	Combination	Max	-0.788	0.084	0.134	0.0009905
694	0.725	Enve Design	Combination	Max	-0.76	0.084	0.296	0.0009905
694	0	Enve Design	Combination	Min	-1.288	-0.657	-0.731	-0.0009157
694	0.3625	Enve Design	Combination	Min	-1.255	-0.657	-1.099	-0.0009157
694	0.725	Enve Design	Combination	Min	-1.212	-0.657	-1.713	-0.0009157
695	0	Enve Design	Combination	Max	-0.551	0.943	2.219	0.0007742
695	0.3625	Enve Design	Combination	Max	-0.523	0.943	1.605	0.0007742
695	0.725	Enve Design	Combination	Max	-0.502	0.943	1.237	0.0007742
695	0	Enve Design	Combination	Min	-1.064	-0.342	-0.747	-0.0007007
695	0.3625	Enve Design	Combination	Min	-1.027	-0.342	-0.585	-0.0007007
695	0.725	Enve Design	Combination	Min	-0.999	-0.342	-0.488	-0.0007007
696	0	Enve Design	Combination	Max	-0.65	0.459	0.63	0.0004118
696	0.3625	Enve Design	Combination	Max	-0.629	0.459	0.727	0.0004118
696	0.725	Enve Design	Combination	Max	-0.601	0.459	0.888	0.0004118
696	0	Enve Design	Combination	Min	-1.276	-1.138	-1.456	-0.0003839
696	0.3625	Enve Design	Combination	Min	-1.248	-1.138	-1.824	-0.0003839
696	0.725	Enve Design	Combination	Min	-1.211	-1.138	-2.438	-0.0003839
697	0	Enve Design	Combination	Max	0.319	0.473	0.903	0.000107
697	0.3625	Enve Design	Combination	Max	0.347	0.473	0.777	0.000107
697	0.725	Enve Design	Combination	Max	0.368	0.473	0.851	0.000107
697	0	Enve Design	Combination	Min	-0.686	-0.462	-0.592	-0.0001402
697	0.3625	Enve Design	Combination	Min	-0.649	-0.462	-0.753	-0.0001402
697	0.725	Enve Design	Combination	Min	-0.621	-0.462	-0.927	-0.0001402
698	0	Enve Design	Combination	Max	-0.801	0.155	0.539	0.0155
698	0.72252	Enve Design	Combination	Max	-0.78	0.191	0.355	0.0155
698	1.44503	Enve Design	Combination	Max	-0.758	0.228	0.183	0.0155
698	0	Enve Design	Combination	Min	-1.422	-0.45	-1.447	-0.0174
698	0.72252	Enve Design	Combination	Min	-1.39	-0.402	-0.746	-0.0174
698	1.44503	Enve Design	Combination	Min	-1.356	-0.353	-0.151	-0.0174
701	0	Enve Design	Combination	Max	-10.382	0.103	24.088	0.4478
701	1.45	Enve Design	Combination	Max	-10.004	0.103	22.123	0.4478

Table: Element Forces - Frames, Part 1 of 2

Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T
	m				KN	KN	KN	KN-m
701	1.45	Enve Design	Combination	Max	-7.782	0.029	12.582	0.7834
701	2.9	Enve Design	Combination	Max	-7.404	0.029	11.531	0.7834
701	0	Enve Design	Combination	Min	-16.488	-0.084	-14.779	-0.3952
701	1.45	Enve Design	Combination	Min	-15.899	-0.084	-14.261	-0.3952
701	1.45	Enve Design	Combination	Min	-12.241	-0.001981	-10.768	-0.6827
701	2.9	Enve Design	Combination	Min	-11.652	-0.001981	-10.251	-0.6827
721	0	Enve Design	Combination	Max	0.853	0.197	0.034	0.015
721	0.72252	Enve Design	Combination	Max	0.882	0.247	0.414	0.015
721	1.44503	Enve Design	Combination	Max	0.91	0.295	1.115	0.015
721	0	Enve Design	Combination	Min	-0.334	-0.142	-0.359	-0.0168
721	0.72252	Enve Design	Combination	Min	-0.312	-0.104	-0.17	-0.0168
721	1.44503	Enve Design	Combination	Min	-0.291	-0.069	-0.354	-0.0168
722	0	Enve Design	Combination	Max	-0.022	0.121	1.015	0.0108
722	0.72252	Enve Design	Combination	Max	0.005306	0.169	0.315	0.0108
722	1.44503	Enve Design	Combination	Max	0.034	0.219	0.099	0.0108
722	0	Enve Design	Combination	Min	-0.752	-0.093	-0.289	-0.0104
722	0.72252	Enve Design	Combination	Min	-0.72	-0.058	-0.104	-0.0104
722	1.44503	Enve Design	Combination	Min	-0.686	-0.02	-0.458	-0.0104
723	0	Enve Design	Combination	Max	0.063	-0.016	0.526	0.0077
723	0.72252	Enve Design	Combination	Max	0.084	0.021	0.04	0.0077
723	1.44503	Enve Design	Combination	Max	0.105	0.057	0.225	0.0077
723	0	Enve Design	Combination	Min	-0.652	-0.182	-0.163	-0.0076
723	0.72252	Enve Design	Combination	Min	-0.623	-0.132	-0.247	-0.0076
723	1.44503	Enve Design	Combination	Min	-0.596	-0.085	-0.947	-0.0076
728	0	Enve Design	Combination	Max	0.376	0.089	0.151	0.0081
728	0.72252	Enve Design	Combination	Max	0.404	0.139	0.256	0.0081
728	1.44503	Enve Design	Combination	Max	0.432	0.186	0.957	0.0081
728	0	Enve Design	Combination	Min	-0.24	-0.065	-0.517	-0.0082
728	0.72252	Enve Design	Combination	Min	-0.218	-0.027	-0.052	-0.0082
728	1.44503	Enve Design	Combination	Min	-0.198	0.008262	-0.237	-0.0082
729	0	Enve Design	Combination	Max	-0.318	0.014	0.277	0.0108
729	0.72252	Enve Design	Combination	Max	-0.297	0.05	0.093	0.0108
729	1.44503	Enve Design	Combination	Max	-0.275	0.087	0.466	0.0108
729	0	Enve Design	Combination	Min	-1.196	-0.214	-1.008	-0.0112
729	0.72252	Enve Design	Combination	Min	-1.168	-0.167	-0.307	-0.0112
729	1.44503	Enve Design	Combination	Min	-1.139	-0.117	-0.111	-0.0112
730	0	Enve Design	Combination	Max	0.446	0.06	0.371	0.0166
730	0.72252	Enve Design	Combination	Max	0.468	0.097	0.155	0.0166
730	1.44503	Enve Design	Combination	Max	0.489	0.133	0.34	0.0166
730	0	Enve Design	Combination	Min	-0.796	-0.289	-0.049	-0.0148
730	0.72252	Enve Design	Combination	Min	-0.767	-0.239	-0.402	-0.0148
730	1.44503	Enve Design	Combination	Min	-0.739	-0.192	-1.103	-0.0148
731	0	Enve Design	Combination	Max	-0.571	0.354	1.45	0.0177

Table: Element Forces - Frames, Part 1 of 2

Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T
	m				KN	KN	KN	KN-m
731	0.72252	Enve Design	Combination	Max	-0.55	0.402	0.75	0.0177
731	1.44503	Enve Design	Combination	Max	-0.528	0.452	0.157	0.0177
731	0	Enve Design	Combination	Min	-1.339	-0.233	-0.547	-0.0158
731	0.72252	Enve Design	Combination	Min	-1.307	-0.197	-0.362	-0.0158
731	1.44503	Enve Design	Combination	Min	-1.273	-0.16	-0.191	-0.0158
732	0	Enve Design	Combination	Max	1.063	-0.064	0.998	0.15
732	0.41667	Enve Design	Combination	Max	1.063	-0.004721	0.955	0.15
732	0.83333	Enve Design	Combination	Max	1.063	0.063	0.826	0.15
732	1.25	Enve Design	Combination	Max	1.063	0.127	0.74	0.15
732	1.25	Enve Design	Combination	Max	0.448	0.038	2.393	0.1827
732	1.66667	Enve Design	Combination	Max	0.448	0.101	2.721	0.1827
732	2.08333	Enve Design	Combination	Max	0.448	0.169	3.212	0.1827
732	2.5	Enve Design	Combination	Max	0.448	0.246	3.376	0.1827
732	0	Enve Design	Combination	Min	-0.357	-0.321	-3.252	-0.088
732	0.41667	Enve Design	Combination	Min	-0.357	-0.242	-3.088	-0.088
732	0.83333	Enve Design	Combination	Min	-0.357	-0.152	-2.597	-0.088
732	1.25	Enve Design	Combination	Min	-0.357	-0.067	-2.269	-0.088
732	1.25	Enve Design	Combination	Min	-1.021	-0.191	-0.903	-0.2238
732	1.66667	Enve Design	Combination	Min	-1.021	-0.106	-0.989	-0.2238
732	2.08333	Enve Design	Combination	Min	-1.021	-0.016	-1.118	-0.2238
732	2.5	Enve Design	Combination	Min	-1.021	0.063	-1.161	-0.2238
734	0	Enve Design	Combination	Max	0.242	0.1	0.176	0.0186
734	0.41667	Enve Design	Combination	Max	0.242	0.12	0.198	0.0186
734	0.83333	Enve Design	Combination	Max	0.242	0.144	0.263	0.0186
734	1.25	Enve Design	Combination	Max	0.242	0.166	0.306	0.0186
734	1.25	Enve Design	Combination	Max	0.237	0.328	0.454	0.0239
734	1.66667	Enve Design	Combination	Max	0.237	0.357	0.574	0.0239
734	2.08333	Enve Design	Combination	Max	0.237	0.389	0.755	0.0239
734	2.5	Enve Design	Combination	Max	0.237	0.416	0.816	0.0239
734	0	Enve Design	Combination	Min	-0.237	-0.448	-0.816	-0.0239
734	0.41667	Enve Design	Combination	Min	-0.237	-0.422	-0.755	-0.0239
734	0.83333	Enve Design	Combination	Min	-0.237	-0.39	-0.574	-0.0239
734	1.25	Enve Design	Combination	Min	-0.237	-0.361	-0.454	-0.0239
734	1.25	Enve Design	Combination	Min	-0.242	-0.165	-0.306	-0.0186
734	1.66667	Enve Design	Combination	Min	-0.242	-0.143	-0.263	-0.0186
734	2.08333	Enve Design	Combination	Min	-0.242	-0.119	-0.198	-0.0186
734	2.5	Enve Design	Combination	Min	-0.242	-0.099	-0.176	-0.0186
737	0	Enve Design	Combination	Max	-0.807	0.087	0.061	0.0007882
737	0.3625	Enve Design	Combination	Max	-0.786	0.087	0.137	0.0007882
737	0.725	Enve Design	Combination	Max	-0.758	0.087	0.299	0.0007882
737	0	Enve Design	Combination	Min	-1.292	-0.659	-0.735	-0.0007231
737	0.3625	Enve Design	Combination	Min	-1.259	-0.659	-1.103	-0.0007231
737	0.725	Enve Design	Combination	Min	-1.216	-0.659	-1.717	-0.0007231

Table: Element Forces - Frames, Part 1 of 2

Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T
	m				KN	KN	KN	KN-m
738	0	Enve Design	Combination	Max	-0.545	0.941	2.215	0.0006284
738	0.3625	Enve Design	Combination	Max	-0.517	0.941	1.601	0.0006284
738	0.725	Enve Design	Combination	Max	-0.496	0.941	1.233	0.0006284
738	0	Enve Design	Combination	Min	-1.07	-0.34	-0.743	-0.0005662
738	0.3625	Enve Design	Combination	Min	-1.033	-0.34	-0.581	-0.0005662
738	0.725	Enve Design	Combination	Min	-1.005	-0.34	-0.484	-0.0005662
739	0	Enve Design	Combination	Max	-0.643	0.465	0.64	0.0003366
739	0.3625	Enve Design	Combination	Max	-0.622	0.465	0.737	0.0003366
739	0.725	Enve Design	Combination	Max	-0.595	0.465	0.899	0.0003366
739	0	Enve Design	Combination	Min	-1.281	-1.143	-1.465	-0.0003221
739	0.3625	Enve Design	Combination	Min	-1.253	-1.143	-1.833	-0.0003221
739	0.725	Enve Design	Combination	Min	-1.216	-1.143	-2.447	-0.0003221
740	0	Enve Design	Combination	Max	0.331	0.484	0.907	9.729E-05
740	0.3625	Enve Design	Combination	Max	0.358	0.484	0.796	9.729E-05
740	0.725	Enve Design	Combination	Max	0.38	0.484	0.872	9.729E-05
740	0	Enve Design	Combination	Min	-0.689	-0.474	-0.612	-0.0001403
740	0.3625	Enve Design	Combination	Min	-0.652	-0.474	-0.773	-0.0001403
740	0.725	Enve Design	Combination	Min	-0.623	-0.474	-0.949	-0.0001403
741	0	Enve Design	Combination	Max	-0.798	0.157	0.543	0.0158
741	0.72252	Enve Design	Combination	Max	-0.777	0.193	0.359	0.0158
741	1.44503	Enve Design	Combination	Max	-0.756	0.23	0.187	0.0158
741	0	Enve Design	Combination	Min	-1.413	-0.451	-1.449	-0.0177
741	0.72252	Enve Design	Combination	Min	-1.381	-0.404	-0.749	-0.0177
741	1.44503	Enve Design	Combination	Min	-1.347	-0.354	-0.155	-0.0177
744	0	Enve Design	Combination	Max	-10.406	0.103	24.103	0.3809
744	1.45	Enve Design	Combination	Max	-10.027	0.103	22.138	0.3809
744	1.45	Enve Design	Combination	Max	-7.805	0.028	12.656	0.6612
744	2.9	Enve Design	Combination	Max	-7.426	0.028	11.605	0.6612
744	0	Enve Design	Combination	Min	-16.503	-0.082	-14.823	-0.358
744	1.45	Enve Design	Combination	Min	-15.915	-0.082	-14.305	-0.358
744	1.45	Enve Design	Combination	Min	-12.252	-0.001066	-10.839	-0.6152
744	2.9	Enve Design	Combination	Min	-11.663	-0.001066	-10.322	-0.6152
764	0	Enve Design	Combination	Max	0.86	0.196	0.036	0.0151
764	0.72252	Enve Design	Combination	Max	0.888	0.246	0.412	0.0151
764	1.44503	Enve Design	Combination	Max	0.916	0.294	1.113	0.0151
764	0	Enve Design	Combination	Min	-0.329	-0.141	-0.361	-0.017
764	0.72252	Enve Design	Combination	Min	-0.307	-0.103	-0.167	-0.017
764	1.44503	Enve Design	Combination	Min	-0.286	-0.068	-0.352	-0.017
765	0	Enve Design	Combination	Max	-0.024	0.12	1.013	0.011
765	0.72252	Enve Design	Combination	Max	0.003458	0.167	0.312	0.011
765	1.44503	Enve Design	Combination	Max	0.032	0.217	0.103	0.011
765	0	Enve Design	Combination	Min	-0.757	-0.091	-0.285	-0.0106
765	0.72252	Enve Design	Combination	Min	-0.724	-0.056	-0.101	-0.0106

Table: Element Forces - Frames, Part 1 of 2

Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T
	m				KN	KN	KN	KN-m
765	1.44503	Enve Design	Combination	Min	-0.691	-0.018	-0.461	-0.0106
766	0	Enve Design	Combination	Max	0.056	-0.014	0.523	0.0079
766	0.72252	Enve Design	Combination	Max	0.078	0.023	0.044	0.0079
766	1.44503	Enve Design	Combination	Max	0.099	0.059	0.228	0.0079
766	0	Enve Design	Combination	Min	-0.653	-0.184	-0.16	-0.0079
766	0.72252	Enve Design	Combination	Min	-0.624	-0.134	-0.249	-0.0079
766	1.44503	Enve Design	Combination	Min	-0.597	-0.086	-0.95	-0.0079
771	0	Enve Design	Combination	Max	0.379	0.088	0.153	0.0081
771	0.72252	Enve Design	Combination	Max	0.408	0.138	0.255	0.0081
771	1.44503	Enve Design	Combination	Max	0.435	0.186	0.956	0.0081
771	0	Enve Design	Combination	Min	-0.238	-0.064	-0.518	-0.0082
771	0.72252	Enve Design	Combination	Min	-0.216	-0.026	-0.051	-0.0082
771	1.44503	Enve Design	Combination	Min	-0.196	0.009217	-0.235	-0.0082
772	0	Enve Design	Combination	Max	-0.315	0.015	0.279	0.0108
772	0.72252	Enve Design	Combination	Max	-0.294	0.051	0.094	0.0108
772	1.44503	Enve Design	Combination	Max	-0.272	0.088	0.465	0.0108
772	0	Enve Design	Combination	Min	-1.193	-0.215	-1.009	-0.0112
772	0.72252	Enve Design	Combination	Min	-1.166	-0.167	-0.308	-0.0112
772	1.44503	Enve Design	Combination	Min	-1.137	-0.117	-0.109	-0.0112
773	0	Enve Design	Combination	Max	0.435	0.063	0.367	0.0168
773	0.72252	Enve Design	Combination	Max	0.457	0.1	0.16	0.0168
773	1.44503	Enve Design	Combination	Max	0.477	0.136	0.344	0.0168
773	0	Enve Design	Combination	Min	-0.797	-0.291	-0.044	-0.015
773	0.72252	Enve Design	Combination	Min	-0.768	-0.241	-0.406	-0.015
773	1.44503	Enve Design	Combination	Min	-0.741	-0.194	-1.107	-0.015
774	0	Enve Design	Combination	Max	-0.577	0.354	1.45	0.0179
774	0.72252	Enve Design	Combination	Max	-0.556	0.402	0.75	0.0179
774	1.44503	Enve Design	Combination	Max	-0.535	0.451	0.157	0.0179
774	0	Enve Design	Combination	Min	-1.351	-0.233	-0.547	-0.016
774	0.72252	Enve Design	Combination	Min	-1.319	-0.197	-0.362	-0.016
774	1.44503	Enve Design	Combination	Min	-1.285	-0.16	-0.191	-0.016
775	0	Enve Design	Combination	Max	1.067	-0.061	1.038	0.1508
775	0.41667	Enve Design	Combination	Max	1.067	-0.002529	0.995	0.1508
775	0.83333	Enve Design	Combination	Max	1.067	0.065	0.866	0.1508
775	1.25	Enve Design	Combination	Max	1.067	0.129	0.779	0.1508
775	1.25	Enve Design	Combination	Max	0.444	0.04	2.364	0.1519
775	1.66667	Enve Design	Combination	Max	0.444	0.103	2.691	0.1519
775	2.08333	Enve Design	Combination	Max	0.444	0.171	3.183	0.1519
775	2.5	Enve Design	Combination	Max	0.444	0.248	3.346	0.1519
775	0	Enve Design	Combination	Min	-0.364	-0.323	-3.283	-0.0831
775	0.41667	Enve Design	Combination	Min	-0.364	-0.244	-3.119	-0.0831
775	0.83333	Enve Design	Combination	Min	-0.364	-0.154	-2.628	-0.0831
775	1.25	Enve Design	Combination	Min	-0.364	-0.069	-2.3	-0.0831

Table: Element Forces - Frames, Part 1 of 2

Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T
	m				KN	KN	KN	KN-m
775	1.25	Enve Design	Combination	Min	-1.018	-0.192	-0.866	-0.1992
775	1.66667	Enve Design	Combination	Min	-1.018	-0.107	-0.952	-0.1992
775	2.08333	Enve Design	Combination	Min	-1.018	-0.017	-1.082	-0.1992
775	2.5	Enve Design	Combination	Min	-1.018	0.062	-1.125	-0.1992
777	0	Enve Design	Combination	Max	0.245	0.103	0.182	0.0187
777	0.41667	Enve Design	Combination	Max	0.245	0.123	0.203	0.0187
777	0.83333	Enve Design	Combination	Max	0.245	0.147	0.268	0.0187
777	1.25	Enve Design	Combination	Max	0.245	0.169	0.311	0.0187
777	1.25	Enve Design	Combination	Max	0.24	0.329	0.455	0.024
777	1.66667	Enve Design	Combination	Max	0.24	0.358	0.576	0.024
777	2.08333	Enve Design	Combination	Max	0.24	0.39	0.757	0.024
777	2.5	Enve Design	Combination	Max	0.24	0.416	0.817	0.024
777	0	Enve Design	Combination	Min	-0.24	-0.449	-0.817	-0.024
777	0.41667	Enve Design	Combination	Min	-0.24	-0.423	-0.757	-0.024
777	0.83333	Enve Design	Combination	Min	-0.24	-0.391	-0.576	-0.024
777	1.25	Enve Design	Combination	Min	-0.24	-0.362	-0.455	-0.024
777	1.25	Enve Design	Combination	Min	-0.245	-0.168	-0.311	-0.0187
777	1.66667	Enve Design	Combination	Min	-0.245	-0.146	-0.268	-0.0187
777	2.08333	Enve Design	Combination	Min	-0.245	-0.121	-0.203	-0.0187
777	2.5	Enve Design	Combination	Min	-0.245	-0.102	-0.182	-0.0187
780	0	Enve Design	Combination	Max	-0.804	0.088	0.063	0.0006628
780	0.3625	Enve Design	Combination	Max	-0.783	0.088	0.14	0.0006628
780	0.725	Enve Design	Combination	Max	-0.756	0.088	0.301	0.0006628
780	0	Enve Design	Combination	Min	-1.292	-0.661	-0.737	-0.000638
780	0.3625	Enve Design	Combination	Min	-1.259	-0.661	-1.106	-0.000638
780	0.725	Enve Design	Combination	Min	-1.216	-0.661	-1.72	-0.000638
781	0	Enve Design	Combination	Max	-0.54	0.939	2.213	0.0005344
781	0.3625	Enve Design	Combination	Max	-0.513	0.939	1.598	0.0005344
781	0.725	Enve Design	Combination	Max	-0.491	0.939	1.23	0.0005344
781	0	Enve Design	Combination	Min	-1.072	-0.339	-0.741	-0.0005024
781	0.3625	Enve Design	Combination	Min	-1.035	-0.339	-0.579	-0.0005024
781	0.725	Enve Design	Combination	Min	-1.007	-0.339	-0.482	-0.0005024
782	0	Enve Design	Combination	Max	-0.638	0.469	0.646	0.0002879
782	0.3625	Enve Design	Combination	Max	-0.617	0.469	0.743	0.0002879
782	0.725	Enve Design	Combination	Max	-0.589	0.469	0.905	0.0002879
782	0	Enve Design	Combination	Min	-1.284	-1.146	-1.469	-0.0002889
782	0.3625	Enve Design	Combination	Min	-1.255	-1.146	-1.838	-0.0002889
782	0.725	Enve Design	Combination	Min	-1.218	-1.146	-2.452	-0.0002889
783	0	Enve Design	Combination	Max	0.337	0.49	0.91	9.023E-05
783	0.3625	Enve Design	Combination	Max	0.364	0.49	0.805	9.023E-05
783	0.725	Enve Design	Combination	Max	0.385	0.49	0.882	9.023E-05
783	0	Enve Design	Combination	Min	-0.69	-0.48	-0.622	-0.000136
783	0.3625	Enve Design	Combination	Min	-0.653	-0.48	-0.784	-0.000136

Table: Element Forces - Frames, Part 1 of 2

Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T
	m				KN	KN	KN	KN-m
783	0.725	Enve Design	Combination	Min	-0.625	-0.48	-0.96	-0.000136
784	0	Enve Design	Combination	Max	-0.794	0.158	0.545	0.0159
784	0.72252	Enve Design	Combination	Max	-0.773	0.194	0.36	0.0159
784	1.44503	Enve Design	Combination	Max	-0.751	0.231	0.189	0.0159
784	0	Enve Design	Combination	Min	-1.403	-0.452	-1.45	-0.0179
784	0.72252	Enve Design	Combination	Min	-1.371	-0.404	-0.75	-0.0179
784	1.44503	Enve Design	Combination	Min	-1.337	-0.355	-0.157	-0.0179
787	0	Enve Design	Combination	Max	-10.416	0.104	24.096	0.3119
787	1.45	Enve Design	Combination	Max	-10.037	0.104	22.131	0.3119
787	1.45	Enve Design	Combination	Max	-7.814	0.028	12.675	0.5348
787	2.9	Enve Design	Combination	Max	-7.436	0.028	11.625	0.5348
787	0	Enve Design	Combination	Min	-16.503	-0.081	-14.826	-0.3016
787	1.45	Enve Design	Combination	Min	-15.914	-0.081	-14.309	-0.3016
787	1.45	Enve Design	Combination	Min	-12.25	-0.0006233	-10.859	-0.5136
787	2.9	Enve Design	Combination	Min	-11.661	-0.0006233	-10.342	-0.5136
807	0	Enve Design	Combination	Max	0.866	0.196	0.038	0.0152
807	0.72252	Enve Design	Combination	Max	0.894	0.246	0.411	0.0152
807	1.44503	Enve Design	Combination	Max	0.922	0.293	1.112	0.0152
807	0	Enve Design	Combination	Min	-0.323	-0.14	-0.362	-0.017
807	0.72252	Enve Design	Combination	Min	-0.302	-0.102	-0.166	-0.017
807	1.44503	Enve Design	Combination	Min	-0.281	-0.067	-0.351	-0.017
808	0	Enve Design	Combination	Max	-0.025	0.119	1.011	0.0111
808	0.72252	Enve Design	Combination	Max	0.002537	0.166	0.31	0.0111
808	1.44503	Enve Design	Combination	Max	0.031	0.216	0.105	0.0111
808	0	Enve Design	Combination	Min	-0.76	-0.09	-0.283	-0.0107
808	0.72252	Enve Design	Combination	Min	-0.728	-0.055	-0.099	-0.0107
808	1.44503	Enve Design	Combination	Min	-0.694	-0.017	-0.463	-0.0107
809	0	Enve Design	Combination	Max	0.051	-0.013	0.522	0.0081
809	0.72252	Enve Design	Combination	Max	0.073	0.024	0.046	0.0081
809	1.44503	Enve Design	Combination	Max	0.094	0.06	0.231	0.0081
809	0	Enve Design	Combination	Min	-0.653	-0.185	-0.158	-0.008
809	0.72252	Enve Design	Combination	Min	-0.625	-0.135	-0.251	-0.008
809	1.44503	Enve Design	Combination	Min	-0.597	-0.087	-0.952	-0.008
814	0	Enve Design	Combination	Max	0.382	0.088	0.154	0.0081
814	0.72252	Enve Design	Combination	Max	0.411	0.138	0.254	0.0081
814	1.44503	Enve Design	Combination	Max	0.439	0.185	0.955	0.0081
814	0	Enve Design	Combination	Min	-0.236	-0.063	-0.519	-0.0082
814	0.72252	Enve Design	Combination	Min	-0.215	-0.026	-0.049	-0.0082
814	1.44503	Enve Design	Combination	Min	-0.194	0.009863	-0.234	-0.0082
815	0	Enve Design	Combination	Max	-0.312	0.016	0.28	0.0108
815	0.72252	Enve Design	Combination	Max	-0.291	0.051	0.096	0.0108
815	1.44503	Enve Design	Combination	Max	-0.27	0.089	0.464	0.0108
815	0	Enve Design	Combination	Min	-1.191	-0.215	-1.01	-0.0112

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Table: Element Forces - Frames, Part 1 of 2

Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T
	m				KN	KN	KN	KN-m
815	0.72252	Enve Design	Combination	Min	-1.163	-0.168	-0.309	-0.0112
815	1.44503	Enve Design	Combination	Min	-1.134	-0.118	-0.108	-0.0112
816	0	Enve Design	Combination	Max	0.426	0.064	0.365	0.017
816	0.72252	Enve Design	Combination	Max	0.448	0.101	0.162	0.017
816	1.44503	Enve Design	Combination	Max	0.469	0.137	0.347	0.017
816	0	Enve Design	Combination	Min	-0.8	-0.292	-0.041	-0.0151
816	0.72252	Enve Design	Combination	Min	-0.771	-0.243	-0.408	-0.0151
816	1.44503	Enve Design	Combination	Min	-0.744	-0.195	-1.109	-0.0151
817	0	Enve Design	Combination	Max	-0.583	0.354	1.45	0.018
817	0.72252	Enve Design	Combination	Max	-0.562	0.402	0.749	0.018
817	1.44503	Enve Design	Combination	Max	-0.541	0.451	0.157	0.018
817	0	Enve Design	Combination	Min	-1.36	-0.233	-0.547	-0.016
817	0.72252	Enve Design	Combination	Min	-1.328	-0.197	-0.362	-0.016
817	1.44503	Enve Design	Combination	Min	-1.294	-0.16	-0.191	-0.016
818	0	Enve Design	Combination	Max	1.071	-0.06	1.06	0.1646
818	0.41667	Enve Design	Combination	Max	1.071	-0.001283	1.017	0.1646
818	0.83333	Enve Design	Combination	Max	1.071	0.067	0.888	0.1646
818	1.25	Enve Design	Combination	Max	1.071	0.13	0.802	0.1646
818	1.25	Enve Design	Combination	Max	0.44	0.041	2.348	0.1356
818	1.66667	Enve Design	Combination	Max	0.44	0.104	2.675	0.1356
818	2.08333	Enve Design	Combination	Max	0.44	0.172	3.167	0.1356
818	2.5	Enve Design	Combination	Max	0.44	0.249	3.331	0.1356
818	0	Enve Design	Combination	Min	-0.368	-0.324	-3.3	-0.1021
818	0.41667	Enve Design	Combination	Min	-0.368	-0.245	-3.136	-0.1021
818	0.83333	Enve Design	Combination	Min	-0.368	-0.155	-2.645	-0.1021
818	1.25	Enve Design	Combination	Min	-0.368	-0.07	-2.317	-0.1021
818	1.25	Enve Design	Combination	Min	-1.014	-0.192	-0.845	-0.1875
818	1.66667	Enve Design	Combination	Min	-1.014	-0.108	-0.931	-0.1875
818	2.08333	Enve Design	Combination	Min	-1.014	-0.017	-1.061	-0.1875
818	2.5	Enve Design	Combination	Min	-1.014	0.061	-1.104	-0.1875
820	0	Enve Design	Combination	Max	0.246	0.105	0.184	0.0188
820	0.41667	Enve Design	Combination	Max	0.246	0.125	0.206	0.0188
820	0.83333	Enve Design	Combination	Max	0.246	0.149	0.27	0.0188
820	1.25	Enve Design	Combination	Max	0.246	0.171	0.314	0.0188
820	1.25	Enve Design	Combination	Max	0.242	0.329	0.456	0.024
820	1.66667	Enve Design	Combination	Max	0.242	0.358	0.576	0.024
820	2.08333	Enve Design	Combination	Max	0.242	0.391	0.757	0.024
820	2.5	Enve Design	Combination	Max	0.242	0.417	0.818	0.024
820	0	Enve Design	Combination	Min	-0.242	-0.45	-0.818	-0.024
820	0.41667	Enve Design	Combination	Min	-0.242	-0.423	-0.757	-0.024
820	0.83333	Enve Design	Combination	Min	-0.242	-0.391	-0.576	-0.024
820	1.25	Enve Design	Combination	Min	-0.242	-0.362	-0.456	-0.024
820	1.25	Enve Design	Combination	Min	-0.246	-0.169	-0.313	-0.0188

Table: Element Forces - Frames, Part 1 of 2

Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T
	m				KN	KN	KN	KN-m
820	1.66667	Enve Design	Combination	Min	-0.246	-0.147	-0.27	-0.0188
820	2.08333	Enve Design	Combination	Min	-0.246	-0.123	-0.206	-0.0188
820	2.5	Enve Design	Combination	Min	-0.246	-0.103	-0.184	-0.0188
823	0	Enve Design	Combination	Max	-0.802	0.089	0.065	0.0004981
823	0.3625	Enve Design	Combination	Max	-0.781	0.089	0.141	0.0004981
823	0.725	Enve Design	Combination	Max	-0.754	0.089	0.303	0.0004981
823	0	Enve Design	Combination	Min	-1.292	-0.662	-0.739	-0.0004918
823	0.3625	Enve Design	Combination	Min	-1.259	-0.662	-1.107	-0.0004918
823	0.725	Enve Design	Combination	Min	-1.216	-0.662	-1.721	-0.0004918
824	0	Enve Design	Combination	Max	-0.537	0.938	2.211	0.0004064
824	0.3625	Enve Design	Combination	Max	-0.51	0.938	1.597	0.0004064
824	0.725	Enve Design	Combination	Max	-0.488	0.938	1.229	0.0004064
824	0	Enve Design	Combination	Min	-1.073	-0.338	-0.739	-0.0003875
824	0.3625	Enve Design	Combination	Min	-1.036	-0.338	-0.577	-0.0003875
824	0.725	Enve Design	Combination	Min	-1.008	-0.338	-0.48	-0.0003875
825	0	Enve Design	Combination	Max	-0.635	0.471	0.649	0.0002181
825	0.3625	Enve Design	Combination	Max	-0.614	0.471	0.746	0.0002181
825	0.725	Enve Design	Combination	Max	-0.586	0.471	0.908	0.0002181
825	0	Enve Design	Combination	Min	-1.285	-1.147	-1.471	-0.0002255
825	0.3625	Enve Design	Combination	Min	-1.256	-1.147	-1.84	-0.0002255
825	0.725	Enve Design	Combination	Min	-1.219	-1.147	-2.454	-0.0002255
826	0	Enve Design	Combination	Max	0.34	0.493	0.912	7.342E-05
826	0.3625	Enve Design	Combination	Max	0.367	0.493	0.81	7.342E-05
826	0.725	Enve Design	Combination	Max	0.388	0.493	0.887	7.342E-05
826	0	Enve Design	Combination	Min	-0.691	-0.483	-0.627	-0.0001201
826	0.3625	Enve Design	Combination	Min	-0.654	-0.483	-0.789	-0.0001201
826	0.725	Enve Design	Combination	Min	-0.626	-0.483	-0.966	-0.0001201
827	0	Enve Design	Combination	Max	-0.789	0.158	0.546	0.016
827	0.72252	Enve Design	Combination	Max	-0.768	0.194	0.361	0.016
827	1.44503	Enve Design	Combination	Max	-0.747	0.231	0.189	0.016
827	0	Enve Design	Combination	Min	-1.394	-0.452	-1.451	-0.0179
827	0.72252	Enve Design	Combination	Min	-1.361	-0.405	-0.75	-0.0179
827	1.44503	Enve Design	Combination	Min	-1.328	-0.355	-0.158	-0.0179
830	0	Enve Design	Combination	Max	-10.421	0.105	24.089	0.2135
830	1.45	Enve Design	Combination	Max	-10.042	0.105	22.124	0.2135
830	1.45	Enve Design	Combination	Max	-7.819	0.028	12.679	0.3615
830	2.9	Enve Design	Combination	Max	-7.44	0.028	11.629	0.3615
830	0	Enve Design	Combination	Min	-16.501	-0.08	-14.822	-0.2091
830	1.45	Enve Design	Combination	Min	-15.912	-0.08	-14.305	-0.2091
830	1.45	Enve Design	Combination	Min	-12.248	-0.0008343	-10.864	-0.3523
830	2.9	Enve Design	Combination	Min	-11.659	-0.0008343	-10.347	-0.3523
850	0	Enve Design	Combination	Max	0.872	0.196	0.038	0.0152
850	0.72252	Enve Design	Combination	Max	0.901	0.245	0.411	0.0152

Table: Element Forces - Frames, Part 1 of 2

Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T
	m				KN	KN	KN	KN-m
850	1.44503	Enve Design	Combination	Max	0.929	0.293	1.112	0.0152
850	0	Enve Design	Combination	Min	-0.318	-0.139	-0.362	-0.017
850	0.72252	Enve Design	Combination	Min	-0.296	-0.102	-0.165	-0.017
850	1.44503	Enve Design	Combination	Min	-0.276	-0.066	-0.35	-0.017
851	0	Enve Design	Combination	Max	-0.026	0.118	1.011	0.0112
851	0.72252	Enve Design	Combination	Max	0.001763	0.166	0.31	0.0112
851	1.44503	Enve Design	Combination	Max	0.031	0.216	0.106	0.0112
851	0	Enve Design	Combination	Min	-0.763	-0.09	-0.282	-0.0107
851	0.72252	Enve Design	Combination	Min	-0.731	-0.054	-0.098	-0.0107
851	1.44503	Enve Design	Combination	Min	-0.697	-0.017	-0.463	-0.0107
852	0	Enve Design	Combination	Max	0.047	-0.012	0.521	0.0081
852	0.72252	Enve Design	Combination	Max	0.069	0.025	0.047	0.0081
852	1.44503	Enve Design	Combination	Max	0.09	0.061	0.232	0.0081
852	0	Enve Design	Combination	Min	-0.654	-0.185	-0.156	-0.008
852	0.72252	Enve Design	Combination	Min	-0.625	-0.136	-0.252	-0.008
852	1.44503	Enve Design	Combination	Min	-0.598	-0.088	-0.953	-0.008
857	0	Enve Design	Combination	Max	0.385	0.087	0.155	0.0081
857	0.72252	Enve Design	Combination	Max	0.414	0.137	0.253	0.0081
857	1.44503	Enve Design	Combination	Max	0.442	0.185	0.954	0.0081
857	0	Enve Design	Combination	Min	-0.235	-0.063	-0.52	-0.0082
857	0.72252	Enve Design	Combination	Min	-0.213	-0.025	-0.049	-0.0082
857	1.44503	Enve Design	Combination	Min	-0.192	0.01	-0.233	-0.0082
858	0	Enve Design	Combination	Max	-0.31	0.016	0.281	0.0108
858	0.72252	Enve Design	Combination	Max	-0.289	0.052	0.096	0.0108
858	1.44503	Enve Design	Combination	Max	-0.267	0.089	0.464	0.0108
858	0	Enve Design	Combination	Min	-1.188	-0.215	-1.01	-0.0112
858	0.72252	Enve Design	Combination	Min	-1.16	-0.168	-0.309	-0.0112
858	1.44503	Enve Design	Combination	Min	-1.131	-0.118	-0.107	-0.0112
859	0	Enve Design	Combination	Max	0.419	0.065	0.364	0.017
859	0.72252	Enve Design	Combination	Max	0.441	0.102	0.164	0.017
859	1.44503	Enve Design	Combination	Max	0.461	0.138	0.349	0.017
859	0	Enve Design	Combination	Min	-0.805	-0.293	-0.04	-0.0152
859	0.72252	Enve Design	Combination	Min	-0.776	-0.243	-0.409	-0.0152
859	1.44503	Enve Design	Combination	Min	-0.748	-0.196	-1.11	-0.0152
860	0	Enve Design	Combination	Max	-0.589	0.354	1.45	0.018
860	0.72252	Enve Design	Combination	Max	-0.568	0.402	0.749	0.018
860	1.44503	Enve Design	Combination	Max	-0.546	0.451	0.157	0.018
860	0	Enve Design	Combination	Min	-1.369	-0.233	-0.547	-0.0161
860	0.72252	Enve Design	Combination	Min	-1.336	-0.197	-0.362	-0.0161
860	1.44503	Enve Design	Combination	Min	-1.303	-0.16	-0.191	-0.0161
861	0	Enve Design	Combination	Max	1.077	-0.06	1.073	0.1719
861	0.41667	Enve Design	Combination	Max	1.077	-0.0005894	1.03	0.1719
861	0.83333	Enve Design	Combination	Max	1.077	0.067	0.901	0.1719

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Table: Element Forces - Frames, Part 1 of 2

Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T
	m				KN	KN	KN	KN-m
861	1.25	Enve Design	Combination	Max	1.077	0.131	0.815	0.1719
861	1.25	Enve Design	Combination	Max	0.438	0.042	2.339	0.1263
861	1.66667	Enve Design	Combination	Max	0.438	0.105	2.666	0.1263
861	2.08333	Enve Design	Combination	Max	0.438	0.173	3.158	0.1263
861	2.5	Enve Design	Combination	Max	0.438	0.25	3.322	0.1263
861	0	Enve Design	Combination	Min	-0.371	-0.324	-3.309	-0.1127
861	0.41667	Enve Design	Combination	Min	-0.371	-0.245	-3.145	-0.1127
861	0.83333	Enve Design	Combination	Min	-0.371	-0.155	-2.654	-0.1127
861	1.25	Enve Design	Combination	Min	-0.371	-0.07	-2.326	-0.1127
861	1.25	Enve Design	Combination	Min	-1.008	-0.193	-0.833	-0.1811
861	1.66667	Enve Design	Combination	Min	-1.008	-0.108	-0.919	-0.1811
861	2.08333	Enve Design	Combination	Min	-1.008	-0.018	-1.048	-0.1811
861	2.5	Enve Design	Combination	Min	-1.008	0.061	-1.091	-0.1811
863	0	Enve Design	Combination	Max	0.247	0.106	0.185	0.0188
863	0.41667	Enve Design	Combination	Max	0.247	0.125	0.207	0.0188
863	0.83333	Enve Design	Combination	Max	0.247	0.149	0.272	0.0188
863	1.25	Enve Design	Combination	Max	0.247	0.171	0.315	0.0188
863	1.25	Enve Design	Combination	Max	0.242	0.329	0.456	0.024
863	1.66667	Enve Design	Combination	Max	0.242	0.359	0.577	0.024
863	2.08333	Enve Design	Combination	Max	0.242	0.391	0.758	0.024
863	2.5	Enve Design	Combination	Max	0.242	0.417	0.818	0.024
863	0	Enve Design	Combination	Min	-0.242	-0.45	-0.818	-0.024
863	0.41667	Enve Design	Combination	Min	-0.242	-0.424	-0.758	-0.024
863	0.83333	Enve Design	Combination	Min	-0.242	-0.391	-0.577	-0.024
863	1.25	Enve Design	Combination	Min	-0.242	-0.362	-0.456	-0.024
863	1.25	Enve Design	Combination	Min	-0.247	-0.17	-0.315	-0.0188
863	1.66667	Enve Design	Combination	Min	-0.247	-0.148	-0.272	-0.0188
863	2.08333	Enve Design	Combination	Min	-0.247	-0.124	-0.207	-0.0188
863	2.5	Enve Design	Combination	Min	-0.247	-0.104	-0.185	-0.0188
866	0	Enve Design	Combination	Max	-0.801	0.09	0.066	0.0002807
866	0.3625	Enve Design	Combination	Max	-0.78	0.09	0.142	0.0002807
866	0.725	Enve Design	Combination	Max	-0.752	0.09	0.304	0.0002807
866	0	Enve Design	Combination	Min	-1.292	-0.662	-0.739	-0.0002837
866	0.3625	Enve Design	Combination	Min	-1.259	-0.662	-1.108	-0.0002837
866	0.725	Enve Design	Combination	Min	-1.215	-0.662	-1.722	-0.0002837
867	0	Enve Design	Combination	Max	-0.536	0.938	2.21	0.0002366
867	0.3625	Enve Design	Combination	Max	-0.508	0.938	1.596	0.0002366
867	0.725	Enve Design	Combination	Max	-0.487	0.938	1.228	0.0002366
867	0	Enve Design	Combination	Min	-1.074	-0.337	-0.738	-0.000224
867	0.3625	Enve Design	Combination	Min	-1.037	-0.337	-0.576	-0.000224
867	0.725	Enve Design	Combination	Min	-1.008	-0.337	-0.479	-0.000224
868	0	Enve Design	Combination	Max	-0.634	0.472	0.651	0.0001256
868	0.3625	Enve Design	Combination	Max	-0.612	0.472	0.748	0.0001256

Table: Element Forces - Frames, Part 1 of 2

Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T
	m				KN	KN	KN	KN-m
868	0.725	Enve Design	Combination	Max	-0.585	0.472	0.909	0.0001256
868	0	Enve Design	Combination	Min	-1.286	-1.148	-1.472	-0.0001359
868	0.3625	Enve Design	Combination	Min	-1.257	-1.148	-1.841	-0.0001359
868	0.725	Enve Design	Combination	Min	-1.22	-1.148	-2.455	-0.0001359
869	0	Enve Design	Combination	Max	0.341	0.494	0.912	5.141E-05
869	0.3625	Enve Design	Combination	Max	0.369	0.494	0.812	5.141E-05
869	0.725	Enve Design	Combination	Max	0.39	0.494	0.889	5.141E-05
869	0	Enve Design	Combination	Min	-0.692	-0.485	-0.629	-9.837E-05
869	0.3625	Enve Design	Combination	Min	-0.655	-0.485	-0.791	-9.837E-05
869	0.725	Enve Design	Combination	Min	-0.626	-0.485	-0.968	-9.837E-05
870	0	Enve Design	Combination	Max	-0.784	0.159	0.546	0.0161
870	0.72252	Enve Design	Combination	Max	-0.764	0.194	0.361	0.0161
870	1.44503	Enve Design	Combination	Max	-0.742	0.232	0.19	0.0161
870	0	Enve Design	Combination	Min	-1.385	-0.452	-1.451	-0.018
870	0.72252	Enve Design	Combination	Min	-1.353	-0.405	-0.75	-0.018
870	1.44503	Enve Design	Combination	Min	-1.319	-0.355	-0.158	-0.018
873	0	Enve Design	Combination	Max	-10.424	0.106	24.085	0.0816
873	1.45	Enve Design	Combination	Max	-10.045	0.106	22.12	0.0816
873	1.45	Enve Design	Combination	Max	-7.821	0.028	12.68	0.1342
873	2.9	Enve Design	Combination	Max	-7.443	0.028	11.629	0.1342
873	0	Enve Design	Combination	Min	-16.5	-0.079	-14.819	-0.0803
873	1.45	Enve Design	Combination	Min	-15.911	-0.079	-14.302	-0.0803
873	1.45	Enve Design	Combination	Min	-12.246	-0.001262	-10.865	-0.1316
873	2.9	Enve Design	Combination	Min	-11.657	-0.001262	-10.347	-0.1316
893	0	Enve Design	Combination	Max	0.88	0.195	0.039	0.0152
893	0.72252	Enve Design	Combination	Max	0.909	0.245	0.41	0.0152
893	1.44503	Enve Design	Combination	Max	0.937	0.293	1.111	0.0152
893	0	Enve Design	Combination	Min	-0.313	-0.139	-0.363	-0.017
893	0.72252	Enve Design	Combination	Min	-0.291	-0.102	-0.164	-0.017
893	1.44503	Enve Design	Combination	Min	-0.271	-0.066	-0.349	-0.017
894	0	Enve Design	Combination	Max	-0.026	0.118	1.01	0.0112
894	0.72252	Enve Design	Combination	Max	0.001094	0.166	0.309	0.0112
894	1.44503	Enve Design	Combination	Max	0.03	0.216	0.106	0.0112
894	0	Enve Design	Combination	Min	-0.766	-0.089	-0.282	-0.0108
894	0.72252	Enve Design	Combination	Min	-0.734	-0.054	-0.097	-0.0108
894	1.44503	Enve Design	Combination	Min	-0.7	-0.016	-0.464	-0.0108
895	0	Enve Design	Combination	Max	0.044	-0.012	0.52	0.0082
895	0.72252	Enve Design	Combination	Max	0.066	0.026	0.048	0.0082
895	1.44503	Enve Design	Combination	Max	0.086	0.061	0.233	0.0082
895	0	Enve Design	Combination	Min	-0.655	-0.186	-0.155	-0.0081
895	0.72252	Enve Design	Combination	Min	-0.626	-0.136	-0.253	-0.0081
895	1.44503	Enve Design	Combination	Min	-0.598	-0.088	-0.954	-0.0081
900	0	Enve Design	Combination	Max	0.389	0.087	0.156	0.0081

Table: Element Forces - Frames, Part 1 of 2

Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T
	m				KN	KN	KN	KN-m
900	0.72252	Enve Design	Combination	Max	0.418	0.137	0.253	0.0081
900	1.44503	Enve Design	Combination	Max	0.445	0.184	0.954	0.0081
900	0	Enve Design	Combination	Min	-0.233	-0.062	-0.52	-0.0082
900	0.72252	Enve Design	Combination	Min	-0.211	-0.025	-0.048	-0.0082
900	1.44503	Enve Design	Combination	Min	-0.191	0.011	-0.232	-0.0082
901	0	Enve Design	Combination	Max	-0.308	0.016	0.281	0.0108
901	0.72252	Enve Design	Combination	Max	-0.287	0.052	0.097	0.0108
901	1.44503	Enve Design	Combination	Max	-0.265	0.089	0.463	0.0108
901	0	Enve Design	Combination	Min	-1.185	-0.216	-1.011	-0.0112
901	0.72252	Enve Design	Combination	Min	-1.157	-0.168	-0.31	-0.0112
901	1.44503	Enve Design	Combination	Min	-1.128	-0.118	-0.107	-0.0112
902	0	Enve Design	Combination	Max	0.413	0.065	0.363	0.017
902	0.72252	Enve Design	Combination	Max	0.435	0.103	0.165	0.017
902	1.44503	Enve Design	Combination	Max	0.455	0.138	0.349	0.017
902	0	Enve Design	Combination	Min	-0.81	-0.293	-0.039	-0.0152
902	0.72252	Enve Design	Combination	Min	-0.781	-0.244	-0.41	-0.0152
902	1.44503	Enve Design	Combination	Min	-0.754	-0.196	-1.111	-0.0152
903	0	Enve Design	Combination	Max	-0.594	0.354	1.45	0.018
903	0.72252	Enve Design	Combination	Max	-0.574	0.402	0.749	0.018
903	1.44503	Enve Design	Combination	Max	-0.552	0.451	0.157	0.018
903	0	Enve Design	Combination	Min	-1.377	-0.233	-0.547	-0.0161
903	0.72252	Enve Design	Combination	Min	-1.345	-0.197	-0.362	-0.0161
903	1.44503	Enve Design	Combination	Min	-1.311	-0.16	-0.191	-0.0161
904	0	Enve Design	Combination	Max	1.085	-0.059	1.082	0.1767
904	0.41667	Enve Design	Combination	Max	1.085	-0.000248	1.039	0.1767
904	0.83333	Enve Design	Combination	Max	1.085	0.068	0.91	0.1767
904	1.25	Enve Design	Combination	Max	1.085	0.131	0.824	0.1767
904	1.25	Enve Design	Combination	Max	0.436	0.042	2.333	0.1197
904	1.66667	Enve Design	Combination	Max	0.436	0.105	2.66	0.1197
904	2.08333	Enve Design	Combination	Max	0.436	0.173	3.152	0.1197
904	2.5	Enve Design	Combination	Max	0.436	0.25	3.315	0.1197
904	0	Enve Design	Combination	Min	-0.373	-0.324	-3.315	-0.1197
904	0.41667	Enve Design	Combination	Min	-0.373	-0.245	-3.151	-0.1197
904	0.83333	Enve Design	Combination	Min	-0.373	-0.155	-2.66	-0.1197
904	1.25	Enve Design	Combination	Min	-0.373	-0.07	-2.333	-0.1197
904	1.25	Enve Design	Combination	Min	-1.001	-0.192	-0.824	-0.1767
904	1.66667	Enve Design	Combination	Min	-1.001	-0.108	-0.91	-0.1767
904	2.08333	Enve Design	Combination	Min	-1.001	-0.017	-1.039	-0.1767
904	2.5	Enve Design	Combination	Min	-1.001	0.061	-1.082	-0.1767
906	0	Enve Design	Combination	Max	0.247	0.106	0.186	0.0188
906	0.41667	Enve Design	Combination	Max	0.247	0.125	0.207	0.0188
906	0.83333	Enve Design	Combination	Max	0.247	0.15	0.272	0.0188
906	1.25	Enve Design	Combination	Max	0.247	0.171	0.315	0.0188

Table: Element Forces - Frames, Part 1 of 2

Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T
	m				KN	KN	KN	KN-m
906	1.25	Enve Design	Combination	Max	0.243	0.329	0.456	0.024
906	1.66667	Enve Design	Combination	Max	0.243	0.359	0.577	0.024
906	2.08333	Enve Design	Combination	Max	0.243	0.391	0.758	0.024
906	2.5	Enve Design	Combination	Max	0.243	0.417	0.818	0.024
906	0	Enve Design	Combination	Min	-0.243	-0.45	-0.818	-0.024
906	0.41667	Enve Design	Combination	Min	-0.243	-0.424	-0.758	-0.024
906	0.83333	Enve Design	Combination	Min	-0.243	-0.391	-0.577	-0.024
906	1.25	Enve Design	Combination	Min	-0.243	-0.362	-0.456	-0.024
906	1.25	Enve Design	Combination	Min	-0.247	-0.17	-0.315	-0.0188
906	1.66667	Enve Design	Combination	Min	-0.247	-0.148	-0.272	-0.0188
906	2.08333	Enve Design	Combination	Min	-0.247	-0.124	-0.207	-0.0188
906	2.5	Enve Design	Combination	Min	-0.247	-0.104	-0.186	-0.0188
909	0	Enve Design	Combination	Max	-0.801	0.09	0.067	-3.714E-06
909	0.3625	Enve Design	Combination	Max	-0.78	0.09	0.142	-3.714E-06
909	0.725	Enve Design	Combination	Max	-0.752	0.09	0.304	-3.714E-06
909	0	Enve Design	Combination	Min	-1.291	-0.662	-0.74	-5.848E-06
909	0.3625	Enve Design	Combination	Min	-1.259	-0.662	-1.108	-5.848E-06
909	0.725	Enve Design	Combination	Min	-1.215	-0.662	-1.722	-5.848E-06
910	0	Enve Design	Combination	Max	-0.535	0.938	2.21	5.809E-06
910	0.3625	Enve Design	Combination	Max	-0.507	0.938	1.596	5.809E-06
910	0.725	Enve Design	Combination	Max	-0.486	0.938	1.228	5.809E-06
910	0	Enve Design	Combination	Min	-1.075	-0.337	-0.738	3.683E-06
910	0.3625	Enve Design	Combination	Min	-1.038	-0.337	-0.576	3.683E-06
910	0.725	Enve Design	Combination	Min	-1.009	-0.337	-0.479	3.683E-06
911	0	Enve Design	Combination	Max	-0.633	0.472	0.651	-4.989E-06
911	0.3625	Enve Design	Combination	Max	-0.612	0.472	0.748	-4.989E-06
911	0.725	Enve Design	Combination	Max	-0.584	0.472	0.91	-4.989E-06
911	0	Enve Design	Combination	Min	-1.286	-1.148	-1.473	-7.852E-06
911	0.3625	Enve Design	Combination	Min	-1.258	-1.148	-1.841	-7.852E-06
911	0.725	Enve Design	Combination	Min	-1.221	-1.148	-2.455	-7.852E-06
912	0	Enve Design	Combination	Max	0.341	0.494	0.913	1.975E-05
912	0.3625	Enve Design	Combination	Max	0.369	0.494	0.813	1.975E-05
912	0.725	Enve Design	Combination	Max	0.39	0.494	0.89	1.975E-05
912	0	Enve Design	Combination	Min	-0.692	-0.485	-0.63	-8.999E-05
912	0.3625	Enve Design	Combination	Min	-0.655	-0.485	-0.792	-8.999E-05
912	0.725	Enve Design	Combination	Min	-0.626	-0.485	-0.969	-8.999E-05
913	0	Enve Design	Combination	Max	-0.78	0.159	0.546	0.0161
913	0.72252	Enve Design	Combination	Max	-0.759	0.194	0.362	0.0161
913	1.44503	Enve Design	Combination	Max	-0.737	0.232	0.19	0.0161
913	0	Enve Design	Combination	Min	-1.377	-0.452	-1.451	-0.018
913	0.72252	Enve Design	Combination	Min	-1.345	-0.405	-0.75	-0.018
913	1.44503	Enve Design	Combination	Min	-1.311	-0.355	-0.158	-0.018
916	0	Enve Design	Combination	Max	-10.426	0.107	24.085	0.0803

Table: Element Forces - Frames, Part 1 of 2

Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T
	m				KN	KN	KN	KN-m
916	1.45	Enve Design	Combination	Max	-10.048	0.107	22.12	0.0803
916	1.45	Enve Design	Combination	Max	-7.822	0.028	12.68	0.1316
916	2.9	Enve Design	Combination	Max	-7.444	0.028	11.629	0.1316
916	0	Enve Design	Combination	Min	-16.5	-0.078	-14.819	-0.0815
916	1.45	Enve Design	Combination	Min	-15.911	-0.078	-14.302	-0.0815
916	1.45	Enve Design	Combination	Min	-12.246	-0.001418	-10.865	-0.1341
916	2.9	Enve Design	Combination	Min	-11.657	-0.001418	-10.347	-0.1341
936	0	Enve Design	Combination	Max	0.89	0.195	0.04	0.0152
936	0.72252	Enve Design	Combination	Max	0.918	0.245	0.41	0.0152
936	1.44503	Enve Design	Combination	Max	0.946	0.292	1.111	0.0152
936	0	Enve Design	Combination	Min	-0.307	-0.138	-0.363	-0.017
936	0.72252	Enve Design	Combination	Min	-0.286	-0.101	-0.163	-0.017
936	1.44503	Enve Design	Combination	Min	-0.265	-0.065	-0.348	-0.017
937	0	Enve Design	Combination	Max	-0.027	0.118	1.01	0.0112
937	0.72252	Enve Design	Combination	Max	0.0006613	0.166	0.309	0.0112
937	1.44503	Enve Design	Combination	Max	0.03	0.215	0.107	0.0112
937	0	Enve Design	Combination	Min	-0.768	-0.089	-0.281	-0.0108
937	0.72252	Enve Design	Combination	Min	-0.736	-0.053	-0.097	-0.0108
937	1.44503	Enve Design	Combination	Min	-0.702	-0.016	-0.464	-0.0108
938	0	Enve Design	Combination	Max	0.042	-0.011	0.52	0.0082
938	0.72252	Enve Design	Combination	Max	0.063	0.026	0.049	0.0082
938	1.44503	Enve Design	Combination	Max	0.084	0.062	0.233	0.0082
938	0	Enve Design	Combination	Min	-0.655	-0.186	-0.155	-0.0081
938	0.72252	Enve Design	Combination	Min	-0.626	-0.136	-0.253	-0.0081
938	1.44503	Enve Design	Combination	Min	-0.599	-0.089	-0.954	-0.0081
943	0	Enve Design	Combination	Max	0.392	0.087	0.156	0.008
943	0.72252	Enve Design	Combination	Max	0.421	0.137	0.252	0.008
943	1.44503	Enve Design	Combination	Max	0.449	0.184	0.953	0.008
943	0	Enve Design	Combination	Min	-0.232	-0.062	-0.521	-0.0081
943	0.72252	Enve Design	Combination	Min	-0.21	-0.024	-0.047	-0.0081
943	1.44503	Enve Design	Combination	Min	-0.189	0.011	-0.232	-0.0081
944	0	Enve Design	Combination	Max	-0.306	0.017	0.282	0.0107
944	0.72252	Enve Design	Combination	Max	-0.285	0.052	0.097	0.0107
944	1.44503	Enve Design	Combination	Max	-0.264	0.09	0.463	0.0107
944	0	Enve Design	Combination	Min	-1.181	-0.216	-1.011	-0.0112
944	0.72252	Enve Design	Combination	Min	-1.153	-0.168	-0.31	-0.0112
944	1.44503	Enve Design	Combination	Min	-1.124	-0.119	-0.106	-0.0112
945	0	Enve Design	Combination	Max	0.407	0.066	0.363	0.017
945	0.72252	Enve Design	Combination	Max	0.429	0.103	0.166	0.017
945	1.44503	Enve Design	Combination	Max	0.45	0.139	0.35	0.017
945	0	Enve Design	Combination	Min	-0.817	-0.294	-0.038	-0.0152
945	0.72252	Enve Design	Combination	Min	-0.788	-0.244	-0.41	-0.0152
945	1.44503	Enve Design	Combination	Min	-0.76	-0.196	-1.111	-0.0152

Table: Element Forces - Frames, Part 1 of 2

Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T
	m				KN	KN	KN	KN-m
946	0	Enve Design	Combination	Max	-0.6	0.354	1.45	0.018
946	0.72252	Enve Design	Combination	Max	-0.58	0.402	0.749	0.018
946	1.44503	Enve Design	Combination	Max	-0.558	0.451	0.157	0.018
946	0	Enve Design	Combination	Min	-1.385	-0.233	-0.547	-0.0161
946	0.72252	Enve Design	Combination	Min	-1.353	-0.197	-0.362	-0.0161
946	1.44503	Enve Design	Combination	Min	-1.319	-0.16	-0.191	-0.0161
947	0	Enve Design	Combination	Max	1.094	-0.059	1.091	0.1811
947	0.41667	Enve Design	Combination	Max	1.094	-0.0001934	1.048	0.1811
947	0.83333	Enve Design	Combination	Max	1.094	0.068	0.919	0.1811
947	1.25	Enve Design	Combination	Max	1.094	0.131	0.833	0.1811
947	1.25	Enve Design	Combination	Max	0.436	0.042	2.326	0.1127
947	1.66667	Enve Design	Combination	Max	0.436	0.105	2.654	0.1127
947	2.08333	Enve Design	Combination	Max	0.436	0.173	3.145	0.1127
947	2.5	Enve Design	Combination	Max	0.436	0.25	3.309	0.1127
947	0	Enve Design	Combination	Min	-0.373	-0.324	-3.321	-0.1263
947	0.41667	Enve Design	Combination	Min	-0.373	-0.245	-3.158	-0.1263
947	0.83333	Enve Design	Combination	Min	-0.373	-0.154	-2.666	-0.1263
947	1.25	Enve Design	Combination	Min	-0.373	-0.07	-2.339	-0.1263
947	1.25	Enve Design	Combination	Min	-0.992	-0.192	-0.815	-0.1719
947	1.66667	Enve Design	Combination	Min	-0.992	-0.107	-0.901	-0.1719
947	2.08333	Enve Design	Combination	Min	-0.992	-0.017	-1.03	-0.1719
947	2.5	Enve Design	Combination	Min	-0.992	0.062	-1.073	-0.1719
949	0	Enve Design	Combination	Max	0.247	0.106	0.185	0.0188
949	0.41667	Enve Design	Combination	Max	0.247	0.125	0.207	0.0188
949	0.83333	Enve Design	Combination	Max	0.247	0.149	0.272	0.0188
949	1.25	Enve Design	Combination	Max	0.247	0.171	0.315	0.0188
949	1.25	Enve Design	Combination	Max	0.242	0.329	0.456	0.024
949	1.66667	Enve Design	Combination	Max	0.242	0.359	0.577	0.024
949	2.08333	Enve Design	Combination	Max	0.242	0.391	0.758	0.024
949	2.5	Enve Design	Combination	Max	0.242	0.417	0.818	0.024
949	0	Enve Design	Combination	Min	-0.242	-0.45	-0.818	-0.024
949	0.41667	Enve Design	Combination	Min	-0.242	-0.424	-0.758	-0.024
949	0.83333	Enve Design	Combination	Min	-0.242	-0.391	-0.577	-0.024
949	1.25	Enve Design	Combination	Min	-0.242	-0.362	-0.456	-0.024
949	1.25	Enve Design	Combination	Min	-0.247	-0.17	-0.315	-0.0188
949	1.66667	Enve Design	Combination	Min	-0.247	-0.148	-0.272	-0.0188
949	2.08333	Enve Design	Combination	Min	-0.247	-0.124	-0.207	-0.0188
949	2.5	Enve Design	Combination	Min	-0.247	-0.104	-0.185	-0.0188
952	0	Enve Design	Combination	Max	-0.801	0.09	0.066	0.0002761
952	0.3625	Enve Design	Combination	Max	-0.779	0.09	0.142	0.0002761
952	0.725	Enve Design	Combination	Max	-0.752	0.09	0.304	0.0002761
952	0	Enve Design	Combination	Min	-1.292	-0.662	-0.739	-0.0002907
952	0.3625	Enve Design	Combination	Min	-1.259	-0.662	-1.108	-0.0002907

Table: Element Forces - Frames, Part 1 of 2

Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T
	m				KN	KN	KN	KN-m
952	0.725	Enve Design	Combination	Min	-1.215	-0.662	-1.722	-0.0002907
953	0	Enve Design	Combination	Max	-0.535	0.938	2.21	0.0002314
953	0.3625	Enve Design	Combination	Max	-0.507	0.938	1.596	0.0002314
953	0.725	Enve Design	Combination	Max	-0.486	0.938	1.228	0.0002314
953	0	Enve Design	Combination	Min	-1.076	-0.337	-0.738	-0.0002266
953	0.3625	Enve Design	Combination	Min	-1.039	-0.337	-0.576	-0.0002266
953	0.725	Enve Design	Combination	Min	-1.01	-0.337	-0.479	-0.0002266
954	0	Enve Design	Combination	Max	-0.633	0.472	0.651	0.0001256
954	0.3625	Enve Design	Combination	Max	-0.611	0.472	0.748	0.0001256
954	0.725	Enve Design	Combination	Max	-0.584	0.472	0.909	0.0001256
954	0	Enve Design	Combination	Min	-1.287	-1.148	-1.472	-0.0001395
954	0.3625	Enve Design	Combination	Min	-1.259	-1.148	-1.841	-0.0001395
954	0.725	Enve Design	Combination	Min	-1.222	-1.148	-2.455	-0.0001395
955	0	Enve Design	Combination	Max	0.341	0.494	0.912	4.052E-05
955	0.3625	Enve Design	Combination	Max	0.369	0.494	0.812	4.052E-05
955	0.725	Enve Design	Combination	Max	0.39	0.494	0.889	4.052E-05
955	0	Enve Design	Combination	Min	-0.692	-0.485	-0.629	-8.88E-05
955	0.3625	Enve Design	Combination	Min	-0.655	-0.485	-0.791	-8.88E-05
955	0.725	Enve Design	Combination	Min	-0.626	-0.485	-0.968	-8.88E-05
956	0	Enve Design	Combination	Max	-0.775	0.159	0.546	0.0161
956	0.72252	Enve Design	Combination	Max	-0.754	0.194	0.362	0.0161
956	1.44503	Enve Design	Combination	Max	-0.732	0.232	0.19	0.0161
956	0	Enve Design	Combination	Min	-1.369	-0.452	-1.451	-0.018
956	0.72252	Enve Design	Combination	Min	-1.337	-0.405	-0.75	-0.018
956	1.44503	Enve Design	Combination	Min	-1.303	-0.355	-0.158	-0.018
959	0	Enve Design	Combination	Max	-10.429	0.109	24.089	0.2091
959	1.45	Enve Design	Combination	Max	-10.051	0.109	22.124	0.2091
959	1.45	Enve Design	Combination	Max	-7.825	0.028	12.679	0.3523
959	2.9	Enve Design	Combination	Max	-7.447	0.028	11.629	0.3523
959	0	Enve Design	Combination	Min	-16.501	-0.077	-14.822	-0.2135
959	1.45	Enve Design	Combination	Min	-15.912	-0.077	-14.305	-0.2135
959	1.45	Enve Design	Combination	Min	-12.248	-0.001099	-10.864	-0.3614
959	2.9	Enve Design	Combination	Min	-11.659	-0.001099	-10.347	-0.3614
979	0	Enve Design	Combination	Max	0.901	0.194	0.042	0.0151
979	0.72252	Enve Design	Combination	Max	0.93	0.244	0.409	0.0151
979	1.44503	Enve Design	Combination	Max	0.958	0.292	1.11	0.0151
979	0	Enve Design	Combination	Min	-0.301	-0.138	-0.364	-0.017
979	0.72252	Enve Design	Combination	Min	-0.28	-0.1	-0.162	-0.017
979	1.44503	Enve Design	Combination	Min	-0.259	-0.065	-0.347	-0.017
980	0	Enve Design	Combination	Max	-0.027	0.118	1.009	0.0112
980	0.72252	Enve Design	Combination	Max	0.0007019	0.165	0.308	0.0112
980	1.44503	Enve Design	Combination	Max	0.03	0.215	0.108	0.0112
980	0	Enve Design	Combination	Min	-0.77	-0.089	-0.28	-0.0108

Table: Element Forces - Frames, Part 1 of 2

Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T
	m				KN	KN	KN	KN-m
980	0.72252	Enve Design	Combination	Min	-0.738	-0.053	-0.096	-0.0108
980	1.44503	Enve Design	Combination	Min	-0.705	-0.016	-0.465	-0.0108
981	0	Enve Design	Combination	Max	0.04	-0.011	0.519	0.0082
981	0.72252	Enve Design	Combination	Max	0.062	0.027	0.05	0.0082
981	1.44503	Enve Design	Combination	Max	0.083	0.062	0.234	0.0082
981	0	Enve Design	Combination	Min	-0.655	-0.186	-0.154	-0.0081
981	0.72252	Enve Design	Combination	Min	-0.627	-0.137	-0.254	-0.0081
981	1.44503	Enve Design	Combination	Min	-0.599	-0.089	-0.955	-0.0081
986	0	Enve Design	Combination	Max	0.396	0.086	0.158	0.008
986	0.72252	Enve Design	Combination	Max	0.425	0.136	0.251	0.008
986	1.44503	Enve Design	Combination	Max	0.453	0.184	0.952	0.008
986	0	Enve Design	Combination	Min	-0.23	-0.061	-0.522	-0.0081
986	0.72252	Enve Design	Combination	Min	-0.209	-0.024	-0.046	-0.0081
986	1.44503	Enve Design	Combination	Min	-0.188	0.012	-0.23	-0.0081
987	0	Enve Design	Combination	Max	-0.305	0.017	0.283	0.0107
987	0.72252	Enve Design	Combination	Max	-0.284	0.053	0.098	0.0107
987	1.44503	Enve Design	Combination	Max	-0.262	0.09	0.462	0.0107
987	0	Enve Design	Combination	Min	-1.177	-0.216	-1.012	-0.0111
987	0.72252	Enve Design	Combination	Min	-1.149	-0.169	-0.311	-0.0111
987	1.44503	Enve Design	Combination	Min	-1.12	-0.119	-0.105	-0.0111
988	0	Enve Design	Combination	Max	0.402	0.066	0.362	0.017
988	0.72252	Enve Design	Combination	Max	0.424	0.104	0.166	0.017
988	1.44503	Enve Design	Combination	Max	0.444	0.139	0.351	0.017
988	0	Enve Design	Combination	Min	-0.826	-0.294	-0.037	-0.0152
988	0.72252	Enve Design	Combination	Min	-0.797	-0.244	-0.411	-0.0152
988	1.44503	Enve Design	Combination	Min	-0.769	-0.197	-1.112	-0.0152
989	0	Enve Design	Combination	Max	-0.606	0.354	1.45	0.0179
989	0.72252	Enve Design	Combination	Max	-0.586	0.401	0.749	0.0179
989	1.44503	Enve Design	Combination	Max	-0.564	0.451	0.157	0.0179
989	0	Enve Design	Combination	Min	-1.393	-0.232	-0.546	-0.016
989	0.72252	Enve Design	Combination	Min	-1.361	-0.197	-0.362	-0.016
989	1.44503	Enve Design	Combination	Min	-1.327	-0.159	-0.19	-0.016
990	0	Enve Design	Combination	Max	1.106	-0.059	1.104	0.1875
990	0.41667	Enve Design	Combination	Max	1.106	-0.0004745	1.061	0.1875
990	0.83333	Enve Design	Combination	Max	1.106	0.067	0.931	0.1875
990	1.25	Enve Design	Combination	Max	1.106	0.131	0.845	0.1875
990	1.25	Enve Design	Combination	Max	0.437	0.042	2.317	0.1021
990	1.66667	Enve Design	Combination	Max	0.437	0.105	2.645	0.1021
990	2.08333	Enve Design	Combination	Max	0.437	0.173	3.136	0.1021
990	2.5	Enve Design	Combination	Max	0.437	0.25	3.3	0.1021
990	0	Enve Design	Combination	Min	-0.371	-0.323	-3.33	-0.1356
990	0.41667	Enve Design	Combination	Min	-0.371	-0.244	-3.167	-0.1356
990	0.83333	Enve Design	Combination	Min	-0.371	-0.154	-2.675	-0.1356

Table: Element Forces - Frames, Part 1 of 2

Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T
	m				KN	KN	KN	KN-m
990	1.25	Enve Design	Combination	Min	-0.371	-0.069	-2.348	-0.1356
990	1.25	Enve Design	Combination	Min	-0.979	-0.191	-0.802	-0.1646
990	1.66667	Enve Design	Combination	Min	-0.979	-0.107	-0.888	-0.1646
990	2.08333	Enve Design	Combination	Min	-0.979	-0.016	-1.017	-0.1646
990	2.5	Enve Design	Combination	Min	-0.979	0.062	-1.06	-0.1646
992	0	Enve Design	Combination	Max	0.246	0.105	0.184	0.0188
992	0.41667	Enve Design	Combination	Max	0.246	0.125	0.206	0.0188
992	0.83333	Enve Design	Combination	Max	0.246	0.149	0.27	0.0188
992	1.25	Enve Design	Combination	Max	0.246	0.171	0.314	0.0188
992	1.25	Enve Design	Combination	Max	0.242	0.329	0.456	0.024
992	1.66667	Enve Design	Combination	Max	0.242	0.358	0.576	0.024
992	2.08333	Enve Design	Combination	Max	0.242	0.391	0.757	0.024
992	2.5	Enve Design	Combination	Max	0.242	0.417	0.818	0.024
992	0	Enve Design	Combination	Min	-0.242	-0.45	-0.818	-0.024
992	0.41667	Enve Design	Combination	Min	-0.242	-0.423	-0.757	-0.024
992	0.83333	Enve Design	Combination	Min	-0.242	-0.391	-0.576	-0.024
992	1.25	Enve Design	Combination	Min	-0.242	-0.362	-0.456	-0.024
992	1.25	Enve Design	Combination	Min	-0.246	-0.169	-0.314	-0.0188
992	1.66667	Enve Design	Combination	Min	-0.246	-0.147	-0.27	-0.0188
992	2.08333	Enve Design	Combination	Min	-0.246	-0.123	-0.206	-0.0188
992	2.5	Enve Design	Combination	Min	-0.246	-0.103	-0.184	-0.0188
995	0	Enve Design	Combination	Max	-0.801	0.089	0.065	0.0004843
995	0.3625	Enve Design	Combination	Max	-0.779	0.089	0.141	0.0004843
995	0.725	Enve Design	Combination	Max	-0.752	0.089	0.303	0.0004843
995	0	Enve Design	Combination	Min	-1.292	-0.662	-0.739	-0.0005081
995	0.3625	Enve Design	Combination	Min	-1.259	-0.662	-1.107	-0.0005081
995	0.725	Enve Design	Combination	Min	-1.216	-0.662	-1.721	-0.0005081
996	0	Enve Design	Combination	Max	-0.535	0.938	2.211	0.0003949
996	0.3625	Enve Design	Combination	Max	-0.507	0.938	1.597	0.0003949
996	0.725	Enve Design	Combination	Max	-0.486	0.938	1.229	0.0003949
996	0	Enve Design	Combination	Min	-1.077	-0.337	-0.739	-0.0003965
996	0.3625	Enve Design	Combination	Min	-1.04	-0.337	-0.577	-0.0003965
996	0.725	Enve Design	Combination	Min	-1.012	-0.337	-0.48	-0.0003965
997	0	Enve Design	Combination	Max	-0.633	0.471	0.649	0.0002153
997	0.3625	Enve Design	Combination	Max	-0.612	0.471	0.746	0.0002153
997	0.725	Enve Design	Combination	Max	-0.584	0.471	0.908	0.0002153
997	0	Enve Design	Combination	Min	-1.289	-1.147	-1.471	-0.0002322
997	0.3625	Enve Design	Combination	Min	-1.261	-1.147	-1.84	-0.0002322
997	0.725	Enve Design	Combination	Min	-1.223	-1.147	-2.454	-0.0002322
998	0	Enve Design	Combination	Max	0.34	0.493	0.912	6.016E-05
998	0.3625	Enve Design	Combination	Max	0.367	0.493	0.81	6.016E-05
998	0.725	Enve Design	Combination	Max	0.388	0.493	0.887	6.016E-05
998	0	Enve Design	Combination	Min	-0.691	-0.483	-0.627	-0.0001077

Table: Element Forces - Frames, Part 1 of 2

Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T
	m				KN	KN	KN	KN-m
998	0.3625	Enve Design	Combination	Min	-0.654	-0.483	-0.789	-0.0001077
998	0.725	Enve Design	Combination	Min	-0.626	-0.483	-0.966	-0.0001077
999	0	Enve Design	Combination	Max	-0.769	0.159	0.546	0.016
999	0.72252	Enve Design	Combination	Max	-0.749	0.194	0.362	0.016
999	1.44503	Enve Design	Combination	Max	-0.727	0.232	0.19	0.016
999	0	Enve Design	Combination	Min	-1.361	-0.452	-1.451	-0.0179
999	0.72252	Enve Design	Combination	Min	-1.328	-0.405	-0.75	-0.0179
999	1.44503	Enve Design	Combination	Min	-1.295	-0.355	-0.158	-0.0179
B8A	0	Enve Design	Combination	Max	0.815	0.202	0.034	0.0139
B8A	0.72252	Enve Design	Combination	Max	0.844	0.252	0.427	0.0139
B8A	1.44503	Enve Design	Combination	Max	0.872	0.3	1.127	0.0139
B8A	0	Enve Design	Combination	Min	-0.385	-0.149	-0.346	-0.0156
B8A	0.72252	Enve Design	Combination	Min	-0.363	-0.112	-0.185	-0.0156
B8A	1.44503	Enve Design	Combination	Min	-0.342	-0.076	-0.369	-0.0156
B8B	0	Enve Design	Combination	Max	0.153	0.135	1.039	0.0086
B8B	0.72252	Enve Design	Combination	Max	0.18	0.183	0.338	0.0086
B8B	1.44503	Enve Design	Combination	Max	0.209	0.233	0.074	0.0086
B8B	0	Enve Design	Combination	Min	-0.536	-0.108	-0.315	-0.0083
B8B	0.72252	Enve Design	Combination	Min	-0.504	-0.073	-0.13	-0.0083
B8B	1.44503	Enve Design	Combination	Min	-0.47	-0.035	-0.435	-0.0083
B8C	0	Enve Design	Combination	Max	0.177	-0.005403	0.489	0.0065
B8C	0.72252	Enve Design	Combination	Max	0.198	0.032	0.059	0.0065
B8C	1.44503	Enve Design	Combination	Max	0.219	0.068	0.243	0.0065
B8C	0	Enve Design	Combination	Min	-0.413	-0.203	-0.145	-0.0063
B8C	0.72252	Enve Design	Combination	Min	-0.384	-0.154	-0.284	-0.0063
B8C	1.44503	Enve Design	Combination	Min	-0.357	-0.106	-0.985	-0.0063
B95	0	Enve Design	Combination	Max	0.296	0.075	0.161	0.0086
B95	0.72252	Enve Design	Combination	Max	0.325	0.125	0.233	0.0086
B95	1.44503	Enve Design	Combination	Max	0.352	0.173	0.934	0.0086
B95	0	Enve Design	Combination	Min	-0.318	-0.059	-0.54	-0.009
B95	0.72252	Enve Design	Combination	Min	-0.297	-0.022	-0.043	-0.009
B95	1.44503	Enve Design	Combination	Min	-0.276	0.014	-0.227	-0.009
B96	0	Enve Design	Combination	Max	-0.358	-0.003195	0.247	0.0111
B96	0.72252	Enve Design	Combination	Max	-0.337	0.032	0.063	0.0111
B96	1.44503	Enve Design	Combination	Max	-0.316	0.07	0.495	0.0111
B96	0	Enve Design	Combination	Min	-1.336	-0.197	-0.979	-0.0119
B96	0.72252	Enve Design	Combination	Min	-1.308	-0.15	-0.278	-0.0119
B96	1.44503	Enve Design	Combination	Min	-1.279	-0.1	-0.141	-0.0119
B97	0	Enve Design	Combination	Max	0.532	0.033	0.416	0.0134
B97	0.72252	Enve Design	Combination	Max	0.554	0.07	0.111	0.0134
B97	1.44503	Enve Design	Combination	Max	0.575	0.106	0.296	0.0134
B97	0	Enve Design	Combination	Min	-0.724	-0.262	-0.093	-0.012
B97	0.72252	Enve Design	Combination	Min	-0.695	-0.212	-0.357	-0.012

Table: Element Forces - Frames, Part 1 of 2

Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T
	m				KN	KN	KN	KN-m
B97	1.44503	Enve Design	Combination	Min	-0.668	-0.164	-1.058	-0.012
B98	0	Enve Design	Combination	Max	-0.436	0.363	1.463	0.0153
B98	0.72252	Enve Design	Combination	Max	-0.416	0.411	0.762	0.0153
B98	1.44503	Enve Design	Combination	Max	-0.394	0.461	0.155	0.0153
B98	0	Enve Design	Combination	Min	-1.092	-0.233	-0.544	-0.0137
B98	0.72252	Enve Design	Combination	Min	-1.064	-0.197	-0.36	-0.0137
B98	1.44503	Enve Design	Combination	Min	-1.035	-0.16	-0.184	-0.0137
BF9	0	Enve Design	Combination	Max	0.976	-0.11	0.582	0.4263
BF9	0.41667	Enve Design	Combination	Max	0.976	-0.052	0.539	0.4263
BF9	0.83333	Enve Design	Combination	Max	0.976	0.016	0.409	0.4263
BF9	1.25	Enve Design	Combination	Max	0.976	0.094	0.323	0.4263
BF9	1.25	Enve Design	Combination	Max	0.437	0.021	2.784	0.6024
BF9	1.66667	Enve Design	Combination	Max	0.437	0.084	3.111	0.6024
BF9	2.08333	Enve Design	Combination	Max	0.437	0.152	3.602	0.6024
BF9	2.5	Enve Design	Combination	Max	0.437	0.227	3.766	0.6024
BF9	0	Enve Design	Combination	Min	-0.309	-0.212	-2.753	-0.5033
BF9	0.41667	Enve Design	Combination	Min	-0.309	-0.133	-2.59	-0.5033
BF9	0.83333	Enve Design	Combination	Min	-0.309	-0.043	-2.098	-0.5033
BF9	1.25	Enve Design	Combination	Min	-0.309	0.028	-1.771	-0.5033
BF9	1.25	Enve Design	Combination	Min	-1.038	-0.199	-1.224	-0.7384
BF9	1.66667	Enve Design	Combination	Min	-1.038	-0.114	-1.311	-0.7384
BF9	2.08333	Enve Design	Combination	Min	-1.038	-0.024	-1.44	-0.7384
BF9	2.5	Enve Design	Combination	Min	-1.038	0.055	-1.483	-0.7384
1002	0	Enve Design	Combination	Max	-10.431	0.111	24.096	0.3017
1002	1.45	Enve Design	Combination	Max	-10.053	0.111	22.131	0.3017
1002	1.45	Enve Design	Combination	Max	-7.826	0.028	12.675	0.5136
1002	2.9	Enve Design	Combination	Max	-7.448	0.028	11.625	0.5136
1002	0	Enve Design	Combination	Min	-16.503	-0.076	-14.826	-0.3118
1002	1.45	Enve Design	Combination	Min	-15.914	-0.076	-14.309	-0.3118
1002	1.45	Enve Design	Combination	Min	-12.25	-0.0007968	-10.859	-0.5347
1002	2.9	Enve Design	Combination	Min	-11.661	-0.0007968	-10.342	-0.5347
1022	0	Enve Design	Combination	Max	0.916	0.193	0.044	0.015
1022	0.72252	Enve Design	Combination	Max	0.945	0.243	0.407	0.015
1022	1.44503	Enve Design	Combination	Max	0.972	0.291	1.108	0.015
1022	0	Enve Design	Combination	Min	-0.295	-0.136	-0.366	-0.0168
1022	0.72252	Enve Design	Combination	Min	-0.273	-0.099	-0.159	-0.0168
1022	1.44503	Enve Design	Combination	Min	-0.252	-0.063	-0.344	-0.0168
1023	0	Enve Design	Combination	Max	-0.026	0.117	1.009	0.0112
1023	0.72252	Enve Design	Combination	Max	0.00159	0.165	0.308	0.0112
1023	1.44503	Enve Design	Combination	Max	0.03	0.215	0.109	0.0112
1023	0	Enve Design	Combination	Min	-0.772	-0.088	-0.279	-0.0108
1023	0.72252	Enve Design	Combination	Min	-0.74	-0.052	-0.095	-0.0108
1023	1.44503	Enve Design	Combination	Min	-0.706	-0.015	-0.465	-0.0108

Table: Element Forces - Frames, Part 1 of 2

Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T
	m				KN	KN	KN	KN-m
1024	0	Enve Design	Combination	Max	0.04	-0.01	0.518	0.0082
1024	0.72252	Enve Design	Combination	Max	0.061	0.027	0.051	0.0082
1024	1.44503	Enve Design	Combination	Max	0.082	0.063	0.235	0.0082
1024	0	Enve Design	Combination	Min	-0.655	-0.187	-0.153	-0.0081
1024	0.72252	Enve Design	Combination	Min	-0.626	-0.137	-0.255	-0.0081
1024	1.44503	Enve Design	Combination	Min	-0.599	-0.089	-0.956	-0.0081
1029	0	Enve Design	Combination	Max	0.4	0.085	0.16	0.0078
1029	0.72252	Enve Design	Combination	Max	0.429	0.135	0.25	0.0078
1029	1.44503	Enve Design	Combination	Max	0.457	0.183	0.951	0.0078
1029	0	Enve Design	Combination	Min	-0.229	-0.06	-0.523	-0.0079
1029	0.72252	Enve Design	Combination	Min	-0.208	-0.022	-0.044	-0.0079
1029	1.44503	Enve Design	Combination	Min	-0.187	0.013	-0.228	-0.0079
1030	0	Enve Design	Combination	Max	-0.304	0.018	0.285	0.0106
1030	0.72252	Enve Design	Combination	Max	-0.283	0.054	0.1	0.0106
1030	1.44503	Enve Design	Combination	Max	-0.261	0.091	0.461	0.0106
1030	0	Enve Design	Combination	Min	-1.172	-0.217	-1.013	-0.011
1030	0.72252	Enve Design	Combination	Min	-1.144	-0.17	-0.312	-0.011
1030	1.44503	Enve Design	Combination	Min	-1.116	-0.12	-0.103	-0.011
1031	0	Enve Design	Combination	Max	0.397	0.067	0.361	0.0169
1031	0.72252	Enve Design	Combination	Max	0.419	0.104	0.168	0.0169
1031	1.44503	Enve Design	Combination	Max	0.439	0.14	0.352	0.0169
1031	0	Enve Design	Combination	Min	-0.836	-0.295	-0.036	-0.0151
1031	0.72252	Enve Design	Combination	Min	-0.807	-0.245	-0.412	-0.0151
1031	1.44503	Enve Design	Combination	Min	-0.78	-0.197	-1.113	-0.0151
1032	0	Enve Design	Combination	Max	-0.613	0.354	1.45	0.0179
1032	0.72252	Enve Design	Combination	Max	-0.592	0.401	0.749	0.0179
1032	1.44503	Enve Design	Combination	Max	-0.571	0.451	0.156	0.0179
1032	0	Enve Design	Combination	Min	-1.402	-0.232	-0.546	-0.0159
1032	0.72252	Enve Design	Combination	Min	-1.37	-0.196	-0.361	-0.0159
1032	1.44503	Enve Design	Combination	Min	-1.336	-0.159	-0.19	-0.0159
1033	0	Enve Design	Combination	Max	1.122	-0.06	1.125	0.1992
1033	0.41667	Enve Design	Combination	Max	1.122	-0.001278	1.082	0.1992
1033	0.83333	Enve Design	Combination	Max	1.122	0.067	0.952	0.1992
1033	1.25	Enve Design	Combination	Max	1.122	0.13	0.866	0.1992
1033	1.25	Enve Design	Combination	Max	0.44	0.041	2.301	0.0831
1033	1.66667	Enve Design	Combination	Max	0.44	0.104	2.628	0.0831
1033	2.08333	Enve Design	Combination	Max	0.44	0.172	3.119	0.0831
1033	2.5	Enve Design	Combination	Max	0.44	0.25	3.283	0.0831
1033	0	Enve Design	Combination	Min	-0.367	-0.321	-3.346	-0.1519
1033	0.41667	Enve Design	Combination	Min	-0.367	-0.243	-3.182	-0.1519
1033	0.83333	Enve Design	Combination	Min	-0.367	-0.152	-2.691	-0.1519
1033	1.25	Enve Design	Combination	Min	-0.367	-0.068	-2.364	-0.1519
1033	1.25	Enve Design	Combination	Min	-0.963	-0.19	-0.779	-0.1508

Table: Element Forces - Frames, Part 1 of 2

Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T
	m				KN	KN	KN	KN-m
1033	1.66667	Enve Design	Combination	Min	-0.963	-0.106	-0.865	-0.1508
1033	2.08333	Enve Design	Combination	Min	-0.963	-0.015	-0.995	-0.1508
1033	2.5	Enve Design	Combination	Min	-0.963	0.063	-1.038	-0.1508
1035	0	Enve Design	Combination	Max	0.245	0.103	0.182	0.0187
1035	0.41667	Enve Design	Combination	Max	0.245	0.123	0.203	0.0187
1035	0.83333	Enve Design	Combination	Max	0.245	0.147	0.268	0.0187
1035	1.25	Enve Design	Combination	Max	0.245	0.169	0.311	0.0187
1035	1.25	Enve Design	Combination	Max	0.24	0.329	0.455	0.024
1035	1.66667	Enve Design	Combination	Max	0.24	0.358	0.576	0.024
1035	2.08333	Enve Design	Combination	Max	0.24	0.39	0.757	0.024
1035	2.5	Enve Design	Combination	Max	0.24	0.416	0.817	0.024
1035	0	Enve Design	Combination	Min	-0.24	-0.449	-0.817	-0.024
1035	0.41667	Enve Design	Combination	Min	-0.24	-0.423	-0.757	-0.024
1035	0.83333	Enve Design	Combination	Min	-0.24	-0.391	-0.576	-0.024
1035	1.25	Enve Design	Combination	Min	-0.24	-0.361	-0.455	-0.024
1035	1.25	Enve Design	Combination	Min	-0.245	-0.167	-0.311	-0.0187
1035	1.66667	Enve Design	Combination	Min	-0.245	-0.146	-0.268	-0.0187
1035	2.08333	Enve Design	Combination	Min	-0.245	-0.121	-0.203	-0.0187
1035	2.5	Enve Design	Combination	Min	-0.245	-0.102	-0.182	-0.0187
1038	0	Enve Design	Combination	Max	-0.801	0.088	0.063	0.0006305
1038	0.3625	Enve Design	Combination	Max	-0.78	0.088	0.14	0.0006305
1038	0.725	Enve Design	Combination	Max	-0.752	0.088	0.301	0.0006305
1038	0	Enve Design	Combination	Min	-1.292	-0.661	-0.737	-0.0006727
1038	0.3625	Enve Design	Combination	Min	-1.259	-0.661	-1.106	-0.0006727
1038	0.725	Enve Design	Combination	Min	-1.216	-0.661	-1.72	-0.0006727
1039	0	Enve Design	Combination	Max	-0.536	0.939	2.213	0.0005098
1039	0.3625	Enve Design	Combination	Max	-0.508	0.939	1.599	0.0005098
1039	0.725	Enve Design	Combination	Max	-0.487	0.939	1.23	0.0005098
1039	0	Enve Design	Combination	Min	-1.079	-0.338	-0.74	-0.0005244
1039	0.3625	Enve Design	Combination	Min	-1.042	-0.338	-0.579	-0.0005244
1039	0.725	Enve Design	Combination	Min	-1.013	-0.338	-0.482	-0.0005244
1040	0	Enve Design	Combination	Max	-0.634	0.469	0.646	0.0002788
1040	0.3625	Enve Design	Combination	Max	-0.613	0.469	0.743	0.0002788
1040	0.725	Enve Design	Combination	Max	-0.585	0.469	0.905	0.0002788
1040	0	Enve Design	Combination	Min	-1.29	-1.146	-1.469	-0.000302
1040	0.3625	Enve Design	Combination	Min	-1.262	-1.146	-1.838	-0.000302
1040	0.725	Enve Design	Combination	Min	-1.225	-1.146	-2.452	-0.000302
1041	0	Enve Design	Combination	Max	0.337	0.49	0.91	7.587E-05
1041	0.3625	Enve Design	Combination	Max	0.364	0.49	0.805	7.587E-05
1041	0.725	Enve Design	Combination	Max	0.385	0.49	0.882	7.587E-05
1041	0	Enve Design	Combination	Min	-0.69	-0.48	-0.622	-0.0001243
1041	0.3625	Enve Design	Combination	Min	-0.653	-0.48	-0.784	-0.0001243
1041	0.725	Enve Design	Combination	Min	-0.625	-0.48	-0.96	-0.0001243

Table: Element Forces - Frames, Part 1 of 2

Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T
	m				KN	KN	KN	KN-m
1042	0	Enve Design	Combination	Max	-0.763	0.159	0.546	0.016
1042	0.72252	Enve Design	Combination	Max	-0.742	0.194	0.362	0.016
1042	1.44503	Enve Design	Combination	Max	-0.721	0.232	0.19	0.016
1042	0	Enve Design	Combination	Min	-1.351	-0.453	-1.451	-0.0179
1042	0.72252	Enve Design	Combination	Min	-1.319	-0.405	-0.75	-0.0179
1042	1.44503	Enve Design	Combination	Min	-1.285	-0.355	-0.158	-0.0179
1045	0	Enve Design	Combination	Max	-10.431	0.114	24.103	0.358
1045	1.45	Enve Design	Combination	Max	-10.052	0.114	22.138	0.358
1045	1.45	Enve Design	Combination	Max	-7.823	0.028	12.656	0.6152
1045	2.9	Enve Design	Combination	Max	-7.445	0.028	11.605	0.6152
1045	0	Enve Design	Combination	Min	-16.503	-0.074	-14.823	-0.3808
1045	1.45	Enve Design	Combination	Min	-15.915	-0.074	-14.305	-0.3808
1045	1.45	Enve Design	Combination	Min	-12.252	-0.001458	-10.839	-0.6611
1045	2.9	Enve Design	Combination	Min	-11.663	-0.001458	-10.322	-0.6611
1065	0	Enve Design	Combination	Max	0.934	0.191	0.049	0.0148
1065	0.72252	Enve Design	Combination	Max	0.963	0.241	0.403	0.0148
1065	1.44503	Enve Design	Combination	Max	0.991	0.288	1.104	0.0148
1065	0	Enve Design	Combination	Min	-0.286	-0.133	-0.37	-0.0166
1065	0.72252	Enve Design	Combination	Min	-0.264	-0.096	-0.154	-0.0166
1065	1.44503	Enve Design	Combination	Min	-0.244	-0.06	-0.339	-0.0166
1066	0	Enve Design	Combination	Max	-0.024	0.117	1.007	0.0112
1066	0.72252	Enve Design	Combination	Max	0.003744	0.164	0.306	0.0112
1066	1.44503	Enve Design	Combination	Max	0.033	0.214	0.111	0.0112
1066	0	Enve Design	Combination	Min	-0.773	-0.087	-0.278	-0.0108
1066	0.72252	Enve Design	Combination	Min	-0.741	-0.051	-0.093	-0.0108
1066	1.44503	Enve Design	Combination	Min	-0.707	-0.014	-0.467	-0.0108
1067	0	Enve Design	Combination	Max	0.04	-0.009194	0.517	0.0082
1067	0.72252	Enve Design	Combination	Max	0.062	0.028	0.052	0.0082
1067	1.44503	Enve Design	Combination	Max	0.083	0.064	0.237	0.0082
1067	0	Enve Design	Combination	Min	-0.655	-0.188	-0.151	-0.0081
1067	0.72252	Enve Design	Combination	Min	-0.626	-0.138	-0.256	-0.0081
1067	1.44503	Enve Design	Combination	Min	-0.598	-0.09	-0.957	-0.0081
1072	0	Enve Design	Combination	Max	0.404	0.084	0.163	0.0076
1072	0.72252	Enve Design	Combination	Max	0.433	0.133	0.247	0.0076
1072	1.44503	Enve Design	Combination	Max	0.461	0.181	0.948	0.0076
1072	0	Enve Design	Combination	Min	-0.228	-0.058	-0.526	-0.0077
1072	0.72252	Enve Design	Combination	Min	-0.207	-0.021	-0.04	-0.0077
1072	1.44503	Enve Design	Combination	Min	-0.186	0.015	-0.225	-0.0077
1073	0	Enve Design	Combination	Max	-0.303	0.02	0.288	0.0104
1073	0.72252	Enve Design	Combination	Max	-0.282	0.056	0.104	0.0104
1073	1.44503	Enve Design	Combination	Max	-0.261	0.093	0.458	0.0104
1073	0	Enve Design	Combination	Min	-1.167	-0.219	-1.016	-0.0108
1073	0.72252	Enve Design	Combination	Min	-1.139	-0.171	-0.315	-0.0108

Table: Element Forces - Frames, Part 1 of 2

Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T
	m				KN	KN	KN	KN-m
1073	1.44503	Enve Design	Combination	Min	-1.11	-0.121	-0.1	-0.0108
1074	0	Enve Design	Combination	Max	0.392	0.068	0.359	0.0168
1074	0.72252	Enve Design	Combination	Max	0.414	0.106	0.17	0.0168
1074	1.44503	Enve Design	Combination	Max	0.434	0.141	0.355	0.0168
1074	0	Enve Design	Combination	Min	-0.85	-0.296	-0.034	-0.015
1074	0.72252	Enve Design	Combination	Min	-0.821	-0.246	-0.414	-0.015
1074	1.44503	Enve Design	Combination	Min	-0.794	-0.198	-1.114	-0.015
1075	0	Enve Design	Combination	Max	-0.621	0.353	1.449	0.0177
1075	0.72252	Enve Design	Combination	Max	-0.6	0.401	0.748	0.0177
1075	1.44503	Enve Design	Combination	Max	-0.578	0.45	0.154	0.0177
1075	0	Enve Design	Combination	Min	-1.412	-0.231	-0.544	-0.0158
1075	0.72252	Enve Design	Combination	Min	-1.38	-0.195	-0.359	-0.0158
1075	1.44503	Enve Design	Combination	Min	-1.346	-0.158	-0.188	-0.0158
1076	0	Enve Design	Combination	Max	1.143	-0.062	1.161	0.2237
1076	0.41667	Enve Design	Combination	Max	1.143	-0.003009	1.118	0.2237
1076	0.83333	Enve Design	Combination	Max	1.143	0.065	0.989	0.2237
1076	1.25	Enve Design	Combination	Max	1.143	0.128	0.903	0.2237
1076	1.25	Enve Design	Combination	Max	0.445	0.04	2.269	0.088
1076	1.66667	Enve Design	Combination	Max	0.445	0.103	2.597	0.088
1076	2.08333	Enve Design	Combination	Max	0.445	0.171	3.088	0.088
1076	2.5	Enve Design	Combination	Max	0.445	0.249	3.252	0.088
1076	0	Enve Design	Combination	Min	-0.361	-0.319	-3.376	-0.1827
1076	0.41667	Enve Design	Combination	Min	-0.361	-0.24	-3.212	-0.1827
1076	0.83333	Enve Design	Combination	Min	-0.361	-0.15	-2.721	-0.1827
1076	1.25	Enve Design	Combination	Min	-0.361	-0.065	-2.393	-0.1827
1076	1.25	Enve Design	Combination	Min	-0.941	-0.189	-0.74	-0.1499
1076	1.66667	Enve Design	Combination	Min	-0.941	-0.104	-0.826	-0.1499
1076	2.08333	Enve Design	Combination	Min	-0.941	-0.014	-0.955	-0.1499
1076	2.5	Enve Design	Combination	Min	-0.941	0.065	-0.998	-0.1499
1078	0	Enve Design	Combination	Max	0.242	0.1	0.176	0.0186
1078	0.41667	Enve Design	Combination	Max	0.242	0.12	0.198	0.0186
1078	0.83333	Enve Design	Combination	Max	0.242	0.144	0.263	0.0186
1078	1.25	Enve Design	Combination	Max	0.242	0.166	0.306	0.0186
1078	1.25	Enve Design	Combination	Max	0.237	0.328	0.454	0.0239
1078	1.66667	Enve Design	Combination	Max	0.237	0.357	0.574	0.0239
1078	2.08333	Enve Design	Combination	Max	0.237	0.389	0.755	0.0239
1078	2.5	Enve Design	Combination	Max	0.237	0.416	0.816	0.0239
1078	0	Enve Design	Combination	Min	-0.237	-0.448	-0.816	-0.0239
1078	0.41667	Enve Design	Combination	Min	-0.237	-0.422	-0.755	-0.0239
1078	0.83333	Enve Design	Combination	Min	-0.237	-0.39	-0.574	-0.0239
1078	1.25	Enve Design	Combination	Min	-0.237	-0.361	-0.454	-0.0239
1078	1.25	Enve Design	Combination	Min	-0.242	-0.165	-0.306	-0.0186
1078	1.66667	Enve Design	Combination	Min	-0.242	-0.143	-0.263	-0.0186

Table: Element Forces - Frames, Part 1 of 2

Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T
	m				KN	KN	KN	KN-m
1078	2.08333	Enve Design	Combination	Min	-0.242	-0.119	-0.198	-0.0186
1078	2.5	Enve Design	Combination	Min	-0.242	-0.099	-0.176	-0.0186
1081	0	Enve Design	Combination	Max	-0.802	0.087	0.061	0.0007156
1081	0.3625	Enve Design	Combination	Max	-0.78	0.087	0.137	0.0007156
1081	0.725	Enve Design	Combination	Max	-0.753	0.087	0.299	0.0007156
1081	0	Enve Design	Combination	Min	-1.292	-0.659	-0.735	-0.0007982
1081	0.3625	Enve Design	Combination	Min	-1.259	-0.659	-1.103	-0.0007982
1081	0.725	Enve Design	Combination	Min	-1.216	-0.659	-1.717	-0.0007982
1082	0	Enve Design	Combination	Max	-0.537	0.941	2.215	0.0005737
1082	0.3625	Enve Design	Combination	Max	-0.509	0.941	1.601	0.0005737
1082	0.725	Enve Design	Combination	Max	-0.488	0.941	1.233	0.0005737
1082	0	Enve Design	Combination	Min	-1.08	-0.34	-0.743	-0.0006185
1082	0.3625	Enve Design	Combination	Min	-1.043	-0.34	-0.581	-0.0006185
1082	0.725	Enve Design	Combination	Min	-1.015	-0.34	-0.484	-0.0006185
1083	0	Enve Design	Combination	Max	-0.635	0.466	0.64	0.0003119
1083	0.3625	Enve Design	Combination	Max	-0.614	0.466	0.737	0.0003119
1083	0.725	Enve Design	Combination	Max	-0.586	0.466	0.899	0.0003119
1083	0	Enve Design	Combination	Min	-1.292	-1.143	-1.465	-0.0003507
1083	0.3625	Enve Design	Combination	Min	-1.264	-1.143	-1.833	-0.0003507
1083	0.725	Enve Design	Combination	Min	-1.227	-1.143	-2.447	-0.0003507
1084	0	Enve Design	Combination	Max	0.331	0.484	0.907	8.061E-05
1084	0.3625	Enve Design	Combination	Max	0.358	0.484	0.796	8.061E-05
1084	0.725	Enve Design	Combination	Max	0.38	0.484	0.872	8.061E-05
1084	0	Enve Design	Combination	Min	-0.689	-0.474	-0.612	-0.0001319
1084	0.3625	Enve Design	Combination	Min	-0.652	-0.474	-0.773	-0.0001319
1084	0.725	Enve Design	Combination	Min	-0.623	-0.474	-0.949	-0.0001319
1085	0	Enve Design	Combination	Max	-0.755	0.159	0.546	0.0158
1085	0.72252	Enve Design	Combination	Max	-0.735	0.194	0.361	0.0158
1085	1.44503	Enve Design	Combination	Max	-0.713	0.232	0.19	0.0158
1085	0	Enve Design	Combination	Min	-1.34	-0.453	-1.451	-0.0177
1085	0.72252	Enve Design	Combination	Min	-1.307	-0.405	-0.75	-0.0177
1085	1.44503	Enve Design	Combination	Min	-1.274	-0.355	-0.158	-0.0177
1088	0	Enve Design	Combination	Max	-10.418	0.118	24.088	0.3953
1088	1.45	Enve Design	Combination	Max	-10.039	0.118	22.123	0.3953
1088	1.45	Enve Design	Combination	Max	-7.807	0.029	12.582	0.6828
1088	2.9	Enve Design	Combination	Max	-7.429	0.029	11.531	0.6828
1088	0	Enve Design	Combination	Min	-16.488	-0.073	-14.779	-0.4477
1088	1.45	Enve Design	Combination	Min	-15.899	-0.073	-14.261	-0.4477
1088	1.45	Enve Design	Combination	Min	-12.241	-0.003118	-10.768	-0.7833
1088	2.9	Enve Design	Combination	Min	-11.652	-0.003118	-10.251	-0.7833
1108	0	Enve Design	Combination	Max	0.959	0.186	0.058	0.0143
1108	0.72252	Enve Design	Combination	Max	0.988	0.236	0.395	0.0143
1108	1.44503	Enve Design	Combination	Max	1.016	0.284	1.096	0.0143

Table: Element Forces - Frames, Part 1 of 2

Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T
	m				KN	KN	KN	KN-m
1108	0	Enve Design	Combination	Min	-0.274	-0.128	-0.378	-0.0161
1108	0.72252	Enve Design	Combination	Min	-0.253	-0.091	-0.146	-0.0161
1108	1.44503	Enve Design	Combination	Min	-0.232	-0.055	-0.33	-0.0161
1109	0	Enve Design	Combination	Max	-0.021	0.115	1.004	0.0112
1109	0.72252	Enve Design	Combination	Max	0.006833	0.163	0.304	0.0112
1109	1.44503	Enve Design	Combination	Max	0.036	0.212	0.114	0.0112
1109	0	Enve Design	Combination	Min	-0.775	-0.085	-0.274	-0.0108
1109	0.72252	Enve Design	Combination	Min	-0.743	-0.049	-0.089	-0.0108
1109	1.44503	Enve Design	Combination	Min	-0.709	-0.012	-0.469	-0.0108
1110	0	Enve Design	Combination	Max	0.042	-0.008021	0.515	0.0082
1110	0.72252	Enve Design	Combination	Max	0.064	0.029	0.055	0.0082
1110	1.44503	Enve Design	Combination	Max	0.085	0.065	0.239	0.0082
1110	0	Enve Design	Combination	Min	-0.655	-0.189	-0.149	-0.0081
1110	0.72252	Enve Design	Combination	Min	-0.626	-0.139	-0.258	-0.0081
1110	1.44503	Enve Design	Combination	Min	-0.598	-0.091	-0.959	-0.0081
1115	0	Enve Design	Combination	Max	0.411	0.081	0.168	0.0072
1115	0.72252	Enve Design	Combination	Max	0.44	0.131	0.242	0.0072
1115	1.44503	Enve Design	Combination	Max	0.467	0.178	0.943	0.0072
1115	0	Enve Design	Combination	Min	-0.225	-0.057	-0.531	-0.0073
1115	0.72252	Enve Design	Combination	Min	-0.203	-0.018	-0.036	-0.0073
1115	1.44503	Enve Design	Combination	Min	-0.182	0.018	-0.22	-0.0073
1116	0	Enve Design	Combination	Max	-0.301	0.024	0.294	0.01
1116	0.72252	Enve Design	Combination	Max	-0.28	0.06	0.11	0.01
1116	1.44503	Enve Design	Combination	Max	-0.258	0.097	0.453	0.01
1116	0	Enve Design	Combination	Min	-1.156	-0.222	-1.021	-0.0104
1116	0.72252	Enve Design	Combination	Min	-1.129	-0.174	-0.32	-0.0104
1116	1.44503	Enve Design	Combination	Min	-1.1	-0.125	-0.094	-0.0104
1117	0	Enve Design	Combination	Max	0.387	0.07	0.356	0.0166
1117	0.72252	Enve Design	Combination	Max	0.409	0.108	0.174	0.0166
1117	1.44503	Enve Design	Combination	Max	0.43	0.143	0.358	0.0166
1117	0	Enve Design	Combination	Min	-0.87	-0.297	-0.034	-0.0148
1117	0.72252	Enve Design	Combination	Min	-0.841	-0.248	-0.417	-0.0148
1117	1.44503	Enve Design	Combination	Min	-0.813	-0.2	-1.118	-0.0148
1118	0	Enve Design	Combination	Max	-0.63	0.352	1.446	0.0174
1118	0.72252	Enve Design	Combination	Max	-0.609	0.399	0.745	0.0174
1118	1.44503	Enve Design	Combination	Max	-0.588	0.449	0.15	0.0174
1118	0	Enve Design	Combination	Min	-1.422	-0.229	-0.54	-0.0155
1118	0.72252	Enve Design	Combination	Min	-1.39	-0.193	-0.355	-0.0155
1118	1.44503	Enve Design	Combination	Min	-1.356	-0.156	-0.184	-0.0155
1119	0	Enve Design	Combination	Max	1.169	-0.065	1.224	0.2908
1119	0.41667	Enve Design	Combination	Max	1.169	-0.006447	1.181	0.2908
1119	0.83333	Enve Design	Combination	Max	1.169	0.061	1.052	0.2908
1119	1.25	Enve Design	Combination	Max	1.169	0.125	0.966	0.2908

Table: Element Forces - Frames, Part 1 of 2

Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T
	m				KN	KN	KN	KN-m
1119	1.25	Enve Design	Combination	Max	0.451	0.037	2.208	0.0954
1119	1.66667	Enve Design	Combination	Max	0.451	0.1	2.535	0.0954
1119	2.08333	Enve Design	Combination	Max	0.451	0.168	3.026	0.0954
1119	2.5	Enve Design	Combination	Max	0.451	0.246	3.19	0.0954
1119	0	Enve Design	Combination	Min	-0.35	-0.314	-3.432	-0.243
1119	0.41667	Enve Design	Combination	Min	-0.35	-0.235	-3.268	-0.243
1119	0.83333	Enve Design	Combination	Min	-0.35	-0.145	-2.777	-0.243
1119	1.25	Enve Design	Combination	Min	-0.35	-0.06	-2.45	-0.243
1119	1.25	Enve Design	Combination	Min	-0.911	-0.186	-0.669	-0.1411
1119	1.66667	Enve Design	Combination	Min	-0.911	-0.101	-0.755	-0.1411
1119	2.08333	Enve Design	Combination	Min	-0.911	-0.011	-0.885	-0.1411
1119	2.5	Enve Design	Combination	Min	-0.911	0.068	-0.928	-0.1411
1121	0	Enve Design	Combination	Max	0.237	0.094	0.166	0.0183
1121	0.41667	Enve Design	Combination	Max	0.237	0.114	0.188	0.0183
1121	0.83333	Enve Design	Combination	Max	0.237	0.138	0.253	0.0183
1121	1.25	Enve Design	Combination	Max	0.237	0.16	0.296	0.0183
1121	1.25	Enve Design	Combination	Max	0.231	0.327	0.451	0.0237
1121	1.66667	Enve Design	Combination	Max	0.231	0.356	0.572	0.0237
1121	2.08333	Enve Design	Combination	Max	0.231	0.388	0.753	0.0237
1121	2.5	Enve Design	Combination	Max	0.231	0.414	0.813	0.0237
1121	0	Enve Design	Combination	Min	-0.231	-0.447	-0.813	-0.0237
1121	0.41667	Enve Design	Combination	Min	-0.231	-0.421	-0.753	-0.0237
1121	0.83333	Enve Design	Combination	Min	-0.231	-0.389	-0.572	-0.0237
1121	1.25	Enve Design	Combination	Min	-0.231	-0.359	-0.452	-0.0237
1121	1.25	Enve Design	Combination	Min	-0.237	-0.159	-0.296	-0.0183
1121	1.66667	Enve Design	Combination	Min	-0.237	-0.137	-0.253	-0.0183
1121	2.08333	Enve Design	Combination	Min	-0.237	-0.113	-0.188	-0.0183
1121	2.5	Enve Design	Combination	Min	-0.237	-0.093	-0.166	-0.0183
1124	0	Enve Design	Combination	Max	-0.8	0.085	0.059	0.0009083
1124	0.3625	Enve Design	Combination	Max	-0.779	0.085	0.134	0.0009083
1124	0.725	Enve Design	Combination	Max	-0.751	0.085	0.296	0.0009083
1124	0	Enve Design	Combination	Min	-1.288	-0.657	-0.731	-0.001
1124	0.3625	Enve Design	Combination	Min	-1.255	-0.657	-1.099	-0.001
1124	0.725	Enve Design	Combination	Min	-1.212	-0.657	-1.713	-0.001
1125	0	Enve Design	Combination	Max	-0.537	0.943	2.219	0.0007081
1125	0.3625	Enve Design	Combination	Max	-0.509	0.943	1.605	0.0007081
1125	0.725	Enve Design	Combination	Max	-0.488	0.943	1.237	0.0007081
1125	0	Enve Design	Combination	Min	-1.079	-0.342	-0.746	-0.0007642
1125	0.3625	Enve Design	Combination	Min	-1.042	-0.342	-0.585	-0.0007642
1125	0.725	Enve Design	Combination	Min	-1.014	-0.342	-0.488	-0.0007642
1126	0	Enve Design	Combination	Max	-0.636	0.459	0.63	0.0003739
1126	0.3625	Enve Design	Combination	Max	-0.615	0.459	0.727	0.0003739
1126	0.725	Enve Design	Combination	Max	-0.587	0.459	0.888	0.0003739

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Table: Element Forces - Frames, Part 1 of 2

Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T
	m				KN	KN	KN	KN-m
1126	0	Enve Design	Combination	Min	-1.291	-1.137	-1.455	-0.0004259
1126	0.3625	Enve Design	Combination	Min	-1.263	-1.137	-1.824	-0.0004259
1126	0.725	Enve Design	Combination	Min	-1.226	-1.137	-2.438	-0.0004259
1127	0	Enve Design	Combination	Max	0.319	0.473	0.903	8.836E-05
1127	0.3625	Enve Design	Combination	Max	0.347	0.473	0.777	8.836E-05
1127	0.725	Enve Design	Combination	Max	0.368	0.473	0.851	8.836E-05
1127	0	Enve Design	Combination	Min	-0.686	-0.462	-0.592	-0.000151
1127	0.3625	Enve Design	Combination	Min	-0.649	-0.462	-0.753	-0.000151
1127	0.725	Enve Design	Combination	Min	-0.621	-0.462	-0.927	-0.000151
1128	0	Enve Design	Combination	Max	-0.742	0.159	0.546	0.0155
1128	0.72252	Enve Design	Combination	Max	-0.722	0.194	0.361	0.0155
1128	1.44503	Enve Design	Combination	Max	-0.7	0.232	0.189	0.0155
1128	0	Enve Design	Combination	Min	-1.321	-0.453	-1.452	-0.0174
1128	0.72252	Enve Design	Combination	Min	-1.289	-0.405	-0.751	-0.0174
1128	1.44503	Enve Design	Combination	Min	-1.255	-0.356	-0.158	-0.0174
1131	0	Enve Design	Combination	Max	-10.354	0.124	23.954	0.6371
1131	1.45	Enve Design	Combination	Max	-9.975	0.124	21.989	0.6371
1131	1.45	Enve Design	Combination	Max	-7.743	0.032	12.324	1.1211
1131	2.9	Enve Design	Combination	Max	-7.364	0.032	11.273	1.1211
1131	0	Enve Design	Combination	Min	-16.382	-0.072	-14.578	-0.7019
1131	1.45	Enve Design	Combination	Min	-15.793	-0.072	-14.06	-0.7019
1131	1.45	Enve Design	Combination	Min	-12.155	-0.005605	-10.534	-1.2348
1131	2.9	Enve Design	Combination	Min	-11.566	-0.005605	-10.017	-1.2348
1151	0	Enve Design	Combination	Max	0.995	0.177	0.073	0.0135
1151	0.72252	Enve Design	Combination	Max	1.024	0.226	0.379	0.0135
1151	1.44503	Enve Design	Combination	Max	1.052	0.274	1.08	0.0135
1151	0	Enve Design	Combination	Min	-0.254	-0.119	-0.394	-0.0151
1151	0.72252	Enve Design	Combination	Min	-0.233	-0.081	-0.13	-0.0151
1151	1.44503	Enve Design	Combination	Min	-0.212	-0.046	-0.315	-0.0151
1152	0	Enve Design	Combination	Max	-0.021	0.112	0.999	0.0113
1152	0.72252	Enve Design	Combination	Max	0.006841	0.159	0.298	0.0113
1152	1.44503	Enve Design	Combination	Max	0.036	0.209	0.121	0.0113
1152	0	Enve Design	Combination	Min	-0.786	-0.081	-0.267	-0.0108
1152	0.72252	Enve Design	Combination	Min	-0.754	-0.046	-0.083	-0.0108
1152	1.44503	Enve Design	Combination	Min	-0.72	-0.008446	-0.475	-0.0108
1153	0	Enve Design	Combination	Max	0.042	-0.007782	0.516	0.0083
1153	0.72252	Enve Design	Combination	Max	0.064	0.03	0.055	0.0083
1153	1.44503	Enve Design	Combination	Max	0.084	0.065	0.24	0.0083
1153	0	Enve Design	Combination	Min	-0.665	-0.188	-0.148	-0.0082
1153	0.72252	Enve Design	Combination	Min	-0.636	-0.138	-0.257	-0.0082
1153	1.44503	Enve Design	Combination	Min	-0.609	-0.091	-0.958	-0.0082
1158	0	Enve Design	Combination	Max	0.436	0.079	0.171	0.0067
1158	0.72252	Enve Design	Combination	Max	0.465	0.129	0.24	0.0067

Table: Element Forces - Frames, Part 1 of 2

Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T
	m				KN	KN	KN	KN-m
1158	1.44503	Enve Design	Combination	Max	0.492	0.176	0.94	0.0067
1158	0	Enve Design	Combination	Min	-0.206	-0.057	-0.533	-0.0067
1158	0.72252	Enve Design	Combination	Min	-0.185	-0.016	-0.033	-0.0067
1158	1.44503	Enve Design	Combination	Min	-0.164	0.02	-0.217	-0.0067
1159	0	Enve Design	Combination	Max	-0.288	0.03	0.304	0.0094
1159	0.72252	Enve Design	Combination	Max	-0.267	0.065	0.119	0.0094
1159	1.44503	Enve Design	Combination	Max	-0.245	0.103	0.442	0.0094
1159	0	Enve Design	Combination	Min	-1.121	-0.228	-1.032	-0.0097
1159	0.72252	Enve Design	Combination	Min	-1.093	-0.18	-0.331	-0.0097
1159	1.44503	Enve Design	Combination	Min	-1.065	-0.131	-0.084	-0.0097
1160	0	Enve Design	Combination	Max	0.383	0.073	0.349	0.0162
1160	0.72252	Enve Design	Combination	Max	0.405	0.111	0.18	0.0162
1160	1.44503	Enve Design	Combination	Max	0.425	0.146	0.364	0.0162
1160	0	Enve Design	Combination	Min	-0.903	-0.301	-0.034	-0.0144
1160	0.72252	Enve Design	Combination	Min	-0.874	-0.251	-0.424	-0.0144
1160	1.44503	Enve Design	Combination	Min	-0.847	-0.204	-1.124	-0.0144
1161	0	Enve Design	Combination	Max	-0.639	0.347	1.437	0.0166
1161	0.72252	Enve Design	Combination	Max	-0.618	0.395	0.737	0.0166
1161	1.44503	Enve Design	Combination	Max	-0.596	0.444	0.14	0.0166
1161	0	Enve Design	Combination	Min	-1.422	-0.223	-0.529	-0.0148
1161	0.72252	Enve Design	Combination	Min	-1.39	-0.187	-0.345	-0.0148
1161	1.44503	Enve Design	Combination	Min	-1.356	-0.15	-0.177	-0.0148
1162	0	Enve Design	Combination	Max	1.2	-0.072	1.324	0.4334
1162	0.41667	Enve Design	Combination	Max	1.2	-0.013	1.28	0.4334
1162	0.83333	Enve Design	Combination	Max	1.2	0.055	1.151	0.4334
1162	1.25	Enve Design	Combination	Max	1.2	0.119	1.065	0.4334
1162	1.25	Enve Design	Combination	Max	0.454	0.03	2.077	0.1682
1162	1.66667	Enve Design	Combination	Max	0.454	0.094	2.405	0.1682
1162	2.08333	Enve Design	Combination	Max	0.454	0.162	2.896	0.1682
1162	2.5	Enve Design	Combination	Max	0.454	0.242	3.06	0.1682
1162	0	Enve Design	Combination	Min	-0.336	-0.303	-3.546	-0.3649
1162	0.41667	Enve Design	Combination	Min	-0.336	-0.224	-3.382	-0.3649
1162	0.83333	Enve Design	Combination	Min	-0.336	-0.134	-2.891	-0.3649
1162	1.25	Enve Design	Combination	Min	-0.336	-0.049	-2.564	-0.3649
1162	1.25	Enve Design	Combination	Min	-0.871	-0.18	-0.552	-0.1659
1162	1.66667	Enve Design	Combination	Min	-0.871	-0.096	-0.638	-0.1659
1162	2.08333	Enve Design	Combination	Min	-0.871	-0.005349	-0.767	-0.1659
1162	2.5	Enve Design	Combination	Min	-0.871	0.073	-0.81	-0.1659
1164	0	Enve Design	Combination	Max	0.226	0.083	0.146	0.0177
1164	0.41667	Enve Design	Combination	Max	0.226	0.102	0.168	0.0177
1164	0.83333	Enve Design	Combination	Max	0.226	0.127	0.233	0.0177
1164	1.25	Enve Design	Combination	Max	0.226	0.148	0.276	0.0177
1164	1.25	Enve Design	Combination	Max	0.219	0.326	0.45	0.0233

Table: Element Forces - Frames, Part 1 of 2

Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T
	m				KN	KN	KN	KN-m
1164	1.66667	Enve Design	Combination	Max	0.219	0.355	0.57	0.0233
1164	2.08333	Enve Design	Combination	Max	0.219	0.387	0.751	0.0233
1164	2.5	Enve Design	Combination	Max	0.219	0.413	0.811	0.0233
1164	0	Enve Design	Combination	Min	-0.219	-0.446	-0.811	-0.0233
1164	0.41667	Enve Design	Combination	Min	-0.219	-0.419	-0.751	-0.0233
1164	0.83333	Enve Design	Combination	Min	-0.219	-0.387	-0.57	-0.0233
1164	1.25	Enve Design	Combination	Min	-0.219	-0.358	-0.45	-0.0233
1164	1.25	Enve Design	Combination	Min	-0.226	-0.148	-0.276	-0.0177
1164	1.66667	Enve Design	Combination	Min	-0.226	-0.126	-0.233	-0.0177
1164	2.08333	Enve Design	Combination	Min	-0.226	-0.101	-0.168	-0.0177
1164	2.5	Enve Design	Combination	Min	-0.226	-0.082	-0.147	-0.0177
1167	0	Enve Design	Combination	Max	-0.785	0.083	0.055	0.0017
1167	0.3625	Enve Design	Combination	Max	-0.764	0.083	0.133	0.0017
1167	0.725	Enve Design	Combination	Max	-0.736	0.083	0.294	0.0017
1167	0	Enve Design	Combination	Min	-1.262	-0.654	-0.726	-0.0019
1167	0.3625	Enve Design	Combination	Min	-1.229	-0.654	-1.095	-0.0019
1167	0.725	Enve Design	Combination	Min	-1.186	-0.654	-1.709	-0.0019
1168	0	Enve Design	Combination	Max	-0.524	0.946	2.222	0.0014
1168	0.3625	Enve Design	Combination	Max	-0.496	0.946	1.608	0.0014
1168	0.725	Enve Design	Combination	Max	-0.475	0.946	1.24	0.0014
1168	0	Enve Design	Combination	Min	-1.061	-0.343	-0.747	-0.0016
1168	0.3625	Enve Design	Combination	Min	-1.024	-0.343	-0.585	-0.0016
1168	0.725	Enve Design	Combination	Min	-0.996	-0.343	-0.488	-0.0016
1169	0	Enve Design	Combination	Max	-0.628	0.447	0.611	0.000788
1169	0.3625	Enve Design	Combination	Max	-0.606	0.447	0.708	0.000788
1169	0.725	Enve Design	Combination	Max	-0.579	0.447	0.869	0.000788
1169	0	Enve Design	Combination	Min	-1.277	-1.125	-1.436	-0.000907
1169	0.3625	Enve Design	Combination	Min	-1.249	-1.125	-1.805	-0.000907
1169	0.725	Enve Design	Combination	Min	-1.212	-1.125	-2.419	-0.000907
1170	0	Enve Design	Combination	Max	0.296	0.452	0.899	0.0002111
1170	0.3625	Enve Design	Combination	Max	0.324	0.452	0.743	0.0002111
1170	0.725	Enve Design	Combination	Max	0.345	0.452	0.812	0.0002111
1170	0	Enve Design	Combination	Min	-0.684	-0.438	-0.552	-0.0002838
1170	0.3625	Enve Design	Combination	Min	-0.647	-0.438	-0.714	-0.0002838
1170	0.725	Enve Design	Combination	Min	-0.618	-0.438	-0.883	-0.0002838
1171	0	Enve Design	Combination	Max	-0.707	0.159	0.545	0.0149
1171	0.72252	Enve Design	Combination	Max	-0.686	0.194	0.36	0.0149
1171	1.44503	Enve Design	Combination	Max	-0.664	0.232	0.188	0.0149
1171	0	Enve Design	Combination	Min	-1.276	-0.454	-1.454	-0.0168
1171	0.72252	Enve Design	Combination	Min	-1.244	-0.407	-0.753	-0.0168
1171	1.44503	Enve Design	Combination	Min	-1.21	-0.357	-0.157	-0.0168
1174	0	Enve Design	Combination	Max	-10.03	0.136	23.131	1.2463
1174	1.45	Enve Design	Combination	Max	-9.652	0.136	21.166	1.2463

Table: Element Forces - Frames, Part 1 of 2

Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T
	m				KN	KN	KN	KN-m
1174	1.45	Enve Design	Combination	Max	-7.452	0.037	11.366	2.0018
1174	2.9	Enve Design	Combination	Max	-7.074	0.037	10.315	2.0018
1174	0	Enve Design	Combination	Min	-15.8	-0.069	-13.812	-1.4407
1174	1.45	Enve Design	Combination	Min	-15.211	-0.069	-13.294	-1.4407
1174	1.45	Enve Design	Combination	Min	-11.68	-0.00336	-9.733	-2.2668
1174	2.9	Enve Design	Combination	Min	-11.091	-0.00336	-9.215	-2.2668
1194	0	Enve Design	Combination	Max	1.046	0.163	0.093	0.012
1194	0.72252	Enve Design	Combination	Max	1.075	0.213	0.358	0.012
1194	1.44503	Enve Design	Combination	Max	1.103	0.261	1.059	0.012
1194	0	Enve Design	Combination	Min	-0.164	-0.107	-0.415	-0.0134
1194	0.72252	Enve Design	Combination	Min	-0.142	-0.069	-0.111	-0.0134
1194	1.44503	Enve Design	Combination	Min	-0.121	-0.034	-0.295	-0.0134
1195	0	Enve Design	Combination	Max	-0.039	0.1	0.979	0.0119
1195	0.72252	Enve Design	Combination	Max	-0.011	0.148	0.278	0.0119
1195	1.44503	Enve Design	Combination	Max	0.018	0.197	0.14	0.0119
1195	0	Enve Design	Combination	Min	-0.882	-0.07	-0.248	-0.0111
1195	0.72252	Enve Design	Combination	Min	-0.849	-0.034	-0.063	-0.0111
1195	1.44503	Enve Design	Combination	Min	-0.816	0.003442	-0.495	-0.0111
1196	0	Enve Design	Combination	Max	0.026	-0.015	0.54	0.009
1196	0.72252	Enve Design	Combination	Max	0.048	0.022	0.043	0.009
1196	1.44503	Enve Design	Combination	Max	0.069	0.058	0.227	0.009
1196	0	Enve Design	Combination	Min	-0.744	-0.174	-0.161	-0.0087
1196	0.72252	Enve Design	Combination	Min	-0.715	-0.124	-0.233	-0.0087
1196	1.44503	Enve Design	Combination	Min	-0.687	-0.077	-0.934	-0.0087
1201	0	Enve Design	Combination	Max	0.541	0.105	0.145	0.0063
1201	0.72252	Enve Design	Combination	Max	0.57	0.155	0.284	0.0063
1201	1.44503	Enve Design	Combination	Max	0.598	0.202	0.985	0.0063
1201	0	Enve Design	Combination	Min	-0.052	-0.068	-0.489	-0.0065
1201	0.72252	Enve Design	Combination	Min	-0.03	-0.031	-0.059	-0.0065
1201	1.44503	Enve Design	Combination	Min	-0.009289	0.004533	-0.243	-0.0065
1202	0	Enve Design	Combination	Max	-0.216	0.036	0.314	0.0083
1202	0.72252	Enve Design	Combination	Max	-0.196	0.071	0.13	0.0083
1202	1.44503	Enve Design	Combination	Max	-0.174	0.109	0.434	0.0083
1202	0	Enve Design	Combination	Min	-0.952	-0.232	-1.039	-0.0086
1202	0.72252	Enve Design	Combination	Min	-0.924	-0.185	-0.339	-0.0086
1202	1.44503	Enve Design	Combination	Min	-0.895	-0.135	-0.074	-0.0086
1203	0	Enve Design	Combination	Max	0.392	0.075	0.347	0.0156
1203	0.72252	Enve Design	Combination	Max	0.414	0.113	0.185	0.0156
1203	1.44503	Enve Design	Combination	Max	0.435	0.148	0.37	0.0156
1203	0	Enve Design	Combination	Min	-1	-0.301	-0.034	-0.0139
1203	0.72252	Enve Design	Combination	Min	-0.971	-0.251	-0.426	-0.0139
1203	1.44503	Enve Design	Combination	Min	-0.943	-0.204	-1.127	-0.0139
1204	0	Enve Design	Combination	Max	-0.647	0.322	1.39	0.0149

Table: Element Forces - Frames, Part 1 of 2

Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T
	m				KN	KN	KN	KN-m
1204	0.72252	Enve Design	Combination	Max	-0.626	0.369	0.69	0.0149
1204	1.44503	Enve Design	Combination	Max	-0.604	0.419	0.107	0.0149
1204	0	Enve Design	Combination	Min	-1.368	-0.205	-0.496	-0.0134
1204	0.72252	Enve Design	Combination	Min	-1.336	-0.169	-0.312	-0.0134
1204	1.44503	Enve Design	Combination	Min	-1.302	-0.132	-0.191	-0.0134
1205	0	Enve Design	Combination	Max	1.212	-0.062	1.483	0.7384
1205	0.41667	Enve Design	Combination	Max	1.212	-0.003455	1.44	0.7384
1205	0.83333	Enve Design	Combination	Max	1.212	0.064	1.311	0.7384
1205	1.25	Enve Design	Combination	Max	1.212	0.128	1.224	0.7384
1205	1.25	Enve Design	Combination	Max	0.423	-0.039	1.771	0.5036
1205	1.66667	Enve Design	Combination	Max	0.423	0.024	2.098	0.5036
1205	2.08333	Enve Design	Combination	Max	0.423	0.121	2.59	0.5036
1205	2.5	Enve Design	Combination	Max	0.423	0.212	2.754	0.5036
1205	0	Enve Design	Combination	Min	-0.323	-0.289	-3.766	-0.6024
1205	0.41667	Enve Design	Combination	Min	-0.323	-0.211	-3.602	-0.6024
1205	0.83333	Enve Design	Combination	Min	-0.323	-0.12	-3.111	-0.6024
1205	1.25	Enve Design	Combination	Min	-0.323	-0.036	-2.784	-0.6024
1205	1.25	Enve Design	Combination	Min	-0.803	-0.131	-0.323	-0.4261
1205	1.66667	Enve Design	Combination	Min	-0.803	-0.046	-0.409	-0.4261
1205	2.08333	Enve Design	Combination	Min	-0.803	0.044	-0.539	-0.4261
1205	2.5	Enve Design	Combination	Min	-0.803	0.122	-0.582	-0.4261
1207	0	Enve Design	Combination	Max	0.207	0.06	0.13	0.0164
1207	0.41667	Enve Design	Combination	Max	0.207	0.08	0.13	0.0164
1207	0.83333	Enve Design	Combination	Max	0.207	0.104	0.193	0.0164
1207	1.25	Enve Design	Combination	Max	0.207	0.126	0.236	0.0164
1207	1.25	Enve Design	Combination	Max	0.194	0.328	0.454	0.0217
1207	1.66667	Enve Design	Combination	Max	0.194	0.357	0.575	0.0217
1207	2.08333	Enve Design	Combination	Max	0.194	0.389	0.756	0.0217
1207	2.5	Enve Design	Combination	Max	0.194	0.416	0.816	0.0217
1207	0	Enve Design	Combination	Min	-0.194	-0.448	-0.816	-0.0217
1207	0.41667	Enve Design	Combination	Min	-0.194	-0.422	-0.756	-0.0217
1207	0.83333	Enve Design	Combination	Min	-0.194	-0.389	-0.575	-0.0217
1207	1.25	Enve Design	Combination	Min	-0.194	-0.36	-0.454	-0.0217
1207	1.25	Enve Design	Combination	Min	-0.207	-0.125	-0.237	-0.0164
1207	1.66667	Enve Design	Combination	Min	-0.207	-0.104	-0.194	-0.0164
1207	2.08333	Enve Design	Combination	Min	-0.207	-0.079	-0.131	-0.0164
1207	2.5	Enve Design	Combination	Min	-0.207	-0.06	-0.131	-0.0164
1210	0	Enve Design	Combination	Max	-0.693	0.103	0.071	0.0028
1210	0.3625	Enve Design	Combination	Max	-0.672	0.103	0.168	0.0028
1210	0.725	Enve Design	Combination	Max	-0.645	0.103	0.33	0.0028
1210	0	Enve Design	Combination	Min	-1.136	-0.68	-0.773	-0.0032
1210	0.3625	Enve Design	Combination	Min	-1.103	-0.68	-1.142	-0.0032
1210	0.725	Enve Design	Combination	Min	-1.059	-0.68	-1.756	-0.0032

Table: Element Forces - Frames, Part 1 of 2

Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T
	m				KN	KN	KN	KN-m
1211	0	Enve Design	Combination	Max	-0.456	0.914	2.168	0.0027
1211	0.3625	Enve Design	Combination	Max	-0.428	0.914	1.554	0.0027
1211	0.725	Enve Design	Combination	Max	-0.407	0.914	1.185	0.0027
1211	0	Enve Design	Combination	Min	-0.977	-0.32	-0.707	-0.0032
1211	0.3625	Enve Design	Combination	Min	-0.94	-0.32	-0.546	-0.0032
1211	0.725	Enve Design	Combination	Min	-0.912	-0.32	-0.449	-0.0032
1212	0	Enve Design	Combination	Max	-0.539	0.426	0.581	0.0017
1212	0.3625	Enve Design	Combination	Max	-0.518	0.426	0.678	0.0017
1212	0.725	Enve Design	Combination	Max	-0.49	0.426	0.84	0.0017
1212	0	Enve Design	Combination	Min	-1.205	-1.101	-1.404	-0.0023
1212	0.3625	Enve Design	Combination	Min	-1.177	-1.101	-1.773	-0.0023
1212	0.725	Enve Design	Combination	Min	-1.139	-1.101	-2.387	-0.0023
1213	0	Enve Design	Combination	Max	0.251	0.413	0.908	0.0006245
1213	0.3625	Enve Design	Combination	Max	0.279	0.413	0.68	0.0006245
1213	0.725	Enve Design	Combination	Max	0.3	0.413	0.733	0.0006245
1213	0	Enve Design	Combination	Min	-0.688	-0.389	-0.474	-0.001
1213	0.3625	Enve Design	Combination	Min	-0.651	-0.389	-0.635	-0.001
1213	0.725	Enve Design	Combination	Min	-0.623	-0.389	-0.789	-0.001
1214	0	Enve Design	Combination	Max	-0.557	0.159	0.544	0.0137
1214	0.72252	Enve Design	Combination	Max	-0.537	0.195	0.359	0.0137
1214	1.44503	Enve Design	Combination	Max	-0.515	0.232	0.183	0.0137
1214	0	Enve Design	Combination	Min	-1.09	-0.461	-1.463	-0.0153
1214	0.72252	Enve Design	Combination	Min	-1.058	-0.414	-0.762	-0.0153
1214	1.44503	Enve Design	Combination	Min	-1.024	-0.364	-0.156	-0.0153
1217	0	Enve Design	Combination	Max	-6.241	1.59	8.345	2.7128
1217	1.45	Enve Design	Combination	Max	-5.95	1.59	8.086	2.7128
1217	1.45	Enve Design	Combination	Max	-4.841	1.085	6.968	2.5815
1217	2.9	Enve Design	Combination	Max	-4.549	1.085	6.709	2.5815
1217	0	Enve Design	Combination	Min	-9.956	-1.127	-12.793	-3.7464
1217	1.45	Enve Design	Combination	Min	-9.503	-1.127	-11.81	-3.7464
1217	1.45	Enve Design	Combination	Min	-7.556	-1.047	-8.075	-2.8445
1217	2.9	Enve Design	Combination	Min	-7.103	-1.047	-7.549	-2.8445
B131	0	Enve Design	Combination	Max	0.206	0.06	0.131	0.0164
B131	0.41667	Enve Design	Combination	Max	0.206	0.08	0.131	0.0164
B131	0.83333	Enve Design	Combination	Max	0.206	0.104	0.194	0.0164
B131	1.25	Enve Design	Combination	Max	0.206	0.126	0.237	0.0164
B131	1.25	Enve Design	Combination	Max	0.194	0.328	0.454	0.0217
B131	1.66667	Enve Design	Combination	Max	0.194	0.357	0.575	0.0217
B131	2.08333	Enve Design	Combination	Max	0.194	0.389	0.756	0.0217
B131	2.5	Enve Design	Combination	Max	0.194	0.416	0.816	0.0217
B131	0	Enve Design	Combination	Min	-0.194	-0.448	-0.816	-0.0217
B131	0.41667	Enve Design	Combination	Min	-0.194	-0.422	-0.756	-0.0217
B131	0.83333	Enve Design	Combination	Min	-0.194	-0.39	-0.575	-0.0217

Table: Element Forces - Frames, Part 1 of 2

Frame	Station	OutputCase	CaseType	StepType	P	V2	V3	T
	m				KN	KN	KN	KN-m
B131	1.25	Enve Design	Combination	Min	-0.194	-0.36	-0.454	-0.0217
B131	1.25	Enve Design	Combination	Min	-0.206	-0.125	-0.236	-0.0164
B131	1.66667	Enve Design	Combination	Min	-0.206	-0.103	-0.193	-0.0164
B131	2.08333	Enve Design	Combination	Min	-0.206	-0.079	-0.131	-0.0164
B131	2.5	Enve Design	Combination	Min	-0.206	-0.06	-0.131	-0.0164
B143	0	Enve Design	Combination	Max	-0.72	0.103	0.071	0.0032
B143	0.3625	Enve Design	Combination	Max	-0.699	0.103	0.168	0.0032
B143	0.725	Enve Design	Combination	Max	-0.671	0.103	0.329	0.0032
B143	0	Enve Design	Combination	Min	-1.136	-0.681	-0.774	-0.0028
B143	0.3625	Enve Design	Combination	Min	-1.103	-0.681	-1.142	-0.0028
B143	0.725	Enve Design	Combination	Min	-1.059	-0.681	-1.756	-0.0028
B144	0	Enve Design	Combination	Max	-0.444	0.913	2.168	0.0032
B144	0.3625	Enve Design	Combination	Max	-0.416	0.913	1.553	0.0032
B144	0.725	Enve Design	Combination	Max	-0.395	0.913	1.185	0.0032
B144	0	Enve Design	Combination	Min	-0.897	-0.321	-0.708	-0.0027
B144	0.3625	Enve Design	Combination	Min	-0.86	-0.321	-0.546	-0.0027
B144	0.725	Enve Design	Combination	Min	-0.832	-0.321	-0.449	-0.0027
B145	0	Enve Design	Combination	Max	-0.619	0.426	0.581	0.0022
B145	0.3625	Enve Design	Combination	Max	-0.598	0.426	0.678	0.0022
B145	0.725	Enve Design	Combination	Max	-0.57	0.426	0.84	0.0022
B145	0	Enve Design	Combination	Min	-1.165	-1.101	-1.404	-0.0018
B145	0.3625	Enve Design	Combination	Min	-1.137	-1.101	-1.773	-0.0018
B145	0.725	Enve Design	Combination	Min	-1.1	-1.101	-2.387	-0.0018
B146	0	Enve Design	Combination	Max	0.251	0.412	0.908	0.0008391
B146	0.3625	Enve Design	Combination	Max	0.279	0.412	0.679	0.0008391
B146	0.725	Enve Design	Combination	Max	0.3	0.412	0.733	0.0008391
B146	0	Enve Design	Combination	Min	-0.688	-0.389	-0.474	-0.0006159
B146	0.3625	Enve Design	Combination	Min	-0.651	-0.389	-0.635	-0.0006159
B146	0.725	Enve Design	Combination	Min	-0.623	-0.389	-0.789	-0.0006159

Table: Element Forces - Frames, Part 2 of 2

Table: Element Forces - Frames, Part 2 of 2

Frame	Station	OutputCase	StepType	M2	M3	FrameElem	ElemStation
	m			KN-m	KN-m		m
3	0	Enve Design	Max	0.4554	0.2151	3-1	0
3	0.72252	Enve Design	Max	0.1557	0.1094	3-1	0.72252
3	1.44503	Enve Design	Max	0.1167	0.1595	3-1	1.44503
3	0	Enve Design	Min	-0.8634	-0.3773	3-1	0
3	0.72252	Enve Design	Min	-0.1421	-0.1105	3-1	0.72252
3	1.44503	Enve Design	Min	-0.0192	-0.0267	3-1	1.44503
7	0	Enve Design	Max	58.2781	0.0729	7-1	0
7	1.45	Enve Design	Max	31.6611	0.067	7-1	1.45

Table: Element Forces - Frames, Part 2 of 2

Frame	Station	OutputCase	StepType	M2	M3	FrameElem	ElemStation
	m			KN-m	KN-m		m
7	1.45	Enve Design	Max	32.3743	0.0123	7-2	0
7	2.9	Enve Design	Max	17.0195	0.0062	7-2	1.45
7	0	Enve Design	Min	-49.8645	-0.0657	7-1	0
7	1.45	Enve Design	Min	-30.2123	-0.0758	7-1	1.45
7	1.45	Enve Design	Min	-30.7567	-0.006	7-2	0
7	2.9	Enve Design	Min	-17.3833	-0.025	7-2	1.45
10	0	Enve Design	Max	44.7766	5.3275	10-1	0
10	1.45	Enve Design	Max	29.1509	3.7833	10-1	1.45
10	1.45	Enve Design	Max	28.6475	3.7071	10-2	0
10	2.9	Enve Design	Max	17.3201	2.3021	10-2	1.45
10	0	Enve Design	Min	-39.2405	-6.1089	10-1	0
10	1.45	Enve Design	Min	-27.3274	-3.9672	10-1	1.45
10	1.45	Enve Design	Min	-26.8969	-4.0209	10-2	0
10	2.9	Enve Design	Min	-16.9814	-2.2831	10-2	1.45
635	0	Enve Design	Max	0.1238	0.1049	635-1	0
635	0.72252	Enve Design	Max	0.1695	0.1132	635-1	0.72252
635	1.44503	Enve Design	Max	0.3746	0.1776	635-1	1.44503
635	0	Enve Design	Min	-0.1346	-0.0378	635-1	0
635	0.72252	Enve Design	Min	-0.1559	-0.1124	635-1	0.72252
635	1.44503	Enve Design	Min	-0.6789	-0.287	635-1	1.44503
636	0	Enve Design	Max	0.5005	0.1489	636-1	0
636	0.72252	Enve Design	Max	0.0676	0.0673	636-1	0.72252
636	1.44503	Enve Design	Max	0.0837	0.0063	636-1	1.44503
636	0	Enve Design	Min	-0.243	-0.1169	636-1	0
636	0.72252	Enve Design	Min	-0.1433	-0.0537	636-1	0.72252
636	1.44503	Enve Design	Min	-0.0785	-0.121	636-1	1.44503
637	0	Enve Design	Max	0.0835	0.0056	637-1	0
637	0.72252	Enve Design	Max	0.019	0.0269	637-1	0.72252
637	1.44503	Enve Design	Max	0.3755	0.0779	637-1	1.44503
637	0	Enve Design	Min	-0.076	-0.1176	637-1	0
637	0.72252	Enve Design	Min	-0.1375	-0.0182	637-1	0.72252
637	1.44503	Enve Design	Min	-0.1151	-0.043	637-1	1.44503
642	0	Enve Design	Max	0.136	0.0948	642-1	0
642	0.72252	Enve Design	Max	0.147	0.0714	642-1	0.72252
642	1.44503	Enve Design	Max	0.2072	0.0767	642-1	1.44503
642	0	Enve Design	Min	-0.1504	-0.0541	642-1	0
642	0.72252	Enve Design	Min	-0.0784	-0.0599	642-1	0.72252
642	1.44503	Enve Design	Min	-0.4552	-0.1497	642-1	1.44503
643	0	Enve Design	Max	0.2496	0.1007	643-1	0
643	0.72252	Enve Design	Max	0.1464	0.0838	643-1	0.72252
643	1.44503	Enve Design	Max	0.1388	0.099	643-1	1.44503
643	0	Enve Design	Min	-0.5078	-0.1798	643-1	0
643	0.72252	Enve Design	Min	-0.1012	-0.0747	643-1	0.72252

Table: Element Forces - Frames, Part 2 of 2

Frame	Station	OutputCase	StepType	M2	M3	FrameElem	ElemStation
	m			KN-m	KN-m		m
643	1.44503	Enve Design	Min	-0.1509	-0.0555	643-1	1.44503
644	0	Enve Design	Max	0.1176	0.0104	644-1	0
644	0.72252	Enve Design	Max	0.1051	0.0936	644-1	0.72252
644	1.44503	Enve Design	Max	0.5982	0.2145	644-1	1.44503
644	0	Enve Design	Min	-0.1078	-0.1306	644-1	0
644	0.72252	Enve Design	Min	-0.1254	-0.0729	644-1	0.72252
644	1.44503	Enve Design	Min	-0.2886	-0.1476	644-1	1.44503
645	0	Enve Design	Max	0.9163	0.38	645-1	0
645	0.72252	Enve Design	Max	0.1513	0.1313	645-1	0.72252
645	1.44503	Enve Design	Max	0.0122	0.0223	645-1	1.44503
645	0	Enve Design	Min	-0.5011	-0.2613	645-1	0
645	0.72252	Enve Design	Min	-0.1639	-0.1043	645-1	0.72252
645	1.44503	Enve Design	Min	-0.1382	-0.2041	645-1	1.44503
646	0	Enve Design	Max	0.1876	-0.0243	646-1	0
646	0.41667	Enve Design	Max	0.1442	-0.0032	646-1	0.41667
646	0.83333	Enve Design	Max	0.8968	0.0713	646-1	0.83333
646	1.25	Enve Design	Max	1.8079	0.1096	646-1	1.25
646	1.25	Enve Design	Max	1.8084	0.073	646-2	0
646	1.66667	Enve Design	Max	0.6947	0.0493	646-2	0.41667
646	2.08333	Enve Design	Max	0.2829	-0.0018	646-2	0.83333
646	2.5	Enve Design	Max	0.8283	-0.0173	646-2	1.25
646	0	Enve Design	Min	-1.4712	-0.1212	646-1	0
646	0.41667	Enve Design	Min	-0.3631	-0.0109	646-1	0.41667
646	0.83333	Enve Design	Min	-0.4398	-0.0129	646-1	0.83333
646	1.25	Enve Design	Min	-0.6817	-0.0486	646-1	1.25
646	1.25	Enve Design	Min	-0.6823	-0.0851	646-2	0
646	1.66667	Enve Design	Min	-0.2267	-0.0256	646-2	0.41667
646	2.08333	Enve Design	Min	-0.6237	-0.0075	646-2	0.83333
646	2.5	Enve Design	Min	-2.0785	-0.088	646-2	1.25
648	0	Enve Design	Max	0.1112	0.0645	648-1	0
648	0.41667	Enve Design	Max	0.047	0.0261	648-1	0.41667
648	0.83333	Enve Design	Max	0.1565	0.0908	648-1	0.83333
648	1.25	Enve Design	Max	0.3606	0.2457	648-1	1.25
648	1.25	Enve Design	Max	0.3605	0.2185	648-2	0
648	1.66667	Enve Design	Max	0.1565	0.0772	648-2	0.41667
648	2.08333	Enve Design	Max	0.047	0.0261	648-2	0.83333
648	2.5	Enve Design	Max	0.111	0.0642	648-2	1.25
648	0	Enve Design	Min	-0.4527	-0.2579	648-1	0
648	0.41667	Enve Design	Min	-0.123	-0.0775	648-1	0.41667
648	0.83333	Enve Design	Min	-0.0351	-0.0214	648-1	0.83333
648	1.25	Enve Design	Min	-0.1441	-0.079	648-1	1.25
648	1.25	Enve Design	Min	-0.1439	-0.0783	648-2	0
648	1.66667	Enve Design	Min	-0.035	-0.0211	648-2	0.41667

Table: Element Forces - Frames, Part 2 of 2

Frame	Station	OutputCase	StepType	M2	M3	FrameElem	ElemStation
	m			KN-m	KN-m		m
648	2.08333	Enve Design	Min	-0.123	-0.0775	648-2	0.83333
648	2.5	Enve Design	Min	-0.4527	-0.2444	648-2	1.25
651	0	Enve Design	Max	0.3187	0.1741	651-1	0
651	0.3625	Enve Design	Max	0.3434	0.2043	651-1	0.3625
651	0.725	Enve Design	Max	0.6414	0.3213	651-1	0.725
651	0	Enve Design	Min	-0.5208	-0.3269	651-1	0
651	0.3625	Enve Design	Min	-0.3639	-0.2099	651-1	0.3625
651	0.725	Enve Design	Min	-0.4279	-0.2344	651-1	0.725
652	0	Enve Design	Max	1.0154	0.5367	652-1	0
652	0.3625	Enve Design	Max	0.5139	0.3095	652-1	0.3625
652	0.725	Enve Design	Max	0.3114	0.1707	652-1	0.725
652	0	Enve Design	Min	-0.7489	-0.4194	652-1	0
652	0.3625	Enve Design	Min	-0.5002	-0.295	652-1	0.3625
652	0.725	Enve Design	Min	-0.5114	-0.3193	652-1	0.725
653	0	Enve Design	Max	0.4216	0.2171	653-1	0
653	0.3625	Enve Design	Max	0.7195	0.4209	653-1	0.3625
653	0.725	Enve Design	Max	1.3275	0.7314	653-1	0.725
653	0	Enve Design	Min	-0.4972	-0.302	653-1	0
653	0.3625	Enve Design	Min	-0.6549	-0.3792	653-1	0.3625
653	0.725	Enve Design	Min	-0.9478	-0.5411	653-1	0.725
654	0	Enve Design	Max	0.0465	0.0034	654-1	0
654	0.3625	Enve Design	Max	0.2577	0.1594	654-1	0.3625
654	0.725	Enve Design	Max	0.5399	0.3182	654-1	0.725
654	0	Enve Design	Min	-0.0355	-0.0272	654-1	0
654	0.3625	Enve Design	Min	-0.2968	-0.1728	654-1	0.3625
654	0.725	Enve Design	Min	-0.5653	-0.3365	654-1	0.725
655	0	Enve Design	Max	0.4927	0.236	655-1	0
655	0.72252	Enve Design	Max	0.1671	0.1173	655-1	0.72252
655	1.44503	Enve Design	Max	0.1277	0.1706	655-1	1.44503
655	0	Enve Design	Min	-0.9097	-0.4033	655-1	0
655	0.72252	Enve Design	Min	-0.1553	-0.1195	655-1	0.72252
655	1.44503	Enve Design	Min	-0.0183	-0.0319	655-1	1.44503
658	0	Enve Design	Max	61.7765	0.0734	658-1	0
658	1.45	Enve Design	Max	33.8496	0.0632	658-1	1.45
658	1.45	Enve Design	Max	34.4247	0.0145	658-2	0
658	2.9	Enve Design	Max	17.7153	0.0032	658-2	1.45
658	0	Enve Design	Min	-52.9276	-0.0628	658-1	0
658	1.45	Enve Design	Min	-32.1654	-0.0764	658-1	1.45
658	1.45	Enve Design	Min	-32.6151	-0.0031	658-2	0
658	2.9	Enve Design	Min	-18.1141	-0.0289	658-2	1.45
678	0	Enve Design	Max	0.1271	0.1049	678-1	0
678	0.72252	Enve Design	Max	0.1687	0.1125	678-1	0.72252
678	1.44503	Enve Design	Max	0.3692	0.1746	678-1	1.44503

Table: Element Forces - Frames, Part 2 of 2

Frame	Station	OutputCase	StepType	M2	M3	FrameElem	ElemStation
	m			KN-m	KN-m		m
678	0	Enve Design	Min	-0.1384	-0.0393	678-1	0
678	0.72252	Enve Design	Min	-0.1549	-0.1115	678-1	0.72252
678	1.44503	Enve Design	Min	-0.6729	-0.2837	678-1	1.44503
679	0	Enve Design	Max	0.5089	0.1537	679-1	0
679	0.72252	Enve Design	Max	0.0836	0.078	679-1	0.72252
679	1.44503	Enve Design	Max	0.1103	0.0152	679-1	1.44503
679	0	Enve Design	Min	-0.252	-0.1221	679-1	0
679	0.72252	Enve Design	Min	-0.1434	-0.0629	679-1	0.72252
679	1.44503	Enve Design	Min	-0.1014	-0.1208	679-1	1.44503
680	0	Enve Design	Max	0.1121	0.0139	680-1	0
680	0.72252	Enve Design	Max	0.0292	0.0426	680-1	0.72252
680	1.44503	Enve Design	Max	0.4049	0.0949	680-1	1.44503
680	0	Enve Design	Min	-0.1005	-0.1172	680-1	0
680	0.72252	Enve Design	Min	-0.1369	-0.0314	680-1	0.72252
680	1.44503	Enve Design	Min	-0.144	-0.0597	680-1	1.44503
685	0	Enve Design	Max	0.1313	0.0944	685-1	0
685	0.72252	Enve Design	Max	0.1456	0.0686	685-1	0.72252
685	1.44503	Enve Design	Max	0.2016	0.0735	685-1	1.44503
685	0	Enve Design	Min	-0.1452	-0.0512	685-1	0
685	0.72252	Enve Design	Min	-0.0733	-0.0569	685-1	0.72252
685	1.44503	Enve Design	Min	-0.4518	-0.1478	685-1	1.44503
686	0	Enve Design	Max	0.2528	0.1025	686-1	0
686	0.72252	Enve Design	Max	0.1467	0.0829	686-1	0.72252
686	1.44503	Enve Design	Max	0.1324	0.0989	686-1	1.44503
686	0	Enve Design	Min	-0.5101	-0.1811	686-1	0
686	0.72252	Enve Design	Min	-0.0996	-0.0736	686-1	0.72252
686	1.44503	Enve Design	Min	-0.1436	-0.052	686-1	1.44503
687	0	Enve Design	Max	0.1323	0.0164	687-1	0
687	0.72252	Enve Design	Max	0.1287	0.1094	687-1	0.72252
687	1.44503	Enve Design	Max	0.6351	0.2359	687-1	1.44503
687	0	Enve Design	Min	-0.1203	-0.1302	687-1	0
687	0.72252	Enve Design	Min	-0.1448	-0.0865	687-1	0.72252
687	1.44503	Enve Design	Min	-0.3232	-0.1677	687-1	1.44503
688	0	Enve Design	Max	0.9228	0.3835	688-1	0
688	0.72252	Enve Design	Max	0.1603	0.1372	688-1	0.72252
688	1.44503	Enve Design	Max	0.014	0.0172	688-1	1.44503
688	0	Enve Design	Min	-0.5107	-0.2667	688-1	0
688	0.72252	Enve Design	Min	-0.1718	-0.1095	688-1	0.72252
688	1.44503	Enve Design	Min	-0.129	-0.1985	688-1	1.44503
689	0	Enve Design	Max	0.3878	-0.0218	689-1	0
689	0.41667	Enve Design	Max	0.0838	-0.0029	689-1	0.41667
689	0.83333	Enve Design	Max	0.7608	0.0755	689-1	0.83333
689	1.25	Enve Design	Max	1.7261	0.1176	689-1	1.25

Table: Element Forces - Frames, Part 2 of 2

Frame	Station	OutputCase	StepType	M2	M3	FrameElem	ElemStation
	m			KN-m	KN-m		m
689	1.25	Enve Design	Max	1.7264	0.0791	689-2	0
689	1.66667	Enve Design	Max	0.6602	0.0522	689-2	0.41667
689	2.08333	Enve Design	Max	0.2537	-0.0028	689-2	0.83333
689	2.5	Enve Design	Max	0.7579	-0.0165	689-2	1.25
689	0	Enve Design	Min	-1.7158	-0.1252	689-1	0
689	0.41667	Enve Design	Min	-0.4093	-0.0111	689-1	0.41667
689	0.83333	Enve Design	Min	-0.3376	-0.0159	689-1	0.83333
689	1.25	Enve Design	Min	-0.6284	-0.0544	689-1	1.25
689	1.25	Enve Design	Min	-0.6288	-0.091	689-2	0
689	1.66667	Enve Design	Min	-0.2145	-0.0293	689-2	0.41667
689	2.08333	Enve Design	Min	-0.6108	-0.0088	689-2	0.83333
689	2.5	Enve Design	Min	-2.0181	-0.09	689-2	1.25
691	0	Enve Design	Max	0.1235	0.0718	691-1	0
691	0.41667	Enve Design	Max	0.0511	0.0285	691-1	0.41667
691	0.83333	Enve Design	Max	0.1569	0.0911	691-1	0.83333
691	1.25	Enve Design	Max	0.3618	0.2465	691-1	1.25
691	1.25	Enve Design	Max	0.3617	0.2192	691-2	0
691	1.66667	Enve Design	Max	0.1569	0.0774	691-2	0.41667
691	2.08333	Enve Design	Max	0.0511	0.0285	691-2	0.83333
691	2.5	Enve Design	Max	0.1235	0.0713	691-2	1.25
691	0	Enve Design	Min	-0.4539	-0.2587	691-1	0
691	0.41667	Enve Design	Min	-0.1234	-0.0777	691-1	0.41667
691	0.83333	Enve Design	Min	-0.0392	-0.0239	691-1	0.83333
691	1.25	Enve Design	Min	-0.1565	-0.0863	691-1	1.25
691	1.25	Enve Design	Min	-0.1564	-0.0853	691-2	0
691	1.66667	Enve Design	Min	-0.0391	-0.0234	691-2	0.41667
691	2.08333	Enve Design	Min	-0.1234	-0.0778	691-2	0.83333
691	2.5	Enve Design	Min	-0.4539	-0.2452	691-2	1.25
694	0	Enve Design	Max	0.337	0.1844	694-1	0
694	0.3625	Enve Design	Max	0.3621	0.2151	694-1	0.3625
694	0.725	Enve Design	Max	0.6575	0.3307	694-1	0.725
694	0	Enve Design	Min	-0.5259	-0.3299	694-1	0
694	0.3625	Enve Design	Min	-0.381	-0.2197	694-1	0.3625
694	0.725	Enve Design	Min	-0.4471	-0.2456	694-1	0.725
695	0	Enve Design	Max	1.0284	0.5441	695-1	0
695	0.3625	Enve Design	Max	0.5349	0.3217	695-1	0.3625
695	0.725	Enve Design	Max	0.3313	0.1824	695-1	0.725
695	0	Enve Design	Min	-0.7683	-0.4306	695-1	0
695	0.3625	Enve Design	Min	-0.5199	-0.3064	695-1	0.3625
695	0.725	Enve Design	Min	-0.5161	-0.322	695-1	0.725
696	0	Enve Design	Max	0.4473	0.2314	696-1	0
696	0.3625	Enve Design	Max	0.7563	0.4419	696-1	0.3625
696	0.725	Enve Design	Max	1.3643	0.7527	696-1	0.725

Table: Element Forces - Frames, Part 2 of 2

Frame	Station	OutputCase	StepType	M2	M3	FrameElem	ElemStation
	m			KN-m	KN-m		m
696	0	Enve Design	Min	-0.5198	-0.3036	696-1	0
696	0.3625	Enve Design	Min	-0.6875	-0.3978	696-1	0.3625
696	0.725	Enve Design	Min	-0.9874	-0.5641	696-1	0.725
697	0	Enve Design	Max	0.0474	0.0036	697-1	0
697	0.3625	Enve Design	Max	0.2732	0.1685	697-1	0.3625
697	0.725	Enve Design	Max	0.5698	0.336	697-1	0.725
697	0	Enve Design	Min	-0.0366	-0.0273	697-1	0
697	0.3625	Enve Design	Min	-0.3104	-0.1808	697-1	0.3625
697	0.725	Enve Design	Min	-0.5915	-0.3522	697-1	0.725
698	0	Enve Design	Max	0.5069	0.244	698-1	0
698	0.72252	Enve Design	Max	0.1732	0.1212	698-1	0.72252
698	1.44503	Enve Design	Max	0.1276	0.1708	698-1	1.44503
698	0	Enve Design	Min	-0.9211	-0.4098	698-1	0
698	0.72252	Enve Design	Min	-0.162	-0.1238	698-1	0.72252
698	1.44503	Enve Design	Min	-0.0185	-0.0321	698-1	1.44503
701	0	Enve Design	Max	63.3098	0.0735	701-1	0
701	1.45	Enve Design	Max	35.0761	0.0611	701-1	1.45
701	1.45	Enve Design	Max	35.5883	0.0134	701-2	0
701	2.9	Enve Design	Max	18.4421	0.0018	701-2	1.45
701	0	Enve Design	Min	-54.3351	-0.0608	701-1	0
701	1.45	Enve Design	Min	-33.2813	-0.0759	701-1	1.45
701	1.45	Enve Design	Min	-33.6809	-0.0016	701-2	0
701	2.9	Enve Design	Min	-18.7781	-0.0281	701-2	1.45
721	0	Enve Design	Max	0.1293	0.1051	721-1	0
721	0.72252	Enve Design	Max	0.1683	0.1122	721-1	0.72252
721	1.44503	Enve Design	Max	0.3659	0.1728	721-1	1.44503
721	0	Enve Design	Min	-0.1409	-0.0404	721-1	0
721	0.72252	Enve Design	Min	-0.1543	-0.1111	721-1	0.72252
721	1.44503	Enve Design	Min	-0.6698	-0.282	721-1	1.44503
722	0	Enve Design	Max	0.5118	0.1553	722-1	0
722	0.72252	Enve Design	Max	0.0917	0.0832	722-1	0.72252
722	1.44503	Enve Design	Max	0.1241	0.0224	722-1	1.44503
722	0	Enve Design	Min	-0.2559	-0.1242	722-1	0
722	0.72252	Enve Design	Min	-0.1448	-0.0676	722-1	0.72252
722	1.44503	Enve Design	Min	-0.1138	-0.1218	722-1	1.44503
723	0	Enve Design	Max	0.127	0.0215	723-1	0
723	0.72252	Enve Design	Max	0.0459	0.0534	723-1	0.72252
723	1.44503	Enve Design	Max	0.4228	0.1053	723-1	1.44503
723	0	Enve Design	Min	-0.1138	-0.1183	723-1	0
723	0.72252	Enve Design	Min	-0.1388	-0.041	723-1	0.72252
723	1.44503	Enve Design	Min	-0.164	-0.0712	723-1	1.44503
728	0	Enve Design	Max	0.1298	0.0942	728-1	0
728	0.72252	Enve Design	Max	0.1448	0.0669	728-1	0.72252

Table: Element Forces - Frames, Part 2 of 2

Frame	Station	OutputCase	StepType	M2	M3	FrameElem	ElemStation
	m			KN-m	KN-m		m
728	1.44503	Enve Design	Max	0.1969	0.0708	728-1	1.44503
728	0	Enve Design	Min	-0.1436	-0.0503	728-1	0
728	0.72252	Enve Design	Min	-0.0702	-0.0551	728-1	0.72252
728	1.44503	Enve Design	Min	-0.4482	-0.1458	728-1	1.44503
729	0	Enve Design	Max	0.2553	0.1039	729-1	0
729	0.72252	Enve Design	Max	0.1469	0.0829	729-1	0.72252
729	1.44503	Enve Design	Max	0.1299	0.0986	729-1	1.44503
729	0	Enve Design	Min	-0.5119	-0.1821	729-1	0
729	0.72252	Enve Design	Min	-0.0996	-0.0736	729-1	0.72252
729	1.44503	Enve Design	Min	-0.1408	-0.0506	729-1	1.44503
730	0	Enve Design	Max	0.1387	0.0197	730-1	0
730	0.72252	Enve Design	Max	0.1408	0.1172	730-1	0.72252
730	1.44503	Enve Design	Max	0.6511	0.2452	730-1	1.44503
730	0	Enve Design	Min	-0.1261	-0.1307	730-1	0
730	0.72252	Enve Design	Min	-0.1556	-0.0934	730-1	0.72252
730	1.44503	Enve Design	Min	-0.3417	-0.1784	730-1	1.44503
731	0	Enve Design	Max	0.9257	0.3852	731-1	0
731	0.72252	Enve Design	Max	0.1645	0.1398	731-1	0.72252
731	1.44503	Enve Design	Max	0.0155	0.0147	731-1	1.44503
731	0	Enve Design	Min	-0.5152	-0.2692	731-1	0
731	0.72252	Enve Design	Min	-0.1757	-0.112	731-1	0.72252
731	1.44503	Enve Design	Min	-0.1262	-0.1964	731-1	1.44503
732	0	Enve Design	Max	0.5028	-0.0202	732-1	0
732	0.41667	Enve Design	Max	0.0928	-0.0026	732-1	0.41667
732	0.83333	Enve Design	Max	0.7071	0.0772	732-1	0.83333
732	1.25	Enve Design	Max	1.698	0.1207	732-1	1.25
732	1.25	Enve Design	Max	1.6982	0.0821	732-2	0
732	1.66667	Enve Design	Max	0.6555	0.0537	732-2	0.41667
732	2.08333	Enve Design	Max	0.2285	-0.003	732-2	0.83333
732	2.5	Enve Design	Max	0.7064	-0.016	732-2	1.25
732	0	Enve Design	Min	-1.8206	-0.1265	732-1	0
732	0.41667	Enve Design	Min	-0.4885	-0.0109	732-1	0.41667
732	0.83333	Enve Design	Min	-0.2813	-0.0175	732-1	0.83333

Table: Joint Reactions, Part 1 of 2

Table: Joint Reactions, Part 1 of 2

Joint	OutputCase	CaseType	StepType	F1	F2	F3	M1	M2
				KN	KN	KN	KN-m	KN-m
1	Enve Design	Combination	Max	2.445	8.731	11.235	45.1384	5.7706
1	Enve Design	Combination	Min	-0.385	-14.89	7.041	-39.4969	-5.1806
333	Enve Design	Combination	Max	0.256	15.348	18.921	62.5656	0.5604
333	Enve Design	Combination	Min	-0.126	-28.165	12.11	-53.4957	-0.8698
350	Enve Design	Combination	Max	0.211	15.524	19.046	64.1091	0.5708
350	Enve Design	Combination	Min	-0.139	-28.274	12.204	-54.9127	-0.8794
367	Enve Design	Combination	Max	0.185	15.555	19.065	64.8344	0.5754
367	Enve Design	Combination	Min	-0.146	-28.278	12.235	-55.5914	-0.8841
384	Enve Design	Combination	Max	0.166	15.552	19.066	65.1832	0.5771
384	Enve Design	Combination	Min	-0.153	-28.266	12.241	-55.9213	-0.8866
401	Enve Design	Combination	Max	0.151	15.545	19.065	65.3475	0.5775
401	Enve Design	Combination	Min	-0.163	-28.256	12.239	-56.0778	-0.8883
418	Enve Design	Combination	Max	0.138	15.54	19.064	65.4131	0.5773
418	Enve Design	Combination	Min	-0.175	-28.251	12.234	-56.1405	-0.8896
435	Enve Design	Combination	Max	0.127	15.54	19.064	65.4131	0.5767
435	Enve Design	Combination	Min	-0.191	-28.251	12.234	-56.1405	-0.8909
452	Enve Design	Combination	Max	0.116	15.545	19.065	65.3476	0.5758
452	Enve Design	Combination	Min	-0.211	-28.256	12.241	-56.0779	-0.8923
469	Enve Design	Combination	Max	0.105	15.552	19.066	65.1832	0.5745
469	Enve Design	Combination	Min	-0.238	-28.266	12.246	-55.9214	-0.8939
486	Enve Design	Combination	Max	0.094	15.556	19.065	64.8345	0.5725
486	Enve Design	Combination	Min	-0.273	-28.278	12.242	-55.5915	-0.8956
503	Enve Design	Combination	Max	0.084	15.524	19.046	64.1093	0.5691
503	Enve Design	Combination	Min	-0.325	-28.274	12.226	-54.9129	-0.8974
520	Enve Design	Combination	Max	0.071	15.348	18.921	62.5658	0.5627
520	Enve Design	Combination	Min	-0.416	-28.165	12.143	-53.4958	-0.8996
537	Enve Design	Combination	Max	0.031	14.631	18.245	59.0434	0.5477
537	Enve Design	Combination	Min	-0.653	-27.406	11.697	-50.4108	-0.8998
554	Enve Design	Combination	Max	0.84	8.731	11.236	45.1382	5.7892
554	Enve Design	Combination	Min	-1.739	-14.89	7.186	-39.4969	-5.0576
9639	Enve Design	Combination	Max	0.389	14.631	18.245	59.0431	0.536
9639	Enve Design	Combination	Min	-0.075	-27.405	11.7	-50.4108	-0.8436

Table: Joint Reactions, Part 2 of 2

Table: Joint Reactions, Part 2 of 2

Joint	OutputCase	StepType	M3
			KN-m
1	Enve Design	Max	3.01

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Table: Joint Reactions, Part 2 of 2

Joint	OutputCase	StepType	M3
			KN-m
1	Enve Design	Min	-4.8525
333	Enve Design	Max	0.6278
333	Enve Design	Min	-0.6926
350	Enve Design	Max	0.3917
350	Enve Design	Min	-0.4446
367	Enve Design	Max	0.3549
367	Enve Design	Min	-0.3788
384	Enve Design	Max	0.2992
384	Enve Design	Min	-0.3106
401	Enve Design	Max	0.2074
401	Enve Design	Min	-0.2131
418	Enve Design	Max	0.0796
418	Enve Design	Min	-0.0821
435	Enve Design	Max	0.0806
435	Enve Design	Min	-0.0808
452	Enve Design	Max	0.2115
452	Enve Design	Min	-0.2087
469	Enve Design	Max	0.309
469	Enve Design	Min	-0.3004
486	Enve Design	Max	0.3772
486	Enve Design	Min	-0.3562
503	Enve Design	Max	0.443
503	Enve Design	Min	-0.393
520	Enve Design	Max	0.6909
520	Enve Design	Min	-0.629
537	Enve Design	Max	1.4206
537	Enve Design	Min	-1.2314
554	Enve Design	Max	4.8519
554	Enve Design	Min	-3.0107
9639	Enve Design	Max	1.2301
9639	Enve Design	Min	-1.4223

16.2. DISEÑO DE LOS ELEMENTOS ESTRUCTURALES DE ACERO

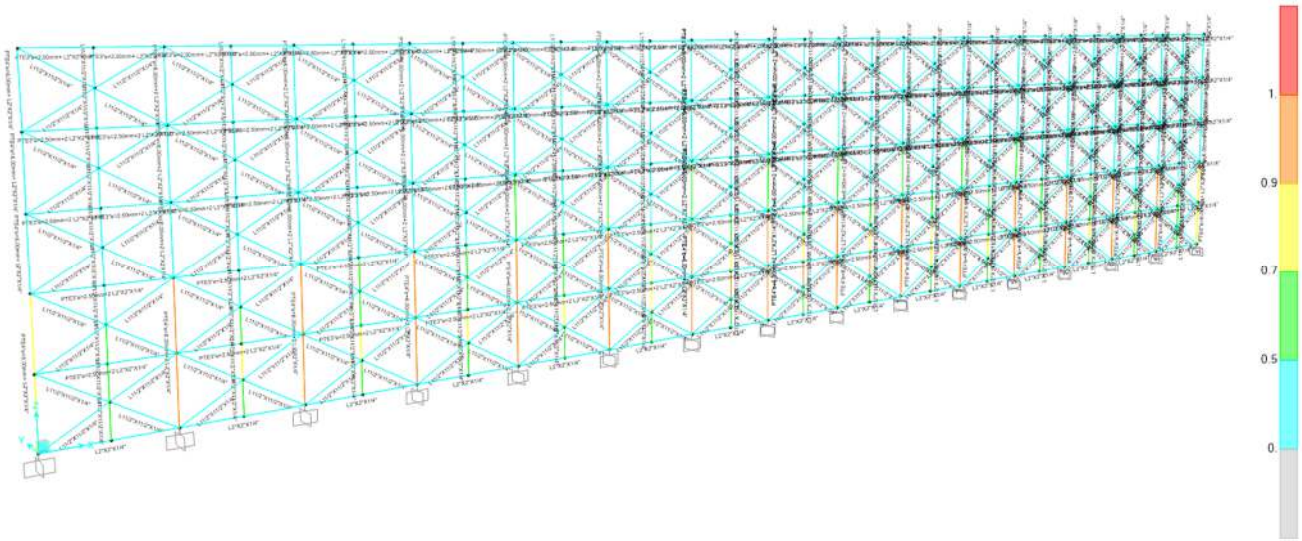


Imagen 12. Diseño de los elementos estructurales de acero

Table: Steel Design 1 - Summary Data - AISC 360-16, Part 1 of 2

Table: Steel Design 1 - Summary Data - AISC 360-16, Part 1 of 2

Frame	DesignSect	DesignType	Status	Ratio	RatioType
B8A	L11/2"X11/2"X1/4"	Brace	No Messages	0.248011	PMM
B8B	L11/2"X11/2"X1/4"	Brace	No Messages	0.150892	PMM
B8C	L11/2"X11/2"X1/4"	Brace	No Messages	0.067797	PMM
B8D	L11/2"X11/2"X1/4"	Brace	No Messages	0.157076	PMM
B8E	L11/2"X11/2"X1/4"	Brace	No Messages	0.129145	PMM
B93	L11/2"X11/2"X1/4"	Brace	No Messages	0.042981	PMM
B94	L11/2"X11/2"X1/4"	Brace	No Messages	0.078422	PMM
B95	L11/2"X11/2"X1/4"	Brace	No Messages	0.163083	PMM
B96	L11/2"X11/2"X1/4"	Brace	No Messages	0.192347	PMM
B97	L11/2"X11/2"X1/4"	Brace	No Messages	0.126364	PMM
B98	L11/2"X11/2"X1/4"	Brace	No Messages	0.336475	PMM
BF9	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.038191	PMM
B107	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.022167	PMM
B141	L11/2"X11/2"X1/4"	Column	No Messages	0.24402	PMM
B142	L11/2"X11/2"X1/4"	Column	No Messages	0.371736	PMM
B143	L11/2"X11/2"X1/4"	Column	No Messages	0.457717	PMM
B144	L11/2"X11/2"X1/4"	Column	No Messages	0.549712	PMM
B145	L11/2"X11/2"X1/4"	Column	No Messages	0.681427	PMM
B146	L11/2"X11/2"X1/4"	Column	No Messages	0.509016	PMM
3	L11/2"X11/2"X1/4"	Brace	No Messages	0.330124	PMM

Table: Steel Design 1 - Summary Data - AISC 360-16, Part 1 of 2

Frame	DesignSect	DesignType	Status	Ratio	RatioType
2	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.016115	PMM
4	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.022595	PMM
7	PTE4"e=6.00mm+2 L2"X2"X1/4"	Column	No Messages	0.948882	PMM
8	PTE4"e=6.00mm+2 L2"X2"X1/4"	Column	No Messages	0.440824	PMM
10	PTE4"e=6.00mm+ L2"X2"X1/4"	Column	No Messages	0.891457	PMM
11	PTE4"e=6.00mm+ L2"X2"X1/4"	Column	No Messages	0.461051	PMM
13	L11/2"X11/2"X1/4"	Brace	No Messages	0.136548	PMM
14	L11/2"X11/2"X1/4"	Brace	No Messages	0.095462	PMM
15	L11/2"X11/2"X1/4"	Brace	No Messages	0.057493	PMM
16	L11/2"X11/2"X1/4"	Brace	No Messages	0.060185	PMM
17	L11/2"X11/2"X1/4"	Column	No Messages	0.098681	PMM
18	L11/2"X11/2"X1/4"	Column	No Messages	0.195273	PMM
19	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.046515	PMM
20	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.034794	PMM
21	PTE4"e=6.00mm+2 L2"X2"X1/4"	Column	No Messages	0.228824	PMM
22	PTE4"e=6.00mm+ L2"X2"X1/4"	Column	No Messages	0.254235	PMM
23	L11/2"X11/2"X1/4"	Brace	No Messages	0.122605	PMM
24	L11/2"X11/2"X1/4"	Brace	No Messages	0.079755	PMM
25	L11/2"X11/2"X1/4"	Brace	No Messages	0.074082	PMM
26	L11/2"X11/2"X1/4"	Brace	No Messages	0.078356	PMM
27	L11/2"X11/2"X1/4"	Column	No Messages	0.051958	PMM
28	L11/2"X11/2"X1/4"	Column	No Messages	0.087555	PMM
29	PTE3"e=2.50mm+ L2"X2"X1/4"	Beam	No Messages	0.118451	PMM
30	PTE3"e=2.50mm+ L2"X2"X1/4"	Beam	No Messages	0.08374	PMM
31	PTE4"e=6.00mm+2 L2"X2"X1/4"	Column	No Messages	0.071061	PMM
32	PTE4"e=6.00mm+ L2"X2"X1/4"	Column	No Messages	0.08765	PMM
635	L11/2"X11/2"X1/4"	Brace	No Messages	0.25541	PMM
636	L11/2"X11/2"X1/4"	Brace	No Messages	0.174814	PMM
637	L11/2"X11/2"X1/4"	Brace	No Messages	0.084508	PMM
638	L11/2"X11/2"X1/4"	Brace	No Messages	0.149274	PMM
639	L11/2"X11/2"X1/4"	Brace	No Messages	0.118306	PMM

Table: Steel Design 1 - Summary Data - AISC 360-16, Part 1 of 2

Frame	DesignSect	DesignType	Status	Ratio	RatioType
640	L11/2"X11/2"X1/4"	Brace	No Messages	0.045803	PMM
641	L11/2"X11/2"X1/4"	Brace	No Messages	0.101598	PMM
642	L11/2"X11/2"X1/4"	Brace	No Messages	0.156744	PMM
643	L11/2"X11/2"X1/4"	Brace	No Messages	0.186699	PMM
644	L11/2"X11/2"X1/4"	Brace	No Messages	0.159478	PMM
645	L11/2"X11/2"X1/4"	Brace	No Messages	0.369219	PMM
646	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.037633	PMM
647	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.026869	PMM
649	L11/2"X11/2"X1/4"	Column	No Messages	0.251831	PMM
650	L11/2"X11/2"X1/4"	Column	No Messages	0.405774	PMM
651	L11/2"X11/2"X1/4"	Column	No Messages	0.491191	PMM
652	L11/2"X11/2"X1/4"	Column	No Messages	0.606579	PMM
653	L11/2"X11/2"X1/4"	Column	No Messages	0.748919	PMM
654	L11/2"X11/2"X1/4"	Column	No Messages	0.560816	PMM
655	L11/2"X11/2"X1/4"	Brace	No Messages	0.362212	PMM
656	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.025724	PMM
657	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.025824	PMM
659	PTE4"e=6.00mm+2 L2"X2"X1/4"	Column	No Messages	0.46658	PMM
660	L11/2"X11/2"X1/4"	Brace	No Messages	0.11883	PMM
661	L11/2"X11/2"X1/4"	Brace	No Messages	0.086073	PMM
662	L11/2"X11/2"X1/4"	Brace	No Messages	0.069596	PMM
663	L11/2"X11/2"X1/4"	Brace	No Messages	0.07908	PMM
664	L11/2"X11/2"X1/4"	Column	No Messages	0.094071	PMM
665	L11/2"X11/2"X1/4"	Column	No Messages	0.210423	PMM
666	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.034654	PMM
667	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.034685	PMM
668	PTE4"e=6.00mm+2 L2"X2"X1/4"	Column	No Messages	0.235361	PMM
669	L11/2"X11/2"X1/4"	Brace	No Messages	0.105902	PMM
670	L11/2"X11/2"X1/4"	Brace	No Messages	0.077681	PMM
671	L11/2"X11/2"X1/4"	Brace	No Messages	0.097826	PMM
672	L11/2"X11/2"X1/4"	Brace	No Messages	0.107269	PMM
673	L11/2"X11/2"X1/4"	Column	No Messages	0.039935	PMM
674	L11/2"X11/2"X1/4"	Column	No Messages	0.095619	PMM
675	PTE3"e=2.50mm+ L2"X2"X1/4"	Beam	No Messages	0.109629	PMM
676	PTE3"e=2.50mm+ L2"X2"X1/4"	Beam	No Messages	0.105633	PMM

Table: Steel Design 1 - Summary Data - AISC 360-16, Part 1 of 2

Frame	DesignSect	DesignType	Status	Ratio	RatioType
677	PTE4"e=6.00mm+2 L2"X2"X1/4"	Column	No Messages	0.06935	PMM
678	L11/2"X11/2"X1/4"	Brace	No Messages	0.260812	PMM
679	L11/2"X11/2"X1/4"	Brace	No Messages	0.187089	PMM
680	L11/2"X11/2"X1/4"	Brace	No Messages	0.100052	PMM
681	L11/2"X11/2"X1/4"	Brace	No Messages	0.149336	PMM
682	L11/2"X11/2"X1/4"	Brace	No Messages	0.113987	PMM
683	L11/2"X11/2"X1/4"	Brace	No Messages	0.056518	PMM
684	L11/2"X11/2"X1/4"	Brace	No Messages	0.113632	PMM
685	L11/2"X11/2"X1/4"	Brace	No Messages	0.156715	PMM
686	L11/2"X11/2"X1/4"	Brace	No Messages	0.193565	PMM
687	L11/2"X11/2"X1/4"	Brace	No Messages	0.18376	PMM
688	L11/2"X11/2"X1/4"	Brace	No Messages	0.390175	PMM
689	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.036118	PMM
690	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.024136	PMM
692	L11/2"X11/2"X1/4"	Column	No Messages	0.263857	PMM
693	L11/2"X11/2"X1/4"	Column	No Messages	0.428481	PMM
694	L11/2"X11/2"X1/4"	Column	No Messages	0.519419	PMM
695	L11/2"X11/2"X1/4"	Column	No Messages	0.643725	PMM
696	L11/2"X11/2"X1/4"	Column	No Messages	0.798712	PMM
697	L11/2"X11/2"X1/4"	Column	No Messages	0.599913	PMM
698	L11/2"X11/2"X1/4"	Brace	No Messages	0.382973	PMM
699	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.023689	PMM
700	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.023805	PMM
702	PTE4"e=6.00mm+2 L2"X2"X1/4"	Column	No Messages	0.491763	PMM
703	L11/2"X11/2"X1/4"	Brace	No Messages	0.115405	PMM
704	L11/2"X11/2"X1/4"	Brace	No Messages	0.081376	PMM
705	L11/2"X11/2"X1/4"	Brace	No Messages	0.071524	PMM
706	L11/2"X11/2"X1/4"	Brace	No Messages	0.079721	PMM
707	L11/2"X11/2"X1/4"	Column	No Messages	0.095799	PMM
708	L11/2"X11/2"X1/4"	Column	No Messages	0.222773	PMM
709	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.034159	PMM
710	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.034207	PMM
711	PTE4"e=6.00mm+2 L2"X2"X1/4"	Column	No Messages	0.246455	PMM
712	L11/2"X11/2"X1/4"	Brace	No Messages	0.102448	PMM
713	L11/2"X11/2"X1/4"	Brace	No Messages	0.075244	PMM
714	L11/2"X11/2"X1/4"	Brace	No Messages	0.101113	PMM

Table: Steel Design 1 - Summary Data - AISC 360-16, Part 1 of 2

Frame	DesignSect	DesignType	Status	Ratio	RatioType
715	L11/2"X11/2"X1/4"	Brace	No Messages	0.109525	PMM
716	L11/2"X11/2"X1/4"	Column	No Messages	0.035333	PMM
717	L11/2"X11/2"X1/4"	Column	No Messages	0.102276	PMM
718	PTE3"e=2.50mm+ L2"X2"X1/4"	Beam	No Messages	0.101661	PMM
719	PTE3"e=2.50mm+ L2"X2"X1/4"	Beam	No Messages	0.107002	PMM
720	PTE4"e=6.00mm+2 L2"X2"X1/4"	Column	No Messages	0.071325	PMM
721	L11/2"X11/2"X1/4"	Brace	No Messages	0.264356	PMM
722	L11/2"X11/2"X1/4"	Brace	No Messages	0.195358	PMM
723	L11/2"X11/2"X1/4"	Brace	No Messages	0.113034	PMM
724	L11/2"X11/2"X1/4"	Brace	No Messages	0.150472	PMM
725	L11/2"X11/2"X1/4"	Brace	No Messages	0.109955	PMM
726	L11/2"X11/2"X1/4"	Brace	No Messages	0.06571	PMM
727	L11/2"X11/2"X1/4"	Brace	No Messages	0.122524	PMM
728	L11/2"X11/2"X1/4"	Brace	No Messages	0.157012	PMM
729	L11/2"X11/2"X1/4"	Brace	No Messages	0.200107	PMM
730	L11/2"X11/2"X1/4"	Brace	No Messages	0.203015	PMM
731	L11/2"X11/2"X1/4"	Brace	No Messages	0.405802	PMM
732	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.033788	PMM
733	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.02227	PMM
735	L11/2"X11/2"X1/4"	Column	No Messages	0.275796	PMM
736	L11/2"X11/2"X1/4"	Column	No Messages	0.446832	PMM
737	L11/2"X11/2"X1/4"	Column	No Messages	0.542566	PMM
738	L11/2"X11/2"X1/4"	Column	No Messages	0.673178	PMM
739	L11/2"X11/2"X1/4"	Column	No Messages	0.837581	PMM
740	L11/2"X11/2"X1/4"	Column	No Messages	0.630561	PMM
741	L11/2"X11/2"X1/4"	Brace	No Messages	0.398447	PMM
742	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.023808	PMM
743	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.023929	PMM
745	PTE4"e=6.00mm+2 L2"X2"X1/4"	Column	No Messages	0.513025	PMM
746	L11/2"X11/2"X1/4"	Brace	No Messages	0.112519	PMM
747	L11/2"X11/2"X1/4"	Brace	No Messages	0.076214	PMM
748	L11/2"X11/2"X1/4"	Brace	No Messages	0.070668	PMM
749	L11/2"X11/2"X1/4"	Brace	No Messages	0.078923	PMM
750	L11/2"X11/2"X1/4"	Column	No Messages	0.099399	PMM
751	L11/2"X11/2"X1/4"	Column	No Messages	0.232827	PMM
752	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.034499	PMM

Table: Steel Design 1 - Summary Data - AISC 360-16, Part 1 of 2

Frame	DesignSect	DesignType	Status	Ratio	RatioType
753	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.03456	PMM
754	PTE4"e=6.00mm+2 L2"X2"X1/4"	Column	No Messages	0.256857	PMM
755	L11/2"X11/2"X1/4"	Brace	No Messages	0.098185	PMM
756	L11/2"X11/2"X1/4"	Brace	No Messages	0.06957	PMM
757	L11/2"X11/2"X1/4"	Brace	No Messages	0.097173	PMM
758	L11/2"X11/2"X1/4"	Brace	No Messages	0.105349	PMM
759	L11/2"X11/2"X1/4"	Column	No Messages	0.034722	PMM
760	L11/2"X11/2"X1/4"	Column	No Messages	0.106995	PMM
761	PTE3"e=2.50mm+ L2"X2"X1/4"	Beam	No Messages	0.089768	PMM
762	PTE3"e=2.50mm+ L2"X2"X1/4"	Beam	No Messages	0.103542	PMM
763	PTE4"e=6.00mm+2 L2"X2"X1/4"	Column	No Messages	0.073861	PMM
764	L11/2"X11/2"X1/4"	Brace	No Messages	0.265673	PMM
765	L11/2"X11/2"X1/4"	Brace	No Messages	0.201585	PMM
766	L11/2"X11/2"X1/4"	Brace	No Messages	0.123204	PMM
767	L11/2"X11/2"X1/4"	Brace	No Messages	0.151302	PMM
768	L11/2"X11/2"X1/4"	Brace	No Messages	0.103923	PMM
769	L11/2"X11/2"X1/4"	Brace	No Messages	0.072285	PMM
770	L11/2"X11/2"X1/4"	Brace	No Messages	0.129869	PMM
771	L11/2"X11/2"X1/4"	Brace	No Messages	0.156187	PMM
772	L11/2"X11/2"X1/4"	Brace	No Messages	0.205465	PMM
773	L11/2"X11/2"X1/4"	Brace	No Messages	0.218394	PMM
774	L11/2"X11/2"X1/4"	Brace	No Messages	0.417908	PMM
775	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.030222	PMM
776	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.020983	PMM
778	L11/2"X11/2"X1/4"	Column	No Messages	0.285711	PMM
779	L11/2"X11/2"X1/4"	Column	No Messages	0.461462	PMM
780	L11/2"X11/2"X1/4"	Column	No Messages	0.560915	PMM
781	L11/2"X11/2"X1/4"	Column	No Messages	0.696438	PMM
782	L11/2"X11/2"X1/4"	Column	No Messages	0.867812	PMM
783	L11/2"X11/2"X1/4"	Column	No Messages	0.654468	PMM
784	L11/2"X11/2"X1/4"	Brace	No Messages	0.41044	PMM
785	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.021474	PMM
786	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.021606	PMM
788	PTE4"e=6.00mm+2 L2"X2"X1/4"	Column	No Messages	0.529557	PMM
789	L11/2"X11/2"X1/4"	Brace	No Messages	0.109111	PMM

Table: Steel Design 1 - Summary Data - AISC 360-16, Part 1 of 2

Frame	DesignSect	DesignType	Status	Ratio	RatioType
790	L11/2"X11/2"X1/4"	Brace	No Messages	0.067329	PMM
791	L11/2"X11/2"X1/4"	Brace	No Messages	0.068311	PMM
792	L11/2"X11/2"X1/4"	Brace	No Messages	0.084522	PMM
793	L11/2"X11/2"X1/4"	Column	No Messages	0.102665	PMM
794	L11/2"X11/2"X1/4"	Column	No Messages	0.240788	PMM
795	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.03205	PMM
796	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.032582	PMM
797	PTE4"e=6.00mm+2 L2"X2"X1/4"	Column	No Messages	0.265084	PMM
798	L11/2"X11/2"X1/4"	Brace	No Messages	0.091838	PMM
799	L11/2"X11/2"X1/4"	Brace	No Messages	0.058154	PMM
800	L11/2"X11/2"X1/4"	Brace	No Messages	0.09027	PMM
801	L11/2"X11/2"X1/4"	Brace	No Messages	0.098812	PMM
802	L11/2"X11/2"X1/4"	Column	No Messages	0.035143	PMM
803	L11/2"X11/2"X1/4"	Column	No Messages	0.110464	PMM
804	PTE3"e=2.50mm+ L2"X2"X1/4"	Beam	No Messages	0.071157	PMM
805	PTE3"e=2.50mm+ L2"X2"X1/4"	Beam	No Messages	0.100782	PMM
806	PTE4"e=6.00mm+2 L2"X2"X1/4"	Column	No Messages	0.075843	PMM
807	L11/2"X11/2"X1/4"	Brace	No Messages	0.264097	PMM
808	L11/2"X11/2"X1/4"	Brace	No Messages	0.206251	PMM
809	L11/2"X11/2"X1/4"	Brace	No Messages	0.131303	PMM
810	L11/2"X11/2"X1/4"	Brace	No Messages	0.150492	PMM
811	L11/2"X11/2"X1/4"	Brace	No Messages	0.095903	PMM
812	L11/2"X11/2"X1/4"	Brace	No Messages	0.077155	PMM
813	L11/2"X11/2"X1/4"	Brace	No Messages	0.13538	PMM
814	L11/2"X11/2"X1/4"	Brace	No Messages	0.153457	PMM
815	L11/2"X11/2"X1/4"	Brace	No Messages	0.209377	PMM
816	L11/2"X11/2"X1/4"	Brace	No Messages	0.230954	PMM
817	L11/2"X11/2"X1/4"	Brace	No Messages	0.426939	PMM
818	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.025319	PMM
819	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.019705	PMM
821	L11/2"X11/2"X1/4"	Column	No Messages	0.293084	PMM
822	L11/2"X11/2"X1/4"	Column	No Messages	0.472616	PMM
823	L11/2"X11/2"X1/4"	Column	No Messages	0.574479	PMM
824	L11/2"X11/2"X1/4"	Column	No Messages	0.713993	PMM
825	L11/2"X11/2"X1/4"	Column	No Messages	0.890047	PMM
826	L11/2"X11/2"X1/4"	Column	No Messages	0.672151	PMM
827	L11/2"X11/2"X1/4"	Brace	No Messages	0.419534	PMM

Table: Steel Design 1 - Summary Data - AISC 360-16, Part 1 of 2

Frame	DesignSect	DesignType	Status	Ratio	RatioType
828	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.024623	PMM
829	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.024747	PMM
831	PTE4"e=6.00mm+2 L2"X2"X1/4"	Column	No Messages	0.540974	PMM
832	L11/2"X11/2"X1/4"	Brace	No Messages	0.10377	PMM
833	L11/2"X11/2"X1/4"	Brace	No Messages	0.055778	PMM
834	L11/2"X11/2"X1/4"	Brace	No Messages	0.065577	PMM
835	L11/2"X11/2"X1/4"	Brace	No Messages	0.08749	PMM
836	L11/2"X11/2"X1/4"	Column	No Messages	0.105226	PMM
837	L11/2"X11/2"X1/4"	Column	No Messages	0.246978	PMM
838	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.036333	PMM
839	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.037091	PMM
840	PTE4"e=6.00mm+2 L2"X2"X1/4"	Column	No Messages	0.270687	PMM
841	L11/2"X11/2"X1/4"	Brace	No Messages	0.081272	PMM
842	L11/2"X11/2"X1/4"	Brace	No Messages	0.052005	PMM
843	L11/2"X11/2"X1/4"	Brace	No Messages	0.083509	PMM
844	L11/2"X11/2"X1/4"	Brace	No Messages	0.091897	PMM
845	L11/2"X11/2"X1/4"	Column	No Messages	0.035804	PMM
846	L11/2"X11/2"X1/4"	Column	No Messages	0.113335	PMM
847	PTE3"e=2.50mm+ L2"X2"X1/4"	Beam	No Messages	0.048649	PMM
848	PTE3"e=2.50mm+ L2"X2"X1/4"	Beam	No Messages	0.095313	PMM
849	PTE4"e=6.00mm+2 L2"X2"X1/4"	Column	No Messages	0.076956	PMM
850	L11/2"X11/2"X1/4"	Brace	No Messages	0.259398	PMM
851	L11/2"X11/2"X1/4"	Brace	No Messages	0.209424	PMM
852	L11/2"X11/2"X1/4"	Brace	No Messages	0.137998	PMM
853	L11/2"X11/2"X1/4"	Brace	No Messages	0.148284	PMM
854	L11/2"X11/2"X1/4"	Brace	No Messages	0.088887	PMM
855	L11/2"X11/2"X1/4"	Brace	No Messages	0.080207	PMM
856	L11/2"X11/2"X1/4"	Brace	No Messages	0.140082	PMM
857	L11/2"X11/2"X1/4"	Brace	No Messages	0.149005	PMM
858	L11/2"X11/2"X1/4"	Brace	No Messages	0.211637	PMM
859	L11/2"X11/2"X1/4"	Brace	No Messages	0.241546	PMM
860	L11/2"X11/2"X1/4"	Brace	No Messages	0.43255	PMM
861	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.019567	PMM
862	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.018207	PMM

Table: Steel Design 1 - Summary Data - AISC 360-16, Part 1 of 2

Frame	DesignSect	DesignType	Status	Ratio	RatioType
864	L11/2"X11/2"X1/4"	Column	No Messages	0.297614	PMM
865	L11/2"X11/2"X1/4"	Column	No Messages	0.479754	PMM
866	L11/2"X11/2"X1/4"	Column	No Messages	0.582943	PMM
867	L11/2"X11/2"X1/4"	Column	No Messages	0.725203	PMM
868	L11/2"X11/2"X1/4"	Column	No Messages	0.903932	PMM
869	L11/2"X11/2"X1/4"	Column	No Messages	0.68326	PMM
870	L11/2"X11/2"X1/4"	Brace	No Messages	0.425514	PMM
871	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.027664	PMM
872	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.02777	PMM
874	PTE4"e=6.00mm+2 L2"X2"X1/4"	Column	No Messages	0.546842	PMM
875	L11/2"X11/2"X1/4"	Brace	No Messages	0.098399	PMM
876	L11/2"X11/2"X1/4"	Brace	No Messages	0.048322	PMM
877	L11/2"X11/2"X1/4"	Brace	No Messages	0.058978	PMM
878	L11/2"X11/2"X1/4"	Brace	No Messages	0.089977	PMM
879	L11/2"X11/2"X1/4"	Column	No Messages	0.106725	PMM
880	L11/2"X11/2"X1/4"	Column	No Messages	0.250975	PMM
881	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.04111	PMM
882	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.041062	PMM
883	PTE4"e=6.00mm+2 L2"X2"X1/4"	Column	No Messages	0.273502	PMM
884	L11/2"X11/2"X1/4"	Brace	No Messages	0.07023	PMM
885	L11/2"X11/2"X1/4"	Brace	No Messages	0.054576	PMM
886	L11/2"X11/2"X1/4"	Brace	No Messages	0.073307	PMM
887	L11/2"X11/2"X1/4"	Brace	No Messages	0.080747	PMM
888	L11/2"X11/2"X1/4"	Column	No Messages	0.036331	PMM
889	L11/2"X11/2"X1/4"	Column	No Messages	0.115287	PMM
890	PTE3"e=2.50mm+ L2"X2"X1/4"	Beam	No Messages	0.056123	PMM
891	PTE3"e=2.50mm+ L2"X2"X1/4"	Beam	No Messages	0.081573	PMM
892	PTE4"e=6.00mm+2 L2"X2"X1/4"	Column	No Messages	0.077126	PMM
893	L11/2"X11/2"X1/4"	Brace	No Messages	0.252087	PMM
894	L11/2"X11/2"X1/4"	Brace	No Messages	0.210925	PMM
895	L11/2"X11/2"X1/4"	Brace	No Messages	0.143813	PMM
896	L11/2"X11/2"X1/4"	Brace	No Messages	0.144692	PMM
897	L11/2"X11/2"X1/4"	Brace	No Messages	0.083899	PMM
898	L11/2"X11/2"X1/4"	Brace	No Messages	0.08332	PMM
899	L11/2"X11/2"X1/4"	Brace	No Messages	0.143912	PMM
900	L11/2"X11/2"X1/4"	Brace	No Messages	0.143578	PMM

Table: Steel Design 1 - Summary Data - AISC 360-16, Part 1 of 2

Frame	DesignSect	DesignType	Status	Ratio	RatioType
901	L11/2"X11/2"X1/4"	Brace	No Messages	0.212002	PMM
902	L11/2"X11/2"X1/4"	Brace	No Messages	0.250595	PMM
903	L11/2"X11/2"X1/4"	Brace	No Messages	0.434259	PMM
904	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.018768	PMM
905	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.016998	PMM
907	L11/2"X11/2"X1/4"	Column	No Messages	0.299172	PMM
908	L11/2"X11/2"X1/4"	Column	No Messages	0.482335	PMM
909	L11/2"X11/2"X1/4"	Column	No Messages	0.585863	PMM
910	L11/2"X11/2"X1/4"	Column	No Messages	0.7292	PMM
911	L11/2"X11/2"X1/4"	Column	No Messages	0.90873	PMM
912	L11/2"X11/2"X1/4"	Column	No Messages	0.687088	PMM
913	L11/2"X11/2"X1/4"	Brace	No Messages	0.427886	PMM
914	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.031015	PMM
915	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.0311	PMM
917	PTE4"e=6.00mm+2 L2"X2"X1/4"	Column	No Messages	0.546832	PMM
918	L11/2"X11/2"X1/4"	Brace	No Messages	0.093449	PMM
919	L11/2"X11/2"X1/4"	Brace	No Messages	0.051475	PMM
920	L11/2"X11/2"X1/4"	Brace	No Messages	0.05122	PMM
921	L11/2"X11/2"X1/4"	Brace	No Messages	0.09278	PMM
922	L11/2"X11/2"X1/4"	Column	No Messages	0.107292	PMM
923	L11/2"X11/2"X1/4"	Column	No Messages	0.252465	PMM
924	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.045456	PMM
925	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.045359	PMM
926	PTE4"e=6.00mm+2 L2"X2"X1/4"	Column	No Messages	0.273596	PMM
927	L11/2"X11/2"X1/4"	Brace	No Messages	0.06702	PMM
928	L11/2"X11/2"X1/4"	Brace	No Messages	0.060462	PMM
929	L11/2"X11/2"X1/4"	Brace	No Messages	0.05968	PMM
930	L11/2"X11/2"X1/4"	Brace	No Messages	0.065546	PMM
931	L11/2"X11/2"X1/4"	Column	No Messages	0.036436	PMM
932	L11/2"X11/2"X1/4"	Column	No Messages	0.116086	PMM
933	PTE3"e=2.50mm+ L2"X2"X1/4"	Beam	No Messages	0.062074	PMM
934	PTE3"e=2.50mm+ L2"X2"X1/4"	Beam	No Messages	0.062396	PMM
935	PTE4"e=6.00mm+2 L2"X2"X1/4"	Column	No Messages	0.077275	PMM
936	L11/2"X11/2"X1/4"	Brace	No Messages	0.243026	PMM

Table: Steel Design 1 - Summary Data - AISC 360-16, Part 1 of 2

Frame	DesignSect	DesignType	Status	Ratio	RatioType
937	L11/2"X11/2"X1/4"	Brace	No Messages	0.210605	PMM
938	L11/2"X11/2"X1/4"	Brace	No Messages	0.149209	PMM
939	L11/2"X11/2"X1/4"	Brace	No Messages	0.14082	PMM
940	L11/2"X11/2"X1/4"	Brace	No Messages	0.080705	PMM
941	L11/2"X11/2"X1/4"	Brace	No Messages	0.088315	PMM
942	L11/2"X11/2"X1/4"	Brace	No Messages	0.147487	PMM
943	L11/2"X11/2"X1/4"	Brace	No Messages	0.137771	PMM
944	L11/2"X11/2"X1/4"	Brace	No Messages	0.210492	PMM
945	L11/2"X11/2"X1/4"	Brace	No Messages	0.257903	PMM
946	L11/2"X11/2"X1/4"	Brace	No Messages	0.431823	PMM
947	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.0201	PMM
948	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.018343	PMM
950	L11/2"X11/2"X1/4"	Column	No Messages	0.297643	PMM
951	L11/2"X11/2"X1/4"	Column	No Messages	0.479839	PMM
952	L11/2"X11/2"X1/4"	Column	No Messages	0.583021	PMM
953	L11/2"X11/2"X1/4"	Column	No Messages	0.725331	PMM
954	L11/2"X11/2"X1/4"	Column	No Messages	0.904068	PMM
955	L11/2"X11/2"X1/4"	Column	No Messages	0.683261	PMM
956	L11/2"X11/2"X1/4"	Brace	No Messages	0.42618	PMM
957	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.027685	PMM
958	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.027752	PMM
960	PTE4"e=6.00mm+2 L2"X2"X1/4"	Column	No Messages	0.540942	PMM
961	L11/2"X11/2"X1/4"	Brace	No Messages	0.091184	PMM
962	L11/2"X11/2"X1/4"	Brace	No Messages	0.058741	PMM
963	L11/2"X11/2"X1/4"	Brace	No Messages	0.048004	PMM
964	L11/2"X11/2"X1/4"	Brace	No Messages	0.098306	PMM
965	L11/2"X11/2"X1/4"	Column	No Messages	0.106643	PMM
966	L11/2"X11/2"X1/4"	Column	No Messages	0.250976	PMM
967	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.041127	PMM
968	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.041028	PMM
969	PTE4"e=6.00mm+2 L2"X2"X1/4"	Column	No Messages	0.270781	PMM
970	L11/2"X11/2"X1/4"	Brace	No Messages	0.080804	PMM
971	L11/2"X11/2"X1/4"	Brace	No Messages	0.075744	PMM
972	L11/2"X11/2"X1/4"	Brace	No Messages	0.053587	PMM
973	L11/2"X11/2"X1/4"	Brace	No Messages	0.068138	PMM
974	L11/2"X11/2"X1/4"	Column	No Messages	0.035703	PMM
975	L11/2"X11/2"X1/4"	Column	No Messages	0.115244	PMM

Table: Steel Design 1 - Summary Data - AISC 360-16, Part 1 of 2

Frame	DesignSect	DesignType	Status	Ratio	RatioType
976	PTE3"e=2.50mm+ L2"X2"X1/4"	Beam	No Messages	0.081193	PMM
977	PTE3"e=2.50mm+ L2"X2"X1/4"	Beam	No Messages	0.056506	PMM
978	PTE4"e=6.00mm+2 L2"X2"X1/4"	Column	No Messages	0.077065	PMM
979	L11/2"X11/2"X1/4"	Brace	No Messages	0.232415	PMM
980	L11/2"X11/2"X1/4"	Brace	No Messages	0.208444	PMM
981	L11/2"X11/2"X1/4"	Brace	No Messages	0.15358	PMM
982	L11/2"X11/2"X1/4"	Brace	No Messages	0.136043	PMM
983	L11/2"X11/2"X1/4"	Brace	No Messages	0.077592	PMM
984	L11/2"X11/2"X1/4"	Brace	No Messages	0.095265	PMM
985	L11/2"X11/2"X1/4"	Brace	No Messages	0.149707	PMM
986	L11/2"X11/2"X1/4"	Brace	No Messages	0.131128	PMM
987	L11/2"X11/2"X1/4"	Brace	No Messages	0.207251	PMM
988	L11/2"X11/2"X1/4"	Brace	No Messages	0.262606	PMM
989	L11/2"X11/2"X1/4"	Brace	No Messages	0.425712	PMM
990	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.025844	PMM
991	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.019842	PMM
993	L11/2"X11/2"X1/4"	Column	No Messages	0.293143	PMM
994	L11/2"X11/2"X1/4"	Column	No Messages	0.472787	PMM
995	L11/2"X11/2"X1/4"	Column	No Messages	0.574637	PMM
996	L11/2"X11/2"X1/4"	Column	No Messages	0.714243	PMM
997	L11/2"X11/2"X1/4"	Column	No Messages	0.890312	PMM
998	L11/2"X11/2"X1/4"	Column	No Messages	0.672152	PMM
999	L11/2"X11/2"X1/4"	Brace	No Messages	0.420634	PMM
1000	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.024659	PMM
1001	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.024714	PMM
1003	PTE4"e=6.00mm+2 L2"X2"X1/4"	Column	No Messages	0.529529	PMM
1004	L11/2"X11/2"X1/4"	Brace	No Messages	0.088597	PMM
1005	L11/2"X11/2"X1/4"	Brace	No Messages	0.065062	PMM
1006	L11/2"X11/2"X1/4"	Brace	No Messages	0.055089	PMM
1007	L11/2"X11/2"X1/4"	Brace	No Messages	0.104158	PMM
1008	L11/2"X11/2"X1/4"	Column	No Messages	0.105046	PMM
1009	L11/2"X11/2"X1/4"	Column	No Messages	0.246991	PMM
1010	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.036934	PMM
1011	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.036292	PMM

Table: Steel Design 1 - Summary Data - AISC 360-16, Part 1 of 2

Frame	DesignSect	DesignType	Status	Ratio	RatioType
1012	PTE4"e=6.00mm+2 L2"X2"X1/4"	Column	No Messages	0.265144	PMM
1013	L11/2"X11/2"X1/4"	Brace	No Messages	0.09172	PMM
1014	L11/2"X11/2"X1/4"	Brace	No Messages	0.087146	PMM
1015	L11/2"X11/2"X1/4"	Brace	No Messages	0.049588	PMM
1016	L11/2"X11/2"X1/4"	Brace	No Messages	0.079361	PMM
1017	L11/2"X11/2"X1/4"	Column	No Messages	0.0343	PMM
1018	L11/2"X11/2"X1/4"	Column	No Messages	0.113242	PMM
1019	PTE3"e=2.50mm+ L2"X2"X1/4"	Beam	No Messages	0.095166	PMM
1020	PTE3"e=2.50mm+ L2"X2"X1/4"	Beam	No Messages	0.049164	PMM
1021	PTE4"e=6.00mm+2 L2"X2"X1/4"	Column	No Messages	0.075906	PMM
1022	L11/2"X11/2"X1/4"	Brace	No Messages	0.219824	PMM
1023	L11/2"X11/2"X1/4"	Brace	No Messages	0.204674	PMM
1024	L11/2"X11/2"X1/4"	Brace	No Messages	0.156195	PMM
1025	L11/2"X11/2"X1/4"	Brace	No Messages	0.130417	PMM
1026	L11/2"X11/2"X1/4"	Brace	No Messages	0.072672	PMM
1027	L11/2"X11/2"X1/4"	Brace	No Messages	0.103249	PMM
1028	L11/2"X11/2"X1/4"	Brace	No Messages	0.150554	PMM
1029	L11/2"X11/2"X1/4"	Brace	No Messages	0.123116	PMM
1030	L11/2"X11/2"X1/4"	Brace	No Messages	0.202468	PMM
1031	L11/2"X11/2"X1/4"	Brace	No Messages	0.264197	PMM
1032	L11/2"X11/2"X1/4"	Brace	No Messages	0.416421	PMM
1033	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.030736	PMM
1034	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.021125	PMM
1035	L2"X2"X1/4"	Beam	See WarnMsg	0.154071	PMM
1036	L11/2"X11/2"X1/4"	Column	No Messages	0.285803	PMM
1037	L11/2"X11/2"X1/4"	Column	No Messages	0.461719	PMM
1038	L11/2"X11/2"X1/4"	Column	No Messages	0.56115	PMM
1039	L11/2"X11/2"X1/4"	Column	No Messages	0.696801	PMM
1040	L11/2"X11/2"X1/4"	Column	No Messages	0.868195	PMM
1041	L11/2"X11/2"X1/4"	Column	No Messages	0.654468	PMM
1042	L11/2"X11/2"X1/4"	Brace	No Messages	0.411726	PMM
1043	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.021515	PMM
1044	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.021567	PMM
1046	PTE4"e=6.00mm+2 L2"X2"X1/4"	Column	No Messages	0.513011	PMM
1047	L11/2"X11/2"X1/4"	Brace	No Messages	0.085347	PMM
1048	L11/2"X11/2"X1/4"	Brace	No Messages	0.067512	PMM

Table: Steel Design 1 - Summary Data - AISC 360-16, Part 1 of 2

Frame	DesignSect	DesignType	Status	Ratio	RatioType
1049	L11/2"X11/2"X1/4"	Brace	No Messages	0.066503	PMM
1050	L11/2"X11/2"X1/4"	Brace	No Messages	0.109878	PMM
1051	L11/2"X11/2"X1/4"	Column	No Messages	0.102367	PMM
1052	L11/2"X11/2"X1/4"	Column	No Messages	0.240815	PMM
1053	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.0324	PMM
1054	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.032036	PMM
1055	PTE4"e=6.00mm+2 L2"X2"X1/4"	Column	No Messages	0.256884	PMM
1056	L11/2"X11/2"X1/4"	Brace	No Messages	0.09885	PMM
1057	L11/2"X11/2"X1/4"	Brace	No Messages	0.094231	PMM
1058	L11/2"X11/2"X1/4"	Brace	No Messages	0.056553	PMM
1059	L11/2"X11/2"X1/4"	Brace	No Messages	0.090069	PMM
1060	L11/2"X11/2"X1/4"	Column	No Messages	0.032514	PMM
1061	L11/2"X11/2"X1/4"	Column	No Messages	0.110281	PMM
1062	PTE3"e=2.50mm+ L2"X2"X1/4"	Beam	No Messages	0.100877	PMM
1063	PTE3"e=2.50mm+ L2"X2"X1/4"	Beam	No Messages	0.071283	PMM
1064	PTE4"e=6.00mm+2 L2"X2"X1/4"	Column	No Messages	0.073874	PMM
1065	L11/2"X11/2"X1/4"	Brace	No Messages	0.204399	PMM
1066	L11/2"X11/2"X1/4"	Brace	No Messages	0.199495	PMM
1067	L11/2"X11/2"X1/4"	Brace	No Messages	0.156869	PMM
1068	L11/2"X11/2"X1/4"	Brace	No Messages	0.122915	PMM
1069	L11/2"X11/2"X1/4"	Brace	No Messages	0.066129	PMM
1070	L11/2"X11/2"X1/4"	Brace	No Messages	0.109248	PMM
1071	L11/2"X11/2"X1/4"	Brace	No Messages	0.14979	PMM
1072	L11/2"X11/2"X1/4"	Brace	No Messages	0.113074	PMM
1073	L11/2"X11/2"X1/4"	Brace	No Messages	0.196078	PMM
1074	L11/2"X11/2"X1/4"	Brace	No Messages	0.26291	PMM
1075	L11/2"X11/2"X1/4"	Brace	No Messages	0.404166	PMM
1076	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.034284	PMM
1077	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.022397	PMM
1079	L11/2"X11/2"X1/4"	Column	No Messages	0.275911	PMM
1080	L11/2"X11/2"X1/4"	Column	No Messages	0.447173	PMM
1081	L11/2"X11/2"X1/4"	Column	No Messages	0.542875	PMM
1082	L11/2"X11/2"X1/4"	Column	No Messages	0.673652	PMM
1083	L11/2"X11/2"X1/4"	Column	No Messages	0.838075	PMM
1084	L11/2"X11/2"X1/4"	Column	No Messages	0.630559	PMM
1085	L11/2"X11/2"X1/4"	Brace	No Messages	0.399805	PMM

Table: Steel Design 1 - Summary Data - AISC 360-16, Part 1 of 2

Frame	DesignSect	DesignType	Status	Ratio	RatioType
1086	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.023844	PMM
1087	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.023894	PMM
1089	PTE4"e=6.00mm+2 L2"X2"X1/4"	Column	No Messages	0.491759	PMM
1090	L11/2"X11/2"X1/4"	Brace	No Messages	0.079463	PMM
1091	L11/2"X11/2"X1/4"	Brace	No Messages	0.069574	PMM
1092	L11/2"X11/2"X1/4"	Brace	No Messages	0.075257	PMM
1093	L11/2"X11/2"X1/4"	Brace	No Messages	0.113508	PMM
1094	L11/2"X11/2"X1/4"	Column	No Messages	0.098977	PMM
1095	L11/2"X11/2"X1/4"	Column	No Messages	0.232859	PMM
1096	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.034534	PMM
1097	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.03447	PMM
1098	PTE4"e=6.00mm+2 L2"X2"X1/4"	Column	No Messages	0.246471	PMM
1099	L11/2"X11/2"X1/4"	Brace	No Messages	0.105506	PMM
1100	L11/2"X11/2"X1/4"	Brace	No Messages	0.100937	PMM
1101	L11/2"X11/2"X1/4"	Brace	No Messages	0.067518	PMM
1102	L11/2"X11/2"X1/4"	Brace	No Messages	0.096574	PMM
1103	L11/2"X11/2"X1/4"	Column	No Messages	0.030926	PMM
1104	L11/2"X11/2"X1/4"	Column	No Messages	0.106675	PMM
1105	PTE3"e=2.50mm+ L2"X2"X1/4"	Beam	No Messages	0.103803	PMM
1106	PTE3"e=2.50mm+ L2"X2"X1/4"	Beam	No Messages	0.090003	PMM
1107	PTE4"e=6.00mm+2 L2"X2"X1/4"	Column	No Messages	0.071314	PMM
1108	L11/2"X11/2"X1/4"	Brace	No Messages	0.185078	PMM
1109	L11/2"X11/2"X1/4"	Brace	No Messages	0.19315	PMM
1110	L11/2"X11/2"X1/4"	Brace	No Messages	0.156399	PMM
1111	L11/2"X11/2"X1/4"	Brace	No Messages	0.113848	PMM
1112	L11/2"X11/2"X1/4"	Brace	No Messages	0.056996	PMM
1113	L11/2"X11/2"X1/4"	Brace	No Messages	0.11336	PMM
1114	L11/2"X11/2"X1/4"	Brace	No Messages	0.148731	PMM
1115	L11/2"X11/2"X1/4"	Brace	No Messages	0.100234	PMM
1116	L11/2"X11/2"X1/4"	Brace	No Messages	0.187604	PMM
1117	L11/2"X11/2"X1/4"	Brace	No Messages	0.259417	PMM
1118	L11/2"X11/2"X1/4"	Brace	No Messages	0.38835	PMM
1119	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.036591	PMM
1120	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.024259	PMM

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Table: Steel Design 1 - Summary Data - AISC 360-16, Part 1 of 2

Frame	DesignSect	DesignType	Status	Ratio	RatioType
1122	L11/2"X11/2"X1/4"	Column	No Messages	0.263999	PMM
1123	L11/2"X11/2"X1/4"	Column	No Messages	0.428908	PMM
1124	L11/2"X11/2"X1/4"	Column	No Messages	0.519799	PMM
1125	L11/2"X11/2"X1/4"	Column	No Messages	0.644318	PMM
1126	L11/2"X11/2"X1/4"	Column	No Messages	0.799318	PMM
1127	L11/2"X11/2"X1/4"	Column	No Messages	0.599906	PMM
1128	L11/2"X11/2"X1/4"	Brace	No Messages	0.384449	PMM
1129	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.023727	PMM
1130	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.02377	PMM
1132	PTE4"e=6.00mm+2 L2"X2"X1/4"	Column	No Messages	0.466578	PMM
1133	L11/2"X11/2"X1/4"	Brace	No Messages	0.079901	PMM
1134	L11/2"X11/2"X1/4"	Brace	No Messages	0.07017	PMM
1135	L11/2"X11/2"X1/4"	Brace	No Messages	0.080276	PMM
1136	L11/2"X11/2"X1/4"	Brace	No Messages	0.116455	PMM
1137	L11/2"X11/2"X1/4"	Column	No Messages	0.095264	PMM
1138	L11/2"X11/2"X1/4"	Column	No Messages	0.222809	PMM
1139	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.034185	PMM
1140	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.034118	PMM
1141	PTE4"e=6.00mm+2 L2"X2"X1/4"	Column	No Messages	0.235362	PMM
1142	L11/2"X11/2"X1/4"	Brace	No Messages	0.110039	PMM
1143	L11/2"X11/2"X1/4"	Brace	No Messages	0.105195	PMM
1144	L11/2"X11/2"X1/4"	Brace	No Messages	0.07287	PMM
1145	L11/2"X11/2"X1/4"	Brace	No Messages	0.101054	PMM
1146	L11/2"X11/2"X1/4"	Column	No Messages	0.030565	PMM
1147	L11/2"X11/2"X1/4"	Column	No Messages	0.101822	PMM
1148	PTE3"e=2.50mm+ L2"X2"X1/4"	Beam	No Messages	0.107321	PMM
1149	PTE3"e=2.50mm+ L2"X2"X1/4"	Beam	No Messages	0.102007	PMM
1150	PTE4"e=6.00mm+2 L2"X2"X1/4"	Column	No Messages	0.06932	PMM
1151	L11/2"X11/2"X1/4"	Brace	No Messages	0.160709	PMM
1152	L11/2"X11/2"X1/4"	Brace	No Messages	0.186476	PMM
1153	L11/2"X11/2"X1/4"	Brace	No Messages	0.156195	PMM
1154	L11/2"X11/2"X1/4"	Brace	No Messages	0.101573	PMM
1155	L11/2"X11/2"X1/4"	Brace	No Messages	0.046496	PMM
1156	L11/2"X11/2"X1/4"	Brace	No Messages	0.117809	PMM
1157	L11/2"X11/2"X1/4"	Brace	No Messages	0.148741	PMM
1158	L11/2"X11/2"X1/4"	Brace	No Messages	0.084816	PMM

Table: Steel Design 1 - Summary Data - AISC 360-16, Part 1 of 2

Frame	DesignSect	DesignType	Status	Ratio	RatioType
1159	L11/2"X11/2"X1/4"	Brace	No Messages	0.175054	PMM
1160	L11/2"X11/2"X1/4"	Brace	No Messages	0.254092	PMM
1161	L11/2"X11/2"X1/4"	Brace	No Messages	0.367119	PMM
1162	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.038073	PMM
1163	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.026985	PMM
1165	L11/2"X11/2"X1/4"	Column	No Messages	0.251967	PMM
1166	L11/2"X11/2"X1/4"	Column	No Messages	0.406258	PMM
1167	L11/2"X11/2"X1/4"	Column	No Messages	0.491633	PMM
1168	L11/2"X11/2"X1/4"	Column	No Messages	0.607317	PMM
1169	L11/2"X11/2"X1/4"	Column	No Messages	0.749661	PMM
1170	L11/2"X11/2"X1/4"	Column	No Messages	0.560789	PMM
1171	L11/2"X11/2"X1/4"	Brace	No Messages	0.363913	PMM
1172	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.025757	PMM
1173	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.025787	PMM
1174	PTE4"e=6.00mm+2 L2"X2"X1/4"	Column	No Messages	0.948843	PMM
1175	PTE4"e=6.00mm+2 L2"X2"X1/4"	Column	No Messages	0.44086	PMM
1176	L11/2"X11/2"X1/4"	Brace	No Messages	0.078944	PMM
1177	L11/2"X11/2"X1/4"	Brace	No Messages	0.068219	PMM
1178	L11/2"X11/2"X1/4"	Brace	No Messages	0.084797	PMM
1179	L11/2"X11/2"X1/4"	Brace	No Messages	0.119781	PMM
1180	L11/2"X11/2"X1/4"	Column	No Messages	0.093487	PMM
1181	L11/2"X11/2"X1/4"	Column	No Messages	0.210479	PMM
1182	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.034654	PMM
1183	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.034606	PMM
1184	PTE4"e=6.00mm+2 L2"X2"X1/4"	Column	No Messages	0.228745	PMM
1185	L11/2"X11/2"X1/4"	Brace	No Messages	0.108229	PMM
1186	L11/2"X11/2"X1/4"	Brace	No Messages	0.102224	PMM
1187	L11/2"X11/2"X1/4"	Brace	No Messages	0.075764	PMM
1188	L11/2"X11/2"X1/4"	Brace	No Messages	0.104604	PMM
1189	L11/2"X11/2"X1/4"	Column	No Messages	0.034771	PMM
1190	L11/2"X11/2"X1/4"	Column	No Messages	0.09511	PMM
1191	PTE3"e=2.50mm+ L2"X2"X1/4"	Beam	No Messages	0.106012	PMM
1192	PTE3"e=2.50mm+ L2"X2"X1/4"	Beam	No Messages	0.110105	PMM

Table: Steel Design 1 - Summary Data - AISC 360-16, Part 1 of 2

Frame	DesignSect	DesignType	Status	Ratio	RatioType
1193	PTE4"e=6.00mm+2 L2"X2"X1/4"	Column	No Messages	0.071048	PMM
1194	L11/2"X11/2"X1/4"	Brace	No Messages	0.127442	PMM
1195	L11/2"X11/2"X1/4"	Brace	No Messages	0.191293	PMM
1196	L11/2"X11/2"X1/4"	Brace	No Messages	0.161899	PMM
1197	L11/2"X11/2"X1/4"	Brace	No Messages	0.078333	PMM
1198	L11/2"X11/2"X1/4"	Brace	No Messages	0.043091	PMM
1199	L11/2"X11/2"X1/4"	Brace	No Messages	0.128903	PMM
1200	L11/2"X11/2"X1/4"	Brace	No Messages	0.156168	PMM
1201	L11/2"X11/2"X1/4"	Brace	No Messages	0.067607	PMM
1202	L11/2"X11/2"X1/4"	Brace	No Messages	0.150289	PMM
1203	L11/2"X11/2"X1/4"	Brace	No Messages	0.246812	PMM
1204	L11/2"X11/2"X1/4"	Brace	No Messages	0.334378	PMM
1205	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.038569	PMM
1206	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.022261	PMM
1208	L11/2"X11/2"X1/4"	Column	No Messages	0.244225	PMM
1209	L11/2"X11/2"X1/4"	Column	No Messages	0.371107	PMM
1210	L11/2"X11/2"X1/4"	Column	No Messages	0.458894	PMM
1211	L11/2"X11/2"X1/4"	Column	No Messages	0.550022	PMM
1212	L11/2"X11/2"X1/4"	Column	No Messages	0.68343	PMM
1213	L11/2"X11/2"X1/4"	Column	No Messages	0.508962	PMM
1214	L11/2"X11/2"X1/4"	Brace	No Messages	0.33186	PMM
1215	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.022558	PMM
1216	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.016197	PMM
1217	PTE4"e=6.00mm+ L2"X2"X1/4"	Column	No Messages	0.89149	PMM
1218	PTE4"e=6.00mm+ L2"X2"X1/4"	Column	No Messages	0.46108	PMM
1219	L11/2"X11/2"X1/4"	Brace	No Messages	0.059449	PMM
1220	L11/2"X11/2"X1/4"	Brace	No Messages	0.057034	PMM
1221	L11/2"X11/2"X1/4"	Brace	No Messages	0.094022	PMM
1222	L11/2"X11/2"X1/4"	Brace	No Messages	0.137723	PMM
1223	L11/2"X11/2"X1/4"	Column	No Messages	0.099235	PMM
1224	L11/2"X11/2"X1/4"	Column	No Messages	0.195266	PMM
1225	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.034754	PMM
1226	PTE3"e=2.50mm+2 L2"X2"X1/4"	Beam	No Messages	0.045105	PMM
1227	PTE4"e=6.00mm+ L2"X2"X1/4"	Column	No Messages	0.253614	PMM
1228	L11/2"X11/2"X1/4"	Brace	No Messages	0.080403	PMM

Table: Steel Design 1 - Summary Data - AISC 360-16, Part 1 of 2

Frame	DesignSect	DesignType	Status	Ratio	RatioType
1229	L11/2"X11/2"X1/4"	Brace	No Messages	0.077977	PMM
1230	L11/2"X11/2"X1/4"	Brace	No Messages	0.079885	PMM
1231	L11/2"X11/2"X1/4"	Brace	No Messages	0.120975	PMM
1232	L11/2"X11/2"X1/4"	Column	No Messages	0.046571	PMM
1233	L11/2"X11/2"X1/4"	Column	No Messages	0.087185	PMM
1234	PTE3"e=2.50mm+ L2"X2"X1/4"	Beam	No Messages	0.084352	PMM
1235	PTE3"e=2.50mm+ L2"X2"X1/4"	Beam	No Messages	0.118287	PMM
1236	PTE4"e=6.00mm+ L2"X2"X1/4"	Column	No Messages	0.091624	PMM

Table: Steel Design 1 - Summary Data - AISC 360-16, Part 2 of 2

Table: Steel Design 1 - Summary Data - AISC 360-16, Part 2 of 2

Frame	Combo	Location	ErrMsg	WarnMsg
		m		
B8A	COMB12	1.44503	No Messages	No Messages
B8B	COMB12	0	No Messages	No Messages
B8C	COMB12	0	No Messages	No Messages
B8D	COMB12	0	No Messages	No Messages
B8E	COMB12	0	No Messages	No Messages
B93	COMB12	1.44503	No Messages	No Messages
B94	COMB12	0	No Messages	No Messages
B95	COMB12	0	No Messages	No Messages
B96	COMB12	1.44503	No Messages	No Messages
B97	COMB12	1.44503	No Messages	No Messages
B98	COMB12	0	No Messages	No Messages
BF9	COMB12	2.5	No Messages	No Messages
B107	COMB12	0	No Messages	No Messages
B131	COMB12	0	No Messages	No Messages
B141	COMB12	0	No Messages	No Messages
B142	COMB12	0	No Messages	No Messages
B143	COMB12	0	No Messages	No Messages
B144	COMB12	0	No Messages	No Messages
B145	COMB12	0.725	No Messages	No Messages
B146	COMB12	0.725	No Messages	No Messages
3	COMB12	0	No Messages	No Messages
2	COMB12	1.25	No Messages	No Messages
4	COMB12	1.25	No Messages	No Messages
7	COMB12	0	No Messages	No Messages
8	COMB12	0	No Messages	No Messages
10	COMB12	0	No Messages	No Messages

Table: Steel Design 1 - Summary Data - AISC 360-16, Part 2 of 2

Frame	Combo	Location	ErrMsg	WarnMsg
		m		
11	COMB12	0	No Messages	No Messages
13	COMB12	0	No Messages	No Messages
14	COMB12	0	No Messages	No Messages
15	COMB12	0	No Messages	No Messages
16	COMB12	1.44503	No Messages	No Messages
17	COMB12	0.725	No Messages	No Messages
18	COMB12	0	No Messages	No Messages
19	COMB12	0	No Messages	No Messages
20	COMB12	1.25	No Messages	No Messages
21	COMB12	0	No Messages	No Messages
22	COMB12	0	No Messages	No Messages
23	COMB12	0	No Messages	No Messages
24	COMB12	0	No Messages	No Messages
25	COMB12	0	No Messages	No Messages
26	COMB12	1.44503	No Messages	No Messages
27	COMB12	0.725	No Messages	No Messages
28	COMB12	0	No Messages	No Messages
29	COMB12	0	No Messages	No Messages
30	COMB12	1.25	No Messages	No Messages
31	COMB12	0	No Messages	No Messages
32	COMB12	0	No Messages	No Messages
635	COMB12	1.44503	No Messages	No Messages
636	COMB12	0	No Messages	No Messages
637	COMB12	0	No Messages	No Messages
638	COMB12	0	No Messages	No Messages
639	COMB12	0	No Messages	No Messages
640	COMB12	0	No Messages	No Messages
641	COMB12	0	No Messages	No Messages
642	COMB12	0	No Messages	No Messages
643	COMB12	0	No Messages	No Messages
644	COMB12	1.44503	No Messages	No Messages
645	COMB12	0	No Messages	No Messages
646	COMB12	2.5	No Messages	No Messages
647	COMB12	0	No Messages	No Messages
648	COMB12	0	No Messages	No Messages
649	COMB12	0	No Messages	No Messages
650	COMB12	0	No Messages	No Messages
651	COMB12	0	No Messages	No Messages
652	COMB12	0	No Messages	No Messages
653	COMB12	0.725	No Messages	No Messages
654	COMB12	0.725	No Messages	No Messages
655	COMB12	0	No Messages	No Messages
656	COMB12	1.25	No Messages	No Messages

Table: Steel Design 1 - Summary Data - AISC 360-16, Part 2 of 2

Frame	Combo	Location	ErrMsg	WarnMsg
		m		
657	COMB12	0	No Messages	No Messages
658	COMB12	0	No Messages	No Messages
659	COMB12	0	No Messages	No Messages
660	COMB12	0	No Messages	No Messages
661	COMB12	0	No Messages	No Messages
662	COMB12	0	No Messages	No Messages
663	COMB12	1.44503	No Messages	No Messages
664	COMB12	0	No Messages	No Messages
665	COMB12	0	No Messages	No Messages
666	COMB12	1.25	No Messages	No Messages
667	COMB12	0	No Messages	No Messages
668	COMB12	0	No Messages	No Messages
669	COMB12	0	No Messages	No Messages
670	COMB12	0	No Messages	No Messages
671	COMB12	0	No Messages	No Messages
672	COMB12	1.44503	No Messages	No Messages
673	COMB12	0.725	No Messages	No Messages
674	COMB12	0	No Messages	No Messages
675	COMB12	0	No Messages	No Messages
676	COMB12	1.25	No Messages	No Messages
677	COMB12	0	No Messages	No Messages
678	COMB12	1.44503	No Messages	No Messages
679	COMB12	0	No Messages	No Messages
680	COMB12	0	No Messages	No Messages
681	COMB12	0	No Messages	No Messages
682	COMB12	0	No Messages	No Messages
683	COMB12	0	No Messages	No Messages
684	COMB12	0	No Messages	No Messages
685	COMB12	0	No Messages	No Messages
686	COMB12	0	No Messages	No Messages
687	COMB12	1.44503	No Messages	No Messages
688	COMB12	0	No Messages	No Messages
689	COMB12	2.5	No Messages	No Messages
690	COMB12	0	No Messages	No Messages
691	COMB12	0	No Messages	No Messages
692	COMB12	0	No Messages	No Messages
693	COMB12	0	No Messages	No Messages
694	COMB12	0	No Messages	No Messages
695	COMB12	0	No Messages	No Messages
696	COMB12	0.725	No Messages	No Messages
697	COMB12	0.725	No Messages	No Messages
698	COMB12	0	No Messages	No Messages
699	COMB12	1.25	No Messages	No Messages

Table: Steel Design 1 - Summary Data - AISC 360-16, Part 2 of 2

Frame	Combo	Location	ErrMsg	WarnMsg
		m		
700	COMB12	0	No Messages	No Messages
701	COMB12	0	No Messages	No Messages
702	COMB12	0	No Messages	No Messages
703	COMB12	0	No Messages	No Messages
704	COMB12	0	No Messages	No Messages
705	COMB12	0	No Messages	No Messages
706	COMB12	1.44503	No Messages	No Messages
707	COMB12	0	No Messages	No Messages
708	COMB12	0	No Messages	No Messages
709	COMB12	1.25	No Messages	No Messages
710	COMB12	0	No Messages	No Messages
711	COMB12	0	No Messages	No Messages
712	COMB12	0	No Messages	No Messages
713	COMB12	0	No Messages	No Messages
714	COMB12	0	No Messages	No Messages
715	COMB12	1.44503	No Messages	No Messages
716	COMB12	0.725	No Messages	No Messages
717	COMB12	0	No Messages	No Messages
718	COMB12	0	No Messages	No Messages
719	COMB12	1.25	No Messages	No Messages
720	COMB12	0	No Messages	No Messages
721	COMB12	1.44503	No Messages	No Messages
722	COMB12	0	No Messages	No Messages
723	COMB12	0	No Messages	No Messages
724	COMB12	0	No Messages	No Messages
725	COMB12	0	No Messages	No Messages
726	COMB12	0	No Messages	No Messages
727	COMB12	0	No Messages	No Messages
728	COMB12	0	No Messages	No Messages
729	COMB12	0	No Messages	No Messages
730	COMB12	1.44503	No Messages	No Messages
731	COMB12	0	No Messages	No Messages
732	COMB12	2.5	No Messages	No Messages
733	COMB12	0	No Messages	No Messages
734	COMB12	0	No Messages	No Messages
735	COMB12	0	No Messages	No Messages
736	COMB12	0	No Messages	No Messages
737	COMB12	0	No Messages	No Messages
738	COMB12	0	No Messages	No Messages
739	COMB12	0.725	No Messages	No Messages
740	COMB12	0.725	No Messages	No Messages
741	COMB12	0	No Messages	No Messages
742	COMB12	1.25	No Messages	No Messages

Table: Steel Design 1 - Summary Data - AISC 360-16, Part 2 of 2

Frame	Combo	Location	ErrMsg	WarnMsg
		m		
743	COMB12	0	No Messages	No Messages
744	COMB12	0	No Messages	No Messages
745	COMB12	0	No Messages	No Messages
746	COMB12	0	No Messages	No Messages
747	COMB12	0	No Messages	No Messages
748	COMB12	0	No Messages	No Messages
749	COMB12	0	No Messages	No Messages
750	COMB12	0	No Messages	No Messages
751	COMB12	0	No Messages	No Messages
752	COMB12	1.25	No Messages	No Messages
753	COMB12	0	No Messages	No Messages
754	COMB12	0	No Messages	No Messages
755	COMB12	0	No Messages	No Messages
756	COMB12	0	No Messages	No Messages
757	COMB12	0	No Messages	No Messages
758	COMB12	1.44503	No Messages	No Messages
759	COMB12	0.725	No Messages	No Messages
760	COMB12	0	No Messages	No Messages
761	COMB12	0	No Messages	No Messages
762	COMB12	1.25	No Messages	No Messages
763	COMB12	0	No Messages	No Messages
764	COMB12	1.44503	No Messages	No Messages
765	COMB12	0	No Messages	No Messages
766	COMB12	0	No Messages	No Messages
767	COMB12	0	No Messages	No Messages
768	COMB12	0	No Messages	No Messages
769	COMB12	0	No Messages	No Messages
770	COMB12	0	No Messages	No Messages
771	COMB12	0	No Messages	No Messages
772	COMB12	0	No Messages	No Messages
773	COMB12	1.44503	No Messages	No Messages
774	COMB12	0	No Messages	No Messages
775	COMB12	2.5	No Messages	No Messages
776	COMB12	0	No Messages	No Messages
777	COMB12	0	No Messages	No Messages
778	COMB12	0	No Messages	No Messages
779	COMB12	0	No Messages	No Messages
780	COMB12	0	No Messages	No Messages
781	COMB12	0	No Messages	No Messages
782	COMB12	0.725	No Messages	No Messages
783	COMB12	0.725	No Messages	No Messages
784	COMB12	0	No Messages	No Messages
785	COMB12	1.25	No Messages	No Messages

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Table: Steel Design 1 - Summary Data - AISC 360-16, Part 2 of 2

Frame	Combo	Location	ErrMsg	WarnMsg
		m		
786	COMB12	0	No Messages	No Messages
787	COMB12	0	No Messages	No Messages
788	COMB12	0	No Messages	No Messages
789	COMB12	0	No Messages	No Messages
790	COMB12	0	No Messages	No Messages
791	COMB12	0	No Messages	No Messages
792	COMB12	0	No Messages	No Messages
793	COMB12	0	No Messages	No Messages
794	COMB12	0	No Messages	No Messages
795	COMB12	1.25	No Messages	No Messages
796	COMB12	1.25	No Messages	No Messages
797	COMB12	0	No Messages	No Messages
798	COMB12	0	No Messages	No Messages
799	COMB12	0	No Messages	No Messages
800	COMB12	0	No Messages	No Messages
801	COMB12	1.44503	No Messages	No Messages
802	COMB12	0.725	No Messages	No Messages
803	COMB12	0	No Messages	No Messages
804	COMB12	0	No Messages	No Messages
805	COMB12	1.25	No Messages	No Messages
806	COMB12	0	No Messages	No Messages
807	COMB12	1.44503	No Messages	No Messages
808	COMB12	0	No Messages	No Messages
809	COMB12	0	No Messages	No Messages
810	COMB12	0	No Messages	No Messages
811	COMB12	0	No Messages	No Messages
812	COMB12	0	No Messages	No Messages
813	COMB12	0	No Messages	No Messages
814	COMB12	0	No Messages	No Messages
815	COMB12	0	No Messages	No Messages
816	COMB12	1.44503	No Messages	No Messages
817	COMB12	0	No Messages	No Messages
818	COMB12	2.5	No Messages	No Messages
819	COMB12	0	No Messages	No Messages
820	COMB12	0	No Messages	No Messages
821	COMB12	0	No Messages	No Messages
822	COMB12	0	No Messages	No Messages
823	COMB12	0	No Messages	No Messages
824	COMB12	0	No Messages	No Messages
825	COMB12	0.725	No Messages	No Messages
826	COMB12	0.725	No Messages	No Messages
827	COMB12	0	No Messages	No Messages
828	COMB12	1.25	No Messages	No Messages

Table: Steel Design 1 - Summary Data - AISC 360-16, Part 2 of 2

Frame	Combo	Location	ErrMsg	WarnMsg
		m		
829	COMB12	0	No Messages	No Messages
830	COMB12	0	No Messages	No Messages
831	COMB12	0	No Messages	No Messages
832	COMB12	0	No Messages	No Messages
833	COMB12	0	No Messages	No Messages
834	COMB12	0	No Messages	No Messages
835	COMB12	0	No Messages	No Messages
836	COMB12	0	No Messages	No Messages
837	COMB12	0	No Messages	No Messages
838	COMB12	1.25	No Messages	No Messages
839	COMB12	1.25	No Messages	No Messages
840	COMB12	0	No Messages	No Messages
841	COMB12	0	No Messages	No Messages
842	COMB12	1.44503	No Messages	No Messages
843	COMB12	0	No Messages	No Messages
844	COMB12	1.44503	No Messages	No Messages
845	COMB12	0.725	No Messages	No Messages
846	COMB12	0	No Messages	No Messages
847	COMB12	1.25	No Messages	No Messages
848	COMB12	1.25	No Messages	No Messages
849	COMB12	0	No Messages	No Messages
850	COMB12	1.44503	No Messages	No Messages
851	COMB12	0	No Messages	No Messages
852	COMB12	0	No Messages	No Messages
853	COMB12	0	No Messages	No Messages
854	COMB12	0	No Messages	No Messages
855	COMB12	0	No Messages	No Messages
856	COMB12	0	No Messages	No Messages
857	COMB12	0	No Messages	No Messages
858	COMB12	0	No Messages	No Messages
859	COMB12	1.44503	No Messages	No Messages
860	COMB12	0	No Messages	No Messages
861	COMB12	2.5	No Messages	No Messages
862	COMB12	0	No Messages	No Messages
863	COMB12	0	No Messages	No Messages
864	COMB12	0	No Messages	No Messages
865	COMB12	0	No Messages	No Messages
866	COMB12	0	No Messages	No Messages
867	COMB12	0	No Messages	No Messages
868	COMB12	0.725	No Messages	No Messages
869	COMB12	0.725	No Messages	No Messages
870	COMB12	0	No Messages	No Messages
871	COMB12	1.25	No Messages	No Messages

Table: Steel Design 1 - Summary Data - AISC 360-16, Part 2 of 2

Frame	Combo	Location	ErrMsg	WarnMsg
		m		
872	COMB12	0	No Messages	No Messages
873	COMB12	0	No Messages	No Messages
874	COMB12	0	No Messages	No Messages
875	COMB12	0	No Messages	No Messages
876	COMB12	1.44503	No Messages	No Messages
877	COMB12	0	No Messages	No Messages
878	COMB12	0	No Messages	No Messages
879	COMB12	0	No Messages	No Messages
880	COMB12	0	No Messages	No Messages
881	COMB12	1.25	No Messages	No Messages
882	COMB12	0	No Messages	No Messages
883	COMB12	0	No Messages	No Messages
884	COMB12	0	No Messages	No Messages
885	COMB12	1.44503	No Messages	No Messages
886	COMB12	0	No Messages	No Messages
887	COMB12	1.44503	No Messages	No Messages
888	COMB12	0.725	No Messages	No Messages
889	COMB12	0	No Messages	No Messages
890	COMB12	1.25	No Messages	No Messages
891	COMB12	1.25	No Messages	No Messages
892	COMB12	0	No Messages	No Messages
893	COMB12	1.44503	No Messages	No Messages
894	COMB12	0	No Messages	No Messages
895	COMB12	0	No Messages	No Messages
896	COMB12	0	No Messages	No Messages
897	COMB12	0	No Messages	No Messages
898	COMB12	0	No Messages	No Messages
899	COMB12	0	No Messages	No Messages
900	COMB12	0	No Messages	No Messages
901	COMB12	0	No Messages	No Messages
902	COMB12	1.44503	No Messages	No Messages
903	COMB12	0	No Messages	No Messages
904	COMB12	1.25	No Messages	No Messages
905	COMB12	1.25	No Messages	No Messages
906	COMB12	0	No Messages	No Messages
907	COMB12	0	No Messages	No Messages
908	COMB12	0	No Messages	No Messages
909	COMB12	0	No Messages	No Messages
910	COMB12	0	No Messages	No Messages
911	COMB12	0.725	No Messages	No Messages
912	COMB12	0.725	No Messages	No Messages
913	COMB12	0	No Messages	No Messages
914	COMB12	1.25	No Messages	No Messages

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Table: Steel Design 1 - Summary Data - AISC 360-16, Part 2 of 2

Frame	Combo	Location	ErrMsg	WarnMsg
		m		
915	COMB12	0	No Messages	No Messages
916	COMB12	0	No Messages	No Messages
917	COMB12	0	No Messages	No Messages
918	COMB12	0	No Messages	No Messages
919	COMB12	1.44503	No Messages	No Messages
920	COMB12	1.44503	No Messages	No Messages
921	COMB12	0	No Messages	No Messages
922	COMB12	0	No Messages	No Messages
923	COMB12	0	No Messages	No Messages
924	COMB12	1.25	No Messages	No Messages
925	COMB12	0	No Messages	No Messages
926	COMB12	0	No Messages	No Messages
927	COMB12	1.44503	No Messages	No Messages
928	COMB12	0	No Messages	No Messages
929	COMB12	0	No Messages	No Messages
930	COMB12	1.44503	No Messages	No Messages
931	COMB12	0.725	No Messages	No Messages
932	COMB12	0	No Messages	No Messages
933	COMB12	1.25	No Messages	No Messages
934	COMB12	0	No Messages	No Messages
935	COMB12	0	No Messages	No Messages
936	COMB12	1.44503	No Messages	No Messages
937	COMB12	0	No Messages	No Messages
938	COMB12	0	No Messages	No Messages
939	COMB12	0	No Messages	No Messages
940	COMB12	0	No Messages	No Messages
941	COMB12	0	No Messages	No Messages
942	COMB12	0	No Messages	No Messages
943	COMB12	0	No Messages	No Messages
944	COMB12	0	No Messages	No Messages
945	COMB12	1.44503	No Messages	No Messages
946	COMB12	0	No Messages	No Messages
947	COMB12	0	No Messages	No Messages
948	COMB12	2.5	No Messages	No Messages
949	COMB12	0	No Messages	No Messages
950	COMB12	0	No Messages	No Messages
951	COMB12	0	No Messages	No Messages
952	COMB12	0	No Messages	No Messages
953	COMB12	0	No Messages	No Messages
954	COMB12	0.725	No Messages	No Messages
955	COMB12	0.725	No Messages	No Messages
956	COMB12	0	No Messages	No Messages
957	COMB12	1.25	No Messages	No Messages

Table: Steel Design 1 - Summary Data - AISC 360-16, Part 2 of 2

Frame	Combo	Location	ErrMsg	WarnMsg
		m		
958	COMB12	0	No Messages	No Messages
959	COMB12	0	No Messages	No Messages
960	COMB12	0	No Messages	No Messages
961	COMB12	0	No Messages	No Messages
962	COMB12	0	No Messages	No Messages
963	COMB12	1.44503	No Messages	No Messages
964	COMB12	0	No Messages	No Messages
965	COMB12	0	No Messages	No Messages
966	COMB12	0	No Messages	No Messages
967	COMB12	1.25	No Messages	No Messages
968	COMB12	0	No Messages	No Messages
969	COMB12	0	No Messages	No Messages
970	COMB12	1.44503	No Messages	No Messages
971	COMB12	0	No Messages	No Messages
972	COMB12	1.44503	No Messages	No Messages
973	COMB12	0	No Messages	No Messages
974	COMB12	0.725	No Messages	No Messages
975	COMB12	0	No Messages	No Messages
976	COMB12	0	No Messages	No Messages
977	COMB12	0	No Messages	No Messages
978	COMB12	0	No Messages	No Messages
979	COMB12	1.44503	No Messages	No Messages
980	COMB12	0	No Messages	No Messages
981	COMB12	0	No Messages	No Messages
982	COMB12	0	No Messages	No Messages
983	COMB12	0	No Messages	No Messages
984	COMB12	0	No Messages	No Messages
985	COMB12	0	No Messages	No Messages
986	COMB12	0	No Messages	No Messages
987	COMB12	0	No Messages	No Messages
988	COMB12	1.44503	No Messages	No Messages
989	COMB12	0	No Messages	No Messages
990	COMB12	0	No Messages	No Messages
991	COMB12	2.5	No Messages	No Messages
992	COMB12	0	No Messages	No Messages
993	COMB12	0	No Messages	No Messages
994	COMB12	0	No Messages	No Messages
995	COMB12	0	No Messages	No Messages
996	COMB12	0	No Messages	No Messages
997	COMB12	0.725	No Messages	No Messages
998	COMB12	0.725	No Messages	No Messages
999	COMB12	0	No Messages	No Messages
1000	COMB12	1.25	No Messages	No Messages

Table: Steel Design 1 - Summary Data - AISC 360-16, Part 2 of 2

Frame	Combo	Location	ErrMsg	WarnMsg
		m		
1001	COMB12	0	No Messages	No Messages
1002	COMB12	0	No Messages	No Messages
1003	COMB12	0	No Messages	No Messages
1004	COMB12	0	No Messages	No Messages
1005	COMB12	0	No Messages	No Messages
1006	COMB12	0	No Messages	No Messages
1007	COMB12	0	No Messages	No Messages
1008	COMB12	0	No Messages	No Messages
1009	COMB12	0	No Messages	No Messages
1010	COMB12	0	No Messages	No Messages
1011	COMB12	0	No Messages	No Messages
1012	COMB12	0	No Messages	No Messages
1013	COMB12	1.44503	No Messages	No Messages
1014	COMB12	0	No Messages	No Messages
1015	COMB12	1.44503	No Messages	No Messages
1016	COMB12	0	No Messages	No Messages
1017	COMB12	0.725	No Messages	No Messages
1018	COMB12	0	No Messages	No Messages
1019	COMB12	0	No Messages	No Messages
1020	COMB12	0	No Messages	No Messages
1021	COMB12	0	No Messages	No Messages
1022	COMB12	1.44503	No Messages	No Messages
1023	COMB12	0	No Messages	No Messages
1024	COMB12	0	No Messages	No Messages
1025	COMB12	0	No Messages	No Messages
1026	COMB12	0	No Messages	No Messages
1027	COMB12	0	No Messages	No Messages
1028	COMB12	0	No Messages	No Messages
1029	COMB12	0	No Messages	No Messages
1030	COMB12	0	No Messages	No Messages
1031	COMB12	1.44503	No Messages	No Messages
1032	COMB12	0	No Messages	No Messages
1033	COMB12	0	No Messages	No Messages
1034	COMB12	2.5	No Messages	No Messages
1035	COMB12	0	No Messages	No Messages
1036	COMB12	0	No Messages	No Messages
1037	COMB12	0	No Messages	No Messages
1038	COMB12	0	No Messages	No Messages
1039	COMB12	0	No Messages	No Messages
1040	COMB12	0.725	No Messages	No Messages
1041	COMB12	0.725	No Messages	No Messages
1042	COMB12	0	No Messages	No Messages
1043	COMB12	1.25	No Messages	No Messages

Table: Steel Design 1 - Summary Data - AISC 360-16, Part 2 of 2

Frame	Combo	Location	ErrMsg	WarnMsg
		m		
1044	COMB12	0	No Messages	No Messages
1045	COMB12	0	No Messages	No Messages
1046	COMB12	0	No Messages	No Messages
1047	COMB12	0	No Messages	No Messages
1048	COMB12	0	No Messages	No Messages
1049	COMB12	0	No Messages	No Messages
1050	COMB12	0	No Messages	No Messages
1051	COMB12	0	No Messages	No Messages
1052	COMB12	0	No Messages	No Messages
1053	COMB12	0	No Messages	No Messages
1054	COMB12	0	No Messages	No Messages
1055	COMB12	0	No Messages	No Messages
1056	COMB12	1.44503	No Messages	No Messages
1057	COMB12	0	No Messages	No Messages
1058	COMB12	0	No Messages	No Messages
1059	COMB12	0	No Messages	No Messages
1060	COMB12	0.725	No Messages	No Messages
1061	COMB12	0	No Messages	No Messages
1062	COMB12	0	No Messages	No Messages
1063	COMB12	1.25	No Messages	No Messages
1064	COMB12	0	No Messages	No Messages
1065	COMB12	1.44503	No Messages	No Messages
1066	COMB12	0	No Messages	No Messages
1067	COMB12	0	No Messages	No Messages
1068	COMB12	0	No Messages	No Messages
1069	COMB12	0	No Messages	No Messages
1070	COMB12	0	No Messages	No Messages
1071	COMB12	0	No Messages	No Messages
1072	COMB12	0	No Messages	No Messages
1073	COMB12	0	No Messages	No Messages
1074	COMB12	1.44503	No Messages	No Messages
1075	COMB12	0	No Messages	No Messages
1076	COMB12	0	No Messages	No Messages
1077	COMB12	2.5	No Messages	No Messages
1078	COMB12	0	No Messages	No Messages
1079	COMB12	0	No Messages	No Messages
1080	COMB12	0	No Messages	No Messages
1081	COMB12	0	No Messages	No Messages
1082	COMB12	0	No Messages	No Messages
1083	COMB12	0.725	No Messages	No Messages
1084	COMB12	0.725	No Messages	No Messages
1085	COMB12	0	No Messages	No Messages
1086	COMB12	1.25	No Messages	No Messages

Table: Steel Design 1 - Summary Data - AISC 360-16, Part 2 of 2

Frame	Combo	Location	ErrMsg	WarnMsg
		m		
1087	COMB12	0	No Messages	No Messages
1088	COMB12	0	No Messages	No Messages
1089	COMB12	0	No Messages	No Messages
1090	COMB12	0	No Messages	No Messages
1091	COMB12	0	No Messages	No Messages
1092	COMB12	0	No Messages	No Messages
1093	COMB12	0	No Messages	No Messages
1094	COMB12	0	No Messages	No Messages
1095	COMB12	0	No Messages	No Messages
1096	COMB12	1.25	No Messages	No Messages
1097	COMB12	0	No Messages	No Messages
1098	COMB12	0	No Messages	No Messages
1099	COMB12	1.44503	No Messages	No Messages
1100	COMB12	0	No Messages	No Messages
1101	COMB12	0	No Messages	No Messages
1102	COMB12	0	No Messages	No Messages
1103	COMB12	0.725	No Messages	No Messages
1104	COMB12	0	No Messages	No Messages
1105	COMB12	0	No Messages	No Messages
1106	COMB12	1.25	No Messages	No Messages
1107	COMB12	0	No Messages	No Messages
1108	COMB12	1.44503	No Messages	No Messages
1109	COMB12	0	No Messages	No Messages
1110	COMB12	0	No Messages	No Messages
1111	COMB12	0	No Messages	No Messages
1112	COMB12	0	No Messages	No Messages
1113	COMB12	0	No Messages	No Messages
1114	COMB12	0	No Messages	No Messages
1115	COMB12	0	No Messages	No Messages
1116	COMB12	0	No Messages	No Messages
1117	COMB12	1.44503	No Messages	No Messages
1118	COMB12	0	No Messages	No Messages
1119	COMB12	0	No Messages	No Messages
1120	COMB12	2.5	No Messages	No Messages
1121	COMB12	0	No Messages	No Messages
1122	COMB12	0	No Messages	No Messages
1123	COMB12	0	No Messages	No Messages
1124	COMB12	0	No Messages	No Messages
1125	COMB12	0	No Messages	No Messages
1126	COMB12	0.725	No Messages	No Messages
1127	COMB12	0.725	No Messages	No Messages
1128	COMB12	0	No Messages	No Messages
1129	COMB12	1.25	No Messages	No Messages

Table: Steel Design 1 - Summary Data - AISC 360-16, Part 2 of 2

Frame	Combo	Location	ErrMsg	WarnMsg
		m		
1130	COMB12	0	No Messages	No Messages
1131	COMB12	0	No Messages	No Messages
1132	COMB12	0	No Messages	No Messages
1133	COMB12	1.44503	No Messages	No Messages
1134	COMB12	0	No Messages	No Messages
1135	COMB12	0	No Messages	No Messages
1136	COMB12	0	No Messages	No Messages
1137	COMB12	0	No Messages	No Messages
1138	COMB12	0	No Messages	No Messages
1139	COMB12	1.25	No Messages	No Messages
1140	COMB12	0	No Messages	No Messages
1141	COMB12	0	No Messages	No Messages
1142	COMB12	1.44503	No Messages	No Messages
1143	COMB12	0	No Messages	No Messages
1144	COMB12	0	No Messages	No Messages
1145	COMB12	0	No Messages	No Messages
1146	COMB12	0.725	No Messages	No Messages
1147	COMB12	0	No Messages	No Messages
1148	COMB12	0	No Messages	No Messages
1149	COMB12	1.25	No Messages	No Messages
1150	COMB12	0	No Messages	No Messages
1151	COMB12	1.44503	No Messages	No Messages
1152	COMB12	0	No Messages	No Messages
1153	COMB12	0	No Messages	No Messages
1154	COMB12	0	No Messages	No Messages
1155	COMB12	0	No Messages	No Messages
1156	COMB12	0	No Messages	No Messages
1157	COMB12	0	No Messages	No Messages
1158	COMB12	0	No Messages	No Messages
1159	COMB12	0	No Messages	No Messages
1160	COMB12	1.44503	No Messages	No Messages
1161	COMB12	0	No Messages	No Messages
1162	COMB12	0	No Messages	No Messages
1163	COMB12	2.5	No Messages	No Messages
1164	COMB12	0	No Messages	No Messages
1165	COMB12	0	No Messages	No Messages
1166	COMB12	0	No Messages	No Messages
1167	COMB12	0	No Messages	No Messages
1168	COMB12	0	No Messages	No Messages
1169	COMB12	0.725	No Messages	No Messages
1170	COMB12	0.725	No Messages	No Messages
1171	COMB12	0	No Messages	No Messages
1172	COMB12	1.25	No Messages	No Messages

Table: Steel Design 1 - Summary Data - AISC 360-16, Part 2 of 2

Frame	Combo	Location	ErrMsg	WarnMsg
		m		
1173	COMB12	0	No Messages	No Messages
1174	COMB12	0	No Messages	No Messages
1175	COMB12	0	No Messages	No Messages
1176	COMB12	1.44503	No Messages	No Messages
1177	COMB12	0	No Messages	No Messages
1178	COMB12	0	No Messages	No Messages
1179	COMB12	0	No Messages	No Messages
1180	COMB12	0	No Messages	No Messages
1181	COMB12	0	No Messages	No Messages
1182	COMB12	1.25	No Messages	No Messages
1183	COMB12	0	No Messages	No Messages
1184	COMB12	0	No Messages	No Messages
1185	COMB12	1.44503	No Messages	No Messages
1186	COMB12	0	No Messages	No Messages
1187	COMB12	0	No Messages	No Messages
1188	COMB12	0	No Messages	No Messages
1189	COMB12	0.725	No Messages	No Messages
1190	COMB12	0	No Messages	No Messages
1191	COMB12	0	No Messages	No Messages
1192	COMB12	1.25	No Messages	No Messages
1193	COMB12	0	No Messages	No Messages
1194	COMB12	1.44503	No Messages	No Messages
1195	COMB12	1.44503	No Messages	No Messages
1196	COMB12	0	No Messages	No Messages
1197	COMB12	0	No Messages	No Messages
1198	COMB12	1.44503	No Messages	No Messages
1199	COMB12	0	No Messages	No Messages
1200	COMB12	0	No Messages	No Messages
1201	COMB12	0	No Messages	No Messages
1202	COMB12	0	No Messages	No Messages
1203	COMB12	1.44503	No Messages	No Messages
1204	COMB12	0	No Messages	No Messages
1205	COMB12	0	No Messages	No Messages
1206	COMB12	2.5	No Messages	No Messages
1207	COMB12	0	No Messages	No Messages
1208	COMB12	0	No Messages	No Messages
1209	COMB12	0	No Messages	No Messages
1210	COMB12	0	No Messages	No Messages
1211	COMB12	0	No Messages	No Messages
1212	COMB12	0.725	No Messages	No Messages
1213	COMB12	0.725	No Messages	No Messages
1214	COMB12	0	No Messages	No Messages
1215	COMB12	0	No Messages	No Messages

Table: Steel Design 1 - Summary Data - AISC 360-16, Part 2 of 2

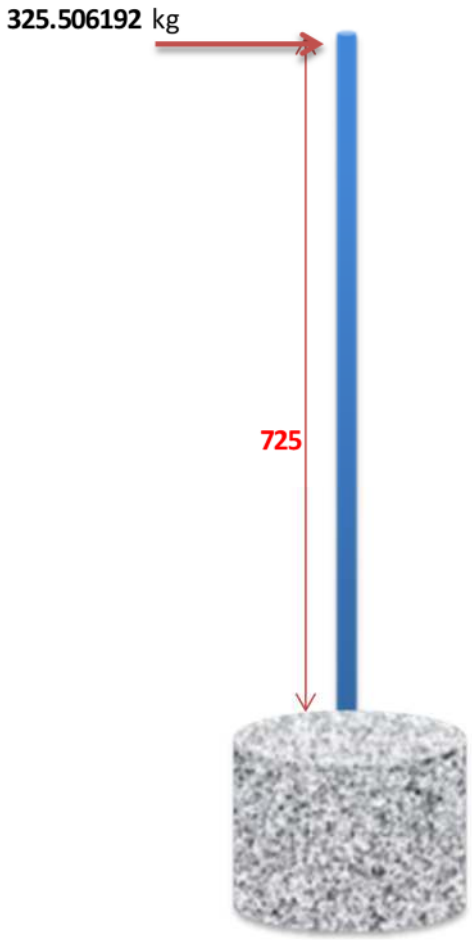
Frame	Combo	Location	ErrMsg	WarnMsg
		m		
1216	COMB12	0	No Messages	No Messages
1217	COMB12	0	No Messages	No Messages
1218	COMB12	0	No Messages	No Messages
1219	COMB12	1.44503	No Messages	No Messages
1220	COMB12	0	No Messages	No Messages
1221	COMB12	0	No Messages	No Messages
1222	COMB12	0	No Messages	No Messages
1223	COMB12	0.725	No Messages	No Messages
1224	COMB12	0	No Messages	No Messages
1225	COMB12	0	No Messages	No Messages
1226	COMB12	1.25	No Messages	No Messages
1227	COMB12	0	No Messages	No Messages
1228	COMB12	1.44503	No Messages	No Messages
1229	COMB12	0	No Messages	No Messages
1230	COMB12	0	No Messages	No Messages
1231	COMB12	0	No Messages	No Messages
1232	COMB12	0.725	No Messages	No Messages
1233	COMB12	0	No Messages	No Messages
1234	COMB12	0	No Messages	No Messages
1235	COMB12	1.25	No Messages	No Messages
1236	COMB12	0	No Messages	No Messages

Calle 5ª No. 16ª – 34 Macunaima
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proyectos@coingest.com.co
wwww.coingest.com.co

19 DISEÑO DE CONEXIONES METÁLICAS

A continuación, se presenta el diseño de las conexiones metálicas.

CONEXIÓN TIPO 1



DISEÑO ANCLAJE TUBO DE CERRAMIENTO

h= 7.25

Sperficie Expuesta del Cerramiento

Cuadrados
V=1.4*x

Redondos
V=0.7*x

Para este caso

V=	35	kg

Viento sobre tubo

aferencia	0.1143	m
viento	87.336	kg/m2
X=	9.9825048	kg/m
V= 1.2*x*S		
V=	86.84779176	kg

Viva sobre el tubo

aferencia	0.1143	m
viva	180	kg/m2
L	238.6584	kg

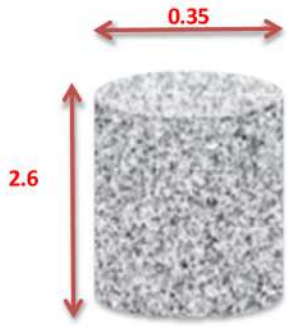
Geometria del tubo de Cerramiento

Geometria del tubo de Cerramiento



PTEC Ø4" e=6.00mm
Acero A500 Gr. C
Escala 1:5

El cerramiento consiste en dos tubos estructurales circulares de PTE 4"e=6.00mm



Fy= 3518.02 kg/cm2

Momento flector por la bandera

Mf= 235,991.99 Kg-cm

Carga uniformemente repartida sobre el Tubo

C= 103.02 Kg

Momento flector sobre el Tubo

Mf= 37,345.66 Kg-cm

Momento flector Total

Mft= 273,337.65 Kg-cm

Momento Resistente para el Tubo

Rx 75.76 cm3

Modulo resistente de la seccion

Rxx 3.23 cm3

Calculo del Fundamento

F.s Volcamiento **2.5**

Dimensiones del Fundamento

Momento Flector en la base

Mf= 137,655.96 Kg-cm

Peso del mastil, despreciando la bandera

Wm= **150** kg

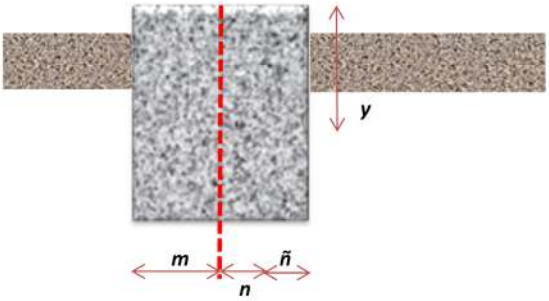
El peso del fundamento sera

Wf= **216** kg

Peso del mastil + el Fundamento

Wt= **366** kg

El sitio de incidencia de las fuerzas verticales, desplazadas por el empuje del viento, estara a una separacion del eje del fundamento:



n= *376.11* cms

m/3= 11.67 cms

y= 46.67 cms

Momento Flector en la base

Presion Maxima que se produce en el suelo

X= 19.56 kg/cm2

Mv / ***Mh*** ≤ 2.5

Mv= Wt * 200

Mv= 73,200.00 Kg-cm

Mh=Mf 0.53 ***Ok***

CONEXIÓN TIPO 2

Conexión: 4 - CHB_FEXX70_6

Familia: Cordón-ramas tubulares (CHB)
Tipo: Tubular chord-branches

Código de diseño: AISC 360-16 LRFD

Solicitaciones

Descripción	Cordón						Carga puntual		Tipo de carga
	Pror [T]	Mror [T*m]	Vror [T]	Prol [T]	Mrol [T*m]	Vrol [T]	Lv [T]	Lh [T]	
CM	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	Design
LL	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	Design
WL	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	Design
D1	2.10	2.10	2.10	2.10	2.10	2.10	2.10	0.00	Design
D2	4.20	4.20	4.20	4.20	4.20	4.20	4.20	0.00	Design
D3	2.55	2.55	2.55	2.55	2.55	2.55	2.55	0.00	Design
D4	3.30	3.30	3.30	3.30	3.30	3.30	3.30	0.00	Design
D5	4.05	4.05	4.05	4.05	4.05	4.05	4.05	0.00	Design
D6	2.85	2.85	2.85	2.85	2.85	2.85	2.85	0.00	Design

Descripción	Rama 1			Rama 2			Rama 3			Tipo de carga
	P [T]	Mrip [T*m]	Mrop [T*m]	P [T]	Mrip [T*m]	Mrop [T*m]	P [T]	Mrip [T*m]	Mrop [T*m]	
CM	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Design
LL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Design
WL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Design
D1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Design
D2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Design
D3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Design
D4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Design
D5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Design
D6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Design

Descripción	Rama 4			Rama 5			Rama 6			Tipo de carga
	P [T]	Mrip [T*m]	Mrop [T*m]	P [T]	Mrip [T*m]	Mrop [T*m]	P [T]	Mrip [T*m]	Mrop [T*m]	
CM	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	Design
LL	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	Design
WL	0.00	0.00	0.00	1.50	1.50	1.50	0.00	0.00	0.00	Design
D1	0.00	0.00	0.00	2.10	2.10	2.10	0.00	0.00	0.00	Design
D2	0.00	0.00	0.00	4.20	4.20	4.20	0.00	0.00	0.00	Design
D3	0.00	0.00	0.00	2.55	2.55	2.55	0.00	0.00	0.00	Design
D4	0.00	0.00	0.00	3.30	3.30	3.30	0.00	0.00	0.00	Design

D5	0.00	0.00	0.00	4.05	4.05	4.05	0.00	0.00	0.00	Design
D6	0.00	0.00	0.00	2.85	2.85	2.85	0.00	0.00	0.00	Design

Cálculos de diseño

Junta de una rama

Conexión X - (Inferior)

Solicitaciones

	Rama	Cordón	
Descripción	**P** [T]	**Pro** [T]	**Mro** [T*m]
CM	1.50	1.50	1.50
LL	1.50	1.50	1.50
WL	1.50	1.50	1.50
D1	2.10	2.10	2.10
D2	4.20	4.20	4.20
D3	2.55	2.55	2.55
D4	3.30	3.30	3.30
D5	4.05	4.05	4.05
D6	2.85	2.85	2.85

Parámetros de esfuerzo en el cordón

Caso de carga	**U**	**Qf**
CM	2.88	1.00
LL	2.88	1.00
WL	2.88	1.00
D1	4.03	1.00
D2	8.05	1.00
D3	4.89	1.00
D4	6.33	1.00
D5	7.76	1.00
D6	5.46	1.00

Consideraciones geométricas

Dimensiones **Referencias**	**Unidad**	**Valor**	**Min.**	**Max.**	**Est.**	
Soldadura						
Tamaño de soldadura	[1/16in]	2	2	--	✔	table J2.4

Límites de Aplicación

Dimensiones	**Unidad**	**Valor**	**Min.**	**Max.**	**Est.**	**Referencias**
Cordón						

Esbeltez de la pared más larga		13.89	--	35.00	✓	Table K3.2A
Esbeltez de la pared más corta		25.00	--	35.00	✓	Table K3.2A
Relación de aspecto		0.56	0.50	2.00	✓	Table K3.2A
Resistencia del material	[Ton/cm2]	3.52	--	3.66	✓	Table K3.2A
Ductilidad del material		0.81	--	--	✓	
Rama						
Esbeltez de la pared más larga		12.50	--	35.00	✓	Table K3.2A
Esbeltez de la pared más corta		18.75	--	35.00	✓	Table K3.2A
Relación de ancho de la pared más larga		0.44	0.25	--	✓	Table K3.2A
Relación de ancho de la pared más corta		0.67	0.25	--	✓	Table K3.2A
Relación de aspecto		0.67	0.50	2.00	✓	Table K3.2A
Resistencia del material	[Ton/cm2]	3.52	--	3.66	✓	Table K3.2A
Ductilidad del material		0.81	--	--	✓	

Verificación de diseño

Verificación	Unidad	Capacidad	Solicitación	EC ctrl	Rel.	Referencias
Rama						
Plastificación de la pared del cordón	[Ton]	4.37	4.20	D2	0.96	Eq. K2-7 (2010)
Resistencia de soldadura	[Ton]	6.66	4.20	D2	0.63	Eq. K5-5
Relación	**0.96**					

Interacción

Verificación	Unidad	Capacidad	Solicitación	EC ctrl	Rel.	Referencias
Interacción para carga axial y flexión combinadas par...		1.00	0.96	D2	0.96	
Relación de interacción para capacidades de soldadura		1.00	0.63	D2	0.63	
Relación de resistencia crítica global	**0.96**					

Relación de resistencia crítica global 0.96

Para la unión de los elementos metálicos se contempló soldadura de electrodo revestido (SMAW) fy=70 KSI.

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Especificación	Clasificación AWS	Nombre WEST ARCO	Caracteristicas y Aplicaciones	Resistencia a la Tracción (psi)	Límite de Fluencia (psi)	Elongación (%)	Resistencia al impacto Charpy con entalla en V		Posición para soldar	Tipo de Corriente	AMPERIOS			
							T en °C	Resistencia al impacto J,ft			3/32"	1/8"	5/32"	3/16"
ELECTRODOS REVESTIDOS PARA SOLDAR ACEROS AL CARBONO (AWS A5.1)	E6010	XL 610	Es un electrodo de alta penetración y rápida solidificación. Para soldar aceros de bajo carbono, lámina ordinaria y galvanizada, calderas, estructuras, tuberías de presión y acero fundido.	62.000 72.000	52.000 62.000	22 al 33	-29	27 a 100	TODAS	dcep	50 -80	70-115	90-160	120-210
	E6010	ZIP 10T	Es un electrodo de muy buena penetración, con polvo de hierro, buena calidad radiográfica especialmente diseñado para oleoductos, gasoductos, construcciones navales, estructuras de acero y recipientes a presión.	62.000 72.000	52.000 62.000	22 al 33	-29	27 a 100	TODAS	dcep	50 -80	70-120	90-155	120-180
	E6011	ACP 611SS	Se emplea para soldar todo tipo de aceros de bajo carbono en tuberías, estructuras, construcciones navales, recipientes a presión, etc. Especialmente pases de penetración.	63.000 74.000	52.000 60.000	27 al 35	-29	27 a 100	TODAS	ac o dcep	50 -80	70-115	90-160	120-210
	E6013	SUPER SW 613	Construcciones de hierro en general, carpinterías metálicas con lámina delgada, fabricación de puertas, ventanas, rejas, ductos, ensamblaje de carrocerías y ornamentación en general.	60.000 74.000	48.000 62.000	22 al 28	20	40 a 110	TODAS	ac, dcep o dcen	60 -100	90-130	120-160	
	E6013	SW 613	Carrocerías, muebles metálicos, ductos de aire acondicionado, rejas, ventanas y ornamentación en general.	60.000 74.000	48.000 65.000	22 al 29	20	50 a 110	TODAS	ac, dcep o dcen	50 -90	80-120	110-160	130-210
	E6013	SW 10	Electrodo de tipo europeo de fácil manipulación, desarrollado para toda clase de soldaduras que requieran poca penetración. Se emplea para construcciones de hierro en general, carpinterías metálicas con lámina delgada, fabricacion de puertas, ventanas, rejas, ductos, ensamblaje de carrocerías y ornamentación en general. Puede emplearse la técnica de arrastre para juntas planas y horizontales	60.000 74.000	48.000 62.000	22 al 28	20	40 a 110	TODAS	ac, dcep o dcen	60 -100	90-130	120-160	
	E7014	ZIP 14	Construcción de maquinaria, marcos de máquinas, implementos agrícolas, trabajos de ornamentación, tubería, recipientes de presión y sus accesorios. Equipos de ferrocarril, construcciones navales y soldadura de aceros estructurales.	70.000 80.000	58.000 68.000	22 al 28	20	50 a 100	TODAS	ac, dcep o dcen	70 -110	110 -150	120 -200	175 -275
	E7024	ZIP 24	Puentes y equipos pesados, equipo de construcción, implementos agrícolas, tanques de almacenamiento de petróleo y sus derivados, maquinaria de minería, carros de ferrocarril y construcción naval y en general para aceros de bajo contenido de carbono.	70.000 80.000	60.000 70.000	22 al 25	20	45 a 100	PLANA Y HORIZONTAL EN FILETES	ac, dcep o dcen		140 -180	180 -250	225 -300
	E7018-1	WIZ 18	Se utiliza para soldaduras de acero al carbono de hasta 70.000 lb/pulg² de resistencia a la tensión, en aplicaciones en estructuras, tuberías y tanques a presión especialmente cuando se requiere alta resistencia al impacto a bajas temperaturas.	70.000 80.000	58.000 70.000	22 al 36	-29 -46	100 60	TODAS, excepto progresión descendente	ac o dcep	70 -100	100 -145	135 -200	170 -270
	E7018	WIZ 18 S	Se utiliza para soldaduras de acero al carbono de hasta 70.000 lb/pulg² de resistencia a la tensión, en aplicaciones en estructuras, tuberías y tanques a presión, calderas, vagones de ferrocarril, etc.	72.000 84.000	62.000 72.000	24 al 36	-29	70	TODAS	ac o dcep	70 -100	100 -145	135 -200	170 -270

Nota: Se recomienda la utilización del electrodo E7014 pero también es posible utilizar otro tipo de electrodo siempre y cuando se asegure que resistencia de fy de 70KSI o superior

20 DISEÑO DE LA CIMENTACIÓN

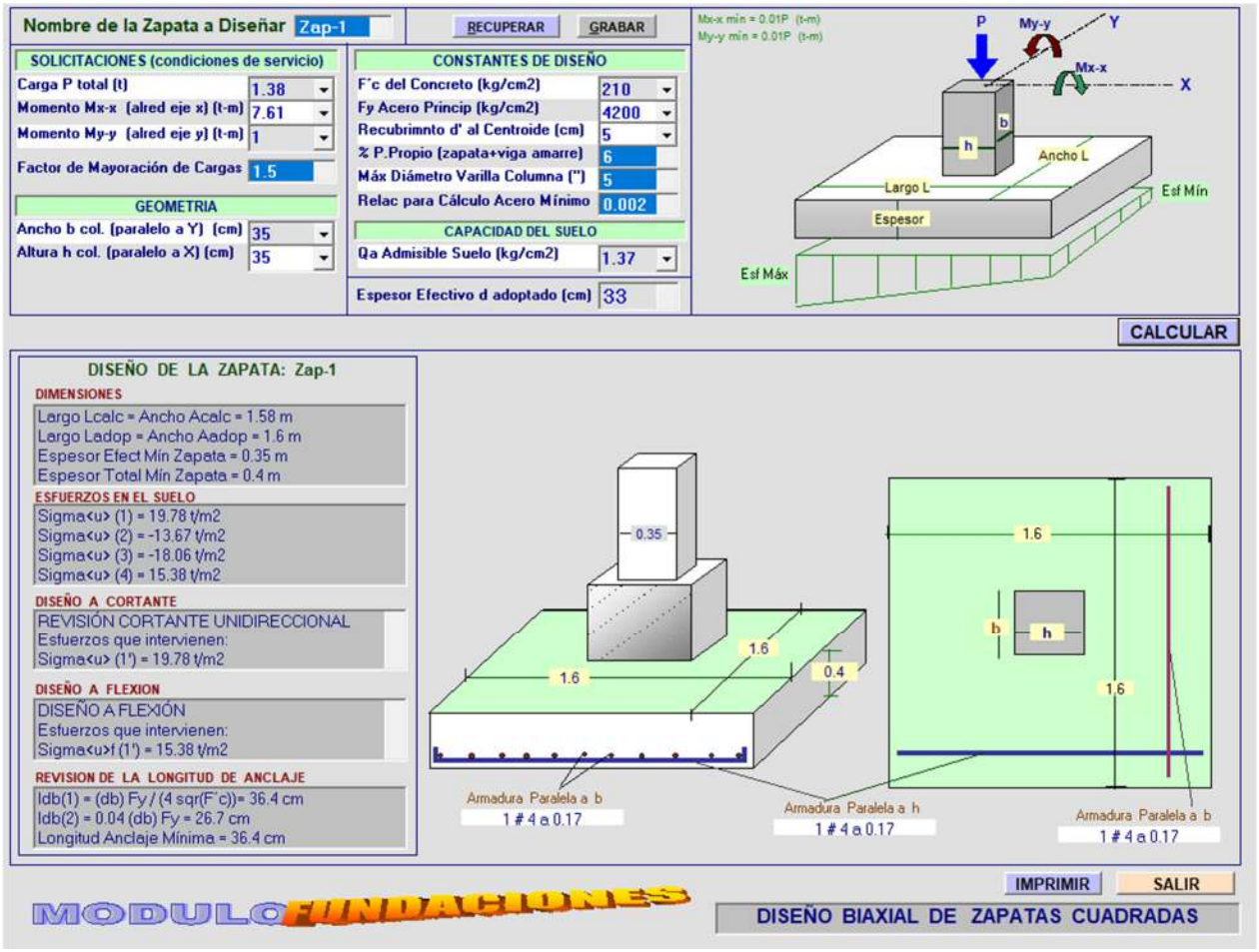
La siguienta tabla muestra las reacciones en la base para cada uno de los nodos de la base de la estructura:

TABLE: Joint Reactions								
Joint	**OutputCase**	**CaseType**	**F1**	**F2**	**F3**	**M1**	**M2**	**M3**
Text	Text	Text	KN	KN	KN	KN-m	KN-m	KN-m
1	Serv-I	Combination	2.5	-15.309	7.907	50.7797	6.3652	-5.1025
333	Serv-I	Combination	-0.163	-28.155	13.574	71.6355	-0.9232	-0.7557
350	Serv-I	Combination	-0.172	-28.344	13.649	73.3055	-0.9378	-0.3758
367	Serv-I	Combination	-0.177	-28.368	13.642	74.0774	-0.945	-0.1896
384	Serv-I	Combination	-0.182	-28.358	13.628	74.445	-0.9487	-0.0946
401	Serv-I	Combination	-0.189	-28.347	13.618	74.6173	-0.9509	-0.0438
418	Serv-I	Combination	-0.199	-28.341	13.613	74.6858	-0.9523	-0.0131
435	Serv-I	Combination	-0.212	-28.341	13.609	74.6858	-0.9535	0.0118
452	Serv-I	Combination	-0.228	-28.347	13.609	74.6173	-0.9545	0.0424
469	Serv-I	Combination	-0.249	-28.358	13.611	74.4451	-0.9554	0.0932
486	Serv-I	Combination	-0.277	-28.368	13.617	74.0775	-0.9561	0.1882
503	Serv-I	Combination	-0.321	-28.344	13.617	73.3056	-0.956	0.3745
520	Serv-I	Combination	-0.401	-28.155	13.543	71.6357	-0.9544	0.7544
537	Serv-I	Combination	-0.616	-27.187	13.042	67.6759	-0.9466	1.6114
554	Serv-I	Combination	1.013	-15.309	7.963	50.7795	6.5156	5.102
9639	Serv-I	Combination	-0.128	-27.187	13.055	67.6756	-0.8877	-1.6127

Tabla 6. Reacciones en la base.

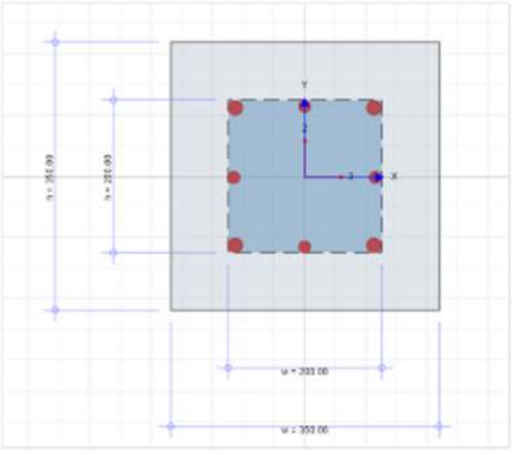
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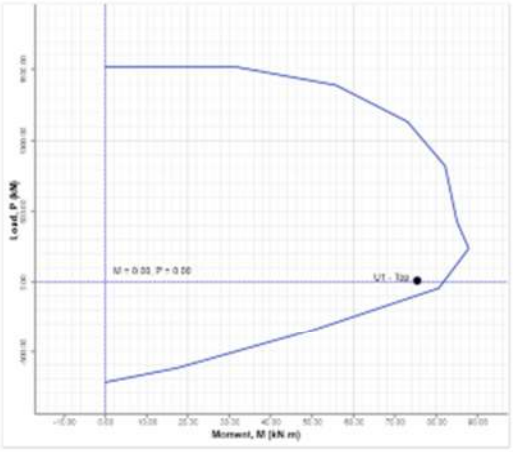
20.1ZAPATA CONCÉNTRICA GARGA AXIAL Y MOMENTO DE VOLCAMIENTO

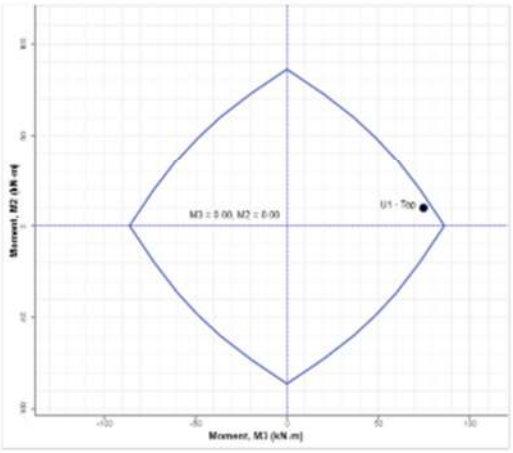


20.2PEDESTAL

CSiCol v11.0 9 September 2025







COLUMN INFORMATION

Name	PD-1
Code	ACI 318-14
Shape	Rectangle
Consider Slenderness	No

SHAPE

Name	Concrete Rectangle 1
Material	21MPa
Stress-Strain Curve	Mander, Unconfined
Confinement Zone	Mander, Rectangular Confined

SECTION PROPERTIES

Total Width, W_{total}	350.00 (mm)
Total Height, H_{total}	350.00 (mm)
Area, A	122,500.00 (mm^2)
Inertia, I_{22}	1,250,520,830.00 (mm^4)
Inertia, I_{33}	1,250,520,830.00 (mm^4)
Centroid, $\bar{x}$	175.00 (mm)
Centroid, $\bar{y}$	175.00 (mm)

REBARS

Rebars	4-#6 + 4-#5
Rebar Area	1,931.82 (mm^2)
Rebar Ratio	1.58%

COLUMN MATERIALS

Concrete

Name	21MPa
Elastic Modulus	17,872.04 (MPa)
Compressive Strength	20.68 (MPa)

Rebar

Name	A706Gr60
Stress-Strain Curve	Park Strain Hardening
Elastic Modulus	199,948.04 (MPa)
Minimum Yield Stress	413.69 (MPa)
Minimum Tensile Stress	551.58 (MPa)

GOVERNING LOAD

Name	U1
Axial Load, P_u	13.62 (kN)
Moment Top, M_{ux}	74.60 (kN-m)
Moment Bottom, M_{ux}	74.60 (kN-m)
Moment Top, M_{uy}	10.00 (kN-m)
Moment Bottom, M_{uy}	10.00 (kN-m)
Design Moment, M_cDesign	74.60 (kN-m)
Max Capacity Ratio	0.93

20.3DISEÑO DE LA VIGA DE CIMENTACIÓN

DISEÑO ESTRUCTURAL DE VIGAS DE CIMENTACIÓN A.3.6.4.2 NSR – 10

DATOS INICIALES

Localización:	Acacias	Ciudad donde se realiza localiza el proyecto
Zona:	Baja	Vulnerabilidad sísmica de la estructura
Aa	0.30	Coeficiente de aceleración pico epectral de diseño
$P_{u\text{-}MAX}$ (kN)	13.62	Carga máxima de las columna
f'_c (MPa)	21.00	Resistencia a la compresión del concreto
f_y (MPa)	420.00	Resistencia a la fluencia del acero
T ó C (kN)	1.02	Fuerza de compresión o de tensión que debe resistir la viga
c (m)	0.35	Ancho de columna

DIMENSIONAMIENTO DE LA VIGA

L (m)	2.15	Longitud de la viga
b (m)	0.30	Base de la viga
h mín (m)	0.05	Altura mínima de la viga
h (m)	0.30	Altura de la viga
rec. (m)	0.08	Recubrimiento inferior del elemento
Barra	#4	diametro nominal de la barra
Ø (cm)	1.27	diámetro de la barra en centímetros
A barra (cm²)	1.27	área de la barra en cm²
Estribos	#3	Diametro del estribo
Ø (cm)	0.95	diámetro del estribo en centímetros
d´ (m)	0.0909	Distancia al centroide del refuerzo long
d (m)	0.2091	Altura efectiva

DISEÑO DEL REFUERZO LONGITUDINAL Y TRANSVERSAL DE LA VIGA

Ag (cm²)	900.00	Área bruta de la sección de concreto
As min (cm²)	4.50	Área mínima de acero de un elemento a compresión
N	4	número de barras (calculado)
N	6	número de barras (colocado)
As real (cm²)	7.60	área real del acero longitudinal en cm²
ϕ	0.65	Coef. red. resist. para elementos a compresión con estribos cerrados
C (kN)	932.18	Compresión de diseño
C máx (kN)	12,429.03	Carga máxima permisible por compresión
T (kN)	287.30	Tensión de diseño
T máx (kN)	3,830.71	Carga máxima permisible por tensión
Estribos	0.15	Separación calculada
S max (m)	0.10	Separación máxima
S (m)	0.10	Separación de diseño
cant. Est.	19.00	Cantidad de estribos

VCIM 001/

B=0.30 H=0.30 L=2.15			B=0.30 H=0.30 L=2.15		
Mu=-0.00 As =5.23 As(r)=2.22		Mu=-1.14 As =5.23 As(r)=2.22	Mu=-1.22 As =5.23 As(r)=2.22		Mu=-0.72 As =5.23 As(r)=2.22
Mu=1.11 As =5.23 As(r)=2.22			Mu=0.53 As =5.23 As(r)=2.22		
Vu=2.08	Vu=-0.70	Vu=-3.49	Vu=3.02	Vu=0.24	Vu=-2.55

B=0.30 H=0.30 L=2.15			B=0.30 H=0.30 L=2.15		
Mu=-0.69 As =5.23 As(r)=2.22		Mu=-0.86 As =5.23 As(r)=2.22	Mu=-0.87 As =5.23 As(r)=2.22		Mu=-0.81 As =5.23 As(r)=2.22
Mu=0.72 As =5.23 As(r)=2.22			Mu=0.66 As =5.23 As(r)=2.22		
Vu=2.71	Vu=-0.08	Vu=-2.87	Vu=2.81	Vu=0.03	Vu=-2.76

B=0.30 H=0.30 L=2.15			B=0.30 H=0.30 L=2.15		
Mu=-0.81 As =5.23 As(r)=2.22		Mu=-0.83 As =5.23 As(r)=2.22	Mu=-0.83 As =5.23 As(r)=2.22		Mu=-0.82 As =5.23 As(r)=2.22
Mu=0.68 As =5.23 As(r)=2.22			Mu=0.67 As =5.23 As(r)=2.22		
Vu=2.78	Vu=-0.01	Vu=-2.80	Vu=2.79	Vu=0.00	Vu=-2.78

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B=0.30 H=0.30 L=2.15			B=0.30 H=0.30 L=2.15		
Mu=-0.82 As =5.23 As(r)=2.22		Mu=-0.83 As =5.23 As(r)=2.22	Mu=-0.83 As =5.23 As(r)=2.22		Mu=-0.82 As =5.23 As(r)=2.22
Mu=0.67 As =5.23 As(r)=2.22			Mu=0.67 As =5.23 As(r)=2.22		
Vu=2.79	Vu=0.00	Vu=-2.79	Vu=2.79	Vu=0.00	Vu=-2.79

B=0.30 H=0.30 L=2.15			B=0.30 H=0.30 L=2.15		
Mu=-0.82 As =5.23 As(r)=2.22		Mu=-0.82 As =5.23 As(r)=2.22	Mu=-0.82 As =5.23 As(r)=2.22		Mu=-0.82 As =5.23 As(r)=2.22
Mu=0.67 As =5.23 As(r)=2.22			Mu=0.67 As =5.23 As(r)=2.22		
Vu=2.79	Vu=0.00	Vu=-2.79	Vu=2.79	Vu=0.00	Vu=-2.79

B=0.30 H=0.30 L=2.15			B=0.30 H=0.30 L=2.15		
Mu=-0.82 As =5.23 As(r)=2.22		Mu=-0.83 As =5.23 As(r)=2.22	Mu=-0.83 As =5.23 As(r)=2.22		Mu=-0.82 As =5.23 As(r)=2.22
Mu=0.67 As =5.23 As(r)=2.22			Mu=0.67 As =5.23 As(r)=2.22		
Vu=2.79	Vu=0.00	Vu=-2.79	Vu=2.79	Vu=0.00	Vu=-2.78

B=0.30 H=0.30 L=2.15			B=0.30 H=0.30 L=2.15		
Mu=-0.82 As =5.23 As(r)=2.22		Mu=-0.83 As =5.23 As(r)=2.22	Mu=-0.83 As =5.23 As(r)=2.22		Mu=-0.80 As =5.23 As(r)=2.22
Mu=0.67 As =5.23 As(r)=2.22			Mu=0.68 As =5.23 As(r)=2.22		
Vu=2.78	Vu=-0.01	Vu=-2.79	Vu=2.80	Vu=0.02	Vu=-2.77

B=0.30 H=0.30 L=2.15			B=0.30 H=0.30 L=1.75		
Mu=-0.80 As =5.23 As(r)=2.22		Mu=-0.90 As =5.23 As(r)=2.22	Mu=-0.89 As =5.23 As(r)=2.22		Mu=-0.00 As =5.23 As(r)=2.22
Mu=0.64 As =5.23 As(r)=2.22			Mu=0.69 As =5.23 As(r)=2.22		
Vu=2.74	Vu=-0.05	Vu=-2.83	Vu=2.93	Vu=0.67	Vu=-1.60

Villavicencio, enero de 2025

Señores:
SECRETARIA DE PLANEACIÓN
Acacias, Meta.

MEMORIAL DE RESPONSABILIDAD

Yo, **MIGUEL ÁNGEL PINZÓN DIAZ** Ingeniero Civil con matrícula profesional NO. **25202-261734** CND, e identificado con CC. **1.026.575.035** de Bogotá, Certifico que avalo, en calidad de ingeniero consultor el estudio estructural de:

Proyecto: **ADECUACIÓN Y MEJORAMIENTO DEL COMPLEJO DEPORTIVO EN EL NÚCLEO RURAL ESCOLAR Y RECREATIVO DE CHICHIMENE EN EL MUNICIPIO DE ACACÍAS-META. BLOQUE: MURO CONTRA IMPACTO.**

Matrícula Inmobiliaria: **232-1991**
Cédula catastral: **030000020003000**

Municipio: **ACACÍAS**
Departamento: **META**

Declaro que este estudio, se desarrolló de acuerdo con las normas sismo resistentes vigentes del país NSR – 10 expedido por medio del Decreto 926 del 19 de marzo de 2010 y modificado por el decreto 092 del 17 de Enero de 2011.

Aclaro que hago el aval del estudio realizado, siempre y cuando en la etapa de construcción se sigan y se hayan seguido todas y cada una de las especificaciones y recomendaciones, suscritas en el mismo.

Cordialmente,



MIGUEL ANGEL PINZON DIAZ
Ingeniero Civil
M.P. 25202-261734 CND

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REPÚBLICA DE COLOMBIA
COPNIA
Consejo Profesional Nacional de Ingeniería

Certificado de vigencia y antecedentes disciplinarios
CVAD-2025-3298970

CONSEJO PROFESIONAL NACIONAL DE INGENIERÍA
COPNIA

EL DIRECTOR GENERAL

CERTIFICA:

1. Que MIGUEL ANGEL PINZON DIAZ, identificado(a) con CEDULA DE CIUDADANIA 1026575035, se encuentra inscrito(a) en el Registro Profesional Nacional que lleva esta entidad, en la profesión de INGENIERIA CIVIL con MATRICULA PROFESIONAL 25202-261734 desde el 15 de Octubre de 2013, otorgado(a) mediante Resolución Nacional 1863.

2. Que el(la) MATRICULA PROFESIONAL es la autorización que expide el Estado para que el titular ejerza su profesión en todo el territorio de la República de Colombia, de conformidad con lo dispuesto en la Ley 842 de 2003.

3. Que el(la) referido(a) MATRICULA PROFESIONAL se encuentra **VIGENTE**

4. Que el profesional no tiene antecedentes disciplinarios ético-profesionales.

5. Que la presente certificación se expide en Bogotá, D.C., a los diecisiete (17) días del mes de Enero del año dos mil veinticinco (2025).

Rubén Dario Ochoa Arbeláez

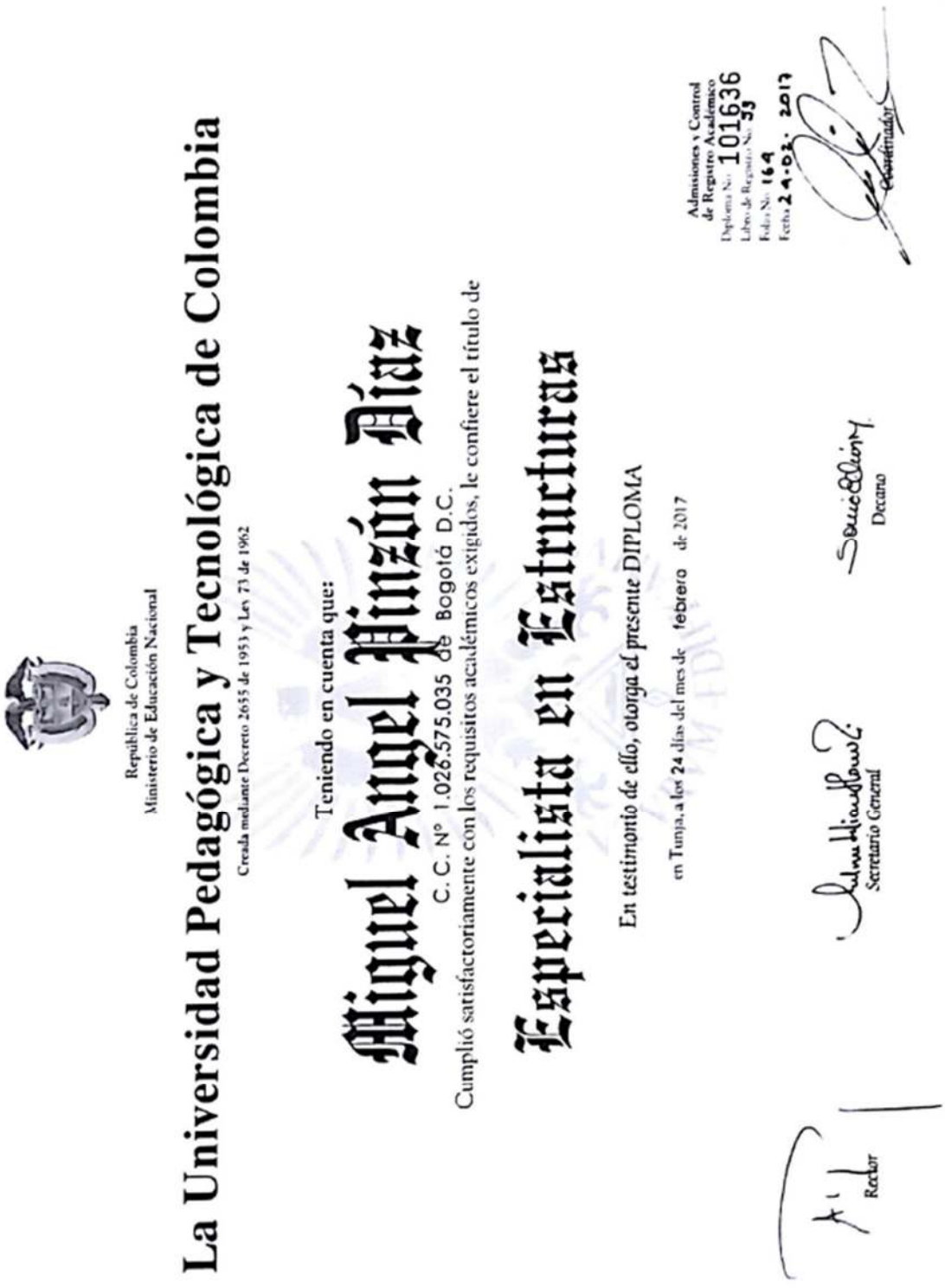
Firmal del titular (*)

(*)Con el fin de verificar que el titular autoriza su participación en procesos estatales de selección de contratistas. La falta de firma del titular no invalida el Certificado
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Teniendo en cuenta que:

Miguel Angel Pinzón Díaz

C. C. Nº 1.026.575.035 de Bogotá D.C.

Cumplió satisfactoriamente con los requisitos académicos exigidos, le confiere el título de

Especialista en Estructuras

En testimonio de ello, otorga el presente DIPLOMA

en Tunja, a los 24 días del mes de febrero de 2017

Rector

Secretario General

Decano

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Libro de Registro No. 53
Folio No. 169
Fecha 24-03-2017