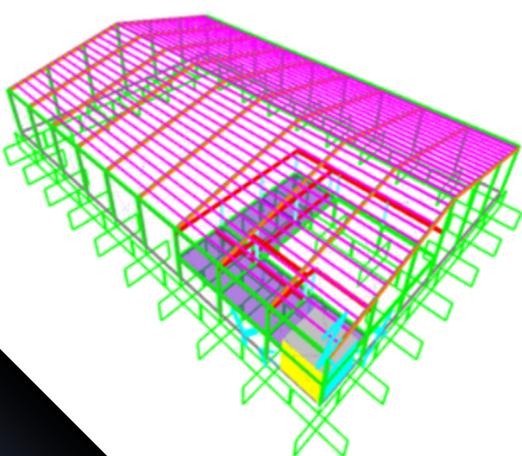


LAPORAN PERHITUNGAN STRUKTUR

PROYEK/PEKERJAAN :
WAREHOUSE



ALAMAT :
BATU JAJAR,
BANDUNG

Tahun
2024 / 2025

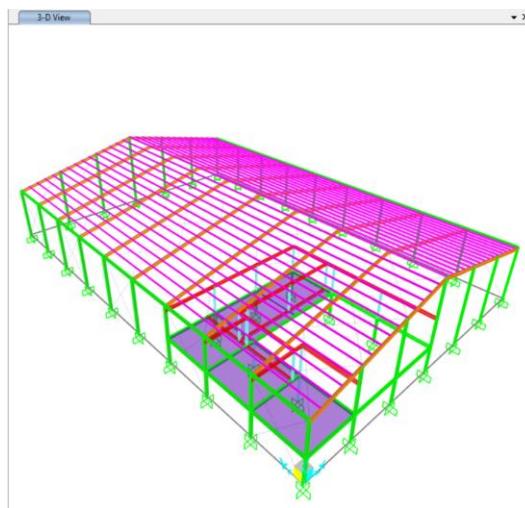
ANALISIS STRUKTUR WAREHOUSE DENGAN SOFTWARE SAP 2000 V.22

I. PENDAHULUAN

Analisis struktur bangunan Warehouse dilakukan dengan komputer berbasis elemen hingga (finite element) untuk berbagai kombinasi pembebanan yang meliputi beban mati, beban hidup, dan beban gempa dengan pemodelan struktur 3-D (space-frame). Pemodelan struktur dilakukan dengan Program SAP 2000 V.22 (Extended Three-Dimensional Analysis of Building System) seperti terlihat pada Gambar 1.1

Struktur bangunan dihitung secara analisis mampu menahan gempa rencana sesuai peraturan yang berlaku yaitu SNI 03-1726-2002 tentang Tatacara Perencanaan Ketahanan Gempa untuk Bangunan Gedung dengan menggunakan analisis dinamik Response Spectrum Analysis dan Time History Analysis. Dalam peraturan ini gempa rencana ditetapkan mempunyai periode ulang 500 tahun, sehingga probabilitas terjadinya terbatas pada 10 % selama umur gedung dengan asumsi 50 tahun. Berdasarkan pembagian Wilayah Gempa, lokasi bangunan di wilayah Bandung Raya, termasuk wilayah gempa 5 (wilayah dengan intensitas gempa tertinggi kedua setelah wilayah 6) dengan percepatan puncak batuan dasar $0,25.g$ ($g = \text{percepatan gravitasi} = 9,81 \text{ m/det}^2$).

Konsep perancangan konstruksi didasarkan pada analisis kekuatan batas (ultimate-strength) yang mempunyai daktilitas cukup untuk menyerap energi gempa sesuai dengan peraturan yang berlaku.



Gambar 1. 1 Model Struktur Warehouse

II. PERATURAN STANDARD

1. Tata Cara Perencanaan Pembebatan untuk Rumah dan Gedung (SNI 03-1727-1989-F).
2. Tata Cara Perencanaan Ketahanan Gempa untuk Bangunan Gedung (SNI 03-1726-2002).
3. Tata Cara Perhitungan Struktur Beton Untuk Bangunan Gedung (SNI 03-2847-1992).

Untuk hal-hal yang tidak diatur dalam peraturan dan standar di atas dapat mengacu pada peraturan-peraturan dan standar berikut :

1. *Building Code Requirements for Structural Concrete* (ACI 318-19)
2. *Uniform Building Code* (UBC)

A. BAHAN STRUKTUR

1. Beton

Untuk semua elemen struktur kolom, balok, dan plat digunakan beton dengan kuat tekan beton yang digunakan, $f_c' = 30 \text{ MPa}$ (setara dengan mutu beton K-350).

Modulus elastis beton, $E_c = 4700\sqrt{f_c'} = 25.742 \text{ MPa} = 25742 \text{ kN/m}^2$.

Angka poison, $\nu = 0,2$

Modulus geser, $G = E_c / [2.(1 + \nu)] = 10726 \text{ kN/m}^2$.

2. Baja Tulangan

Untuk baja tulangan dengan $\varnothing > 12 \text{ mm}$ digunakan baja tulangan ulir (deform) BJTS 420 dengan tegangan leleh, $f_y = 420 \text{ MPa} = 420000 \text{ kN/m}^2$

Untuk baja tulangan dengan $\varnothing \leq 12 \text{ mm}$ digunakan baja tulangan polos BJTP 390 dengan tegangan leleh, $f_y = 280 \text{ MPa} = 280000 \text{ kN/m}^2$

Untuk baja tulangan dengan Wind Bracing digunakan baja tulangan $\varnothing 16 \text{ mm}$ polos BJTP 400 dengan tegangan leleh, $f_y = 280 \text{ MPa} = 390000 \text{ kN/m}^2$

3. Baja IWF

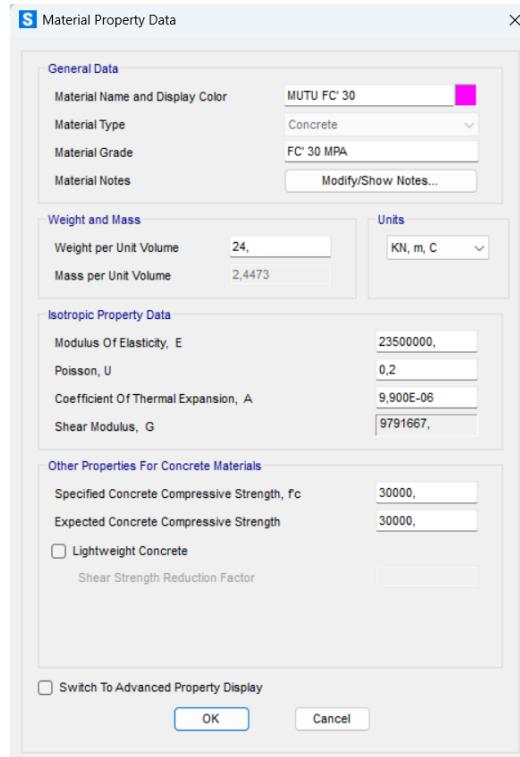
Untuk Baja IWF pada kolom, balok, dan rafter menggunakan baja IWF ukuran dengan ukuran $150 \times 300 \times 6,5 \times 9$ mutu SS400 dengan tegangan leleh, $f_y = 245 \text{ MPa} = 295000 \text{ kN/m}^2$

4. Canal C

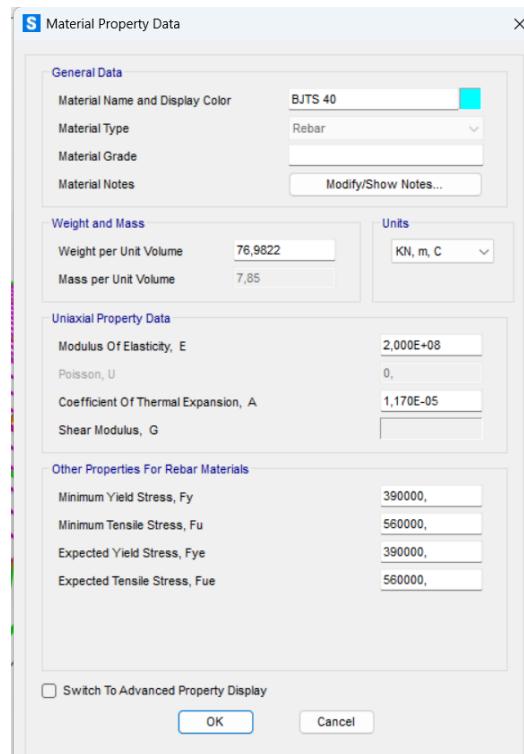
Untuk Besi Canal C yang digunakan pada gording menggunakan besi Canal C dengan ukuran $150 \times 50 \times 23$ mutu SS400 dengan tegangan leleh, $f_y = 245 \text{ MPa} = 295000 \text{ kN/m}^2$

5. Input Data Bahan Struktur

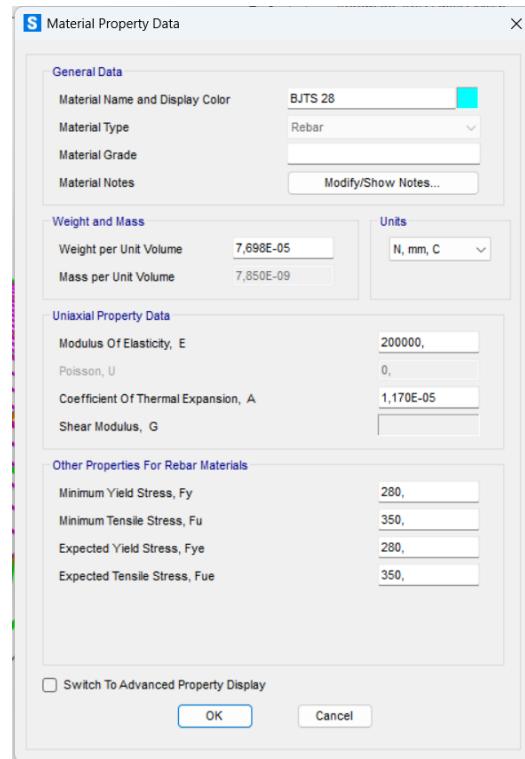
Input data bahan Struktur ke dalam SAP 2000 seperti gambar berikut:



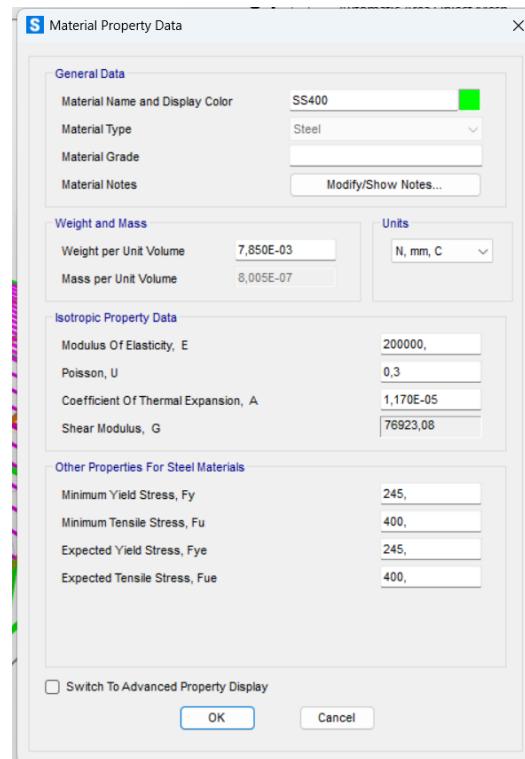
Gambar 1. 2 Input Material Beton FC' 30



Gambar 1. 3 Input Material Baja Tulangan BJTS-40



Gambar 1. 4 Input Material Baja Tulangan BJTS-28

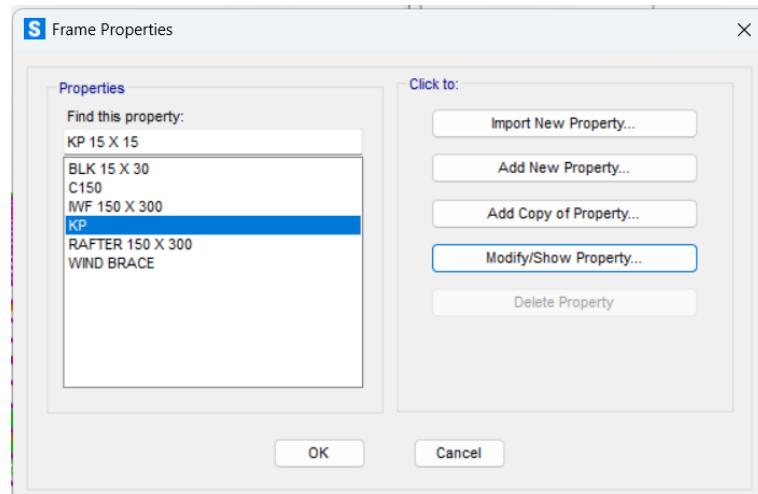


Gambar 1. 5 Input Material Baja SS400

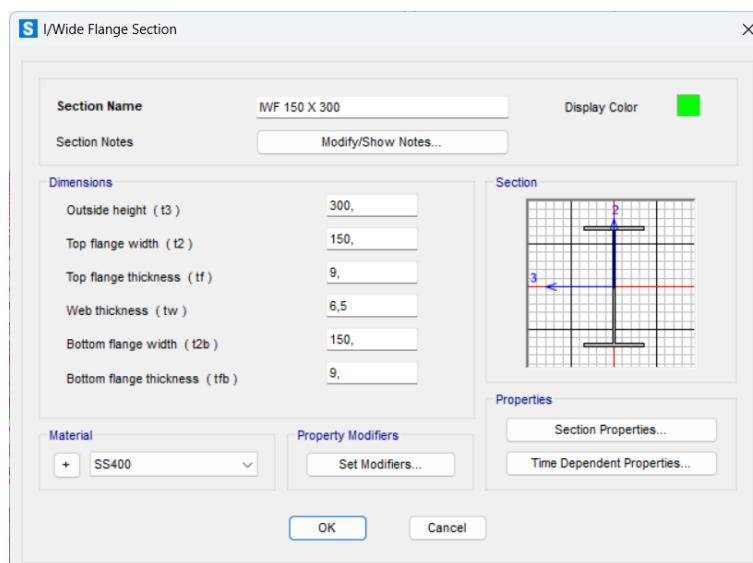
B. DIMENSI ELEMEN STRUKTUR

1. Input Data Balok & Kolom

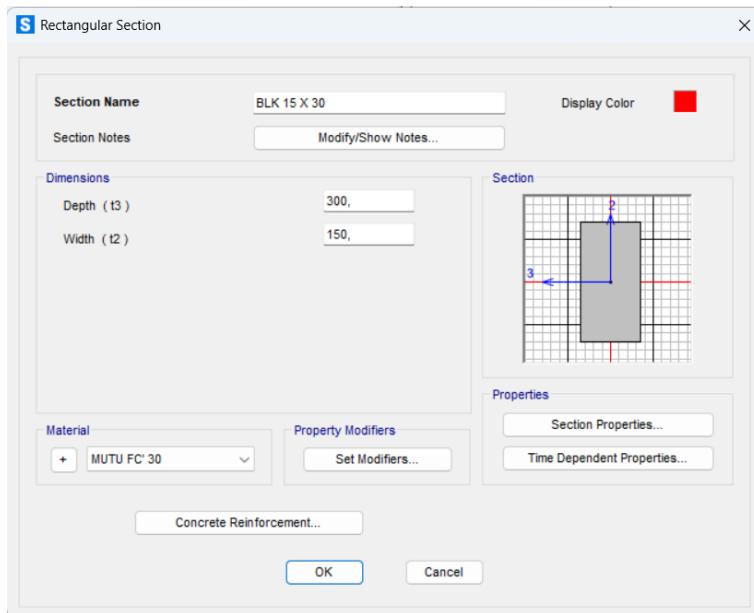
Dimensi balok yang diinput dalam SAP 2000 ada beberapa macam dan diberi kode sesuai dengan dimensinya, IWF 150 X 300, Rafter 150 X 300 Balok 15 x 30, ada yang diberi kode singkatan seperti C150 yang artinya Canal 150 dan KP yang artinya Kolom Praktis, lalu ada yang langsung diberinama sesuai fungsinya seperti, Wind Brace (Lihat Gambar 1.6).



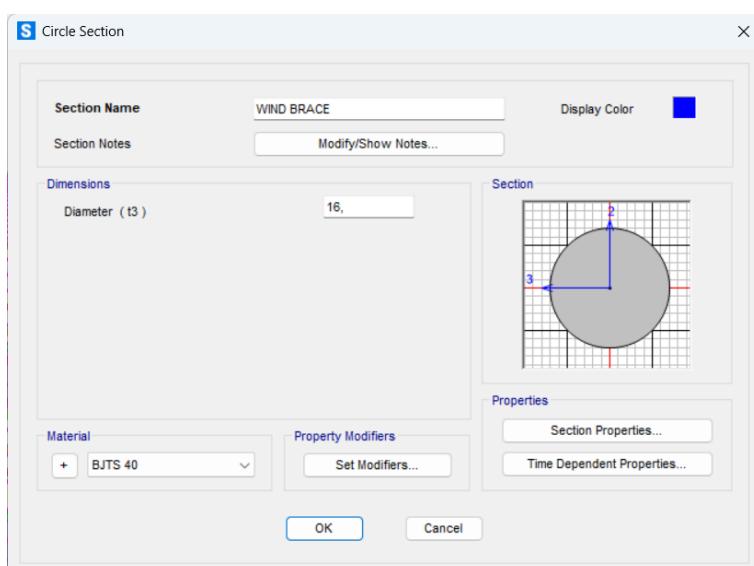
Gambar 1. 6 Input Data Frame Section



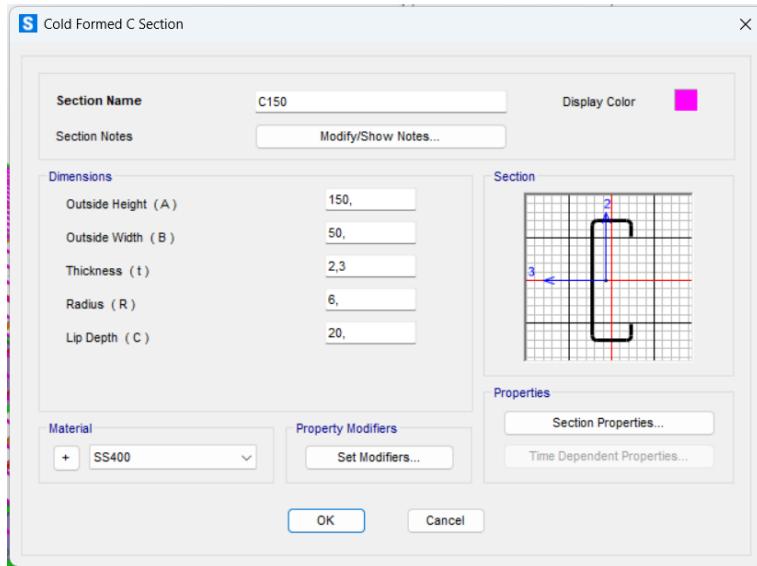
Gambar 1. 7 Contoh Input data Kolom IWF 150 X 300



Gambar 1. 8 Contoh Input data Balok 150 X 300



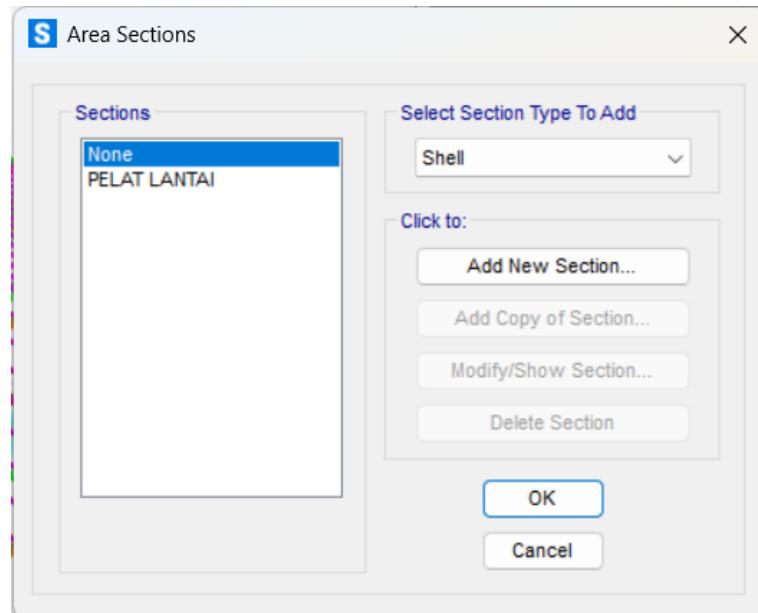
Gambar 1. 9 Contoh Input data Wind Brace



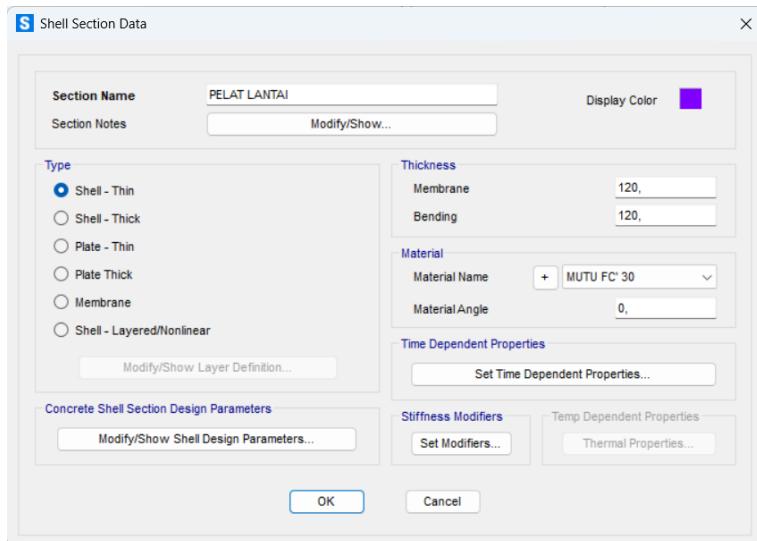
Gambar 1. 10 Contoh input data Canal C 150 x 50 x 23

2. Pelat Lantai, Pelat Atap, Shear Wall

Untuk plat lantai digunakan tebal 120 mm.

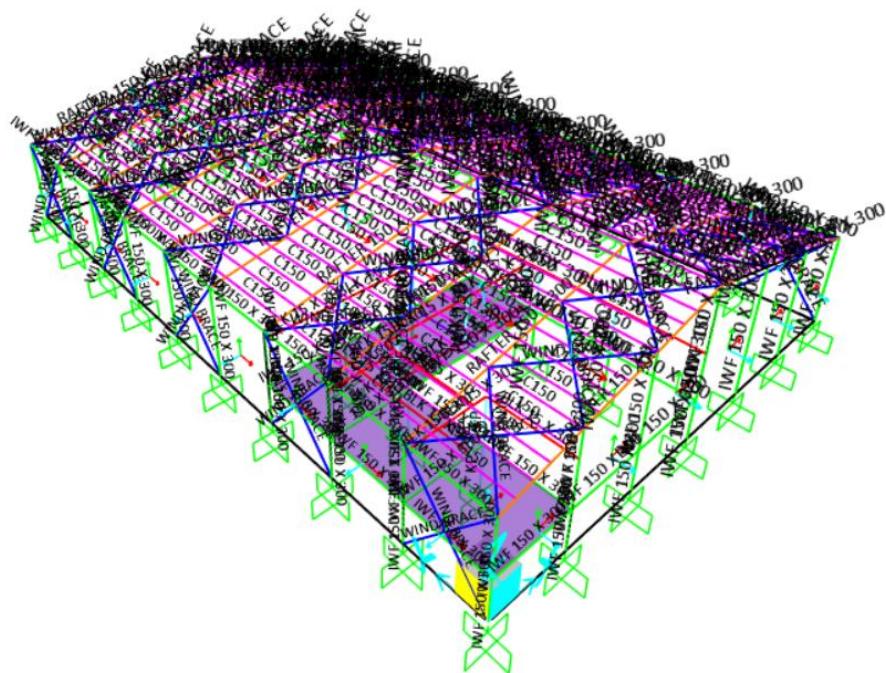


Gambar 1. 11 Input Area Section

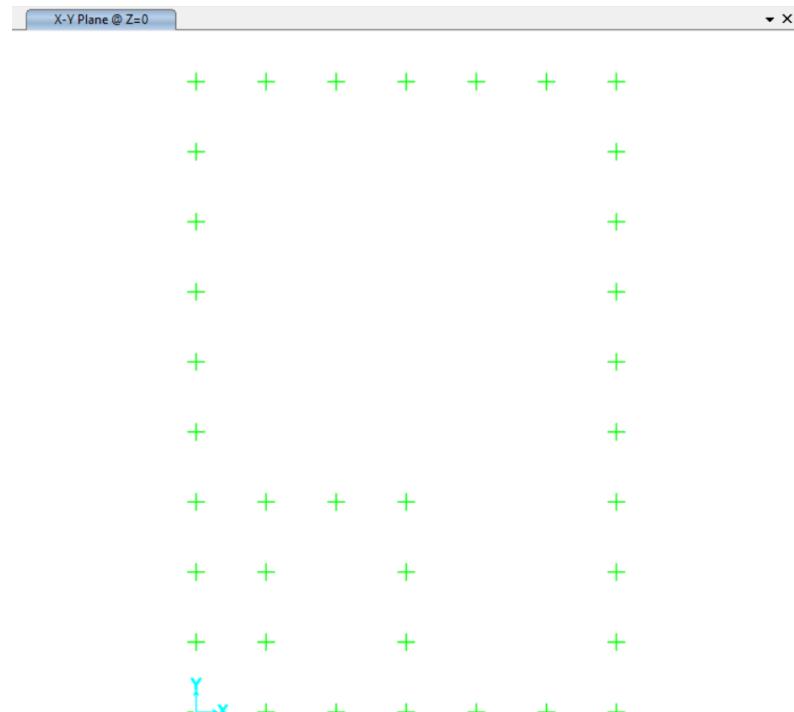


Gambar 1. 12 Contoh input data pelat lantai tebal 120 mm

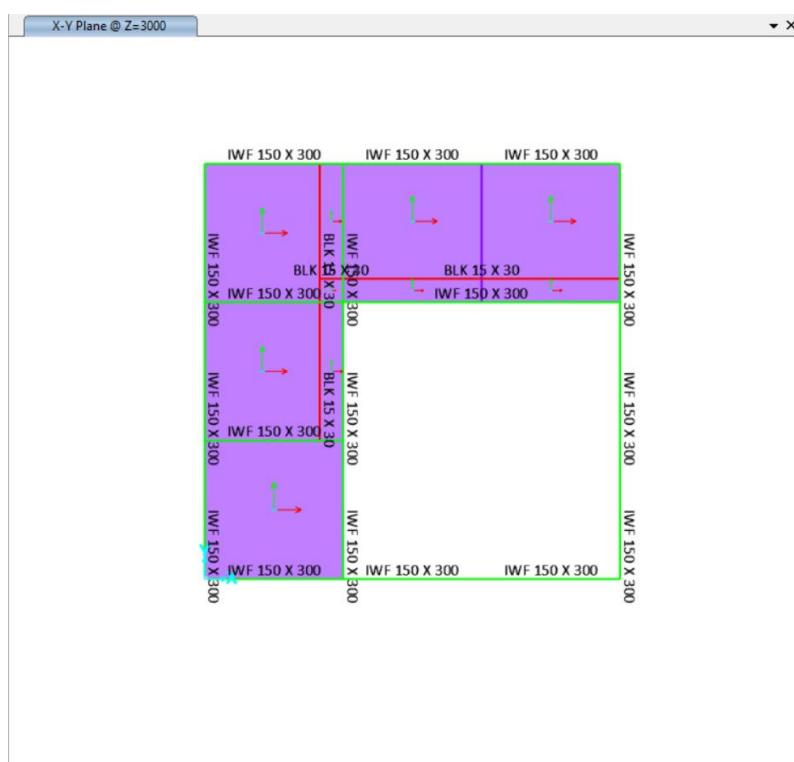
3. Model & Denah Struktur



Gambar 1. 13 Model Elemen Struktur



Gambar 1. 14 Denah Lantai 1

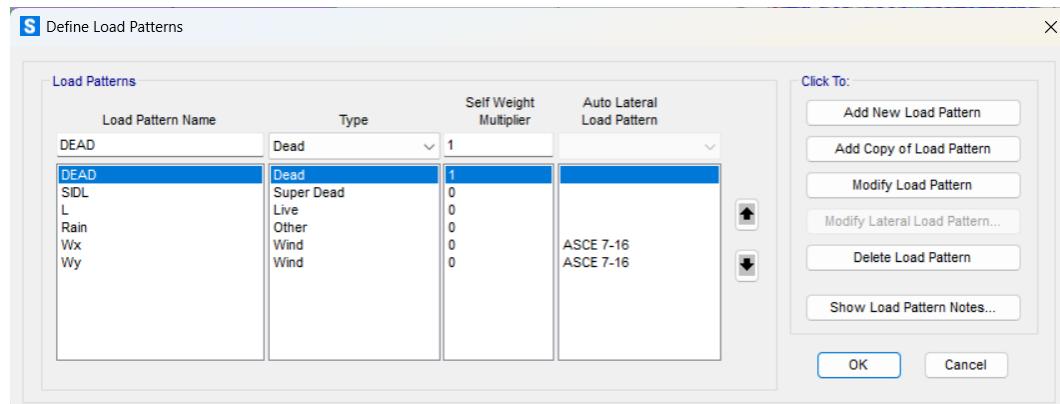


Gambar 1. 15 Denah Lantai 2

C. JENIS BEBAN

1. Beban Mati (Dead Load)

Berat sendiri elemen struktur (BS) yang terdiri dari kolom, balok, dan plat dihitung secara otomatis dalam SAP 2000 dengan memberikan faktor pengali berat sendiri (self weight multiplier) sama dengan 1, seperti pada Gambar berikut.



Gambar 1. 16 Faktor Pengali berat sendiri elemen struktur

Beban mati tambahan (MATI) yang bukan merupakan elemen struktur seperti finishing lantai, dinding, partisi, dll., dihitung berdasarkan berat satuan (specific gravity) menurut Tata Cara Perencanaan Pembebatan untuk Rumah dan Gedung (SNI 03-1727-1989-F) sebagai berikut :

No	Konstruksi	Berat	Satuan
1	Beton bertulang	2400	Kg/m ³
2	Beton	2200	Kg/m ³
3	Baja	7850	Kg/m ³
4	Pasangan Bata Merah	1700	Kg/m ³
5	Cladding metal sheet + rangka	0.20	Kg/m ³
6	Pasangan batu kali	2200	Kg/m ³
7	Finishing lantai (tegel)	2200	Kg/m ³
8	Marmer, granit per cm tebal	0.24	Kg/m ³
9	Langit-langit + pengantung	0.20	Kg/m ³
10	Kerikil	1800	Kg/m ³
11	Pasir	1400	Kg/m ³
12	Air	1000	Kg/m ³
13	Kayu	1000	Kg/m ³
14	Aspal	1400	kN/m ³
15	Instalasi plumbing (ME)	0.25	kN/m ²

2. Beban mati pelat lantai

Berat sendiri plat lantai dihitung secara otomatis dalam Program SAP 2000 karena merupakan elemen struktur slab, sehingga beban mati pada lantai bangunan adalah sebagai berikut :

Beban Mati Pelat Lantai Basement

Beban finishing spesi tebal 5 cm = 0,63 kN/m²

Berat finishing lantai tebal 1 cm = 0,22 kN/m²

Berat Plafond + Rangka = 0,20 kN/m²

Berat instalasi ME = 0,30 kN/m²

Jumlah Beban mati = 1,35 kN/m²

3. Beban Hidup (Live Load)

Beban hidup (HIDUP) yang bekerja pada lantai bangunan tergantung dari fungsi ruang yang digunakan. Besarnya beban hidup lantai bangunan menurut Tata Cara Perencanaan Pembebaan untuk Rumah dan Gedung (SNI 03-1727-1989-F), adalah sebagai berikut :

No	Lantai bangunan	Beban hidup	Satuan
1	Ruang kantor, ruang kerja, ruang staf	2.50	kN/m ²
2	Hall, corridor, balcony	3.00	kN/m ²
3	Ruang arsip, SDB (<i>Save Deposit Bank</i>)	6.00	kN/m ²
4	Tangga dan bordes	4.00	kN/m ²
5	Atap bangunan	1.00	kN/m ²

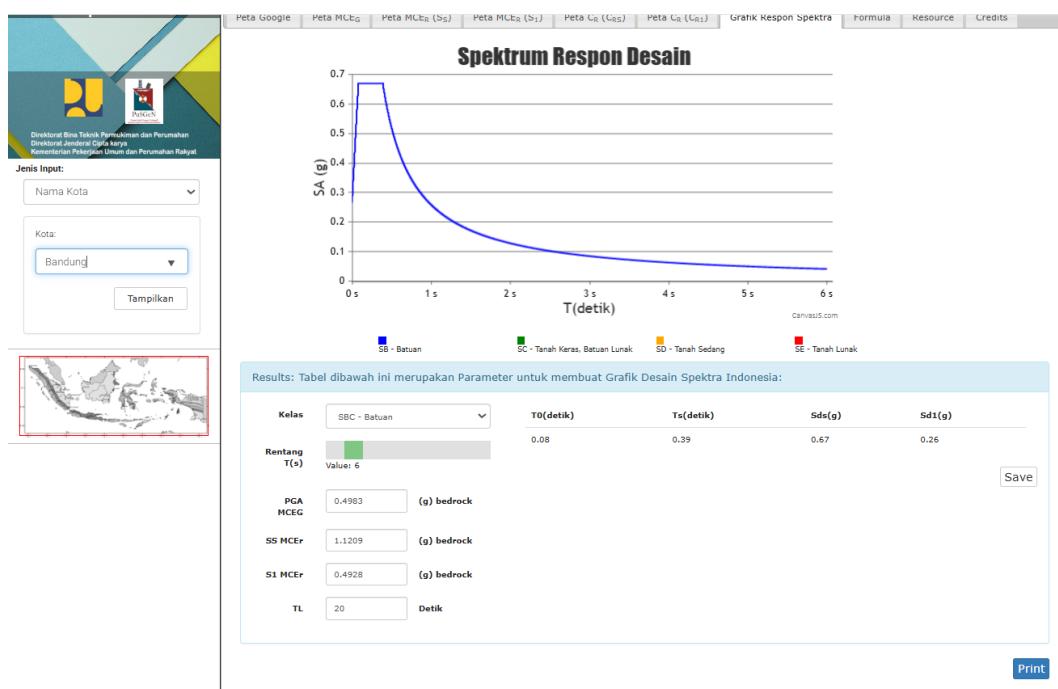
Beban hidup pada lantai di-*input* sebagai *shell/area load* (uniform) yang didistribusikan secara otomatis ke balok lantai sebagai *frame/line load*.

Beban hidup pada balok berupa *frame/line load* yang ditimbulkan oleh reaksi tangga akibat beban hidup yang besarnya = 17,64 kN/m.

4. Beban gempa (*Earthquake*)

Beban gempa dihitung berdasarkan Tatacara Perencanaan Ketahanan Gempa untuk Bangunan Gedung (SNI 03-1726-2002) dengan 3 metode yaitu cara static ekivalen, cara dinamik dengan Spectrum Respons Analysis dan cara dinamik dengan Time History Analysis. Dari hasil analisis ketiga cara tersebut diambil kondisi yang memberikan nilai gaya/momen terbesar sebagai dasar perencanaan.

Dalam analisis struktur terhadap beban gempa, massa bangunan sangat menentukan besarnya gaya inersia akibat gempa. Dalam analisis modal (*modal analysis*) untuk penentuan waktu getar alami / fundamental struktur, mode shape dan analisis dinamik dengan *Spectrum Respons* maupun *Time History*, maka massa tambahan yang di-input pada SAP 2000 meliputi massa akibat beban mati tambahan dan beban hidup yang direduksi dengan faktor reduksi 0,5 seperti Gambar 1.22. Dalam hal ini massa akibat berat sendiri elemen struktur (kolom, balok, dan plat) sudah dihitung secara otomatis karena faktor pengali berat sendiri (self weight multiplier) pada Static Load Case untuk BS adalah = 1.



Gambar 1. 17 Respon Spektrum Kota Bandung

Pusat massa lantai tingkat yang merupakan titik tangkap beban statik ekuivalen pada masingmasing lantai diafragma.

D. METODE ANALISIS STRUKTUR TERHADAP GEMPA

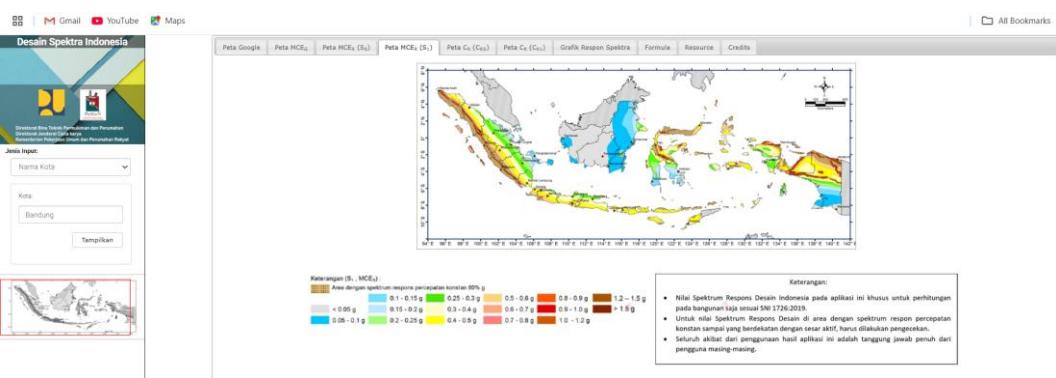
1. Metode Statik Ekuivalen

Gaya geser dasar nominal pada struktur akibat gempa menurut Tata Cara Perencanaan Ketahanan Gempa untuk Bangunan Gedung (SNI 03-1726-2002), dihitung dengan rumus sebagai berikut: $V = C$

Dengan, C = nilai faktor response gempa, yang ditentukan berdasarkan wilayah gempa, kondisi tanah dan waktu getar alami (T).

Wilayah gempa : zone 5 (lihat Gambar 1.23) untuk lokasi bangunan di Bandung.

Kondisi tanah : sedang.



Gambar 1. 18 Zone gempa di Indonesia

Waktu getar alami dapat didekati dengan rumus Rayleigh $T_1 = 6,3 \sqrt{\frac{\sum W_i d_i^2}{g \sum F_i}}$

$$\text{Dengan, } F = \frac{W_i z_i V}{\sum W_i z_i i}$$

F_i = gaya horizontal pada masing – masing taraf lantai.

W_i = berat lantai tingkat ke- i , termasuk beban hidup yang direduksi.

z_i = ketinggian lantai tingkat ke- i diukur dari taraf penjepitan lateral.

d_i = simpangan horizontal lantai tingkat ke- i

g = percepatan gravitasi = $9,81 \text{ m/det}^2$

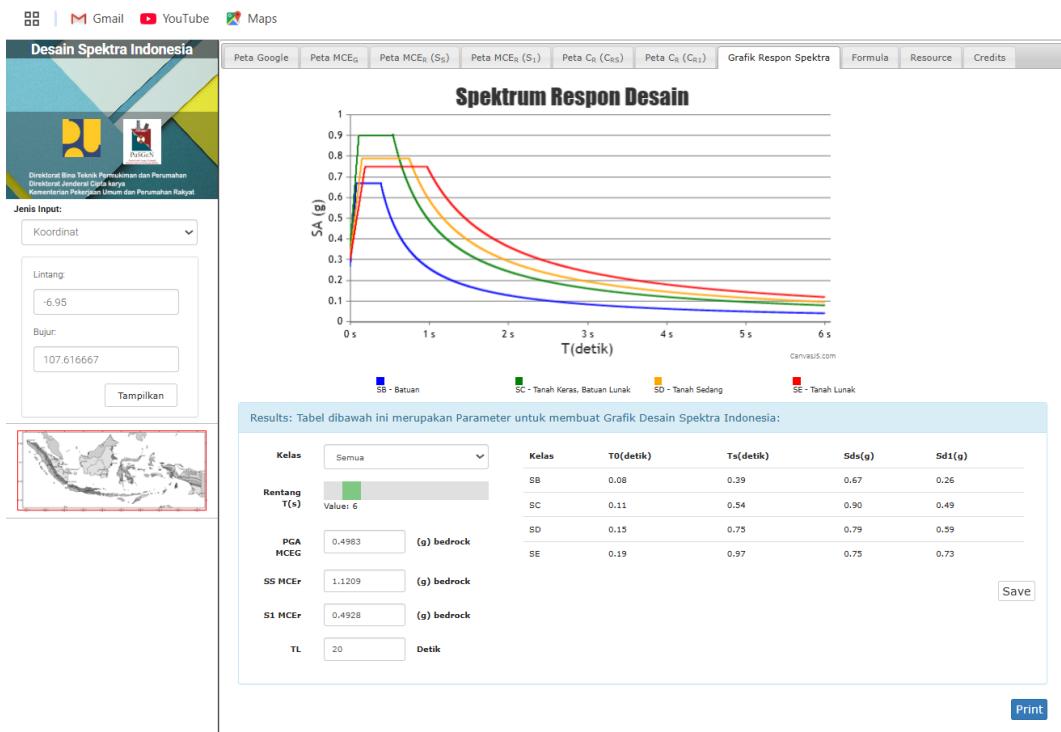
Untuk menghindari penggunaan struktur yang terlalu fleksibel, maka perlu dilakukan kontrol terhadap waktu getar yang diperoleh.

Syarat yang harus dipenuhi : $T < \xi \cdot n$ dengan, $n =$ jumlah tingkat = 3. Untuk wilayah gempa 5, maka nilai $\xi = 0,15$.

Batas maksimum waktu getar = $\xi \cdot n = 0,96$ sec.

Untuk mode 1 dengan $T = 0,77$ sec $< \xi \cdot n = 0,96$ sec (OK), jadi fleksibilitas struktur memenuhi ketentuan SNI-03-1726-2002.

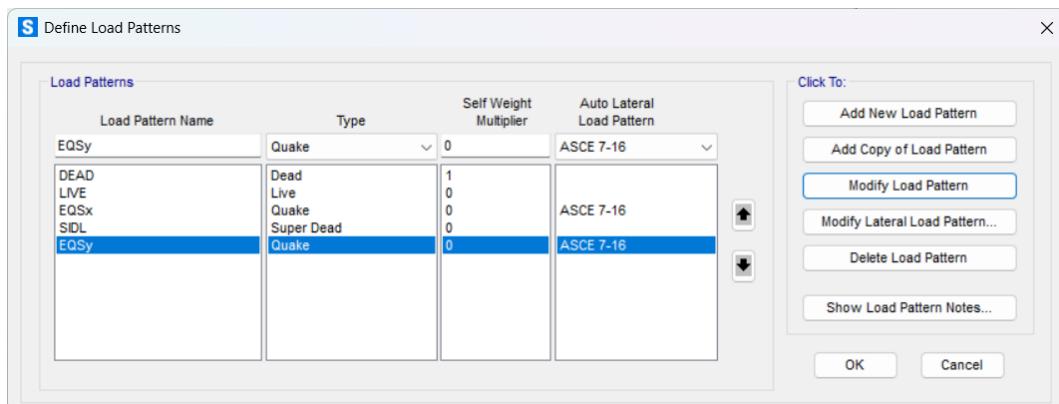
Kurva respons spectrum gempa rencana untuk wilayah gempa zone-5 dengan kondisi tanah sedang menurut SNI-03-1726-2002 adalah seperti pada Gambar 1.24.



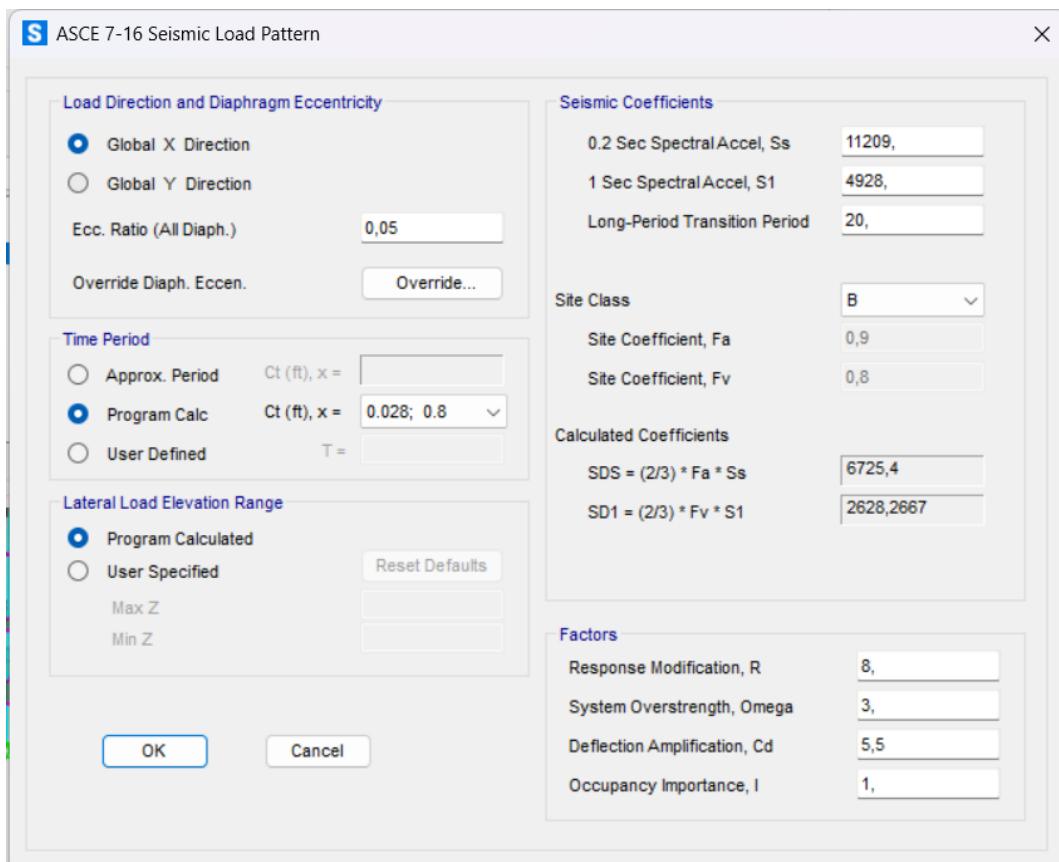
Gambar 1. 19 Respon Spektrum gempa rencana

Dalam analisis gempa statik ekuivalen harus dilakukan dengan meninjau secara bersamaan 100% gempa arah X dan 30% gempa arah Y, dan sebaliknya.

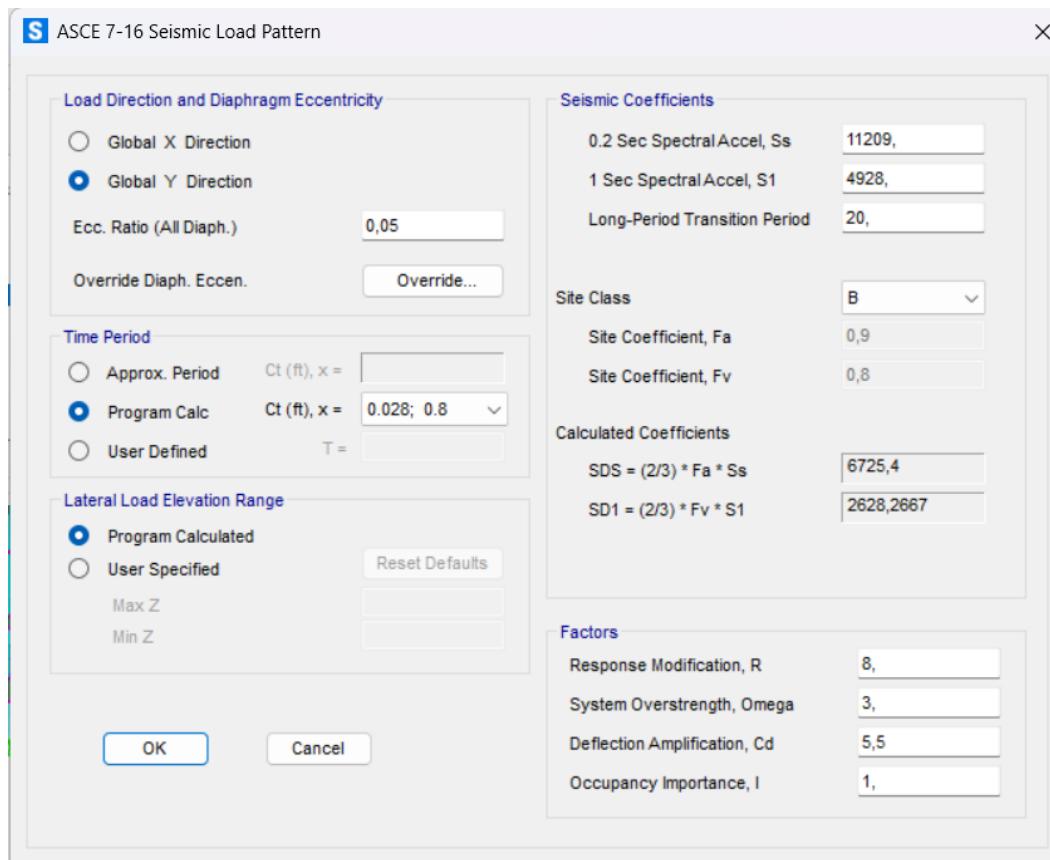
Untuk memperhitungkan puntiran gedung akibat eksentrisitas pusat massa terhadap pusat rotasi masingmasing lantai tingkat, maka nilai eksentrisitas arah X dan Y tersebut di-input kedalam SAP 2000 seperti Gambar 1.25



Gambar 1. 20 Input arah X – Y terhadap pusat rotasi



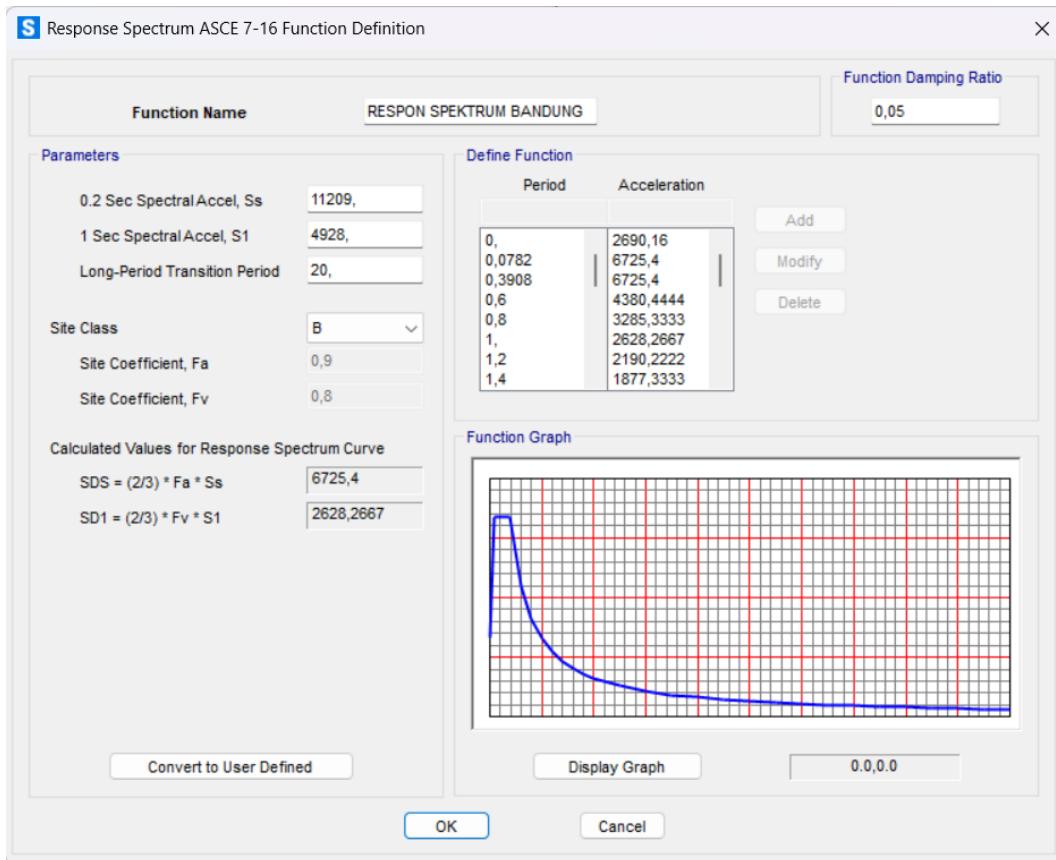
Gambar 1. 21 Input Nilai eksentrisitas pusat massa arah X terhadap pusat rotasi



Gambar 1. 22 Input Nilai eksentrisitas pusat massa arah Y terhadap pusat rotasi

2. Metode Analisis *Response Spectrum*

Besar beban gempa ditentukan oleh percepatan gempa rencana dan massa total struktur. Massa total struktur terdiri dari berat sendiri elemen struktur (BS), beban mati (MATI) dan beban hidup (HIDUP) yang dikalikan dengan faktor reduksi 0,5. Percepatan gempa diambil dari data zone 5 Peta Wilayah Gempa Indonesia menurut Tatacara Perencanaan Ketahanan Gempa untuk Bangunan Gedung (SNI 03-17262002). Input data kurva spectrum gempa rencana ke dalam SAP 2000 seperti Gambar 1.28.



Gambar 1. 23 Input data kurva spektrum gempa rencana

Nilai spectrum respons tersebut harus dikalikan dengan suatu factor skala (*scale factor*) yang besarnya = $g \times I/R$ dengan g = percepatan gravitasi ($g = 981 \text{ cm/det}^2$).

$$\text{Scale factor} = 9,81 \times 1 / 4,8 = 2,044.$$

Analisis dinamik dilakukan dengan metode superposisi spectrum response. dengan mengambil response maksimum dari 4 arah gempa, yaitu 0, 45, 90, dan 135 derajat. Nilai redaman untuk struktur beton diambil, Damping = 0,05.

Digunakan number eigen NE = 3 dengan mass participation factor $\geq 90\%$ dengan kombinasi dinamis (modal combination) CQC dan *directional combination* SRSS.

Karena hasil dari analisis spectrum response selalu bersifat positif (hasil akar), maka perlu faktor +1 dan -1 untuk mengkombinasikan dengan response statik.

3. Metode Analisis Dinamik Time History

Analisis dinamik linier riwayat waktu (time history) sangat cocok digunakan untuk analisis struktur yang tidak beraturan terhadap pengaruh gempa rencana. Mengingat gerakan tanah akibat gempa di suatu lokasi sulit diperkirakan dengan tepat, maka sebagai input gempa dapat didekati dengan gerakan tanah yang disimulasikan. Dalam analisis ini redaman struktur yang harus diperhitungkan dapat dianggap 5% dari redaman kritisnya Faktor skala yang digunakan = $g \times I/R$ dengan g = percepatan gravitasi ($g = 981 \text{ cm/det}^2$). Scale factor = $9,81 \times 1 / 4,8 = 2,044$ Untuk memasukkan beban gempa Time History ke dalam SAP 2000 maka harus didefinisikan terlebih dahulu ke dalam Time History Case seperti terlihat pada Gambar 1.34. Mengingat akselerogram tersebut terjadi selama 10 detik, maka dengan interval waktu 0,1 detik, jumlah output step-nya menjadi = $10/0,1 = 100$.

E. KOMBINASI PEMBEBANAN

Kombinasi Pembebanan SNI 2847 : 2019 Pasal 5.3.1 :

Grup Kombinasi 1

Komb. 1 = 1.4 D + 1.4 SDL

Grup Kombinasi 2

Komb. 2 = 1.2 D + 1.2 SDL +0.5 Lr

Komb. 3 = 1.2 D + 1.2 SDL +0.5 R

Grup Kombinasi 3

Komb. 4 = 1.2 D + 1.2 SDL +1.6 Lr

Komb. 5 = 1.2 D + 1.2 SDL +1.6 R

Komb. 6 = 1.2 D + 1.2 SDL +1.6 Lr +0.5Wx

Komb. 7 = 1.2 D + 1.2 SDL +1.6 Lr +0.5Wy

Komb. 8 = 1.2 D + 1.2 SDL +1.6 R +0.5Wx

Komb. 9 = 1.2 D + 1.2 SDL +1.6 R +0.5Wy

Grup Kombinasi 4

Komb. 10 = 1.2 D + 1.2 SDL +0.5 Lr +1Wx

Komb. 11 = 1.2 D + 1.2 SDL +0.5 Lr +1Wy

Komb. 12 = 1.2 D + 1.2 SDL +0.5 R +1Wx

Komb. 13 = 1.2 D + 1.2 SDL +0.5 R +1Wy

Grup Kombinasi 5

Komb. 14 = **1.37 D + 1.37 SDL + 1 EDx + 0.3 Edy**

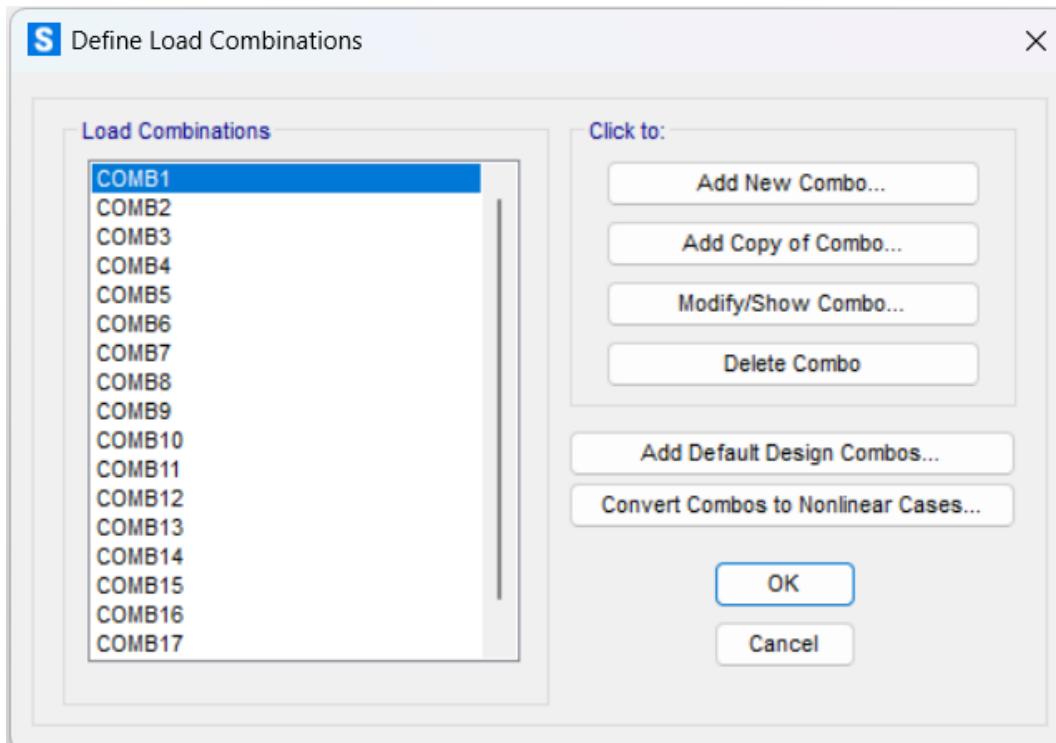
Komb. 15 = **1.37 D + 1.37 SDL + 1 EDx - 0.3 Edy**

Komb. 16 = **1.37 D + 1.37 SDL - 1 EDx + 0.3 Edy**

Komb. 17 = **1.37 D + 1.37 SDL - 1 EDx - 0.3 Edy**

Komb. 18 = $1.37 D + 1.37 SDL + 1 EDy + 0.3 Edx$

Input masing – masing kombinasi beban seperti Gambar berikut:



Gambar 1. 24 Input Beban Kombinasi

Untuk kombinasi pembebanan gempa dengan metode statik ekuivalen, menurut Tatacara Perencanaan Ketahanan Gempa untuk Bangunan Gedung (SNI 03-1726-2002) harus dilakukan dengan meninjau secara bersamaan 100% gempa arah X (E x) dan 30% gempa arah Y (E y), dan sebaliknya.

F. ANALISIS

1. Parameter Perencanaan Konstruksi Beton

Sebelum dilakukan analisis struktur, perlu dilakukan penyesuaian parameter perencanaan konstruksi beton menurut American Concrete Institute (ACI 318-19) terhadap Tata Cara Perhitungan Struktur Beton Untuk Bangunan Gedung (SNI 03-2847-1992). Penyesuaian dilakukan dengan mengubah ketentuan (*Options*) untuk perencanaan konstruksi beton (*Concrete Frame Design*).

Faktor reduksi kekuatan yang digunakan untuk perencanaan konstruksi beton untuk lentur dan tarik diambil 0,8 dan untuk geser diambil 0,75.

2. Asumsi yang digunakan dalam analisis

Analisis struktur dilakukan dengan model diafragma lantai kaku baik untuk analisis statik maupun dinamik. Analisis dinamik (Modal Analysis) dilakukan dengan metode Eigenvectors dengan mengambil jumlah mode = 12. Deformasi struktur kecil dan material isotropic, sehingga digunakan analisis linier dengan metode matrik kekakuan langsung (direct stiffness matriks).

3. Kesimpulan dan Saran

Dari hasil analisis Gedung Showroom maka disimpulkan sebagai berikut :

1. Struktur Gedung kuat menahan beban sesuai dengan rencana pembebanan; dan
2. Direkomendasikan untuk tetap memeriksa secara berkala bangunan Showroom.



Prepared by
Computers and Structures, Inc.

Model Name: GUDANG.sdb

5 June 2025

Table: Program Control, Part 1 of 2

Table: Program Control, Part 1 of 2

ProgramName	Version	ProgLevel	LicenseNum	LicenseOS	LicenseSC	LicenseHT	CurrUnits
SAP2000	22.0.0	Ultimate	0	No	No	No	KN, m, C

Table: Program Control, Part 2 of 2

Table: Program Control, Part 2 of 2

SteelCode	ConcCode	AlumCode	ColdCode	RegenHinge
AISC 360-10	ACI 318-14	AA-ASD 2000	AISI-ASD96	Yes

Table: Active Degrees of Freedom

Table: Active Degrees of Freedom

UX	UY	UZ	RX	RY	RZ
Yes	Yes	Yes	Yes	Yes	Yes

Table: Analysis Options

Table: Analysis Options

Solver	SolverProc	Force32Bit	StiffCase	GeomMod	HingeOpt
Advanced	Auto	No	None	None	In Elements

Table: Coordinate Systems

Table: Coordinate Systems

Name	Type	X m	Y m	Z m	AboutZ Degrees	AboutY Degrees	AboutX Degrees
GLOBAL	Cartesian	0,	0,	0,	0,	0,	0,

Table: Grid Lines, Part 1 of 2

Table: Grid Lines, Part 1 of 2

CoordSys	AxisDir	GridID	XXYZCoord m	LineType	LineColor	Visible	BubbleLoc
GLOBAL	X	A	0,	Primary	Gray8Dark	Yes	End
GLOBAL	X	B	5,9	Primary	Gray8Dark	Yes	End
GLOBAL	X	C	11,8	Primary	Gray8Dark	Yes	End
GLOBAL	X	D	17,7	Primary	Gray8Dark	Yes	End
GLOBAL	X	E	23,6	Primary	Gray8Dark	Yes	End
GLOBAL	X	F	29,5	Primary	Gray8Dark	Yes	End
GLOBAL	X	G	35,4	Primary	Gray8Dark	Yes	End
GLOBAL	Y	1	0,	Primary	Gray8Dark	Yes	Start
GLOBAL	Y	2	5,9	Primary	Gray8Dark	Yes	Start
GLOBAL	Y	3	11,8	Primary	Gray8Dark	Yes	Start

Table: Grid Lines, Part 1 of 2

CoordSys	AxisDir	GridID	XXYZCoord m	LineType	LineColor	Visible	BubbleLoc
GLOBAL	Y	4	17,7	Primary	Gray8Dark	Yes	Start
GLOBAL	Y	5	23,6	Primary	Gray8Dark	Yes	Start
GLOBAL	Y	6	29,5	Primary	Gray8Dark	Yes	Start
GLOBAL	Y	7	35,4	Primary	Gray8Dark	Yes	Start
GLOBAL	Y	8	41,3	Primary	Gray8Dark	Yes	Start
GLOBAL	Y	9	47,2	Primary	Gray8Dark	Yes	Start
GLOBAL	Y	10	53,1	Primary	Gray8Dark	Yes	Start
GLOBAL	Z	Z1	0,	Primary	Gray8Dark	Yes	End
GLOBAL	Z	Z2	3,	Primary	Gray8Dark	Yes	End
GLOBAL	Z	Z3	6,4	Primary	Gray8Dark	Yes	End
GLOBAL	Z	Z4	7,	Primary	Gray8Dark	Yes	End
GLOBAL	Z	Z5	11,	Primary	Gray8Dark	Yes	End

Table: Grid Lines, Part 2 of 2

Table: Material Properties 03a - Steel Data, Part 2 of 2

Table: Material Properties 03a - Steel
Data, Part 2 of 2

Material	SRUp	FinalSlope
A992Fy50	0,17	-0,1
SS400	0,17	-0,1

Table: Material Properties 03b - Concrete Data, Part 1 of 2

Table: Material Properties 03b - Concrete Data, Part 1 of 2

Material	Fc KN/m ²	eFc KN/m ²	LtWtConc	SSCurveOpt	SSHysType	SFc	SCap	FinalSlope
4000Psi	27579,03	27579,03	No	Mander	Takeda	0,002219	0,005	-0,1
MUTU FC'	30000, 30	30000,	No	Mander	Takeda	0,002	0,005	-0,1

Table: Material Properties 03b - Concrete Data, Part 2 of 2

Table: Material Properties 03b - Concrete
Data, Part 2 of 2

Material	FAngle Degrees	DAngle Degrees
4000Psi	0,	0,
MUTU FC'	0, 30	0,

Table: Material Properties 03e - Rebar Data, Part 1 of 2

Table: Material Properties 03e - Rebar Data, Part 1 of 2

Material	Fy KN/m ²	Fu KN/m ²	EffFy KN/m ²	EffFu KN/m ²	SSCurveOpt	SSHysType	SHard	SCap
BJTS 28	280000,	350000,	280000,	350000,	Simple	Kinematic	0,01	0,09
BJTS 40	390000,	560000,	390000,	560000,	Simple	Kinematic	0,01	0,09

Table: Material Properties 03e - Rebar Data, Part 2 of 2

Table: Material Properties 03e - Rebar
Data, Part 2 of 2

Material	FinalSlope	UseCTDef
BJTS 28	-0,1	No
BJTS 40	-0,1	No

Table: Frame Section Properties 01 - General, Part 1 of 6

Table: Frame Section Properties 01 - General, Part 1 of 6

SectionName	Material	Shape	t3 m	t2 m	tf m	tw m
BLK 15 X 30	MUTU FC' 30	Rectangular	0,3	0,15		
C150	SS400	Cold Formed C	0,15	0,05		0,0023
IWF 150 X 300	SS400	I/Wide Flange	0,3	0,15	0,009	0,0065
KP	MUTU FC' 30	Rectangular	0,15	0,15		

Table: Frame Section Properties 01 - General, Part 1 of 6

SectionName	Material	Shape	t3 m	t2 m	tf m	tw m
RAFTER 150 X 300	SS400	I/Wide Flange	0,3	0,15	0,009	0,0065
WIND BRACE	BJTS 40	Circle	0,016			

Table: Frame Section Properties 01 - General, Part 2 of 6**Table: Frame Section Properties 01 - General, Part 2 of 6**

SectionName	t2b m	tfb m	Radius m	LipDepth m	Area m ²	TorsConst m ⁴	I33 m ⁴
BLK 15 X 30					0,045	0,000232	0,000338
C150			0,006	0,02	0,000618	1,089E-09	2,018E-06
IWF 150 X 300	0,15	0,009			0,004533	9,558E-08	0,000069
KP					0,0225	0,000071	0,000042
RAFTER 150 X 300	0,15	0,009			0,004533	9,558E-08	0,000069
WIND BRACE					0,000201	6,434E-09	3,217E-09

Table: Frame Section Properties 01 - General, Part 3 of 6**Table: Frame Section Properties 01 - General, Part 3 of 6**

SectionName	I22 m ⁴	I23 m ⁴	AS2 m ²	AS3 m ²	S33 m ³	S22 m ³	Z33 m ³
BLK 15 X 30	0,000084	0,	0,0375	0,0375	0,00225	0,001125	0,003375
C150	2,076E-07	0,	0,000307	0,000154	0,000027	5,972E-06	0,000027
IWF 150 X 300	5,069E-06	0,	0,00195	0,00225	0,000462	0,000068	0,000522
KP	0,000042	0,	0,01875	0,01875	0,000563	0,000563	0,000844
RAFTER 150 X 300	5,069E-06	0,	0,00195	0,00225	0,000462	0,000068	0,000522
WIND BRACE	3,217E-09	0,	0,000181	0,000181	4,021E-07	4,021E-07	6,827E-07

Table: Frame Section Properties 01 - General, Part 4 of 6**Table: Frame Section Properties 01 - General, Part 4 of 6**

SectionName	Z22 m ³	R33 m	R22 m	ConcCol	ConcBeam	Color	TotalWt KN
BLK 15 X 30	0,001688	0,086603	0,043301	No	Yes	Red	104,112
C150	5,972E-06	0,057166	0,018336	No	No	Magenta	7465,766
IWF 150 X 300	0,000104	0,123667	0,03344	No	No	Green	16628,427
KP	0,000844	0,043301	0,043301	Yes	No	16777088	25,272
RAFTER 150 X 300	0,000104	0,123667	0,03344	No	No	Orange	15626,439
WIND BRACE	6,827E-07	0,004	0,004	No	No	Blue	10,681

Table: Frame Section Properties 01 - General, Part 5 of 6**Table: Frame Section Properties 01 - General, Part 5 of 6**

SectionName	TotalMass KN-s/m	FromFile	AMod	A2Mod	A3Mod	JMod	I2Mod
BLK 15 X 30	10,62	No	1,	1,	1,	1,	0,35
C150	761,3	No	1,	1,	1,	1,	1,
IWF 150 X 300	1695,63	No	1,	1,	1,	1,	1,
KP	2,58	No	1,	1,	1,	1,	0,7
RAFTER 150 X 300	1593,45	No	1,	1,	1,	1,	1,
WIND BRACE	1,09	No	1,	1,	1,	1,	1,

Table: Frame Section Properties 01 - General, Part 6 of 6

Table: Frame Section Properties 01 - General, Part 6 of 6

SectionName	I3Mod	MMod	WMod	GUID	Notes
BLK 15 X 30	0,35	1,	1,		Added 05/06/2025 12:35:50
C150	1,	1,	1,		Added 05/06/2025 12:40:11
IWF 150 X 300	1,	1,	1,		Added 05/06/2025 12:33:01
KP	0,7	1,	1,		Added 05/06/2025 12:34:21
RAFTER 150 X 300	1,	1,	1,		Added 05/06/2025 14:00:57
WIND BRACE	1,	1,	1,		Added 05/06/2025 12:48:10

Table: Frame Section Properties 02 - Concrete Column, Part 1 of 2

Table: Frame Section Properties 02 - Concrete Column, Part 1 of 2

SectionName	RebarMatL	RebarMatC	ReinfConfig	LatReinf	Cover	NumBars3D ir	NumBars2D ir	BarSizeL
KP	BJTS 28	BJTS 28	Rectangular	Ties	0,02	2	2	10d

Table: Frame Section Properties 02 - Concrete Column, Part 2 of 2

Table: Frame Section Properties 02 - Concrete Column, Part 2 of 2

SectionName	BarSizeC	SpacingC	NumCBars2	NumCBars3	ReinfType
KP	10d	0,15	2	2	Design

Table: Frame Section Properties 03 - Concrete Beam

Table: Frame Section Properties 03 - Concrete Beam

SectionName	RebarMatL	RebarMatC	TopCover	BotCover	TopLeftArea	TopRghtAre a	BotLeftArea	BotRghtAre a
BLK 15 X 30	BJTS 28	BJTS 28	0,06	0,06	0,	0,	0,	0,

Table: Frame Section Properties 13 - Time Dependent

Table: Frame Section Properties 13 - Time Dependent

SectionName	TypeSize	AutoValSize m	AutoSFSize	UserValSize m
BLK 15 X 30	Auto	0,1	1,	
IWF 150 X 300	Auto	0,01022	1,	
KP	Auto	0,075	1,	
RAFTER 150 X 300	Auto	0,01022	1,	
WIND BRACE	Auto	0,008	1,	

Table: Area Section Properties, Part 1 of 4

Table: Area Section Properties, Part 1 of 4

Section	Material	MatAngle Degrees	AreaType	Type	DrillDOF	Thickness m	BendThick m	Arc Degrees
PELAT LANTAI	MUTU FC' 30	0,	Shell	Shell-Thin	Yes	0,12	0,12	

Table: Area Section Properties, Part 2 of 4

Table: Area Section Properties, Part 2 of 4

Section	InComp	CoordSys	Color	TotalWt KN	TotalMass KN-s2/m	F11Mod	F22Mod
PELAT LANTAI			16711808	501,264	51,11	0,25	0,25

Table: Area Section Properties, Part 3 of 4

Table: Area Section Properties, Part 3 of 4

Section	F12Mod	M11Mod	M22Mod	M12Mod	V13Mod	V23Mod	MMod	WMod
PELAT LANTAI	0,25	0,25	0,25	0,25	1,	1,	1,	1,

Table: Area Section Properties, Part 4 of 4

Table: Area Section Properties, Part 4 of 4

Section	GUID	Notes
PELAT LANTAI		Added 05/06/2025 12:36:56

Table: Solid Property Definitions, Part 1 of 2

Table: Solid Property Definitions, Part 1 of 2

SolidProp	Material	MatAngleA Degrees	MatAngleB Degrees	MatAngleC Degrees	InComp	Color
Solid1	4000Psi	0,	0,	0,	Yes	Yellow

Table: Solid Property Definitions, Part 2 of 2

Table: Solid Property Definitions, Part 2 of 2

SolidProp	GUID	Notes	TotalWt KN	TotalMass KN-s2/m
Solid1			0,	0,

Table: Rebar Sizes

Table: Rebar Sizes

RebarID	Area m2	Diameter m
#2	0,000032	0,00635
#3	0,000071	0,009525

Table: Rebar Sizes

RebarID	Area m ²	Diameter m
#4	0,000129	0,0127
#5	0,0002	0,015875
#6	0,000284	0,01905
#7	0,000387	0,022225
#8	0,00051	0,0254
#9	0,000645	0,028651
#10	0,000819	0,032258
#11	0,001006	0,035814
#14	0,001452	0,043002
#18	0,002581	0,057328
10M	0,0001	0,0113
15M	0,0002	0,016
20M	0,0003	0,0195
25M	0,0005	0,0252
30M	0,0007	0,0299
35M	0,001	0,0357
45M	0,0015	0,0437
55M	0,0025	0,0564
6d	0,000028	0,006
8d	0,00005	0,008
10d	0,000079	0,01
12d	0,000113	0,012
14d	0,000154	0,014
16d	0,000201	0,016
20d	0,000314	0,02
25d	0,000491	0,025
26d	0,000531	0,026
28d	0,000616	0,028
N12	0,000113	0,012
N16	0,000201	0,016
N20	0,000314	0,02
N24	0,000452	0,024
N28	0,000616	0,028
N32	0,000804	0,032
N36	0,00102	0,036

Table: Load Pattern Definitions**Table: Load Pattern Definitions**

LoadPat	DesignType	SelfWtMult	AutoLoad	GUID	Notes
DEAD	Dead	1,		4b17f281-6f21-481e-820 3-fefed8946ef6	
SIDL	Super Dead	0,		d6f929b0-f982-4b7f-a24a -d7edd6cf741d	Added 05/06/2025 18:16:59
L	Live	0,		7bb2584d-883f-491c-b6a c-2e8d6a72a16e	Added 05/06/2025 18:17:48
Rain	Other	0,		b41728c2-7021-4c6b-b1 d6-89b3011332c8	Added 05/06/2025 18:18:07
Wx	Wind	0,	ASCE 7-16	73cf0115-ad0d-436a-918 1-4fbb8df5327e	Added 05/06/2025 18:33:01
Wy	Wind	0,	ASCE 7-16	73cf0115-ad0d-436a-918 1-4fbb8df5327e	Added 05/06/2025 18:36:31

Table: Auto Wind - ASCE 7-16, Part 1 of 2

Table: Auto Wind - ASCE 7-16, Part 1 of 2

LoadPat	ExposeFrom	UserZ	WindSpeed	Exposur e	I	Kzt	GustFactor
mph							
Wx	Areas	No	80,82	B	1,	1,	0,85
Wy	Areas	No	80,82	B	1,	1,	0,85

Table: Auto Wind - ASCE 7-16, Part 2 of 2

Table: Auto Wind - ASCE 7-16, Part 2 of 2

LoadPat	Kd	SolidRatio	ExpWidth
Wx	0,85		From diaphs
Wy	0,85		From diaphs

Table: Auto Wind Loads To Joints, Part 1 of 2

Table: Auto Wind Loads To Joints, Part 1 of 2

LoadPat	AutoLdType	JointElem	Joint	FX KN	FY KN	FZ KN	MX KN-m
Wx	ASCE 7-16	1	3	-1,897	0,	0,	0,
Wx	ASCE 7-16	1	3	-1,897	0,	0,	0,
Wx	ASCE 7-16	2	4	-1,21	-3,027E-16	5,354	0,
Wx	ASCE 7-16	2	4	-1,21	-3,027E-16	5,354	0,
Wx	ASCE 7-16	2	4	-1,897	0,	0,	0,
Wx	ASCE 7-16	2	4	-1,897	0,	0,	0,
Wx	ASCE 7-16	3	6	-2,055	0,	0,	0,
Wx	ASCE 7-16	3	6	-2,055	0,	0,	0,
Wx	ASCE 7-16	3	6	1,739	1,580E-16	7,696	0,
Wx	ASCE 7-16	3	6	1,739	1,580E-16	7,696	0,
Wx	ASCE 7-16	4	55	-1,897	0,	0,	0,
Wx	ASCE 7-16	4	55	-1,897	0,	0,	0,
Wx	ASCE 7-16	5	56	-1,21	-2,366E-16	5,354	0,
Wx	ASCE 7-16	5	56	-1,21	-3,027E-16	5,354	0,
Wx	ASCE 7-16	5	56	-1,897	0,	0,	0,
Wx	ASCE 7-16	5	56	-1,897	0,	0,	0,
Wx	ASCE 7-16	6	57	-1,819	0,	0,	0,
Wx	ASCE 7-16	6	57	-1,819	0,	0,	0,
Wx	ASCE 7-16	7	58	-2,055	0,	0,	0,
Wx	ASCE 7-16	7	58	-2,055	0,	0,	0,
Wx	ASCE 7-16	7	58	1,739	1,105E-16	7,696	0,
Wx	ASCE 7-16	7	58	1,739	1,580E-16	7,696	0,
Wx	ASCE 7-16	8	60	-1,897	0,	0,	0,
Wx	ASCE 7-16	8	60	-1,897	0,	0,	0,
Wx	ASCE 7-16	9	61	-1,21	-3,027E-16	5,354	0,
Wx	ASCE 7-16	9	61	-1,21	-2,366E-16	5,354	0,
Wx	ASCE 7-16	9	61	-1,897	0,	0,	0,
Wx	ASCE 7-16	9	61	-1,897	0,	0,	0,
Wx	ASCE 7-16	10	62	-1,819	0,	0,	0,
Wx	ASCE 7-16	10	62	-1,819	0,	0,	0,
Wx	ASCE 7-16	11	63	1,739	6,300E-17	7,696	0,
Wx	ASCE 7-16	11	63	1,739	1,105E-16	7,696	0,
Wx	ASCE 7-16	11	63	-2,055	0,	0,	0,

Table: Auto Wind Loads To Joints, Part 1 of 2

LoadPat	AutoLdType	JointElem	Joint	FX KN	FY KN	FZ KN	MX KN-m
Wx	ASCE 7-16	11	63	-2,055	0,	0,	0,
Wx	ASCE 7-16	12	65	-1,897	0,	0,	0,
Wx	ASCE 7-16	12	65	-1,897	0,	0,	0,
Wx	ASCE 7-16	13	66	-1,21	-3,027E-16	5,354	0,
Wx	ASCE 7-16	13	66	-1,21	-3,027E-16	5,354	0,
Wx	ASCE 7-16	13	66	-1,897	0,	0,	0,
Wx	ASCE 7-16	13	66	-1,897	0,	0,	0,
Wx	ASCE 7-16	14	67	-1,819	0,	0,	0,
Wx	ASCE 7-16	14	67	-1,819	0,	0,	0,
Wx	ASCE 7-16	15	68	1,739	1,580E-16	7,696	0,
Wx	ASCE 7-16	15	68	1,739	6,300E-17	7,696	0,
Wx	ASCE 7-16	15	68	-2,055	0,	0,	0,
Wx	ASCE 7-16	15	68	-2,055	0,	0,	0,
Wx	ASCE 7-16	16	70	-1,897	0,	0,	0,
Wx	ASCE 7-16	16	70	-1,897	0,	0,	0,
Wx	ASCE 7-16	17	71	-1,21	-2,696E-16	5,354	0,
Wx	ASCE 7-16	17	71	-1,21	-3,027E-16	5,354	0,
Wx	ASCE 7-16	17	71	-1,897	0,	0,	0,
Wx	ASCE 7-16	17	71	-1,897	0,	0,	0,
Wx	ASCE 7-16	18	72	-1,819	0,	0,	0,
Wx	ASCE 7-16	18	72	-1,819	0,	0,	0,
Wx	ASCE 7-16	19	73	-2,055	0,	0,	0,
Wx	ASCE 7-16	19	73	1,739	1,105E-16	7,696	0,
Wx	ASCE 7-16	19	73	-2,055	0,	0,	0,
Wx	ASCE 7-16	19	73	1,739	1,580E-16	7,696	0,
Wx	ASCE 7-16	20	76	-1,21	-2,696E-16	5,354	0,
Wx	ASCE 7-16	20	76	-1,21	-2,696E-16	5,354	0,
Wx	ASCE 7-16	20	76	-1,897	0,	0,	0,
Wx	ASCE 7-16	20	76	-1,897	0,	0,	0,
Wx	ASCE 7-16	21	77	-1,819	0,	0,	0,
Wx	ASCE 7-16	21	77	-1,819	0,	0,	0,
Wx	ASCE 7-16	22	78	-2,055	0,	0,	0,
Wx	ASCE 7-16	22	78	1,739	1,105E-16	7,696	0,
Wx	ASCE 7-16	22	78	-2,055	0,	0,	0,
Wx	ASCE 7-16	22	78	1,739	6,300E-17	7,696	0,
Wx	ASCE 7-16	23	81	-1,21	-2,696E-16	5,354	0,
Wx	ASCE 7-16	23	81	-1,21	-2,696E-16	5,354	0,
Wx	ASCE 7-16	23	81	-1,897	0,	0,	0,
Wx	ASCE 7-16	23	81	-1,897	0,	0,	0,
Wx	ASCE 7-16	24	82	-1,819	0,	0,	0,
Wx	ASCE 7-16	24	82	-1,819	0,	0,	0,
Wx	ASCE 7-16	25	83	-2,055	0,	0,	0,
Wx	ASCE 7-16	25	83	1,739	1,580E-16	7,696	0,
Wx	ASCE 7-16	25	83	1,739	6,300E-17	7,696	0,
Wx	ASCE 7-16	25	83	-2,055	0,	0,	0,
Wx	ASCE 7-16	26	86	-1,21	-3,027E-16	5,354	0,
Wx	ASCE 7-16	26	86	-1,897	0,	0,	0,
Wx	ASCE 7-16	26	86	-1,897	0,	0,	0,
Wx	ASCE 7-16	26	86	-1,21	-2,696E-16	5,354	0,
Wx	ASCE 7-16	27	87	-1,819	0,	0,	0,
Wx	ASCE 7-16	27	87	-1,819	0,	0,	0,
Wx	ASCE 7-16	28	88	1,739	1,580E-16	7,696	0,
Wx	ASCE 7-16	28	88	1,739	1,580E-16	7,696	0,
Wx	ASCE 7-16	28	88	-2,055	0,	0,	0,

Table: Auto Wind Loads To Joints, Part 1 of 2

LoadPat	AutoLdType	JointElem	Joint	FX KN	FY KN	FZ KN	MX KN-m
Wx	ASCE 7-16	28	88	-2,055	0,	0,	0,
Wx	ASCE 7-16	29	89	1,739	1,580E-16	7,696	0,
Wx	ASCE 7-16	29	89	-1,21	-3,027E-16	5,354	0,
Wx	ASCE 7-16	29	89	1,739	1,580E-16	7,696	0,
Wx	ASCE 7-16	29	89	-1,21	-2,696E-16	5,354	0,
Wx	ASCE 7-16	30	91	-1,897	0,	0,	0,
Wx	ASCE 7-16	30	91	-1,21	-3,027E-16	5,354	0,
Wx	ASCE 7-16	31	92	-1,819	0,	0,	0,
Wx	ASCE 7-16	32	93	1,739	1,580E-16	7,696	0,
Wx	ASCE 7-16	32	93	-2,055	0,	0,	0,
Wx	ASCE 7-16	33	94	-1,21	-3,027E-16	5,354	0,
Wx	ASCE 7-16	33	94	1,739	1,580E-16	7,696	0,
Wx	ASCE 7-16	34	118	-1,819	0,	0,	0,
Wx	ASCE 7-16	34	118	-1,819	0,	0,	0,
Wx	ASCE 7-16	35	218	-1,897	0,	0,	0,
Wx	ASCE 7-16	36	219	-1,21	-3,027E-16	5,354	0,
Wx	ASCE 7-16	36	219	-1,897	0,	0,	0,
Wx	ASCE 7-16	37	220	-2,055	0,	0,	0,
Wx	ASCE 7-16	37	220	1,739	1,580E-16	7,696	0,
Wx	ASCE 7-16	38	221	-1,21	-3,027E-16	5,354	0,
Wx	ASCE 7-16	38	221	1,739	1,580E-16	7,696	0,
Wx	ASCE 7-16	44	227	-1,819	0,	0,	0,
Wx	ASCE 7-16	62	301	-1,897	0,	0,	0,
Wx	ASCE 7-16	67	339	-1,897	0,	0,	0,
Wx	ASCE 7-16	67	339	-1,897	0,	0,	0,
Wx	ASCE 7-16	72	347	-1,897	0,	0,	0,
Wx	ASCE 7-16	72	347	-1,897	0,	0,	0,
Wx	ASCE 7-16	80	355	-1,897	0,	0,	0,
Wx	ASCE 7-16	80	355	-1,897	0,	0,	0,
Wx	ASCE 7-16	160	472	1,739	6,300E-17	7,696	0,
Wx	ASCE 7-16	160	472	-1,21	-2,696E-16	5,354	0,
Wx	ASCE 7-16	160	472	1,739	1,580E-16	7,696	0,
Wx	ASCE 7-16	160	472	-1,21	-2,696E-16	5,354	0,
Wx	ASCE 7-16	189	501	1,739	6,300E-17	7,696	0,
Wx	ASCE 7-16	189	501	-1,21	-2,696E-16	5,354	0,
Wx	ASCE 7-16	189	501	-1,21	-2,696E-16	5,354	0,
Wx	ASCE 7-16	189	501	1,739	1,105E-16	7,696	0,
Wx	ASCE 7-16	218	530	1,739	1,105E-16	7,696	0,
Wx	ASCE 7-16	218	530	1,739	1,580E-16	7,696	0,
Wx	ASCE 7-16	218	530	-1,21	-2,696E-16	5,354	0,
Wx	ASCE 7-16	218	530	-1,21	-3,027E-16	5,354	0,
Wx	ASCE 7-16	247	559	-1,21	-3,027E-16	5,354	0,
Wx	ASCE 7-16	247	559	1,739	6,300E-17	7,696	0,
Wx	ASCE 7-16	247	559	-1,21	-3,027E-16	5,354	0,
Wx	ASCE 7-16	247	559	1,739	1,580E-16	7,696	0,
Wx	ASCE 7-16	276	588	1,739	1,105E-16	7,696	0,
Wx	ASCE 7-16	276	588	-1,21	-2,366E-16	5,354	0,
Wx	ASCE 7-16	276	588	1,739	6,300E-17	7,696	0,
Wx	ASCE 7-16	276	588	-1,21	-3,027E-16	5,354	0,
Wx	ASCE 7-16	305	617	1,739	1,105E-16	7,696	0,
Wx	ASCE 7-16	305	617	1,739	1,580E-16	7,696	0,
Wx	ASCE 7-16	305	617	-1,21	-2,366E-16	5,354	0,
Wx	ASCE 7-16	305	617	-1,21	-3,027E-16	5,354	0,
Wx	ASCE 7-16	334	646	1,739	1,580E-16	7,696	0,

Table: Auto Wind Loads To Joints, Part 1 of 2

LoadPat	AutoLdType	JointElem	Joint	FX KN	FY KN	FZ KN	MX KN-m
Wx	ASCE 7-16	334	646	-1,21	-3,027E-16	5,354	0,
Wx	ASCE 7-16	334	646	-1,21	-3,027E-16	5,354	0,
Wx	ASCE 7-16	334	646	1,739	1,580E-16	7,696	0,
Wy	ASCE 7-16	1	3	-1,985	0,	0,	0,
Wy	ASCE 7-16	1	3	-1,985	0,	0,	0,
Wy	ASCE 7-16	2	4	-0,933	-2,333E-16	4,127	0,
Wy	ASCE 7-16	2	4	-0,933	-2,333E-16	4,127	0,
Wy	ASCE 7-16	2	4	-1,985	0,	0,	0,
Wy	ASCE 7-16	2	4	-1,985	0,	0,	0,
Wy	ASCE 7-16	3	6	1,985	0,	0,	0,
Wy	ASCE 7-16	3	6	1,985	0,	0,	0,
Wy	ASCE 7-16	3	6	1,739	1,580E-16	7,696	0,
Wy	ASCE 7-16	3	6	1,739	1,580E-16	7,696	0,
Wy	ASCE 7-16	4	55	-1,985	0,	0,	0,
Wy	ASCE 7-16	4	55	-1,985	0,	0,	0,
Wy	ASCE 7-16	5	56	-0,933	-1,824E-16	4,127	0,
Wy	ASCE 7-16	5	56	-0,933	-2,333E-16	4,127	0,
Wy	ASCE 7-16	5	56	-1,985	0,	0,	0,
Wy	ASCE 7-16	5	56	-1,985	0,	0,	0,
Wy	ASCE 7-16	6	57	1,985	0,	0,	0,
Wy	ASCE 7-16	6	57	1,985	0,	0,	0,
Wy	ASCE 7-16	7	58	1,985	0,	0,	0,
Wy	ASCE 7-16	7	58	1,985	0,	0,	0,
Wy	ASCE 7-16	7	58	1,739	1,105E-16	7,696	0,
Wy	ASCE 7-16	7	58	1,739	1,580E-16	7,696	0,
Wy	ASCE 7-16	8	60	-1,985	0,	0,	0,
Wy	ASCE 7-16	8	60	-1,985	0,	0,	0,
Wy	ASCE 7-16	9	61	-0,933	-2,333E-16	4,127	0,
Wy	ASCE 7-16	9	61	-0,933	-1,824E-16	4,127	0,
Wy	ASCE 7-16	9	61	-1,985	0,	0,	0,
Wy	ASCE 7-16	9	61	-1,985	0,	0,	0,
Wy	ASCE 7-16	10	62	1,985	0,	0,	0,
Wy	ASCE 7-16	10	62	1,985	0,	0,	0,
Wy	ASCE 7-16	11	63	1,739	6,300E-17	7,696	0,
Wy	ASCE 7-16	11	63	1,739	1,105E-16	7,696	0,
Wy	ASCE 7-16	11	63	1,985	0,	0,	0,
Wy	ASCE 7-16	11	63	1,985	0,	0,	0,
Wy	ASCE 7-16	12	65	-1,985	0,	0,	0,
Wy	ASCE 7-16	12	65	-1,985	0,	0,	0,
Wy	ASCE 7-16	13	66	-0,933	-2,333E-16	4,127	0,
Wy	ASCE 7-16	13	66	-0,933	-2,333E-16	4,127	0,
Wy	ASCE 7-16	13	66	-1,985	0,	0,	0,
Wy	ASCE 7-16	13	66	-1,985	0,	0,	0,
Wy	ASCE 7-16	14	67	1,985	0,	0,	0,
Wy	ASCE 7-16	14	67	1,985	0,	0,	0,
Wy	ASCE 7-16	15	68	1,739	1,580E-16	7,696	0,
Wy	ASCE 7-16	15	68	1,739	6,300E-17	7,696	0,
Wy	ASCE 7-16	15	68	1,985	0,	0,	0,
Wy	ASCE 7-16	15	68	1,985	0,	0,	0,
Wy	ASCE 7-16	16	70	-1,985	0,	0,	0,
Wy	ASCE 7-16	16	70	-1,985	0,	0,	0,
Wy	ASCE 7-16	17	71	-0,933	-2,078E-16	4,127	0,
Wy	ASCE 7-16	17	71	-0,933	-2,333E-16	4,127	0,
Wy	ASCE 7-16	17	71	-1,985	0,	0,	0,

Table: Auto Wind Loads To Joints, Part 1 of 2

LoadPat	AutoLdType	JointElem	Joint	FX KN	FY KN	FZ KN	MX KN-m
Wy	ASCE 7-16	17	71	-1,985	0,	0,	0,
Wy	ASCE 7-16	18	72	1,985	0,	0,	0,
Wy	ASCE 7-16	18	72	1,985	0,	0,	0,
Wy	ASCE 7-16	19	73	1,985	0,	0,	0,
Wy	ASCE 7-16	19	73	1,739	1,105E-16	7,696	0,
Wy	ASCE 7-16	19	73	1,985	0,	0,	0,
Wy	ASCE 7-16	19	73	1,739	1,580E-16	7,696	0,
Wy	ASCE 7-16	20	76	-0,933	-2,078E-16	4,127	0,
Wy	ASCE 7-16	20	76	-0,933	-2,078E-16	4,127	0,
Wy	ASCE 7-16	20	76	-1,985	0,	0,	0,
Wy	ASCE 7-16	20	76	-1,985	0,	0,	0,
Wy	ASCE 7-16	21	77	1,985	0,	0,	0,
Wy	ASCE 7-16	21	77	1,985	0,	0,	0,
Wy	ASCE 7-16	22	78	1,985	0,	0,	0,
Wy	ASCE 7-16	22	78	1,739	1,105E-16	7,696	0,
Wy	ASCE 7-16	22	78	1,985	0,	0,	0,
Wy	ASCE 7-16	22	78	1,739	6,300E-17	7,696	0,
Wy	ASCE 7-16	23	81	-0,933	-2,078E-16	4,127	0,
Wy	ASCE 7-16	23	81	-0,933	-2,078E-16	4,127	0,
Wy	ASCE 7-16	23	81	-1,985	0,	0,	0,
Wy	ASCE 7-16	23	81	-1,985	0,	0,	0,
Wy	ASCE 7-16	24	82	1,985	0,	0,	0,
Wy	ASCE 7-16	24	82	1,985	0,	0,	0,
Wy	ASCE 7-16	25	83	1,985	0,	0,	0,
Wy	ASCE 7-16	25	83	1,739	1,580E-16	7,696	0,
Wy	ASCE 7-16	25	83	1,739	6,300E-17	7,696	0,
Wy	ASCE 7-16	25	83	1,985	0,	0,	0,
Wy	ASCE 7-16	26	86	-0,933	-2,333E-16	4,127	0,
Wy	ASCE 7-16	26	86	-1,985	0,	0,	0,
Wy	ASCE 7-16	26	86	-1,985	0,	0,	0,
Wy	ASCE 7-16	26	86	-0,933	-2,078E-16	4,127	0,
Wy	ASCE 7-16	27	87	1,985	0,	0,	0,
Wy	ASCE 7-16	27	87	1,985	0,	0,	0,
Wy	ASCE 7-16	28	88	1,739	1,580E-16	7,696	0,
Wy	ASCE 7-16	28	88	1,739	1,580E-16	7,696	0,
Wy	ASCE 7-16	28	88	1,985	0,	0,	0,
Wy	ASCE 7-16	28	88	1,985	0,	0,	0,
Wy	ASCE 7-16	28	88	1,985	0,	0,	0,
Wy	ASCE 7-16	29	89	1,739	1,580E-16	7,696	0,
Wy	ASCE 7-16	29	89	-0,933	-2,333E-16	4,127	0,
Wy	ASCE 7-16	29	89	1,739	1,580E-16	7,696	0,
Wy	ASCE 7-16	29	89	-0,933	-2,078E-16	4,127	0,
Wy	ASCE 7-16	30	91	-1,985	0,	0,	0,
Wy	ASCE 7-16	30	91	-0,933	-2,333E-16	4,127	0,
Wy	ASCE 7-16	30	91	0,	-1,36	0,	0,
Wy	ASCE 7-16	31	92	1,985	0,	0,	0,
Wy	ASCE 7-16	31	92	0,	-1,36	0,	0,
Wy	ASCE 7-16	32	93	1,739	1,580E-16	7,696	0,
Wy	ASCE 7-16	32	93	1,985	0,	0,	0,
Wy	ASCE 7-16	32	93	0,	-1,36	0,	0,
Wy	ASCE 7-16	33	94	-0,933	-2,333E-16	4,127	0,
Wy	ASCE 7-16	33	94	1,739	1,580E-16	7,696	0,
Wy	ASCE 7-16	33	94	0,	-1,929	0,	0,
Wy	ASCE 7-16	33	94	0,	-1,929	0,	0,
Wy	ASCE 7-16	34	118	1,985	0,	0,	0,

Table: Auto Wind Loads To Joints, Part 1 of 2

LoadPat	AutoLdType	JointElem	Joint	FX KN	FY KN	FZ KN	MX KN-m
Wy	ASCE 7-16	34	118	1,985	0,	0,	0,
Wy	ASCE 7-16	35	218	-1,985	0,	0,	0,
Wy	ASCE 7-16	35	218	0,	-1,643	0,	0,
Wy	ASCE 7-16	36	219	-1,985	0,	0,	0,
Wy	ASCE 7-16	36	219	-0,933	-2,333E-16	4,127	0,
Wy	ASCE 7-16	36	219	0,	-1,855	0,	0,
Wy	ASCE 7-16	37	220	1,739	1,580E-16	7,696	0,
Wy	ASCE 7-16	37	220	1,985	0,	0,	0,
Wy	ASCE 7-16	37	220	0,	-1,855	0,	0,
Wy	ASCE 7-16	38	221	1,739	1,580E-16	7,696	0,
Wy	ASCE 7-16	38	221	-0,933	-2,333E-16	4,127	0,
Wy	ASCE 7-16	38	221	0,	-2,993	0,	0,
Wy	ASCE 7-16	38	221	0,	-2,993	0,	0,
Wy	ASCE 7-16	39	222	0,	-1,741	0,	0,
Wy	ASCE 7-16	39	222	0,	-1,937	0,	0,
Wy	ASCE 7-16	40	223	0,	-2,035	0,	0,
Wy	ASCE 7-16	40	223	0,	-2,231	0,	0,
Wy	ASCE 7-16	41	224	0,	-2,329	0,	0,
Wy	ASCE 7-16	41	224	0,	-2,329	0,	0,
Wy	ASCE 7-16	42	225	0,	-2,231	0,	0,
Wy	ASCE 7-16	42	225	0,	-2,035	0,	0,
Wy	ASCE 7-16	43	226	0,	-1,937	0,	0,
Wy	ASCE 7-16	43	226	0,	-1,741	0,	0,
Wy	ASCE 7-16	44	227	1,985	0,	0,	0,
Wy	ASCE 7-16	44	227	0,	-1,643	0,	0,
Wy	ASCE 7-16	45	228	0,	-2,067	0,	0,
Wy	ASCE 7-16	45	228	0,	-2,299	0,	0,
Wy	ASCE 7-16	46	229	0,	-2,52	0,	0,
Wy	ASCE 7-16	46	229	0,	-2,763	0,	0,
Wy	ASCE 7-16	47	230	0,	-2,763	0,	0,
Wy	ASCE 7-16	47	230	0,	-2,52	0,	0,
Wy	ASCE 7-16	48	231	0,	-2,299	0,	0,
Wy	ASCE 7-16	48	231	0,	-2,067	0,	0,
Wy	ASCE 7-16	49	238	0,	-1,848	0,	0,
Wy	ASCE 7-16	49	238	0,	-1,685	0,	0,
Wy	ASCE 7-16	50	240	0,	-1,604	0,	0,
Wy	ASCE 7-16	50	240	0,	-1,442	0,	0,
Wy	ASCE 7-16	51	242	0,	-1,442	0,	0,
Wy	ASCE 7-16	51	242	0,	-1,604	0,	0,
Wy	ASCE 7-16	52	243	0,	-1,685	0,	0,
Wy	ASCE 7-16	52	243	0,	-1,848	0,	0,
Wy	ASCE 7-16	53	244	0,	-1,848	0,	0,
Wy	ASCE 7-16	53	244	0,	-1,685	0,	0,
Wy	ASCE 7-16	54	245	0,	-1,604	0,	0,
Wy	ASCE 7-16	54	245	0,	-1,442	0,	0,
Wy	ASCE 7-16	59	298	0,	-1,929	0,	0,
Wy	ASCE 7-16	59	298	0,	-1,929	0,	0,
Wy	ASCE 7-16	60	299	0,	-1,685	0,	0,
Wy	ASCE 7-16	60	299	0,	-1,848	0,	0,
Wy	ASCE 7-16	61	300	0,	-1,442	0,	0,
Wy	ASCE 7-16	61	300	0,	-1,604	0,	0,
Wy	ASCE 7-16	62	301	0,	-1,36	0,	0,
Wy	ASCE 7-16	62	301	-1,985	0,	0,	0,
Wy	ASCE 7-16	67	339	-1,985	0,	0,	0,

Table: Auto Wind Loads To Joints, Part 1 of 2

LoadPat	AutoLdType	JointElem	Joint	FX KN	FY KN	FZ KN	MX KN-m
Wy	ASCE 7-16	67	339	-1,985	0,	0,	0,
Wy	ASCE 7-16	72	347	-1,985	0,	0,	0,
Wy	ASCE 7-16	72	347	-1,985	0,	0,	0,
Wy	ASCE 7-16	80	355	-1,985	0,	0,	0,
Wy	ASCE 7-16	80	355	-1,985	0,	0,	0,
Wy	ASCE 7-16	160	472	1,739	1,580E-16	7,696	0,
Wy	ASCE 7-16	160	472	1,739	6,300E-17	7,696	0,
Wy	ASCE 7-16	160	472	-0,933	-2,078E-16	4,127	0,
Wy	ASCE 7-16	160	472	-0,933	-2,078E-16	4,127	0,
Wy	ASCE 7-16	189	501	1,739	6,300E-17	7,696	0,
Wy	ASCE 7-16	189	501	-0,933	-2,078E-16	4,127	0,
Wy	ASCE 7-16	189	501	1,739	1,105E-16	7,696	0,
Wy	ASCE 7-16	189	501	-0,933	-2,078E-16	4,127	0,
Wy	ASCE 7-16	218	530	1,739	1,105E-16	7,696	0,
Wy	ASCE 7-16	218	530	1,739	1,580E-16	7,696	0,
Wy	ASCE 7-16	218	530	-0,933	-2,078E-16	4,127	0,
Wy	ASCE 7-16	218	530	-0,933	-2,333E-16	4,127	0,
Wy	ASCE 7-16	247	559	1,739	1,580E-16	7,696	0,
Wy	ASCE 7-16	247	559	-0,933	-2,333E-16	4,127	0,
Wy	ASCE 7-16	247	559	-0,933	-2,333E-16	4,127	0,
Wy	ASCE 7-16	247	559	1,739	6,300E-17	7,696	0,
Wy	ASCE 7-16	276	588	-0,933	-1,824E-16	4,127	0,
Wy	ASCE 7-16	276	588	1,739	1,105E-16	7,696	0,
Wy	ASCE 7-16	276	588	-0,933	-2,333E-16	4,127	0,
Wy	ASCE 7-16	276	588	1,739	6,300E-17	7,696	0,
Wy	ASCE 7-16	305	617	-0,933	-1,824E-16	4,127	0,
Wy	ASCE 7-16	305	617	1,739	1,580E-16	7,696	0,
Wy	ASCE 7-16	305	617	-0,933	-2,333E-16	4,127	0,
Wy	ASCE 7-16	305	617	1,739	1,105E-16	7,696	0,
Wy	ASCE 7-16	334	646	1,739	1,580E-16	7,696	0,
Wy	ASCE 7-16	334	646	-0,933	-2,333E-16	4,127	0,
Wy	ASCE 7-16	334	646	-0,933	-2,333E-16	4,127	0,
Wy	ASCE 7-16	334	646	1,739	1,580E-16	7,696	0,

Table: Auto Wind Loads To Joints, Part 2 of 2

Table: Auto Wind Loads To Joints, Part 2 of 2

LoadPat	JointElem	Joint	MY	MZ	X	Y	Z
			KN-m	KN-m	m	m	m
Wx	1	3	0,	0,	0,	47,2	0,
Wx	1	3	0,	0,	0,	47,2	0,
Wx	2	4	0,	0,	0,	47,2	7,
Wx	2	4	0,	0,	0,	47,2	7,
Wx	2	4	0,	0,	0,	47,2	7,
Wx	2	4	0,	0,	0,	47,2	7,
Wx	3	6	0,	0,	35,4	47,2	7,
Wx	3	6	0,	0,	35,4	47,2	7,
Wx	3	6	0,	0,	35,4	47,2	7,
Wx	3	6	0,	0,	35,4	47,2	7,
Wx	4	55	0,	0,	0,	41,3	0,
Wx	4	55	0,	0,	0,	41,3	0,
Wx	5	56	0,	0,	0,	41,3	7,
Wx	5	56	0,	0,	0,	41,3	7,

Table: Auto Wind Loads To Joints, Part 2 of 2

LoadPat	JointElem	Joint	MY	MZ	X	Y	Z
			KN-m	KN-m	m	m	m
Wx	5	56	0,	0,	0,	41,3	7,
Wx	5	56	0,	0,	0,	41,3	7,
Wx	6	57	0,	0,	35,4	41,3	0,
Wx	6	57	0,	0,	35,4	41,3	0,
Wx	7	58	0,	0,	35,4	41,3	7,
Wx	7	58	0,	0,	35,4	41,3	7,
Wx	7	58	0,	0,	35,4	41,3	7,
Wx	7	58	0,	0,	35,4	41,3	7,
Wx	8	60	0,	0,	0,	35,4	0,
Wx	8	60	0,	0,	0,	35,4	0,
Wx	9	61	0,	0,	0,	35,4	7,
Wx	9	61	0,	0,	0,	35,4	7,
Wx	9	61	0,	0,	0,	35,4	7,
Wx	9	61	0,	0,	0,	35,4	7,
Wx	10	62	0,	0,	35,4	35,4	0,
Wx	10	62	0,	0,	35,4	35,4	0,
Wx	11	63	0,	0,	35,4	35,4	7,
Wx	11	63	0,	0,	35,4	35,4	7,
Wx	11	63	0,	0,	35,4	35,4	7,
Wx	12	65	0,	0,	0,	29,5	0,
Wx	12	65	0,	0,	0,	29,5	0,
Wx	13	66	0,	0,	0,	29,5	7,
Wx	13	66	0,	0,	0,	29,5	7,
Wx	13	66	0,	0,	0,	29,5	7,
Wx	13	66	0,	0,	0,	29,5	7,
Wx	14	67	0,	0,	35,4	29,5	0,
Wx	14	67	0,	0,	35,4	29,5	0,
Wx	15	68	0,	0,	35,4	29,5	7,
Wx	15	68	0,	0,	35,4	29,5	7,
Wx	15	68	0,	0,	35,4	29,5	7,
Wx	15	68	0,	0,	35,4	29,5	7,
Wx	16	70	0,	0,	0,	23,6	0,
Wx	16	70	0,	0,	0,	23,6	0,
Wx	17	71	0,	0,	0,	23,6	7,
Wx	17	71	0,	0,	0,	23,6	7,
Wx	17	71	0,	0,	0,	23,6	7,
Wx	17	71	0,	0,	0,	23,6	7,
Wx	17	71	0,	0,	0,	23,6	7,
Wx	18	72	0,	0,	35,4	23,6	0,
Wx	18	72	0,	0,	35,4	23,6	0,
Wx	19	73	0,	0,	35,4	23,6	7,
Wx	19	73	0,	0,	35,4	23,6	7,
Wx	19	73	0,	0,	35,4	23,6	7,
Wx	19	73	0,	0,	35,4	23,6	7,
Wx	20	76	0,	0,	0,	17,7	7,
Wx	20	76	0,	0,	0,	17,7	7,
Wx	20	76	0,	0,	0,	17,7	7,
Wx	20	76	0,	0,	0,	17,7	7,
Wx	21	77	0,	0,	35,4	17,7	0,
Wx	21	77	0,	0,	35,4	17,7	0,
Wx	22	78	0,	0,	35,4	17,7	7,
Wx	22	78	0,	0,	35,4	17,7	7,
Wx	22	78	0,	0,	35,4	17,7	7,
Wx	22	78	0,	0,	35,4	17,7	7,

Table: Auto Wind Loads To Joints, Part 2 of 2

LoadPat	JointElem	Joint	MY	MZ	X	Y	Z
			KN-m	KN-m	m	m	m
Wx	23	81	0,	0,	0,	11,8	7,
Wx	23	81	0,	0,	0,	11,8	7,
Wx	23	81	0,	0,	0,	11,8	7,
Wx	23	81	0,	0,	0,	11,8	7,
Wx	24	82	0,	0,	35,4	11,8	0,
Wx	24	82	0,	0,	35,4	11,8	0,
Wx	25	83	0,	0,	35,4	11,8	7,
Wx	25	83	0,	0,	35,4	11,8	7,
Wx	25	83	0,	0,	35,4	11,8	7,
Wx	25	83	0,	0,	35,4	11,8	7,
Wx	26	86	0,	0,	0,	5,9	7,
Wx	26	86	0,	0,	0,	5,9	7,
Wx	26	86	0,	0,	0,	5,9	7,
Wx	26	86	0,	0,	0,	5,9	7,
Wx	27	87	0,	0,	35,4	5,9	0,
Wx	27	87	0,	0,	35,4	5,9	0,
Wx	28	88	0,	0,	35,4	5,9	7,
Wx	28	88	0,	0,	35,4	5,9	7,
Wx	28	88	0,	0,	35,4	5,9	7,
Wx	29	89	0,	0,	17,7	5,9	11,
Wx	29	89	0,	0,	17,7	5,9	11,
Wx	29	89	0,	0,	17,7	5,9	11,
Wx	29	89	0,	0,	17,7	5,9	11,
Wx	30	91	0,	0,	0,	0,	7,
Wx	30	91	0,	0,	0,	0,	7,
Wx	31	92	0,	0,	35,4	0,	0,
Wx	32	93	0,	0,	35,4	0,	7,
Wx	32	93	0,	0,	35,4	0,	7,
Wx	33	94	0,	0,	17,7	0,	11,
Wx	33	94	0,	0,	17,7	0,	11,
Wx	34	118	0,	0,	35,4	47,2	0,
Wx	34	118	0,	0,	35,4	47,2	0,
Wx	35	218	0,	0,	0,	53,1	0,
Wx	36	219	0,	0,	0,	53,1	7,
Wx	36	219	0,	0,	0,	53,1	7,
Wx	37	220	0,	0,	35,4	53,1	7,
Wx	37	220	0,	0,	35,4	53,1	7,
Wx	38	221	0,	0,	17,7	53,1	11,
Wx	38	221	0,	0,	17,7	53,1	11,
Wx	44	227	0,	0,	35,4	53,1	0,
Wx	62	301	0,	0,	0,	0,	0,
Wx	67	339	0,	0,	0,	5,9	0,
Wx	67	339	0,	0,	0,	5,9	0,
Wx	72	347	0,	0,	0,	11,8	0,
Wx	72	347	0,	0,	0,	11,8	0,
Wx	80	355	0,	0,	0,	17,7	0,
Wx	80	355	0,	0,	0,	17,7	0,
Wx	160	472	0,	0,	17,7	11,8	11,
Wx	160	472	0,	0,	17,7	11,8	11,
Wx	160	472	0,	0,	17,7	11,8	11,
Wx	160	472	0,	0,	17,7	11,8	11,
Wx	189	501	0,	0,	17,7	17,7	11,
Wx	189	501	0,	0,	17,7	17,7	11,

Table: Auto Wind Loads To Joints, Part 2 of 2

LoadPat	JointElem	Joint	MY	MZ	X	Y	Z
			KN-m	KN-m	m	m	m
Wx	189	501	0,	0,	17,7	17,7	11,
Wx	189	501	0,	0,	17,7	17,7	11,
Wx	218	530	0,	0,	17,7	23,6	11,
Wx	218	530	0,	0,	17,7	23,6	11,
Wx	218	530	0,	0,	17,7	23,6	11,
Wx	218	530	0,	0,	17,7	23,6	11,
Wx	247	559	0,	0,	17,7	29,5	11,
Wx	247	559	0,	0,	17,7	29,5	11,
Wx	247	559	0,	0,	17,7	29,5	11,
Wx	247	559	0,	0,	17,7	29,5	11,
Wx	276	588	0,	0,	17,7	35,4	11,
Wx	276	588	0,	0,	17,7	35,4	11,
Wx	276	588	0,	0,	17,7	35,4	11,
Wx	276	588	0,	0,	17,7	35,4	11,
Wx	305	617	0,	0,	17,7	41,3	11,
Wx	305	617	0,	0,	17,7	41,3	11,
Wx	305	617	0,	0,	17,7	41,3	11,
Wx	305	617	0,	0,	17,7	41,3	11,
Wx	334	646	0,	0,	17,7	47,2	11,
Wx	334	646	0,	0,	17,7	47,2	11,
Wx	334	646	0,	0,	17,7	47,2	11,
Wx	334	646	0,	0,	17,7	47,2	11,
Wy	1	3	0,	0,	0,	47,2	0,
Wy	1	3	0,	0,	0,	47,2	0,
Wy	2	4	0,	0,	0,	47,2	7,
Wy	2	4	0,	0,	0,	47,2	7,
Wy	2	4	0,	0,	0,	47,2	7,
Wy	2	4	0,	0,	0,	47,2	7,
Wy	3	6	0,	0,	35,4	47,2	7,
Wy	3	6	0,	0,	35,4	47,2	7,
Wy	3	6	0,	0,	35,4	47,2	7,
Wy	3	6	0,	0,	35,4	47,2	7,
Wy	4	55	0,	0,	0,	41,3	0,
Wy	4	55	0,	0,	0,	41,3	0,
Wy	5	56	0,	0,	0,	41,3	7,
Wy	5	56	0,	0,	0,	41,3	7,
Wy	5	56	0,	0,	0,	41,3	7,
Wy	5	56	0,	0,	0,	41,3	7,
Wy	5	56	0,	0,	0,	41,3	7,
Wy	6	57	0,	0,	35,4	41,3	0,
Wy	6	57	0,	0,	35,4	41,3	0,
Wy	7	58	0,	0,	35,4	41,3	7,
Wy	7	58	0,	0,	35,4	41,3	7,
Wy	7	58	0,	0,	35,4	41,3	7,
Wy	7	58	0,	0,	35,4	41,3	7,
Wy	7	58	0,	0,	35,4	41,3	7,
Wy	8	60	0,	0,	0,	35,4	0,
Wy	8	60	0,	0,	0,	35,4	0,
Wy	9	61	0,	0,	0,	35,4	7,
Wy	9	61	0,	0,	0,	35,4	7,
Wy	9	61	0,	0,	0,	35,4	7,
Wy	9	61	0,	0,	0,	35,4	7,
Wy	10	62	0,	0,	35,4	35,4	0,
Wy	10	62	0,	0,	35,4	35,4	0,
Wy	11	63	0,	0,	35,4	35,4	7,
Wy	11	63	0,	0,	35,4	35,4	7,

Table: Auto Wind Loads To Joints, Part 2 of 2

LoadPat	JointElem	Joint	MY	MZ	X	Y	Z
			KN-m	KN-m	m	m	m
Wy	11	63	0,	0,	35,4	35,4	7,
Wy	11	63	0,	0,	35,4	35,4	7,
Wy	12	65	0,	0,	0,	29,5	0,
Wy	12	65	0,	0,	0,	29,5	0,
Wy	13	66	0,	0,	0,	29,5	7,
Wy	13	66	0,	0,	0,	29,5	7,
Wy	13	66	0,	0,	0,	29,5	7,
Wy	13	66	0,	0,	0,	29,5	7,
Wy	14	67	0,	0,	35,4	29,5	0,
Wy	14	67	0,	0,	35,4	29,5	0,
Wy	15	68	0,	0,	35,4	29,5	7,
Wy	15	68	0,	0,	35,4	29,5	7,
Wy	15	68	0,	0,	35,4	29,5	7,
Wy	15	68	0,	0,	35,4	29,5	7,
Wy	16	70	0,	0,	0,	23,6	0,
Wy	16	70	0,	0,	0,	23,6	0,
Wy	17	71	0,	0,	0,	23,6	7,
Wy	17	71	0,	0,	0,	23,6	7,
Wy	17	71	0,	0,	0,	23,6	7,
Wy	18	72	0,	0,	35,4	23,6	0,
Wy	18	72	0,	0,	35,4	23,6	0,
Wy	19	73	0,	0,	35,4	23,6	7,
Wy	19	73	0,	0,	35,4	23,6	7,
Wy	19	73	0,	0,	35,4	23,6	7,
Wy	19	73	0,	0,	35,4	23,6	7,
Wy	20	76	0,	0,	0,	17,7	7,
Wy	20	76	0,	0,	0,	17,7	7,
Wy	20	76	0,	0,	0,	17,7	7,
Wy	20	76	0,	0,	0,	17,7	7,
Wy	21	77	0,	0,	35,4	17,7	0,
Wy	21	77	0,	0,	35,4	17,7	0,
Wy	22	78	0,	0,	35,4	17,7	7,
Wy	22	78	0,	0,	35,4	17,7	7,
Wy	22	78	0,	0,	35,4	17,7	7,
Wy	22	78	0,	0,	35,4	17,7	7,
Wy	23	81	0,	0,	0,	11,8	7,
Wy	23	81	0,	0,	0,	11,8	7,
Wy	23	81	0,	0,	0,	11,8	7,
Wy	23	81	0,	0,	0,	11,8	7,
Wy	24	82	0,	0,	35,4	11,8	0,
Wy	24	82	0,	0,	35,4	11,8	0,
Wy	25	83	0,	0,	35,4	11,8	7,
Wy	25	83	0,	0,	35,4	11,8	7,
Wy	25	83	0,	0,	35,4	11,8	7,
Wy	25	83	0,	0,	35,4	11,8	7,
Wy	26	86	0,	0,	0,	5,9	7,
Wy	26	86	0,	0,	0,	5,9	7,
Wy	26	86	0,	0,	0,	5,9	7,
Wy	26	86	0,	0,	0,	5,9	7,
Wy	27	87	0,	0,	35,4	5,9	0,
Wy	27	87	0,	0,	35,4	5,9	0,
Wy	28	88	0,	0,	35,4	5,9	7,
Wy	28	88	0,	0,	35,4	5,9	7,

Table: Auto Wind Loads To Joints, Part 2 of 2

LoadPat	JointElem	Joint	MY	MZ	X	Y	Z
			KN-m	KN-m	m	m	m
Wy	28	88	0,	0,	35,4	5,9	7,
Wy	28	88	0,	0,	35,4	5,9	7,
Wy	29	89	0,	0,	17,7	5,9	11,
Wy	29	89	0,	0,	17,7	5,9	11,
Wy	29	89	0,	0,	17,7	5,9	11,
Wy	29	89	0,	0,	17,7	5,9	11,
Wy	30	91	0,	0,	0,	0,	7,
Wy	30	91	0,	0,	0,	0,	7,
Wy	30	91	0,	0,	0,	0,	7,
Wy	31	92	0,	0,	35,4	0,	0,
Wy	31	92	0,	0,	35,4	0,	0,
Wy	32	93	0,	0,	35,4	0,	7,
Wy	32	93	0,	0,	35,4	0,	7,
Wy	32	93	0,	0,	35,4	0,	7,
Wy	33	94	0,	0,	17,7	0,	11,
Wy	33	94	0,	0,	17,7	0,	11,
Wy	33	94	0,	0,	17,7	0,	11,
Wy	33	94	0,	0,	17,7	0,	11,
Wy	34	118	0,	0,	35,4	47,2	0,
Wy	34	118	0,	0,	35,4	47,2	0,
Wy	35	218	0,	0,	0,	53,1	0,
Wy	35	218	0,	0,	0,	53,1	0,
Wy	36	219	0,	0,	0,	53,1	7,
Wy	36	219	0,	0,	0,	53,1	7,
Wy	36	219	0,	0,	0,	53,1	7,
Wy	37	220	0,	0,	35,4	53,1	7,
Wy	37	220	0,	0,	35,4	53,1	7,
Wy	37	220	0,	0,	35,4	53,1	7,
Wy	38	221	0,	0,	17,7	53,1	11,
Wy	38	221	0,	0,	17,7	53,1	11,
Wy	38	221	0,	0,	17,7	53,1	11,
Wy	38	221	0,	0,	17,7	53,1	11,
Wy	39	222	0,	0,	5,9	53,1	0,
Wy	39	222	0,	0,	5,9	53,1	0,
Wy	40	223	0,	0,	11,8	53,1	0,
Wy	40	223	0,	0,	11,8	53,1	0,
Wy	41	224	0,	0,	17,7	53,1	0,
Wy	41	224	0,	0,	17,7	53,1	0,
Wy	42	225	0,	0,	23,6	53,1	0,
Wy	42	225	0,	0,	23,6	53,1	0,
Wy	43	226	0,	0,	29,5	53,1	0,
Wy	43	226	0,	0,	29,5	53,1	0,
Wy	44	227	0,	0,	35,4	53,1	0,
Wy	44	227	0,	0,	35,4	53,1	0,
Wy	45	228	0,	0,	5,9	53,1	8,33333
Wy	45	228	0,	0,	5,9	53,1	8,33333
Wy	46	229	0,	0,	11,8	53,1	9,66667
Wy	46	229	0,	0,	11,8	53,1	9,66667
Wy	47	230	0,	0,	23,6	53,1	9,66667
Wy	47	230	0,	0,	23,6	53,1	9,66667
Wy	48	231	0,	0,	29,5	53,1	8,33333
Wy	48	231	0,	0,	29,5	53,1	8,33333
Wy	49	238	0,	0,	23,6	0,	0,
Wy	49	238	0,	0,	23,6	0,	0,

Table: Auto Wind Loads To Joints, Part 2 of 2

LoadPat	JointElem	Joint	MY	MZ	X	Y	Z
			KN-m	KN-m	m	m	m
Wy	50	240	0,	0,	29,5	0,	0,
Wy	50	240	0,	0,	29,5	0,	0,
Wy	51	242	0,	0,	5,9	0,	8,33333
Wy	51	242	0,	0,	5,9	0,	8,33333
Wy	52	243	0,	0,	11,8	0,	9,66667
Wy	52	243	0,	0,	11,8	0,	9,66667
Wy	53	244	0,	0,	23,6	0,	9,66667
Wy	53	244	0,	0,	23,6	0,	9,66667
Wy	54	245	0,	0,	29,5	0,	8,33333
Wy	54	245	0,	0,	29,5	0,	8,33333
Wy	59	298	0,	0,	17,7	0,	0,
Wy	59	298	0,	0,	17,7	0,	0,
Wy	60	299	0,	0,	11,8	0,	0,
Wy	60	299	0,	0,	11,8	0,	0,
Wy	61	300	0,	0,	5,9	0,	0,
Wy	61	300	0,	0,	5,9	0,	0,
Wy	62	301	0,	0,	0,	0,	0,
Wy	62	301	0,	0,	0,	0,	0,
Wy	67	339	0,	0,	0,	5,9	0,
Wy	67	339	0,	0,	0,	5,9	0,
Wy	72	347	0,	0,	0,	11,8	0,
Wy	72	347	0,	0,	0,	11,8	0,
Wy	80	355	0,	0,	0,	17,7	0,
Wy	80	355	0,	0,	0,	17,7	0,
Wy	160	472	0,	0,	17,7	11,8	11,
Wy	160	472	0,	0,	17,7	11,8	11,
Wy	160	472	0,	0,	17,7	11,8	11,
Wy	160	472	0,	0,	17,7	11,8	11,
Wy	189	501	0,	0,	17,7	17,7	11,
Wy	189	501	0,	0,	17,7	17,7	11,
Wy	189	501	0,	0,	17,7	17,7	11,
Wy	189	501	0,	0,	17,7	17,7	11,
Wy	218	530	0,	0,	17,7	23,6	11,
Wy	218	530	0,	0,	17,7	23,6	11,
Wy	218	530	0,	0,	17,7	23,6	11,
Wy	218	530	0,	0,	17,7	23,6	11,
Wy	247	559	0,	0,	17,7	29,5	11,
Wy	247	559	0,	0,	17,7	29,5	11,
Wy	247	559	0,	0,	17,7	29,5	11,
Wy	247	559	0,	0,	17,7	29,5	11,
Wy	276	588	0,	0,	17,7	35,4	11,
Wy	276	588	0,	0,	17,7	35,4	11,
Wy	276	588	0,	0,	17,7	35,4	11,
Wy	276	588	0,	0,	17,7	35,4	11,
Wy	305	617	0,	0,	17,7	41,3	11,
Wy	305	617	0,	0,	17,7	41,3	11,
Wy	305	617	0,	0,	17,7	41,3	11,
Wy	305	617	0,	0,	17,7	41,3	11,
Wy	334	646	0,	0,	17,7	47,2	11,
Wy	334	646	0,	0,	17,7	47,2	11,
Wy	334	646	0,	0,	17,7	47,2	11,
Wy	334	646	0,	0,	17,7	47,2	11,

Table: Function - Response Spectrum - ASCE 7-16, Part 1 of 2

Table: Function - Response Spectrum - ASCE 7-16, Part 1 of 2

Name	Period Sec	Accel	FuncDamp	Ss	S1	TL Sec	SiteClass
RESPON SPEKTRUM BANDUNG	0,	0,269016	0,05	1,1209	0,4928	20,	B
RESPON SPEKTRUM BANDUNG	0,078159	0,67254					
RESPON SPEKTRUM BANDUNG	0,390797	0,67254					
RESPON SPEKTRUM BANDUNG	0,6	0,438044					
RESPON SPEKTRUM BANDUNG	0,8	0,328533					
RESPON SPEKTRUM BANDUNG	1,	0,262827					
RESPON SPEKTRUM BANDUNG	1,2	0,219022					
RESPON SPEKTRUM BANDUNG	1,4	0,187733					
RESPON SPEKTRUM BANDUNG	1,6	0,164267					
RESPON SPEKTRUM BANDUNG	1,8	0,146015					
RESPON SPEKTRUM BANDUNG	2,	0,131413					
RESPON SPEKTRUM BANDUNG	2,5	0,105131					
RESPON SPEKTRUM BANDUNG	3,	0,087609					
RESPON SPEKTRUM BANDUNG	3,5	0,075093					
RESPON SPEKTRUM BANDUNG	4,	0,065707					
RESPON SPEKTRUM BANDUNG	4,5	0,058406					
RESPON SPEKTRUM BANDUNG	5,	0,052565					
RESPON SPEKTRUM BANDUNG	5,5	0,047787					
RESPON SPEKTRUM BANDUNG	6,	0,043804					
RESPON SPEKTRUM BANDUNG	6,5	0,040435					

Table: Function - Response Spectrum - ASCE 7-16, Part 1 of 2

Name	Period Sec	Accel	FuncDamp	Ss	S1	TL Sec	SiteClass
RESPON SPEKTRUM BANDUNG	7,	0,037547					
RESPON SPEKTRUM BANDUNG	7,5	0,035044					
RESPON SPEKTRUM BANDUNG	8,	0,032853					
RESPON SPEKTRUM BANDUNG	8,5	0,030921					
RESPON SPEKTRUM BANDUNG	9,	0,029203					
RESPON SPEKTRUM BANDUNG	9,5	0,027666					
RESPON SPEKTRUM BANDUNG	10,	0,026283					

Table: Function - Response Spectrum - ASCE 7-16, Part 2 of 2

Table: Function - Response Spectrum - ASCE 7-16, Part 2 of 2

Name	Period Sec	Fa	Fv	SDS	SD1
RESPON SPEKTRUM BANDUNG	0,	0,9	0,8	0,67254	0,262827
RESPON SPEKTRUM BANDUNG	0,078159				
RESPON SPEKTRUM BANDUNG	0,390797				
RESPON SPEKTRUM BANDUNG	0,6				
RESPON SPEKTRUM BANDUNG	0,8				
RESPON SPEKTRUM BANDUNG	1,				
RESPON SPEKTRUM BANDUNG	1,2				
RESPON SPEKTRUM BANDUNG	1,4				
RESPON SPEKTRUM BANDUNG	1,6				
RESPON SPEKTRUM BANDUNG	1,8				
RESPON SPEKTRUM BANDUNG	2,				

Table: Function - Response Spectrum - ASCE 7-16, Part 2 of 2

Name	Period Sec	Fa	Fv	SDS	SD1
RESPON SPEKTRUM BANDUNG	2,5				
RESPON SPEKTRUM BANDUNG	3,				
RESPON SPEKTRUM BANDUNG	3,5				
RESPON SPEKTRUM BANDUNG	4,				
RESPON SPEKTRUM BANDUNG	4,5				
RESPON SPEKTRUM BANDUNG	5,				
RESPON SPEKTRUM BANDUNG	5,5				
RESPON SPEKTRUM BANDUNG	6,				
RESPON SPEKTRUM BANDUNG	6,5				
RESPON SPEKTRUM BANDUNG	7,				
RESPON SPEKTRUM BANDUNG	7,5				
RESPON SPEKTRUM BANDUNG	8,				
RESPON SPEKTRUM BANDUNG	8,5				
RESPON SPEKTRUM BANDUNG	9,				
RESPON SPEKTRUM BANDUNG	9,5				
RESPON SPEKTRUM BANDUNG	10,				

Table: Load Case Definitions, Part 1 of 3**Table: Load Case Definitions, Part 1 of 3**

Case	Type	InitialCond	ModalCase	BaseCase	MassSource	DesTypeOpt	DesignType
DEAD	LinStatic	Zero				Prog Det	Dead
MODAL	LinModal	Zero				Prog Det	Other
SIDL	LinStatic	Zero				Prog Det	Super Dead
Lr	LinStatic	Zero				Prog Det	Live
Rain	LinStatic	Zero				Prog Det	Other

Table: Load Case Definitions, Part 1 of 3

Case	Type	InitialCond	ModalCase	BaseCase	MassSource	DesTypeOpt	DesignType
EQDx	LinRespSpec		MODAL			Prog Det	Quake
EQDy	LinRespSpec		MODAL			Prog Det	Quake
Wx	LinStatic	Zero				Prog Det	Wind
Wy	LinStatic	Zero				Prog Det	Wind

Table: Load Case Definitions, Part 2 of 3**Table: Load Case Definitions, Part 2 of 3**

Case	DesActOpt	DesignAct	AutoType	RunCase	CaseStatus	GUID
DEAD	Prog Det	Non-Composite	None	Yes	Finished	e11272f8-992b-4620-9a68-4b76df7e733d
MODAL	Prog Det	Other	None	Yes	Finished	51f30ae9-887e-4e46-8431-fadbd3c33b87
SIDL	Prog Det	Long-Term Composite	None	Yes	Finished	21f5c3fb-2098-4d75-b2cf-6f837cf9a1c5
Lr	Prog Det	Short-Term Composite	None	Yes	Finished	1e2a0af6-3b23-40fe-a43a-ff69e857b5ca
Rain	Prog Det	Other	None	Yes	Finished	07adc8c0-e79d-48d1-9a30-2c765358bbd5
EQDx	Prog Det	Short-Term Composite	None	Yes	Finished	9396c177-6c8e-44f7-a901-96e08964298a
EQDy	Prog Det	Short-Term Composite	None	Yes	Finished	9396c177-6c8e-44f7-a901-96e08964298a
Wx	Prog Det	Short-Term Composite	None	Yes	Finished	0f8463d5-d496-49bf-8169-2b98b3ff25ac
Wy	Prog Det	Short-Term Composite	None	Yes	Finished	052bf34d-ce73-4785-9cf-a-66891c7efd7e

Table: Load Case Definitions, Part 3 of 3**Table: Load Case Definitions, Part 3 of 3**

Case	Notes
DEAD	
MODAL	
SIDL	
Lr	
Rain	
EQDx	
EQDy	
Wx	
Wy	

Table: Base Reactions, Part 1 of 3**Table: Base Reactions, Part 1 of 3**

OutputCase	CaseType	StepType	GlobalFX KN	GlobalFY KN	GlobalFZ KN	GlobalMX KN-m	GlobalMY KN-m	GlobalMZ KN-m
Envelope	Combination	Max	149,716	99,122	56960,739	1398611,43	969945,1711	5075,965
Envelope	Combination	Min	-149,716	-99,122	-55787,138	-1369982,04	-990183,85	-5075,965

Table: Base Reactions, Part 2 of 3

Table: Base Reactions, Part 2 of 3

OutputCase	StepType	GlobalX	GlobalY	GlobalZ	XCentroidF X	YCentroidF X	ZCentroidF X	XCentroidF Y
		m	m	m	m	m	m	m
Envelope	Max	0,	0,	0,	0,	0,	0,	0,
Envelope	Min	0,	0,	0,	0,	0,	0,	0,

Table: Base Reactions, Part 3 of 3

Table: Base Reactions, Part 3 of 3

OutputCase	StepType	YCentroidF Y	ZCentroidF Y	XCentroidF Z	YCentroidF Z	ZCentroidFZ
		m	m	m	m	m
Envelope	Max	0,	0,	0,	0,	0,
Envelope	Min	0,	0,	0,	0,	0,

Table: Modal Load Participation Ratios

Table: Modal Load Participation Ratios

OutputCase	ItemType	Item	Static	Dynamic
			Percent	Percent
MODAL	Acceleration	UX	85,1955	50,4406
MODAL	Acceleration	UY	81,6181	30,4119
MODAL	Acceleration	UZ	87,3099	25,3808

Table: Modal Participating Mass Ratios, Part 1 of 3

Table: Modal Participating Mass Ratios, Part 1 of 3

OutputCase	StepType	StepNum	Period	UX	UY	UZ	SumUX	SumUY
			Sec					
MODAL	Mode	1,	7,06404	0,00024	0,30291	6,196E-06	0,00024	0,30291
MODAL	Mode	2,	6,215927	0,24284	9,058E-07	0,02872	0,24307	0,30291
MODAL	Mode	3,	5,947411	7,941E-05	6,570E-06	0,00042	0,24315	0,30292
MODAL	Mode	4,	5,688057	0,06508	9,404E-08	0,18005	0,30823	0,30292
MODAL	Mode	5,	5,589053	0,0007	3,774E-05	0,0025	0,30893	0,30296
MODAL	Mode	6,	5,504566	0,00662	2,713E-05	0,01588	0,31555	0,30299
MODAL	Mode	7,	4,173347	0,08579	5,009E-05	0,00022	0,40134	0,30304
MODAL	Mode	8,	3,993086	0,06551	0,0002	0,02601	0,46685	0,30324
MODAL	Mode	9,	3,667977	0,03755	0,00048	8,570E-06	0,5044	0,30372
MODAL	Mode	10,	3,391899	4,988E-07	2,018E-05	6,267E-08	0,5044	0,30374
MODAL	Mode	11,	3,38861	1,671E-07	3,558E-09	4,310E-08	0,5044	0,30374
MODAL	Mode	12,	3,338173	5,951E-06	0,00038	8,534E-06	0,50441	0,30412

Table: Modal Participating Mass Ratios, Part 2 of 3

Table: Modal Participating Mass Ratios, Part 2 of 3

OutputCase	StepType	StepNum	SumUZ	RX	RY	RZ	SumRX	SumRY
MODAL	Mode	1,	6,196E-06	0,00246	1,696E-05	0,00179	0,00246	1,696E-05
MODAL	Mode	2,	0,02872	0,00911	0,01102	0,03402	0,01157	0,01103
MODAL	Mode	3,	0,02915	0,00704	1,749E-06	0,01803	0,01861	0,01103
MODAL	Mode	4,	0,20919	0,0124	0,00019	0,0022	0,03101	0,01122
MODAL	Mode	5,	0,21169	0,0433	7,372E-09	0,02405	0,07431	0,01122

Table: Modal Participating Mass Ratios, Part 2 of 3

OutputCase	StepType	StepNum	SumUZ	RX	RY	RZ	SumRX	SumRY
MODAL	Mode	6,	0,22757	0,00409	4,908E-06	0,00042	0,07839	0,01123
MODAL	Mode	7,	0,22778	0,0004	0,0031	0,13729	0,0788	0,01433
MODAL	Mode	8,	0,25379	0,00831	0,02741	0,01969	0,0871	0,04174
MODAL	Mode	9,	0,2538	7,392E-05	0,00816	0,03542	0,08718	0,0499
MODAL	Mode	10,	0,2538	6,009E-05	3,952E-06	0,00037	0,08724	0,04991
MODAL	Mode	11,	0,2538	1,050E-07	1,470E-08	1,102E-07	0,08724	0,04991
MODAL	Mode	12,	0,25381	0,00011	5,947E-06	0,00013	0,08735	0,04991

Table: Modal Participating Mass Ratios, Part 3 of 3

Table: Modal Participating Mass Ratios, Part 3 of 3

OutputCase	StepType	StepNum	SumRZ
MODAL	Mode	1,	0,00179
MODAL	Mode	2,	0,03581
MODAL	Mode	3,	0,05384
MODAL	Mode	4,	0,05604
MODAL	Mode	5,	0,08009
MODAL	Mode	6,	0,08051
MODAL	Mode	7,	0,21779
MODAL	Mode	8,	0,23748
MODAL	Mode	9,	0,27291
MODAL	Mode	10,	0,27327
MODAL	Mode	11,	0,27327
MODAL	Mode	12,	0,27341

Table: Modal Participation Factors, Part 1 of 2

Table: Modal Participation Factors, Part 1 of 2

OutputCase	StepType	StepNum	Period	UX	UY	UZ	RX	RY
			Sec	KN-m	KN-m	KN-m	KN-m	KN-m
MODAL	Mode	1,	7,06404	0,97733	34,763562	0,157229	53,726912	3,203909
MODAL	Mode	2,	6,215927	31,125832	-0,060114	10,703969	103,348817	-81,64722
MODAL	Mode	3,	5,947411	-0,562858	-0,161899	1,295472	90,847442	1,02872
MODAL	Mode	4,	5,688057	16,113098	0,01937	-26,801408	-120,598005	-10,645015
MODAL	Mode	5,	5,589053	-1,674473	0,388042	3,156401	-225,313871	-0,066789
MODAL	Mode	6,	5,504566	-5,138764	0,329023	7,958854	-69,219067	1,723331
MODAL	Mode	7,	4,173347	18,500151	-0,447029	0,929017	21,714796	-43,321804
MODAL	Mode	8,	3,993086	16,166703	0,903174	10,186307	-98,687665	-128,792615
MODAL	Mode	9,	3,667977	-12,239447	1,386124	0,184911	9,310181	70,279813
MODAL	Mode	10,	3,391899	0,044608	-0,283773	0,015812	-8,393672	-1,546455
MODAL	Mode	11,	3,38861	-0,025823	-0,003768	0,013114	0,350868	0,094314
MODAL	Mode	12,	3,338173	-0,154079	1,226337	0,184514	11,506405	1,897079

Table: Modal Participation Factors, Part 2 of 2

Table: Modal Participation Factors, Part 2 of 2

OutputCase	StepType	StepNum	RZ	ModalMass	ModalStiff
			KN-m	KN-m-s2	KN-m
MODAL	Mode	1,	55,588151	1,	0,79114
MODAL	Mode	2,	-242,471415	1,	1,02176
MODAL	Mode	3,	-176,523255	1,	1,1161

Table: Modal Participation Factors, Part 2 of 2

OutputCase	StepType	StepNum	RZ	ModalMass	ModalStiff
			KN-m	KN-m-s ²	KN-m
MODAL	Mode	4,	-61,618283	1,	1,2202
MODAL	Mode	5,	-203,859705	1,	1,26381
MODAL	Mode	6,	-26,858227	1,	1,30291
MODAL	Mode	7,	-487,067108	1,	2,26668
MODAL	Mode	8,	184,451881	1,	2,47595
MODAL	Mode	9,	-247,417977	1,	2,93431
MODAL	Mode	10,	25,13899	1,	3,43142
MODAL	Mode	11,	-0,436476	1,	3,43808
MODAL	Mode	12,	-15,201151	1,	3,54276

Table: Modal Periods And Frequencies**Table: Modal Periods And Frequencies**

OutputCase	StepType	StepNum	Period	Frequency	CircFreq	Eigenvalue
			Sec	Cyc/sec	rad/sec	rad ² /sec ²
MODAL	Mode	1,	7,06404	1,4156E-01	8,8946E-01	7,9114E-01
MODAL	Mode	2,	6,215927	1,6088E-01	1,0108E+00	1,0218E+00
MODAL	Mode	3,	5,947411	1,6814E-01	1,0565E+00	1,1161E+00
MODAL	Mode	4,	5,688057	1,7581E-01	1,1046E+00	1,2202E+00
MODAL	Mode	5,	5,589053	1,7892E-01	1,1242E+00	1,2638E+00
MODAL	Mode	6,	5,504566	1,8167E-01	1,1414E+00	1,3029E+00
MODAL	Mode	7,	4,173347	2,3962E-01	1,5056E+00	2,2667E+00
MODAL	Mode	8,	3,993086	2,5043E-01	1,5735E+00	2,4760E+00
MODAL	Mode	9,	3,667977	2,7263E-01	1,7130E+00	2,9343E+00
MODAL	Mode	10,	3,391899	2,9482E-01	1,8524E+00	3,4314E+00
MODAL	Mode	11,	3,38861	2,9511E-01	1,8542E+00	3,4381E+00
MODAL	Mode	12,	3,338173	2,9957E-01	1,8822E+00	3,5428E+00

Table: Steel Design 1 - Summary Data - AISC 360-10, Part 1 of 2**Table: Steel Design 1 - Summary Data - AISC 360-10, Part 1 of 2**

Frame	DesignSect	DesignType	Status	Ratio	RatioType
2	IWF 150 X 300	Column	Overstressed and See WarnMsg	345,31578	PMM
43	IWF 150 X 300	Column	Overstressed and See WarnMsg	520,596594	PMM
44	IWF 150 X 300	Column	Overstressed and See WarnMsg	610,26742	PMM
47	IWF 150 X 300	Column	Overstressed and See WarnMsg	508,622177	PMM
48	IWF 150 X 300	Column	Overstressed and See WarnMsg	603,130129	PMM
51	IWF 150 X 300	Column	Overstressed and See WarnMsg	509,470087	PMM
52	IWF 150 X 300	Column	Overstressed and See WarnMsg	610,32784	PMM
55	IWF 150 X 300	Column	Overstressed and See WarnMsg	520,994411	PMM
56	IWF 150 X 300	Column	Overstressed and See WarnMsg	608,967219	PMM
60	IWF 150 X 300	Column	Overstressed and See WarnMsg	609,343364	PMM

Table: Steel Design 1 - Summary Data - AISC 360-10, Part 1 of 2

Frame	DesignSect	DesignType	Status	Ratio	RatioType
64	IWF 150 X 300	Column	Overstressed and See WarnMsg	622,514646	PMM
68	IWF 150 X 300	Column	Overstressed and See WarnMsg	437,264626	PMM
70	RAFTER 150 X 300	Brace	Overstressed	30,720283	PMM
71	IWF 150 X 300	Column	Overstressed	43,591095	PMM
72	IWF 150 X 300	Column	Overstressed and See WarnMsg	177,697284	PMM
89	IWF 150 X 300	Column	Overstressed and See WarnMsg	441,675188	PMM
180	IWF 150 X 300	Column	Overstressed and See WarnMsg	185,584364	PMM
183	IWF 150 X 300	Column	Overstressed and See WarnMsg	286,888619	PMM
184	IWF 150 X 300	Column	Overstressed and See WarnMsg	407,114984	PMM
185	IWF 150 X 300	Column	Overstressed and See WarnMsg	1378,694056	PMM
186	IWF 150 X 300	Column	Overstressed and See WarnMsg	403,779688	PMM
187	IWF 150 X 300	Column	Overstressed and See WarnMsg	396,769256	PMM
188	IWF 150 X 300	Column	Overstressed and See WarnMsg	197,248493	PMM
189	IWF 150 X 300	Column	Overstressed	24,0475	PMM
190	IWF 150 X 300	Column	Overstressed	159,157858	PMM
191	IWF 150 X 300	Column	Overstressed	143,362428	PMM
192	IWF 150 X 300	Column	Overstressed and See WarnMsg	411,150579	PMM
193	IWF 150 X 300	Column	Overstressed and See WarnMsg	288,615491	PMM
194	IWF 150 X 300	Beam	See ErrMsg	8,481017	PMM
195	IWF 150 X 300	Beam	See ErrMsg	17,340669	PMM
196	IWF 150 X 300	Beam	See ErrMsg	11,176811	PMM
197	IWF 150 X 300	Beam	See ErrMsg	7,459769	PMM
198	IWF 150 X 300	Beam	See ErrMsg	10,755592	PMM
199	IWF 150 X 300	Beam	See ErrMsg	16,277462	PMM
200	IWF 150 X 300	Beam	See ErrMsg	10,010751	PMM
201	IWF 150 X 300	Beam	See ErrMsg	7,841928	PMM
202	IWF 150 X 300	Beam	See ErrMsg	4,0647	PMM
203	IWF 150 X 300	Beam	See ErrMsg	5,206274	PMM
204	IWF 150 X 300	Beam	See ErrMsg	12,552695	PMM
205	IWF 150 X 300	Beam	See ErrMsg	7,90344	PMM
206	IWF 150 X 300	Beam	See ErrMsg	6,183858	PMM
207	IWF 150 X 300	Beam	See ErrMsg	6,615351	PMM
208	IWF 150 X 300	Beam	See ErrMsg	12,181874	PMM
209	IWF 150 X 300	Beam	See ErrMsg	9,868672	PMM
210	IWF 150 X 300	Beam	See ErrMsg	19,322116	PMM
211	IWF 150 X 300	Beam	See ErrMsg	7,302435	PMM
212	IWF 150 X 300	Beam	See ErrMsg	3,131174	PMM
213	IWF 150 X 300	Beam	See ErrMsg and WarnMsg	11,94064	PMM
214	IWF 150 X 300	Beam	See ErrMsg and WarnMsg	8,2847	PMM
215	IWF 150 X 300	Column	Overstressed	148,501354	PMM
216	IWF 150 X 300	Column	Overstressed	70,394113	PMM
217	IWF 150 X 300	Column	Overstressed	77,457662	PMM

Table: Steel Design 1 - Summary Data - AISC 360-10, Part 1 of 2

Frame	DesignSect	DesignType	Status	Ratio	RatioType
218	IWF 150 X 300	Column	Overstressed	61,962842	PMM
246	IWF 150 X 300	Column	Overstressed	108,531036	PMM
248	IWF 150 X 300	Beam	See ErrMsg	7,455207	PMM
251	IWF 150 X 300	Column	Overstressed	29,433493	PMM
254	IWF 150 X 300	Column	Overstressed	132,437009	PMM
255	IWF 150 X 300	Column	Overstressed	166,930906	PMM
257	IWF 150 X 300	Beam	See ErrMsg	14,763963	PMM
260	IWF 150 X 300	Column	Overstressed	47,240965	PMM
263	IWF 150 X 300	Column	Overstressed	185,062119	PMM
264	IWF 150 X 300	Column	Overstressed	155,814405	PMM
266	IWF 150 X 300	Beam	See ErrMsg	17,122083	PMM
267	IWF 150 X 300	Beam	See ErrMsg	11,148132	PMM
268	IWF 150 X 300	Beam	See ErrMsg	8,667912	PMM
269	IWF 150 X 300	Column	Overstressed	15,942588	PMM
270	IWF 150 X 300	Column	Overstressed	42,640888	PMM
271	IWF 150 X 300	Column	Overstressed	24,477212	PMM
272	IWF 150 X 300	Column	Overstressed	167,898547	PMM
275	IWF 150 X 300	Beam	See ErrMsg and WarnMsg	21,849944	PMM
276	IWF 150 X 300	Beam	See ErrMsg	5,068874	PMM
277	IWF 150 X 300	Beam	See ErrMsg	4,92656	PMM
278	IWF 150 X 300	Beam	See ErrMsg	4,309914	PMM
279	IWF 150 X 300	Beam	See ErrMsg	2,10604	PMM
280	IWF 150 X 300	Beam	See ErrMsg and WarnMsg	4,517669	PMM
281	IWF 150 X 300	Beam	See ErrMsg and WarnMsg	5,750934	PMM
282	IWF 150 X 300	Beam	See ErrMsg	4,7717	PMM
283	IWF 150 X 300	Beam	See ErrMsg	4,994836	PMM
284	IWF 150 X 300	Beam	See ErrMsg	4,328673	PMM
311	IWF 150 X 300	Column	Overstressed	96,450203	PMM
313	IWF 150 X 300	Column	Overstressed	150,368729	PMM
319	IWF 150 X 300	Column	Overstressed	140,301604	PMM
326	IWF 150 X 300	Column	Overstressed	206,749398	PMM
328	IWF 150 X 300	Column	Overstressed	46,314496	PMM
358	RAFTER 150 X 300	Brace	Overstressed	4,136411	PMM
449	RAFTER 150 X 300	Brace	Overstressed	7,139633	PMM
464	RAFTER 150 X 300	Brace	Overstressed	5,418332	PMM
475	RAFTER 150 X 300	Brace	Overstressed	31,483726	PMM
490	RAFTER 150 X 300	Brace	Overstressed	34,735429	PMM
491	RAFTER 150 X 300	Brace	Overstressed	15,99858	PMM
521	RAFTER 150 X 300	Brace	Overstressed	42,821978	PMM
522	RAFTER 150 X 300	Brace	Overstressed	33,190534	PMM
523	RAFTER 150 X 300	Brace	Overstressed	32,441821	PMM
553	RAFTER 150 X 300	Brace	Overstressed	46,240245	PMM
554	RAFTER 150 X 300	Brace	Overstressed	32,108231	PMM
555	RAFTER 150 X 300	Brace	Overstressed	30,959265	PMM
585	RAFTER 150 X 300	Brace	Overstressed	54,694366	PMM
586	RAFTER 150 X 300	Brace	Overstressed	30,286342	PMM
587	RAFTER 150 X 300	Brace	Overstressed	30,103638	PMM
617	RAFTER 150 X 300	Brace	Overstressed	49,718067	PMM
618	RAFTER 150 X 300	Brace	Overstressed	29,845898	PMM
619	RAFTER 150 X 300	Brace	Overstressed	28,196444	PMM
649	RAFTER 150 X 300	Brace	Overstressed	51,120809	PMM
650	RAFTER 150 X 300	Brace	Overstressed	31,020406	PMM

Table: Steel Design 1 - Summary Data - AISC 360-10, Part 1 of 2

Frame	DesignSect	DesignType	Status	Ratio	RatioType
651	RAFTER 150 X 300	Brace	Overstressed	27,841048	PMM
681	RAFTER 150 X 300	Brace	Overstressed	54,685627	PMM
682	RAFTER 150 X 300	Brace	Overstressed	30,734981	PMM
683	RAFTER 150 X 300	Brace	Overstressed	28,968687	PMM
713	RAFTER 150 X 300	Brace	Overstressed	31,36937	PMM
714	RAFTER 150 X 300	Brace	Overstressed	6,47362	PMM
715	RAFTER 150 X 300	Brace	Overstressed	13,850436	PMM
745	RAFTER 150 X 300	Brace	Overstressed	6,988116	PMM
747	RAFTER 150 X 300	Brace	Overstressed	2,521963	PMM

Table: Steel Design 1 - Summary Data - AISC 360-10, Part 2 of 2**Table: Steel Design 1 - Summary Data - AISC 360-10, Part 2 of 2**

Frame	Combo	Location m	ErrMsg	WarnMsg
2	Envelope (Sp)	0,	No Messages	kl/r > 200 (AISC E2)
43	Envelope (Sp)	0,	No Messages	kl/r > 200 (AISC E2)
44	Envelope (Sp)	0,	No Messages	kl/r > 200 (AISC E2)
47	Envelope (Sp)	0,	No Messages	kl/r > 200 (AISC E2)
48	Envelope (Sp)	0,	No Messages	kl/r > 200 (AISC E2)
51	Envelope (Sp)	0,	No Messages	kl/r > 200 (AISC E2)
52	Envelope (Sp)	0,	No Messages	kl/r > 200 (AISC E2)
55	Envelope (Sp)	0,	No Messages	kl/r > 200 (AISC E2)
56	Envelope (Sp)	0,	No Messages	kl/r > 200 (AISC E2)
60	Envelope (Sp)	0,	No Messages	kl/r > 200 (AISC E2)
64	Envelope (Sp)	0,	No Messages	kl/r > 200 (AISC E2)
68	Envelope (Sp)	0,	No Messages	kl/r > 200 (AISC E2)
70	COMB1	0,	No Messages	No Messages
71	Envelope (Sp)	0,	No Messages	No Messages
72	Envelope (Sp)	0,	No Messages	kl/r > 200 (AISC E2)
89	Envelope (Sp)	7,	No Messages	kl/r > 200 (AISC E2)
180	Envelope (Sp)	0,	No Messages	kl/r > 200 (AISC E2)
183	Envelope (Sp)	0,	No Messages	kl/r > 200 (AISC E2)
184	Envelope (Sp)	0,	No Messages	kl/r > 200 (AISC E2)
185	Envelope (Sp)	0,	No Messages	kl/r > 200 (AISC E2); I/r > 300 (AISC D1)
186	Envelope (Sp)	0,	No Messages	kl/r > 200 (AISC E2)
187	Envelope (Sp)	0,	No Messages	kl/r > 200 (AISC E2)
188	Envelope (Sp)	7,	No Messages	kl/r > 200 (AISC E2)
189	Envelope (Sp)	0,	No Messages	No Messages
190	Envelope (Sp)	0,	No Messages	No Messages
191	Envelope (Sp)	0,	No Messages	No Messages
192	Envelope (Sp)	0,	No Messages	kl/r > 200 (AISC E2)
193	Envelope (Sp)	0,	No Messages	kl/r > 200 (AISC E2)
194	Envelope	5,9	Lb/ry > 0.17*E/Fy (ANSI/AISC 341-10 E2.4a, D1.2a)	No Messages
195	Envelope	0,	Lb/ry > 0.17*E/Fy (ANSI/AISC 341-10 E2.4a, D1.2a)	No Messages
196	Envelope	0,	Lb/ry > 0.17*E/Fy (ANSI/AISC 341-10 E2.4a, D1.2a)	No Messages
197	Envelope	5,9	Lb/ry > 0.17*E/Fy (ANSI/AISC 341-10 E2.4a, D1.2a)	No Messages
198	Envelope	5,9	Lb/ry > 0.17*E/Fy (ANSI/AISC 341-10 E2.4a, D1.2a)	No Messages

Table: Steel Design 1 - Summary Data - AISC 360-10, Part 2 of 2

Frame	Combo	Location m	ErrMsg	WarnMsg
199	Envelope	5,9	Lb/ry > 0.17*E/Fy (ANSI/AISC 341-10 E2.4a, D1.2a)	No Messages
200	Envelope	0,	Lb/ry > 0.17*E/Fy (ANSI/AISC 341-10 E2.4a, D1.2a)	No Messages
201	Envelope	0,	Lb/ry > 0.17*E/Fy (ANSI/AISC 341-10 E2.4a, D1.2a)	No Messages
202	Envelope	0,	Lb/ry > 0.17*E/Fy (ANSI/AISC 341-10 E2.4a, D1.2a)	No Messages
203	Envelope	5,9	Lb/ry > 0.17*E/Fy (ANSI/AISC 341-10 E2.4a, D1.2a)	No Messages
204	Envelope	0,	Lb/ry > 0.17*E/Fy (ANSI/AISC 341-10 E2.4a, D1.2a)	No Messages
205	Envelope	0,	Lb/ry > 0.17*E/Fy (ANSI/AISC 341-10 E2.4a, D1.2a)	No Messages
206	Envelope	0,	Lb/ry > 0.17*E/Fy (ANSI/AISC 341-10 E2.4a, D1.2a)	No Messages
207	Envelope	5,9	Lb/ry > 0.17*E/Fy (ANSI/AISC 341-10 E2.4a, D1.2a)	No Messages
208	Envelope	0,	Lb/ry > 0.17*E/Fy (ANSI/AISC 341-10 E2.4a, D1.2a)	No Messages
209	Envelope	5,9	Lb/ry > 0.17*E/Fy (ANSI/AISC 341-10 E2.4a, D1.2a)	No Messages
210	Envelope	5,9	Lb/ry > 0.17*E/Fy (ANSI/AISC 341-10 E2.4a, D1.2a)	No Messages
211	Envelope	0,	Lb/ry > 0.17*E/Fy (ANSI/AISC 341-10 E2.4a, D1.2a)	No Messages
212	Envelope	5,9	Lb/ry > 0.17*E/Fy (ANSI/AISC 341-10 E2.4a, D1.2a)	No Messages
213	Envelope	0,	Lb/ry > 0.17*E/Fy (ANSI/AISC 341-10 E2.4a, D1.2a)	kl/r > 200 (AISC E2); l/r > 300 (AISC D1)
214	Envelope	0,	Lb/ry > 0.17*E/Fy (ANSI/AISC 341-10 E2.4a, D1.2a)	kl/r > 200 (AISC E2); l/r > 300 (AISC D1)
215	Envelope (Sp)	3,	No Messages	No Messages
216	Envelope (Sp)	3,	No Messages	No Messages
217	Envelope (Sp)	3,	No Messages	No Messages
218	Envelope (Sp)	3,	No Messages	No Messages
246	Envelope (Sp)	0,	No Messages	No Messages
248	COMB1	0,	Lb/ry > 0.17*E/Fy (ANSI/AISC 341-10 E2.4a, D1.2a)	No Messages
251	Envelope (Sp)	3,	No Messages	No Messages
254	Envelope (Sp)	3,	No Messages	No Messages
255	Envelope (Sp)	0,	No Messages	No Messages
257	Envelope	0,	Lb/ry > 0.17*E/Fy (ANSI/AISC 341-10 E2.4a, D1.2a)	No Messages
260	Envelope (Sp)	3,	No Messages	No Messages
263	Envelope (Sp)	3,	No Messages	No Messages
264	Envelope (Sp)	0,	No Messages	No Messages
266	Envelope	0,	Lb/ry > 0.17*E/Fy (ANSI/AISC 341-10 E2.4a, D1.2a)	No Messages
267	Envelope	0,	Lb/ry > 0.17*E/Fy (ANSI/AISC 341-10 E2.4a, D1.2a)	No Messages
268	Envelope	0,	Lb/ry > 0.17*E/Fy (ANSI/AISC 341-10 E2.4a, D1.2a)	No Messages
269	Envelope	3,	No Messages	No Messages
270	Envelope (Sp)	3,	No Messages	No Messages
271	Envelope (Sp)	3,	No Messages	No Messages
272	Envelope (Sp)	3,	No Messages	No Messages

Table: Steel Design 1 - Summary Data - AISC 360-10, Part 2 of 2

Frame	Combo	Location m	ErrMsg	WarnMsg
275	COMB4	0,	Lb/ry > 0.17*E/Fy (ANSI/AISC 341-10 E2.4a, D1.2a)	kl/r > 200 (AISC E2); l/r > 300 (AISC D1)
276	Envelope	5,9	Lb/ry > 0.17*E/Fy (ANSI/AISC 341-10 E2.4a, D1.2a)	No Messages
277	Envelope	0,	Lb/ry > 0.17*E/Fy (ANSI/AISC 341-10 E2.4a, D1.2a)	No Messages
278	Envelope	0,	Lb/ry > 0.17*E/Fy (ANSI/AISC 341-10 E2.4a, D1.2a)	No Messages
279	Envelope	5,9	Lb/ry > 0.17*E/Fy (ANSI/AISC 341-10 E2.4a, D1.2a)	No Messages
280	Envelope	0,	Lb/ry > 0.17*E/Fy (ANSI/AISC 341-10 E2.4a, D1.2a)	kl/r > 200 (AISC E2); l/r > 300 (AISC D1)
281	Envelope	0,	Lb/ry > 0.17*E/Fy (ANSI/AISC 341-10 E2.4a, D1.2a)	kl/r > 200 (AISC E2); l/r > 300 (AISC D1)
282	COMB4	2,45	Lb/ry > 0.17*E/Fy (ANSI/AISC 341-10 E2.4a, D1.2a)	No Messages
283	Envelope	0,	Lb/ry > 0.17*E/Fy (ANSI/AISC 341-10 E2.4a, D1.2a)	No Messages
284	Envelope	0,	Lb/ry > 0.17*E/Fy (ANSI/AISC 341-10 E2.4a, D1.2a)	No Messages
311	Envelope (Sp)	0,	No Messages	No Messages
313	Envelope (Sp)	0,	No Messages	No Messages
319	Envelope (Sp)	0,	No Messages	No Messages
326	Envelope (Sp)	0,	No Messages	No Messages
328	Envelope (Sp)	3,4	No Messages	No Messages
358	Envelope	2,41951	No Messages	No Messages
449	Envelope	18,14635	No Messages	No Messages
464	Envelope	0,	No Messages	No Messages
475	COMB1	18,14635	No Messages	No Messages
490	Envelope	18,14635	No Messages	No Messages
491	Envelope	8,4683	No Messages	No Messages
521	Envelope	0,	No Messages	No Messages
522	Envelope	18,14635	No Messages	No Messages
523	Envelope	8,4683	No Messages	No Messages
553	Envelope	0,	No Messages	No Messages
554	Envelope	18,14635	No Messages	No Messages
555	Envelope	8,4683	No Messages	No Messages
585	Envelope	0,	No Messages	No Messages
586	Envelope	18,14635	No Messages	No Messages
587	Envelope	8,4683	No Messages	No Messages
617	Envelope	0,	No Messages	No Messages
618	Envelope	18,14635	No Messages	No Messages
619	Envelope	8,4683	No Messages	No Messages
649	Envelope	0,	No Messages	No Messages
650	Envelope	18,14635	No Messages	No Messages
651	Envelope	8,4683	No Messages	No Messages
681	Envelope	0,	No Messages	No Messages
682	COMB1	0,	No Messages	No Messages
683	Envelope	8,4683	No Messages	No Messages
713	COMB1	18,14635	No Messages	No Messages
714	Envelope	0,	No Messages	No Messages
715	Envelope	8,4683	No Messages	No Messages
745	Envelope	18,14635	No Messages	No Messages
747	Envelope	2,41951	No Messages	No Messages

Table: Steel Design 2 - PMM Details - AISC 360-10, Part 1 of 9

Table: Steel Design 2 - PMM Details - AISC 360-10, Part 1 of 9

Frame	DesignSect	DesignType	Status	Combo	Location m	Pr KN
2	IWF 150 X 300	Column	Overstressed	Envelope (Sp)	0,	-55655,811
43	IWF 150 X 300	Column	Overstressed	Envelope (Sp)	0,	-83906,462
44	IWF 150 X 300	Column	Overstressed	Envelope (Sp)	0,	-98359,038
47	IWF 150 X 300	Column	Overstressed	Envelope (Sp)	0,	-81976,501
48	IWF 150 X 300	Column	Overstressed	Envelope (Sp)	0,	-97208,695
51	IWF 150 X 300	Column	Overstressed	Envelope (Sp)	0,	-82113,162
52	IWF 150 X 300	Column	Overstressed	Envelope (Sp)	0,	-98368,776
55	IWF 150 X 300	Column	Overstressed	Envelope (Sp)	0,	-83970,58
56	IWF 150 X 300	Column	Overstressed	Envelope (Sp)	0,	-98149,48
60	IWF 150 X 300	Column	Overstressed	Envelope (Sp)	0,	-98210,104
64	IWF 150 X 300	Column	Overstressed	Envelope (Sp)	0,	-100332,968
68	IWF 150 X 300	Column	Overstressed	Envelope (Sp)	0,	-70475,543
70	RAFTER 150 X 300	Brace	Overstressed	COMB1	0,	-3157,136
71	IWF 150 X 300	Column	Overstressed	Envelope (Sp)	0,	-20719,324
72	IWF 150 X 300	Column	Overstressed	Envelope (Sp)	0,	-28640,123
89	IWF 150 X 300	Column	Overstressed	Envelope (Sp)	7,	-71186,41
180	IWF 150 X 300	Column	Overstressed	Envelope (Sp)	0,	-29911,313
183	IWF 150 X 300	Column	Overstressed	Envelope (Sp)	0,	-32626,161
184	IWF 150 X 300	Column	Overstressed	Envelope (Sp)	0,	-34407,551
185	IWF 150 X 300	Column	Overstressed	Envelope (Sp)	0,	-89985,534
186	IWF 150 X 300	Column	Overstressed	Envelope (Sp)	0,	-34125,667
187	IWF 150 X 300	Column	Overstressed	Envelope (Sp)	0,	-45122,242
188	IWF 150 X 300	Column	Overstressed	Envelope (Sp)	7,	-31791,263
189	IWF 150 X 300	Column	Overstressed	Envelope (Sp)	0,	-20204,622
190	IWF 150 X 300	Column	Overstressed	Envelope (Sp)	0,	-28281,391
191	IWF 150 X 300	Column	Overstressed	Envelope (Sp)	0,	-83751,912
192	IWF 150 X 300	Column	Overstressed	Envelope (Sp)	0,	-34748,622
193	IWF 150 X 300	Column	Overstressed	Envelope (Sp)	0,	-32822,548
194	IWF 150 X 300	Beam	Overstressed	Envelope	5,9	-448,253
195	IWF 150 X 300	Beam	Overstressed	Envelope	0,	-1058,986
196	IWF 150 X 300	Beam	Overstressed	Envelope	0,	-895,639
197	IWF 150 X 300	Beam	Overstressed	Envelope	5,9	-1040,326
198	IWF 150 X 300	Beam	Overstressed	Envelope	5,9	-864,427
199	IWF 150 X 300	Beam	Overstressed	Envelope	5,9	-1017,621
200	IWF 150 X 300	Beam	Overstressed	Envelope	0,	-792,978
201	IWF 150 X 300	Beam	Overstressed	Envelope	0,	-966,177
202	IWF 150 X 300	Beam	Overstressed	Envelope	0,	-446,426
203	IWF 150 X 300	Beam	Overstressed	Envelope	5,9	-441,998
204	IWF 150 X 300	Beam	Overstressed	Envelope	0,	-983,194
205	IWF 150 X 300	Beam	Overstressed	Envelope	0,	-877,193
206	IWF 150 X 300	Beam	Overstressed	Envelope	0,	-966,466
207	IWF 150 X 300	Beam	Overstressed	Envelope	5,9	-801,638
208	IWF 150 X 300	Beam	Overstressed	Envelope	0,	-981,055
209	IWF 150 X 300	Beam	Overstressed	Envelope	5,9	-964,667
210	IWF 150 X 300	Beam	Overstressed	Envelope	5,9	-996,327
211	IWF 150 X 300	Beam	Overstressed	Envelope	0,	-407,551
212	IWF 150 X 300	Beam	Overstressed	Envelope	5,9	-496,084
213	IWF 150 X 300	Beam	Overstressed	Envelope	0,	-462,136
214	IWF 150 X 300	Beam	Overstressed	Envelope	0,	-200,325
215	IWF 150 X 300	Column	Overstressed	Envelope (Sp)	3,	-97710,32
216	IWF 150 X 300	Column	Overstressed	Envelope (Sp)	3,	-46317,634
217	IWF 150 X 300	Column	Overstressed	Envelope (Sp)	3,	-50965,28
218	IWF 150 X 300	Column	Overstressed	Envelope (Sp)	3,	-40770,061

Table: Steel Design 2 - PMM Details - AISC 360-10, Part 1 of 9

Frame	DesignSect	DesignType	Status	Combo	Location	Pr
						KN
246	IWF 150 X 300	Column	Overstressed	Envelope (Sp)	0,	-51585,988
248	IWF 150 X 300	Beam	Overstressed	COMB1	0,	149,745
251	IWF 150 X 300	Column	Overstressed	Envelope (Sp)	3,	-19366,531
254	IWF 150 X 300	Column	Overstressed	Envelope (Sp)	3,	-87140,368
255	IWF 150 X 300	Column	Overstressed	Envelope (Sp)	0,	-79344,084
257	IWF 150 X 300	Beam	Overstressed	Envelope	0,	-784,188
260	IWF 150 X 300	Column	Overstressed	Envelope (Sp)	3,	-31083,419
263	IWF 150 X 300	Column	Overstressed	Envelope (Sp)	3,	-121766,425
264	IWF 150 X 300	Column	Overstressed	Envelope (Sp)	0,	-74060,29
266	IWF 150 X 300	Beam	Overstressed	Envelope	0,	-1037,825
267	IWF 150 X 300	Beam	Overstressed	Envelope	0,	-1158,626
268	IWF 150 X 300	Beam	Overstressed	Envelope	0,	-206,273
269	IWF 150 X 300	Column	Overstressed	Envelope	3,	110,574
270	IWF 150 X 300	Column	Overstressed	Envelope (Sp)	3,	-28056,679
271	IWF 150 X 300	Column	Overstressed	Envelope (Sp)	3,	-16105,417
272	IWF 150 X 300	Column	Overstressed	Envelope (Sp)	3,	-110473,207
275	IWF 150 X 300	Beam	Overstressed	COMB4	0,	-337,634
276	IWF 150 X 300	Beam	Overstressed	Envelope	5,9	-737,202
277	IWF 150 X 300	Beam	Overstressed	Envelope	0,	-858,002
278	IWF 150 X 300	Beam	Overstressed	Envelope	0,	-568,117
279	IWF 150 X 300	Beam	Overstressed	Envelope	5,9	-37,861
280	IWF 150 X 300	Beam	Overstressed	Envelope	0,	-67,142
281	IWF 150 X 300	Beam	Overstressed	Envelope	0,	-35,415
282	IWF 150 X 300	Beam	Overstressed	COMB4	2,45	-449,354
283	IWF 150 X 300	Beam	Overstressed	Envelope	0,	-819,903
284	IWF 150 X 300	Beam	Overstressed	Envelope	0,	-533,031
311	IWF 150 X 300	Column	Overstressed	Envelope (Sp)	0,	-45843,836
313	IWF 150 X 300	Column	Overstressed	Envelope (Sp)	0,	-71471,9
319	IWF 150 X 300	Column	Overstressed	Envelope (Sp)	0,	-66686,886
326	IWF 150 X 300	Column	Overstressed	Envelope (Sp)	0,	-77164,715
328	IWF 150 X 300	Column	Overstressed	Envelope (Sp)	3,4	-27056,794
358	RAFTER 150 X 300	Brace	Overstressed	Envelope	2,41951	-1514,794
449	RAFTER 150 X 300	Brace	Overstressed	Envelope	18,14635	-2581,229
464	RAFTER 150 X 300	Brace	Overstressed	Envelope	0,	-2585,359
475	RAFTER 150 X 300	Brace	Overstressed	COMB1	18,14635	-3251,005
490	RAFTER 150 X 300	Brace	Overstressed	Envelope	18,14635	-1294,162
491	RAFTER 150 X 300	Brace	Overstressed	Envelope	8,4683	-682,183
521	RAFTER 150 X 300	Brace	Overstressed	Envelope	0,	-2720,199
522	RAFTER 150 X 300	Brace	Overstressed	Envelope	18,14635	-1258,987
523	RAFTER 150 X 300	Brace	Overstressed	Envelope	8,4683	-1294,162
553	RAFTER 150 X 300	Brace	Overstressed	Envelope	0,	-2356,84
554	RAFTER 150 X 300	Brace	Overstressed	Envelope	18,14635	-1131,086
555	RAFTER 150 X 300	Brace	Overstressed	Envelope	8,4683	-1258,987
585	RAFTER 150 X 300	Brace	Overstressed	Envelope	0,	-2343,301
586	RAFTER 150 X 300	Brace	Overstressed	Envelope	18,14635	-1179,219
587	RAFTER 150 X 300	Brace	Overstressed	Envelope	8,4683	-1131,086
617	RAFTER 150 X 300	Brace	Overstressed	Envelope	0,	-2158,539
618	RAFTER 150 X 300	Brace	Overstressed	Envelope	18,14635	-1131,231
619	RAFTER 150 X 300	Brace	Overstressed	Envelope	8,4683	-1179,219
649	RAFTER 150 X 300	Brace	Overstressed	Envelope	0,	-2196,947
650	RAFTER 150 X 300	Brace	Overstressed	Envelope	18,14635	-1157,677
651	RAFTER 150 X 300	Brace	Overstressed	Envelope	8,4683	-1131,231
681	RAFTER 150 X 300	Brace	Overstressed	Envelope	0,	-2330,265
682	RAFTER 150 X 300	Brace	Overstressed	COMB1	0,	-3177,296

Table: Steel Design 2 - PMM Details - AISC 360-10, Part 1 of 9

Frame	DesignSect	DesignType	Status	Combo	Location m	Pr KN
683	RAFTER 150 X 300	Brace	Overstressed	Envelope	8,4683	-1157,677
713	RAFTER 150 X 300	Brace	Overstressed	COMB1	18,14635	-3176,911
714	RAFTER 150 X 300	Brace	Overstressed	Envelope	0,	-2620,595
715	RAFTER 150 X 300	Brace	Overstressed	Envelope	8,4683	-708,92
745	RAFTER 150 X 300	Brace	Overstressed	Envelope	18,14635	-2592,772
747	RAFTER 150 X 300	Brace	Overstressed	Envelope	2,41951	-780,406

Table: Steel Design 2 - PMM Details - AISC 360-10, Part 2 of 9

Table: Steel Design 2 - PMM Details - AISC 360-10, Part 2 of 9

Frame	MrMajor KN-m	MrMinor KN-m	VrMajor KN	VrMinor KN	Tr KN-m	Equation	TotalRatio
2	1482,3714	1,5416	0,	0,	0,2833	(H1-1a)	345,31578
43	5976,6897	2,1646	0,	0,	0,3027	(H1-1a)	520,596594
44	5065,3624	2,0705	0,	0,	0,1415	(H1-1a)	610,26742
47	6086,4577	1,4916	0,	0,	0,0834	(H1-1a)	508,622177
48	5196,6467	1,2212	0,	0,	0,0157	(H1-1a)	603,130129
51	5950,0675	0,419	0,	0,	0,0724	(H1-1a)	509,470087
52	5252,2203	0,5854	0,	0,	0,0172	(H1-1a)	610,32784
55	5988,94	0,3581	0,	0,	0,2565	(H1-1a)	520,994411
56	5289,3874	1,0181	0,	0,	0,0769	(H1-1a)	608,967219
60	6614,687	1,9782	0,	0,	0,1358	(H1-1a)	609,343364
64	6564,6124	2,0002	0,	0,	0,2466	(H1-1a)	622,514646
68	1675,8735	1,5782	0,	0,	0,2216	(H1-1a)	437,264626
70	-2296,9417	86,8513	-810,269	44,501	7,8447	(H1-1a)	30,720283
71	148,3971	1,3383	0,	0,	0,0156	(H1-1a)	43,591095
72	120,5441	8,904	0,	0,	0,0292	(H1-1a)	177,697284
89	1626,9369	1,4855	0,	0,	0,1318	(H1-1a)	441,675188
180	254,8689	8,5442	0,	0,	0,0294	(H1-1a)	185,584364
183	152,7676	4,4147	0,	0,	0,0135	(H1-1a)	286,888619
184	115,1729	17,643	0,	0,	0,0443	(H1-1a)	407,114984
185	81,5652	30,6139	0,	0,	0,0134	(H1-1a)	1378,694056
186	89,9469	15,644	0,	0,	0,038	(H1-1a)	403,779688
187	132,5954	3,6994	0,	0,	0,0079	(H1-1a)	396,769256
188	90,0638	8,2927	0,	0,	0,0162	(H1-1a)	197,248493
189	38,798	44,7105	0,	0,	0,202	(H1-1a)	24,0475
190	129,3867	3,2886	0,	0,	0,0427	(H1-1a)	159,157858
191	166,8426	11,2603	0,	0,	0,0204	(H1-1a)	143,362428
192	35,971	12,3879	0,	0,	0,0298	(H1-1a)	411,150579
193	41,6073	1,6062	0,	0,	0,0074	(H1-1a)	288,615491
194	-169,4361	-123,661	-170,442	-24,749	-0,2329	(H1-1a)	8,481017
195	-203,0048	-287,1336	-162,652	-96,328	-0,2857	(H1-1a)	17,340669
196	-140,6701	-158,8258	-145,534	-32,681	-0,0083	(H1-1a)	11,176811
197	-140,8399	-46,1981	-143,533	-7,205	-0,02	(H1-1a)	7,459769
198	-156,5121	-148,3294	-146,095	-32,351	-0,0049	(H1-1a)	10,755592
199	-150,8088	-274,7787	-147,386	-90,303	-0,2818	(H1-1a)	16,277462
200	-154,8854	-137,5387	-152,417	-37,066	-0,0222	(H1-1a)	10,010751
201	-140,2532	-64,6462	-142,074	-19,791	-0,0489	(H1-1a)	7,841928
202	-188,9336	-10,3644	-178,271	-0,864	-0,1668	(H1-1a)	4,0647
203	-168,4167	-40,2955	-169,585	-6,749	-0,3805	(H1-1a)	5,206274
204	-195,7582	-173,4237	-160,476	-58,324	-0,2137	(H1-1a)	12,552695
205	-140,4475	-76,3387	-145,989	-17,399	-0,003	(H1-1a)	7,90344
206	-143,9786	-20,9999	-146,388	-5,484	-0,0162	(H1-1a)	6,183858

Table: Steel Design 2 - PMM Details - AISC 360-10, Part 2 of 9

Frame	MrMajor KN-m	MrMinor KN-m	VrMajor KN	VrMinor KN	Tr KN-m	Equation	TotalRatio
207	-138,028	-52,1284	-142,755	-14,394	-0,0044	(H1-1a)	6,615351
208	-159,6822	-171,2821	-152,584	-54,783	-0,382	(H1-1a)	12,181874
209	-147,1704	-115,8393	-142,694	-18,263	-0,0025	(H1-1a)	9,868672
210	-213,4146	-343,4269	-163,708	-115,074	-0,1712	(H1-1a)	19,322116
211	-161,9434	-97,5398	-172,566	-19,203	-0,3716	(H1-1a)	7,302435
212	-115,2121	-1,4209	-143,872	-2,083	-0,0267	(H1-1a)	3,131174
213	-237,3188	-5,1297	-175,331	-1,45	-0,0134	(H1-1a)	11,94064
214	-270,5956	-3,4107	-194,254	-2,055	-0,011	(H1-1a)	8,2847
215	306,8563	47,3772	0,	0,	0,0195	(H1-1a)	148,501354
216	378,83	18,1317	0,	0,	0,0235	(H1-1a)	70,394113
217	394,1389	17,9882	0,	0,	0,0357	(H1-1a)	77,457662
218	416,7111	66,1773	0,	0,	0,0351	(H1-1a)	61,962842
246	787,8523	30,8631	0,	0,	0,0795	(H1-1a)	108,531036
248	-849,4179	-0,0372	-415,358	-2,34	-0,182	(H1.2,H1-1b)	7,455207
251	70,3461	60,3981	0,	0,	0,0586	(H1-1a)	29,433493
254	690,3547	51,9022	0,	0,	0,0339	(H1-1a)	132,437009
255	2309,3211	19,7985	0,	0,	0,1315	(H1-1a)	166,930906
257	-1600,9158	-0,4736	-704,302	-1,831	-0,0087	(H1-1a)	14,763963
260	923,5908	56,4052	0,	0,	0,0279	(H1-1a)	47,240965
263	681,4245	54,9969	0,	0,	0,0286	(H1-1a)	185,062119
264	2159,0446	42,5302	0,	0,	0,0253	(H1-1a)	155,814405
266	-1800,5472	-1,6513	-684,514	-2,486	-0,3721	(H1-1a)	17,122083
267	-780,3512	-0,4061	-399,306	-2,271	-0,21	(H1-1a)	11,148132
268	-1004,3155	-0,0993	-492,732	-0,963	-0,4043	(H1-1a)	8,667912
269	-1498,8268	65,8984	739,625	-46,387	0,0176	(H1.2,H1-1b)	15,942588
270	1771,9858	50,7187	0,	0,	0,0206	(H1-1a)	42,640888
271	1884,1729	2,4528	0,	0,	0,0235	(H1-1a)	24,477212
272	1088,3359	40,7963	0,	0,	0,0295	(H1-1a)	167,898547
275	-487,1912	1,3333	-332,24	0,39	7,701E-04	(H1-1a)	21,849944
276	-155,135	-7,5594	-120,665	-9,797	-0,506	(H1-1a)	5,068874
277	-119,8884	-5,6624	-92,894	-7,816	-0,5137	(H1-1a)	4,92656
278	-189,272	-1,8122	-192,619	-3,011	-0,4118	(H1-1a)	4,309914
279	-141,1626	-10,6573	-136,415	-8,038	-0,1521	(H1-1b)	2,10604
280	-192,6899	-18,3924	-155,113	-5,505	-0,126	(H1-1a)	4,517669
281	-216,6993	-19,2244	-187,523	-4,716	-0,0057	(H1-1a)	5,750934
282	186,1293	-38,3505	20,659	-137,369	-0,7945	(H1-1a)	4,7717
283	-168,1889	-2,1267	-134,24	-0,864	-0,0686	(H1-1a)	4,994836
284	-213,4203	-0,6848	-212,212	-0,585	-0,0408	(H1-1a)	4,328673
311	1811,5743	15,4816	0,	0,	1,0663	(H1-1a)	96,450203
313	3455,7973	16,8272	0,	0,	0,5383	(H1-1a)	150,368729
319	3525,2512	18,8702	0,	0,	2,3864	(H1-1a)	140,301604
326	60,5239	36,4684	0,	0,	0,0325	(H1-1a)	206,749398
328	198,2697	9,0832	0,	0,	0,0957	(H1-1a)	46,314496
358	-295,3879	3,6065	214,928	-2,559	-0,1796	(H1-1a)	4,136411
449	195,6636	69,928	182,587	44,043	-7,0849	(H1-1a)	7,139633
464	97,1618	44,9676	152,394	35,87	-6,3532	(H1-1a)	5,418332
475	-2283,9027	101,7942	746,505	-49,049	-8,5121	(H1-1a)	31,483726
490	-3424,366	112,4309	715,455	-32,236	-5,1087	(H1-1a)	34,735429
491	1330,614	125,4859	518,237	38,468	-3,925	(H1-1a)	15,99858
521	-4370,5377	20,207	964,829	-10,543	-0,8064	(H1-1a)	42,821978
522	-3454,077	69,3284	717,615	-21,	-3,004	(H1-1a)	33,190534
523	-3424,366	112,4309	715,455	-32,236	-5,1087	(H1-1a)	32,441821
553	-4366,9942	137,9362	963,45	-45,937	-3,5218	(H1-1a)	46,240245
554	-3407,9494	60,636	734,225	-21,612	-1,2417	(H1-1a)	32,108231

Table: Steel Design 2 - PMM Details - AISC 360-10, Part 2 of 9

Frame	MrMajor KN-m	MrMinor KN-m	VrMajor KN	VrMinor KN	Tr KN-m	Equation	TotalRatio
555	-3454,077	69,3284	717,615	-21,	-3,004	(H1-1a)	30,959265
585	-5593,6888	112,6862	1067,48	-31,535	-5,5928	(H1-1a)	54,694366
586	-3386,2052	14,0777	732,635	-6,501	-0,5183	(H1-1a)	30,286342
587	-3407,9494	60,636	734,225	-21,612	-1,2417	(H1-1a)	30,103638
617	-5568,398	3,6359	1063,056	-4,91	-2,0642	(H1-1a)	49,718067
618	-3388,576	5,9993	733,295	-0,408	-0,7315	(H1-1a)	29,845898
619	-3386,2052	14,0777	732,635	-6,501	-0,5183	(H1-1a)	28,196444
649	-5640,5485	22,4723	1069,145	-3,363	-2,3935	(H1-1a)	51,120809
650	-3317,1295	48,5456	726,756	-12,207	-2,8472	(H1-1a)	31,020406
651	-3388,576	5,9993	733,295	-0,408	-0,7315	(H1-1a)	27,841048
681	-5533,737	125,4568	1058,879	-35,442	-6,3981	(H1-1a)	54,685627
682	-2260,0806	-93,0012	-807,094	-46,326	-8,1779	(H1-1a)	30,734981
683	-3317,1295	48,5456	726,756	-12,207	-2,8472	(H1-1a)	28,968687
713	-2261,1812	-109,2142	748,884	51,656	8,6766	(H1-1a)	31,36937
714	172,9321	-56,0932	-175,281	39,175	-6,5842	(H1-1a)	6,47362
715	1336,2576	67,9362	519,824	20,645	-2,0466	(H1-1a)	13,850436
745	111,4107	-82,4928	-152,974	48,109	-7,3936	(H1-1a)	6,988116
747	207,3127	0,9588	161,31	1,352	-0,098	(H1-1a)	2,521963

Table: Steel Design 2 - PMM Details - AISC 360-10, Part 3 of 9**Table: Steel Design 2 - PMM Details - AISC 360-10, Part 3 of 9**

Frame	PRatio	MMajRatio	MMinRatio	VMajRatio	VMinRatio	TorRatio	DCLimit
2	345,31578	0,	0,				0,95
43	520,596594	0,	0,				0,95
44	610,26742	0,	0,				0,95
47	508,622177	0,	0,				0,95
48	603,130129	0,	0,				0,95
51	509,470087	0,	0,				0,95
52	610,32784	0,	0,				0,95
55	520,994411	0,	0,				0,95
56	608,967219	0,	0,				0,95
60	609,343364	0,	0,				0,95
64	622,514646	0,	0,				0,95
68	437,264626	0,	0,				0,95
70	9,625181	17,735961	3,359141				0,95
71	43,591095	0,	0,				0,95
72	177,697284	0,	0,				0,95
89	441,675188	0,	0,				0,95
180	185,584364	0,	0,				0,95
183	286,888619	0,	0,				0,95
184	407,114984	0,	0,				0,95
185	1378,694056	0,	0,				0,95
186	403,779688	0,	0,				0,95
187	396,769256	0,	0,				0,95
188	197,248493	0,	0,				0,95
189	24,0475	0,	0,				0,95
190	159,157858	0,	0,				0,95
191	143,362428	0,	0,				0,95
192	411,150579	0,	0,				0,95
193	288,615491	0,	0,				0,95
194	1,975775	1,722415	4,782828				0,95

Table: Steel Design 2 - PMM Details - AISC 360-10, Part 3 of 9

Frame	PRatio	MMajRatio	MMinRatio	VMajRatio	VMinRatio	TorRatio	DCLimit
195	4,667714	1,567513	11,105443				0,95
196	3,947726	1,086192	6,142893				0,95
197	4,585464	1,087503	1,786801				0,95
198	3,810151	1,208517	5,736925				0,95
199	4,485389	1,164478	10,627595				0,95
200	3,495222	1,195956	5,319573				0,95
201	4,258638	1,082972	2,500318				0,95
202	1,967719	1,696119	0,400861				0,95
203	1,948201	1,699566	1,558508				0,95
204	4,333641	1,511558	6,707496				0,95
205	3,86642	1,084473	2,952546				0,95
206	4,259909	1,111739	0,81221				0,95
207	3,533395	1,065791	2,016165				0,95
208	4,324215	1,232995	6,624664				0,95
209	4,25198	1,136384	4,480308				0,95
210	4,391529	1,647893	13,282695				0,95
211	1,796368	1,733525	3,772541				0,95
212	2,186601	0,889616	0,054957				0,95
213	8,147867	3,594372	0,198401				0,95
214	3,531906	4,620879	0,131915				0,95
215	148,501354	0,	0,				0,95
216	70,394113	0,	0,				0,95
217	77,457662	0,	0,				0,95
218	61,962842	0,	0,				0,95
246	108,531036	0,	0,				0,95
248	0,074908	7,37868	0,001619				0,95
251	29,433493	0,	0,				0,95
254	132,437009	0,	0,				0,95
255	166,930906	0,	0,				0,95
257	2,384087	12,361559	0,018318				0,95
260	47,240965	0,	0,				0,95
263	185,062119	0,	0,				0,95
264	155,814405	0,	0,				0,95
266	3,155194	13,903023	0,063866				0,95
267	5,106899	6,025524	0,015708				0,95
268	0,909195	7,754877	0,00384				0,95
269	0,055313	13,019932	2,867342				0,95
270	42,640888	0,	0,				0,95
271	24,477212	0,	0,				0,95
272	167,898547	0,	0,				0,95
275	5,952775	15,8456	0,051569				0,95
276	3,249379	1,52712	0,292375				0,95
277	3,781832	0,925725	0,219003				0,95
278	2,504101	1,735724	0,070089				0,95
279	0,057552	1,584775	0,463713				0,95
280	1,183775	2,622533	0,711361				0,95
281	0,624398	4,382996	0,74354				0,95
282	1,366127	1,922295	1,483278				0,95
283	3,613903	1,29868	0,082253				0,95
284	2,349451	1,952735	0,026486				0,95
311	96,450203	0,	0,				0,95
313	150,368729	0,	0,				0,95
319	140,301604	0,	0,				0,95
326	206,749398	0,	0,				0,95

Table: Steel Design 2 - PMM Details - AISC 360-10, Part 3 of 9

Frame	PRatio	MMajRatio	MMinRatio	VMajRatio	VMinRatio	TorRatio	DCLimit
328	46,314496	0,	0,				0,95
358	1,71607	2,280854	0,139487				0,95
449	2,924207	1,510827	2,704599				0,95
464	2,928885	0,75024	1,739207				0,95
475	9,91136	17,635279	3,937087				0,95
490	3,94552	26,441429	4,348481				0,95
491	0,870762	10,274409	4,853409				0,95
521	8,293087	33,747345	0,781546				0,95
522	3,838282	26,670843	2,681408				0,95
523	1,651912	26,441429	4,348481				0,95
553	7,185315	33,719983	5,334947				0,95
554	3,448349	26,314667	2,345215				0,95
555	1,607013	26,670843	2,681408				0,95
585	7,144036	43,191973	4,358357				0,95
586	3,595092	26,146768	0,544482				0,95
587	1,443756	26,314667	2,345215				0,95
617	6,580752	42,996688	0,140627				0,95
618	3,448791	26,165074	0,232033				0,95
619	1,505195	26,146768	0,544482				0,95
649	6,697847	43,553802	0,869159				0,95
650	3,529416	25,613396	1,877593				0,95
651	1,443941	26,165074	0,232033				0,95
681	7,104294	42,729052	4,852281				0,95
682	9,686644	17,451336	3,597001				0,95
683	1,477697	25,613396	1,877593				0,95
713	9,685468	17,459834	4,224068				0,95
714	2,968803	1,335304	2,169512				0,95
715	0,904889	10,317986	2,627561				0,95
745	2,937283	0,860264	3,190569				0,95
747	0,884102	1,600776	0,037085				0,95

Table: Steel Design 2 - PMM Details - AISC 360-10, Part 4 of 9

Table: Steel Design 2 - PMM Details - AISC 360-10, Part 4 of 9

Frame	PrDsgn	PcComp	PcTension	MrMajorDsg n	McMajor	MrMinorDsg n	McMinor
		KN	KN	KN	KN-m	KN-m	KN-m
2	-55655,811	161,174	999,527	0,	115,1179	0,	22,9824
43	-83906,462	161,174	999,527	0,	115,1179	0,	22,9824
44	-98359,038	161,174	999,527	0,	115,1179	0,	22,9824
47	-81976,501	161,174	999,527	0,	115,1179	0,	22,9824
48	-97208,695	161,174	999,527	0,	115,1179	0,	22,9824
51	-82113,162	161,174	999,527	0,	115,1179	0,	22,9824
52	-98368,776	161,174	999,527	0,	115,1179	0,	22,9824
55	-83970,58	161,174	999,527	0,	115,1179	0,	22,9824
56	-98149,48	161,174	999,527	0,	115,1179	0,	22,9824
60	-98210,104	161,174	999,527	0,	115,1179	0,	22,9824
64	-100332,968	161,174	999,527	0,	115,1179	0,	22,9824
68	-70475,543	161,174	999,527	0,	115,1179	0,	22,9824
70	-3157,136	328,008	999,527	-2296,9417	115,1179	86,8513	22,9824
71	-20719,324	475,311	999,527	0,	115,1179	0,	22,9824
72	-28640,123	161,174	999,527	0,	115,1179	0,	22,9824
89	-71186,41	161,174	999,527	0,	115,1179	0,	22,9824
180	-29911,313	161,174	999,527	0,	115,1179	0,	22,9824

Table: Steel Design 2 - PMM Details - AISC 360-10, Part 4 of 9

Frame	PrDsgn	PcComp	PcTension	MrMajorDsgn	McMajor	MrMinorDsgn	McMinor
	KN	KN	KN	KN-m	KN-m	KN-m	KN-m
183	-32626,161	113,724	999,527	0,	115,1179	0,	22,9824
184	-34407,551	84,516	999,527	0,	115,1179	0,	22,9824
185	-89985,534	65,269	999,527	0,	115,1179	0,	22,9824
186	-34125,667	84,516	999,527	0,	115,1179	0,	22,9824
187	-45122,242	113,724	999,527	0,	115,1179	0,	22,9824
188	-31791,263	161,174	999,527	0,	115,1179	0,	22,9824
189	-20204,622	840,196	999,527	0,	115,1179	0,	22,9824
190	-28281,391	177,694	999,527	0,	115,1179	0,	22,9824
191	-83751,912	584,197	999,527	0,	115,1179	0,	22,9824
192	-34748,622	84,516	999,527	0,	115,1179	0,	22,9824
193	-32822,548	113,724	999,527	0,	115,1179	0,	22,9824
194	-448,253	226,875	999,527	-169,4361	87,4411	-123,661	22,9824
195	-1058,986	226,875	999,527	-203,0048	115,1179	-287,1336	22,9824
196	-895,639	226,875	999,527	-140,6701	115,1179	-158,8258	22,9824
197	-1040,326	226,875	999,527	-140,8399	115,1179	-46,1981	22,9824
198	-864,427	226,875	999,527	-156,5121	115,1179	-148,3294	22,9824
199	-1017,621	226,875	999,527	-150,8088	115,1179	-274,7787	22,9824
200	-792,978	226,875	999,527	-154,8854	115,1179	-137,5387	22,9824
201	-966,177	226,875	999,527	-140,2532	115,1179	-64,6462	22,9824
202	-446,426	226,875	999,527	-188,9336	99,0148	-10,3644	22,9824
203	-441,998	226,875	999,527	-168,4167	88,0835	-40,2955	22,9824
204	-983,194	226,875	999,527	-195,7582	115,1179	-173,4237	22,9824
205	-877,193	226,875	999,527	-140,4475	115,1179	-76,3387	22,9824
206	-966,466	226,875	999,527	-143,9786	115,1179	-20,9999	22,9824
207	-801,638	226,875	999,527	-138,028	115,1179	-52,1284	22,9824
208	-981,055	226,875	999,527	-159,6822	115,1179	-171,2821	22,9824
209	-964,667	226,875	999,527	-147,1704	115,1179	-115,8393	22,9824
210	-996,327	226,875	999,527	-213,4146	115,1179	-343,4269	22,9824
211	-407,551	226,875	999,527	-161,9434	83,0387	-97,5398	22,9824
212	-496,084	226,875	999,527	-115,2121	115,1179	-1,4209	22,9824
213	-462,136	56,719	999,527	-237,3188	58,689	-5,1297	22,9824
214	-200,325	56,719	999,527	-270,5956	52,0527	-3,4107	22,9824
215	-97710,32	657,976	999,527	0,	115,1179	0,	22,9824
216	-46317,634	657,976	999,527	0,	115,1179	0,	22,9824
217	-50965,28	657,976	999,527	0,	115,1179	0,	22,9824
218	-40770,061	657,976	999,527	0,	115,1179	0,	22,9824
246	-51585,988	475,311	999,527	0,	115,1179	0,	22,9824
248	149,745	328,926	999,527	-849,4179	115,1179	-0,0372	22,9824
251	-19366,531	657,976	999,527	0,	115,1179	0,	22,9824
254	-87140,368	657,976	999,527	0,	115,1179	0,	22,9824
255	-79344,084	475,311	999,527	0,	115,1179	0,	22,9824
257	-784,188	328,926	999,527	-1600,9158	115,1179	-0,4736	22,9824
260	-31083,419	657,976	999,527	0,	115,1179	0,	22,9824
263	-121766,425	657,976	999,527	0,	115,1179	0,	22,9824
264	-74060,29	475,311	999,527	0,	115,1179	0,	22,9824
266	-1037,825	328,926	999,527	-1800,5472	115,1179	-1,6513	22,9824
267	-1158,626	226,875	999,527	-780,3512	115,1179	-0,4061	22,9824
268	-206,273	226,875	999,527	-1004,3155	115,1179	-0,0993	22,9824
269	110,574	657,976	999,527	-1498,8268	115,1179	65,8984	22,9824
270	-28056,679	657,976	999,527	0,	115,1179	0,	22,9824
271	-16105,417	657,976	999,527	0,	115,1179	0,	22,9824
272	-110473,207	657,976	999,527	0,	115,1179	0,	22,9824
275	-337,634	56,719	999,527	-487,1912	27,3299	1,3333	22,9824

Table: Steel Design 2 - PMM Details - AISC 360-10, Part 4 of 9

Frame	PrDsgn	PcComp	PcTension	MrMajorDsgn	McMajor	MrMinorDsgn	McMinor
	KN	KN	KN	KN-m	KN-m	KN-m	KN-m
276	-737,202	226,875	999,527	-155,135	90,2993	-7,5594	22,9824
277	-858,002	226,875	999,527	-119,8884	115,1179	-5,6624	22,9824
278	-568,117	226,875	999,527	-189,272	96,9289	-1,8122	22,9824
279	-37,861	328,926	999,527	-141,1626	89,0742	-10,6573	22,9824
280	-67,142	56,719	999,527	-192,6899	65,3109	-18,3924	22,9824
281	-35,415	56,719	999,527	-216,6993	43,9475	-19,2244	22,9824
282	-449,354	328,926	999,527	186,1293	86,0681	-38,3505	22,9824
283	-819,903	226,875	999,527	-168,1889	115,1179	-2,1267	22,9824
284	-533,031	226,875	999,527	-213,4203	97,1493	-0,6848	22,9824
311	-45843,836	475,311	999,527	0,	115,1179	0,	22,9824
313	-71471,9	475,311	999,527	0,	115,1179	0,	22,9824
319	-66686,886	475,311	999,527	0,	115,1179	0,	22,9824
326	-77164,715	373,228	999,527	0,	115,1179	0,	22,9824
328	-27056,794	584,197	999,527	0,	115,1179	0,	22,9824
358	-1514,794	882,711	999,527	-295,3879	115,1179	3,6065	22,9824
449	-2581,229	882,711	999,527	195,6636	115,1179	69,928	22,9824
464	-2585,359	882,711	999,527	97,1618	115,1179	44,9676	22,9824
475	-3251,005	328,008	999,527	-2283,9027	115,1179	101,7942	22,9824
490	-1294,162	328,008	999,527	-3424,366	115,1179	112,4309	22,9824
491	-682,183	783,433	999,527	1330,614	115,1179	125,4859	22,9824
521	-2720,199	328,008	999,527	-4370,5377	115,1179	20,207	22,9824
522	-1258,987	328,008	999,527	-3454,077	115,1179	69,3284	22,9824
523	-1294,162	783,433	999,527	-3424,366	115,1179	112,4309	22,9824
553	-2356,84	328,008	999,527	-4366,9942	115,1179	137,9362	22,9824
554	-1131,086	328,008	999,527	-3407,9494	115,1179	60,636	22,9824
555	-1258,987	783,433	999,527	-3454,077	115,1179	69,3284	22,9824
585	-2343,301	328,008	999,527	-5593,6888	115,1179	112,6862	22,9824
586	-1179,219	328,008	999,527	-3386,2052	115,1179	14,0777	22,9824
587	-1131,086	783,433	999,527	-3407,9494	115,1179	60,636	22,9824
617	-2158,539	328,008	999,527	-5568,398	115,1179	3,6359	22,9824
618	-1131,231	328,008	999,527	-3388,576	115,1179	5,9993	22,9824
619	-1179,219	783,433	999,527	-3386,2052	115,1179	14,0777	22,9824
649	-2196,947	328,008	999,527	-5640,5485	115,1179	22,4723	22,9824
650	-1157,677	328,008	999,527	-3317,1295	115,1179	48,5456	22,9824
651	-1131,231	783,433	999,527	-3388,576	115,1179	5,9993	22,9824
681	-2330,265	328,008	999,527	-5533,737	115,1179	125,4568	22,9824
682	-3177,296	328,008	999,527	-2260,0806	115,1179	-93,0012	22,9824
683	-1157,677	783,433	999,527	-3317,1295	115,1179	48,5456	22,9824
713	-3176,911	328,008	999,527	-2261,1812	115,1179	-109,2142	22,9824
714	-2620,595	882,711	999,527	172,9321	115,1179	-56,0932	22,9824
715	-708,92	783,433	999,527	1336,2576	115,1179	67,9362	22,9824
745	-2592,772	882,711	999,527	111,4107	115,1179	-82,4928	22,9824
747	-780,406	882,711	999,527	207,3127	115,1179	0,9588	22,9824

Table: Steel Design 2 - PMM Details - AISC 360-10, Part 5 of 9

Table: Steel Design 2 - PMM Details - AISC 360-10, Part 5 of 9

Frame	XLMajor	XLMinor	XLLTB	K1Major	K1Minor	K2Major	K2Minor
2	1,	1,	1,	1,	1,	1,	1,
43	1,	1,	1,	1,	1,	1,	1,
44	1,	1,	1,	1,	1,	1,	1,
47	1,	1,	1,	1,	1,	1,	1,

Table: Steel Design 2 - PMM Details - AISC 360-10, Part 5 of 9

Frame	XLMajor	XLMinor	XLLTB	K1Major	K1Minor	K2Major	K2Minor
48	1,	1,	1,	1,	1,	1,	1,
51	1,	1,	1,	1,	1,	1,	1,
52	1,	1,	1,	1,	1,	1,	1,
55	1,	1,	1,	1,	1,	1,	1,
56	1,	1,	1,	1,	1,	1,	1,
60	1,	1,	1,	1,	1,	1,	1,
64	1,	1,	1,	1,	1,	1,	1,
68	1,	1,	1,	1,	1,	1,	1,
70	1,	0,066667	0,066667	1,	1,	1,	1,
71	1,	1,	1,	1,	1,	1,	1,
72	1,	1,	1,	1,	1,	1,	1,
89	1,	1,	1,	1,	1,	1,	1,
180	1,	1,	1,	1,	1,	1,	1,
183	1,	1,	1,	1,	1,	1,	1,
184	1,	1,	1,	1,	1,	1,	1,
185	1,	1,	1,	1,	1,	1,	1,
186	1,	1,	1,	1,	1,	1,	1,
187	1,	1,	1,	1,	1,	1,	1,
188	1,	1,	1,	1,	1,	1,	1,
189	1,	1,	1,	1,	1,	1,	1,
190	1,	1,	1,	1,	1,	1,	1,
191	2,352941	1,	1,	1,	1,	1,	1,
192	1,	1,	1,	1,	1,	1,	1,
193	1,	1,	1,	1,	1,	1,	1,
194	1,	1,	1,	1,	1,	1,	1,
195	1,	1,	1,	1,	1,	1,	1,
196	1,	1,	1,	1,	1,	1,	1,
197	1,	1,	1,	1,	1,	1,	1,
198	1,	1,	1,	1,	1,	1,	1,
199	1,	1,	1,	1,	1,	1,	1,
200	1,	1,	1,	1,	1,	1,	1,
201	1,	1,	1,	1,	1,	1,	1,
202	1,	1,	1,	1,	1,	1,	1,
203	1,	1,	1,	1,	1,	1,	1,
204	1,	1,	1,	1,	1,	1,	1,
205	1,	1,	1,	1,	1,	1,	1,
206	1,	1,	1,	1,	1,	1,	1,
207	1,	1,	1,	1,	1,	1,	1,
208	1,	1,	1,	1,	1,	1,	1,
209	1,	1,	1,	1,	1,	1,	1,
210	1,	1,	1,	1,	1,	1,	1,
211	1,	1,	1,	1,	1,	1,	1,
212	1,	1,	1,	1,	1,	1,	1,
213	1,	2,	2,	1,	1,	1,	1,
214	1,	2,	2,	1,	1,	1,	1,
215	1,	1,	1,	1,	1,	1,	1,
216	1,	1,	1,	1,	1,	1,	1,
217	1,	1,	1,	1,	1,	1,	1,
218	1,	1,	1,	1,	1,	1,	1,
246	1,	1,176471	1,176471	1,	1,	1,	1,
248	0,830508	0,830508	0,830508	1,	1,	1,	1,
251	1,	1,	1,	1,	1,	1,	1,
254	1,	1,	1,	1,	1,	1,	1,
255	1,	1,176471	1,176471	1,	1,	1,	1,

Table: Steel Design 2 - PMM Details - AISC 360-10, Part 5 of 9

Frame	XLMajor	XLMinor	XLLTB	K1Major	K1Minor	K2Major	K2Minor
257	0,830508	0,830508	0,830508	1,	1,	1,	1,
260	1,	1,	1,	1,	1,	1,	1,
263	1,	1,	1,	1,	1,	1,	1,
264	1,	1,176471	1,176471	1,	1,	1,	1,
266	1,	0,830508	0,830508	1,	1,	1,	1,
267	1,	1,	1,	1,	1,	1,	1,
268	1,	1,	1,	1,	1,	1,	1,
269	1,	1,	1,	1,	1,	1,	1,
270	1,	1,	1,	1,	1,	1,	1,
271	1,	1,	1,	1,	1,	1,	1,
272	1,	1,	1,	1,	1,	1,	1,
275	1,	1,	1,	1,	1,	1,	1,
276	1,	1,	1,	1,	1,	1,	1,
277	1,	1,	1,	1,	1,	1,	1,
278	1,	1,	1,	1,	1,	1,	1,
279	0,830508	0,830508	0,830508	1,	1,	1,	1,
280	1,	2,	2,	1,	1,	1,	1,
281	1,	2,	2,	1,	1,	1,	1,
282	0,830508	0,830508	0,830508	1,	1,	1,	1,
283	1,	1,	1,	1,	1,	1,	1,
284	1,	1,	1,	1,	1,	1,	1,
311	1,	6,666667	6,666667	1,	1,	1,	1,
313	1,	6,666667	6,666667	1,	1,	1,	1,
319	1,	6,666667	6,666667	1,	1,	1,	1,
326	1,73913	1,	1,	1,	1,	1,	1,
328	1,	1,	1,	1,	1,	1,	1,
358	0,714286	0,142857	0,142857	1,	1,	1,	1,
449	0,333333	0,066667	0,066667	1,	1,	1,	1,
464	0,625	0,125	0,125	1,	1,	1,	1,
475	1,	0,066667	0,066667	1,	1,	1,	1,
490	1,	0,066667	0,066667	1,	1,	1,	1,
491	1,	0,142857	0,142857	1,	1,	1,	1,
521	1,	0,066667	0,066667	1,	1,	1,	1,
522	1,	0,066667	0,066667	1,	1,	1,	1,
523	1,	0,142857	0,142857	1,	1,	1,	1,
553	1,	0,066667	0,066667	1,	1,	1,	1,
554	1,	0,066667	0,066667	1,	1,	1,	1,
555	1,	0,142857	0,142857	1,	1,	1,	1,
585	1,	0,066667	0,066667	1,	1,	1,	1,
586	1,	0,066667	0,066667	1,	1,	1,	1,
587	1,	0,142857	0,142857	1,	1,	1,	1,
617	1,	0,066667	0,066667	1,	1,	1,	1,
618	1,	0,066667	0,066667	1,	1,	1,	1,
619	1,	0,142857	0,142857	1,	1,	1,	1,
649	1,	0,066667	0,066667	1,	1,	1,	1,
650	1,	0,066667	0,066667	1,	1,	1,	1,
651	1,	0,142857	0,142857	1,	1,	1,	1,
681	1,	0,066667	0,066667	1,	1,	1,	1,
682	1,	0,066667	0,066667	1,	1,	1,	1,
683	1,	0,142857	0,142857	1,	1,	1,	1,
713	1,	0,066667	0,066667	1,	1,	1,	1,
714	0,333333	0,066667	0,066667	1,	1,	1,	1,
715	1,	0,142857	0,142857	1,	1,	1,	1,
745	0,333333	0,066667	0,066667	1,	1,	1,	1,

Table: Steel Design 2 - PMM Details - AISC 360-10, Part 5 of 9

Frame	XLMajor	XLMinor	XLLTB	K1Major	K1Minor	K2Major	K2Minor
747	0,714286	0,142857	0,142857	1,	1,	1,	1,

Table: Steel Design 2 - PMM Details - AISC 360-10, Part 6 of 9**Table: Steel Design 2 - PMM Details - AISC 360-10, Part 6 of 9**

Frame	KLTB	CmMajor	CmMinor	Cb	B1Major	B1Minor	B2Major
2	1,	1,	1,	4,996117	1,	1,	1,
43	1,	1,	1,	6,938562	1,	1,	1,
44	1,	1,	1,	6,93691	1,	1,	1,
47	1,	1,	1,	6,844336	1,	1,	1,
48	1,	1,	1,	6,904278	1,	1,	1,
51	1,	1,	1,	6,872441	1,	1,	1,
52	1,	1,	1,	6,962656	1,	1,	1,
55	1,	1,	1,	6,961247	1,	1,	1,
56	1,	1,	1,	6,959949	1,	1,	1,
60	1,	1,	1,	7,375497	1,	1,	1,
64	1,	1,	1,	7,457479	1,	1,	1,
68	1,	1,	1,	5,556873	1,	1,	1,
70	1,	1,	1,	1,022886	1,	1,	1,
71	1,	1,	1,	2,037423	1,	1,	1,
72	1,	1,	1,	3,494807	1,	1,	1,
89	1,	1,	1,	5,53712	1,	1,	1,
180	1,	1,	1,	3,833126	1,	1,	1,
183	1,	1,	1,	4,078804	1,	1,	1,
184	1,	1,	1,	4,64277	1,	1,	1,
185	1,	1,	1,	10,319766	1,	1,	1,
186	1,	1,	1,	4,778953	1,	1,	1,
187	1,	1,	1,	5,303437	1,	1,	1,
188	1,	1,	1,	2,819755	1,	1,	1,
189	1,	1,	1,	1,566804	1,	1,	1,
190	1,	1,	1,	3,451664	1,	1,	1,
191	1,	1,	1,	2,606431	1,	1,	1,
192	1,	1,	1,	4,609198	1,	1,	1,
193	1,	1,	1,	3,416053	1,	1,	1,
194	1,	1,	0,672329	1,56295	1,	1,	1,
195	1,	1,	0,991736	2,878598	1,	1,	1,
196	1,	1,	0,685622	2,453626	1,	1,	1,
197	1,	1,	0,739716	2,333529	1,	1,	1,
198	1,	1,	0,714733	2,675203	1,	1,	1,
199	1,	1,	0,975589	2,353815	1,	1,	1,
200	1,	1,	0,836117	2,319872	1,	1,	1,
201	1,	1,	0,922555	2,951689	1,	1,	1,
202	1,	1,	0,963122	1,769823	1,	1,	1,
203	1,	1,	0,631864	1,574433	1,	1,	1,
204	1,	1,	0,993696	2,88376	1,	1,	1,
205	1,	1,	0,737919	2,379291	1,	1,	1,
206	1,	1,	0,816817	2,458921	1,	1,	1,
207	1,	1,	0,851682	2,311922	1,	1,	1,
208	1,	1,	0,954823	2,479494	1,	1,	1,
209	1,	1,	0,656366	2,695217	1,	1,	1,
210	1,	1,	0,990781	2,79928	1,	1,	1,
211	1,	1,	0,664616	1,48426	1,	1,	1,

Table: Steel Design 2 - PMM Details - AISC 360-10, Part 6 of 9

Frame	KLTB	CmMajor	CmMinor	Cb	B1Major	B1Minor	B2Major
212	1,	1,	1,	2,49463	1,	1,	1,
213	1,	1,	1,	2,581513	1,	1,	1,
214	1,	1,	1,	2,28961	1,	1,	1,
215	1,	1,	1,	3,448726	1,	1,	1,
216	1,	1,	1,	2,978167	1,	1,	1,
217	1,	1,	1,	3,018466	1,	1,	1,
218	1,	1,	1,	2,855133	1,	1,	1,
246	1,	1,	1,	3,139204	1,	1,	1,
248	1,	1,	1,	2,748765	1,	1,	1,
251	1,	1,	1,	1,607807	1,	1,	1,
254	1,	1,	1,	2,915047	1,	1,	1,
255	1,	1,	1,	4,00433	1,	1,	1,
257	1,	1,	1,	2,637732	1,	1,	1,
260	1,	1,	1,	1,949589	1,	1,	1,
263	1,	1,	1,	1,965425	1,	1,	1,
264	1,	1,	1,	3,829614	1,	1,	1,
266	1,	1,	1,	2,430246	1,	1,	1,
267	1,	1,	1,	2,377006	1,	1,	1,
268	1,	1,	1,	2,169496	1,	1,	1,
269	1,	1,	1,	1,944064	1,	1,	1,
270	1,	1,	1,	2,541277	1,	1,	1,
271	1,	1,	1,	2,344302	1,	1,	1,
272	1,	1,	1,	2,551435	1,	1,	1,
275	1,	1,	1,	1,202143	1,	1,	1,
276	1,	1,	1,	1,614038	1,	1,	1,
277	1,	1,	1,	3,	1,	1,	1,
278	1,	1,	1,	1,732537	1,	1,	1,
279	1,	1,	1,	1,222224	1,	1,	1,
280	1,	1,	1,	2,872786	1,	1,	1,
281	1,	1,	1,	1,933089	1,	1,	1,
282	1,	1,	1,	1,180976	1,	1,	1,
283	1,	1,	1,	2,744175	1,	1,	1,
284	1,	1,	1,	1,736478	1,	1,	1,
311	1,	1,	1,	1,818077	1,	1,	1,
313	1,	1,	1,	2,197497	1,	1,	1,
319	1,	1,	1,	2,119016	1,	1,	1,
326	1,	1,	1,	4,188848	1,	1,	1,
328	1,	1,	1,	2,246505	1,	1,	1,
358	1,	1,	1,	1,268707	1,	1,	1,
449	1,	1,	1,	1,024698	1,	1,	1,
464	1,	1,	1,	1,789212	1,	1,	1,
475	1,	1,	1,	1,007643	1,	1,	1,
490	1,	1,	1,	1,144086	1,	1,	1,
491	1,	1,	1,	1,321187	1,	1,	1,
521	1,	1,	1,	1,092069	1,	1,	1,
522	1,	1,	1,	1,148001	1,	1,	1,
523	1,	1,	1,	1,222889	1,	1,	1,
553	1,	1,	1,	1,090592	1,	1,	1,
554	1,	1,	1,	1,116339	1,	1,	1,
555	1,	1,	1,	1,219366	1,	1,	1,
585	1,	1,	1,	1,158704	1,	1,	1,
586	1,	1,	1,	1,114113	1,	1,	1,
587	1,	1,	1,	1,25533	1,	1,	1,
617	1,	1,	1,	1,157975	1,	1,	1,

Table: Steel Design 2 - PMM Details - AISC 360-10, Part 6 of 9

Frame	KLTB	CmMajor	CmMinor	Cb	B1Major	B1Minor	B2Major
618	1,	1,	1,	1,113524	1,	1,	1,
619	1,	1,	1,	1,258746	1,	1,	1,
649	1,	1,	1,	1,163015	1,	1,	1,
650	1,	1,	1,	1,107623	1,	1,	1,
651	1,	1,	1,	1,259235	1,	1,	1,
681	1,	1,	1,	1,157824	1,	1,	1,
682	1,	1,	1,	1,021865	1,	1,	1,
683	1,	1,	1,	1,269008	1,	1,	1,
713	1,	1,	1,	1,008407	1,	1,	1,
714	1,	1,	1,	1,053134	1,	1,	1,
715	1,	1,	1,	1,323956	1,	1,	1,
745	1,	1,	1,	1,172607	1,	1,	1,
747	1,	1,	1,	1,498156	1,	1,	1,

Table: Steel Design 2 - PMM Details - AISC 360-10, Part 7 of 9

Table: Steel Design 2 - PMM Details - AISC 360-10, Part 7 of 9

Frame	B2Minor	Fy KN/m ²	E KN/m ²	Length m	MajAxisAng Degrees	RLLF	SectClass
2	1,	245000,	200000000,	7,	0,	1,	Compact
43	1,	245000,	200000000,	7,	0,	1,	Compact
44	1,	245000,	200000000,	7,	0,	1,	Compact
47	1,	245000,	200000000,	7,	0,	1,	Compact
48	1,	245000,	200000000,	7,	0,	1,	Compact
51	1,	245000,	200000000,	7,	0,	1,	Compact
52	1,	245000,	200000000,	7,	0,	1,	Compact
55	1,	245000,	200000000,	7,	0,	1,	Compact
56	1,	245000,	200000000,	7,	0,	1,	Compact
60	1,	245000,	200000000,	7,	0,	1,	Compact
64	1,	245000,	200000000,	7,	0,	1,	Compact
68	1,	245000,	200000000,	7,	0,	1,	Compact
70	1,	245000,	200000000,	18,14635	0,	1,	Compact
71	1,	245000,	200000000,	4,	0,	1,	Compact
72	1,	245000,	200000000,	7,	0,	1,	Compact
89	1,	245000,	200000000,	7,	0,	1,	Compact
180	1,	245000,	200000000,	7,	0,	1,	Compact
183	1,	245000,	200000000,	8,33333	0,	1,	Compact
184	1,	245000,	200000000,	9,66667	0,	1,	Compact
185	1,	245000,	200000000,	11,	0,	1,	Compact
186	1,	245000,	200000000,	9,66667	0,	1,	Compact
187	1,	245000,	200000000,	8,33333	0,	1,	Compact
188	1,	245000,	200000000,	7,	0,	1,	Compact
189	1,	245000,	200000000,	1,93333	0,	1,	Compact
190	1,	245000,	200000000,	6,66667	0,	1,	Compact
191	1,	245000,	200000000,	3,4	0,	1,	Compact
192	1,	245000,	200000000,	9,66667	0,	1,	Compact
193	1,	245000,	200000000,	8,33333	0,	1,	Compact
194	1,	245000,	200000000,	5,9	0,	1,	Seismic HD
195	1,	245000,	200000000,	5,9	0,	1,	Compact
196	1,	245000,	200000000,	5,9	0,	1,	Seismic HD
197	1,	245000,	200000000,	5,9	0,	1,	Compact
198	1,	245000,	200000000,	5,9	0,	1,	Seismic HD
199	1,	245000,	200000000,	5,9	0,	1,	Compact

Table: Steel Design 2 - PMM Details - AISC 360-10, Part 7 of 9

Frame	B2Minor	Fy KN/m2	E KN/m2	Length m	MajAxisAng Degrees	RLLF	SectClass
200	1,	245000,	200000000,	5,9	0,	1,	Seismic HD
201	1,	245000,	200000000,	5,9	0,	1,	Seismic MD
202	1,	245000,	200000000,	5,9	0,	1,	Seismic HD
203	1,	245000,	200000000,	5,9	0,	1,	Seismic HD
204	1,	245000,	200000000,	5,9	0,	1,	Compact
205	1,	245000,	200000000,	5,9	0,	1,	Seismic HD
206	1,	245000,	200000000,	5,9	0,	1,	Seismic MD
207	1,	245000,	200000000,	5,9	0,	1,	Seismic HD
208	1,	245000,	200000000,	5,9	0,	1,	Compact
209	1,	245000,	200000000,	5,9	0,	1,	Seismic MD
210	1,	245000,	200000000,	5,9	0,	1,	Compact
211	1,	245000,	200000000,	5,9	0,	1,	Seismic HD
212	1,	245000,	200000000,	5,9	0,	1,	Seismic HD
213	1,	245000,	200000000,	5,9	0,	1,	Seismic HD
214	1,	245000,	200000000,	5,9	0,	1,	Seismic HD
215	1,	245000,	200000000,	3,	0,	1,	Compact
216	1,	245000,	200000000,	3,	0,	1,	Compact
217	1,	245000,	200000000,	3,	0,	1,	Compact
218	1,	245000,	200000000,	3,	0,	1,	Compact
246	1,	245000,	200000000,	3,4	0,	1,	Compact
248	1,	245000,	200000000,	5,9	0,	1,	Compact
251	1,	245000,	200000000,	3,	0,	1,	Compact
254	1,	245000,	200000000,	3,	0,	1,	Compact
255	1,	245000,	200000000,	3,4	0,	1,	Compact
257	1,	245000,	200000000,	5,9	0,	1,	Seismic HD
260	1,	245000,	200000000,	3,	0,	1,	Compact
263	1,	245000,	200000000,	3,	0,	1,	Compact
264	1,	245000,	200000000,	3,4	0,	1,	Compact
266	1,	245000,	200000000,	5,9	0,	1,	Compact
267	1,	245000,	200000000,	5,9	0,	1,	Compact
268	1,	245000,	200000000,	5,9	0,	1,	Seismic HD
269	1,	245000,	200000000,	3,	0,	1,	Seismic HD
270	1,	245000,	200000000,	3,	0,	1,	Compact
271	1,	245000,	200000000,	3,	0,	1,	Compact
272	1,	245000,	200000000,	3,	0,	1,	Compact
275	1,	245000,	200000000,	11,8	0,	1,	Compact
276	1,	245000,	200000000,	5,9	0,	1,	Seismic HD
277	1,	245000,	200000000,	5,9	0,	1,	Seismic HD
278	1,	245000,	200000000,	5,9	0,	1,	Seismic HD
279	1,	245000,	200000000,	5,9	0,	1,	Seismic HD
280	1,	245000,	200000000,	5,9	0,	1,	Seismic HD
281	1,	245000,	200000000,	5,9	0,	1,	Seismic HD
282	1,	245000,	200000000,	5,9	0,	1,	Compact
283	1,	245000,	200000000,	5,9	0,	1,	Seismic HD
284	1,	245000,	200000000,	5,9	0,	1,	Seismic HD
311	1,	245000,	200000000,	0,6	0,	1,	Compact
313	1,	245000,	200000000,	0,6	0,	1,	Compact
319	1,	245000,	200000000,	0,6	0,	1,	Compact
326	1,	245000,	200000000,	4,6	0,	1,	Compact
328	1,	245000,	200000000,	3,4	0,	1,	Compact
358	1,	245000,	200000000,	8,4683	0,	1,	Compact
449	1,	245000,	200000000,	18,14635	0,	1,	Compact
464	1,	245000,	200000000,	9,67805	0,	1,	Compact
475	1,	245000,	200000000,	18,14635	0,	1,	Compact

Table: Steel Design 2 - PMM Details - AISC 360-10, Part 7 of 9

Frame	B2Minor	Fy KN/m2	E KN/m2	Length m	MajAxisAng Degrees	RLLF	SectClass
490	1,	245000,	200000000,	18,14635	0,	1,	Compact
491	1,	245000,	200000000,	8,4683	0,	1,	Compact
521	1,	245000,	200000000,	18,14635	0,	1,	Compact
522	1,	245000,	200000000,	18,14635	0,	1,	Compact
523	1,	245000,	200000000,	8,4683	0,	1,	Compact
553	1,	245000,	200000000,	18,14635	0,	1,	Compact
554	1,	245000,	200000000,	18,14635	0,	1,	Compact
555	1,	245000,	200000000,	8,4683	0,	1,	Compact
585	1,	245000,	200000000,	18,14635	0,	1,	Compact
586	1,	245000,	200000000,	18,14635	0,	1,	Compact
587	1,	245000,	200000000,	8,4683	0,	1,	Compact
617	1,	245000,	200000000,	18,14635	0,	1,	Compact
618	1,	245000,	200000000,	18,14635	0,	1,	Compact
619	1,	245000,	200000000,	8,4683	0,	1,	Compact
649	1,	245000,	200000000,	18,14635	0,	1,	Compact
650	1,	245000,	200000000,	18,14635	0,	1,	Compact
651	1,	245000,	200000000,	8,4683	0,	1,	Compact
681	1,	245000,	200000000,	18,14635	0,	1,	Compact
682	1,	245000,	200000000,	18,14635	0,	1,	Compact
683	1,	245000,	200000000,	8,4683	0,	1,	Compact
713	1,	245000,	200000000,	18,14635	0,	1,	Compact
714	1,	245000,	200000000,	18,14635	0,	1,	Compact
715	1,	245000,	200000000,	8,4683	0,	1,	Compact
745	1,	245000,	200000000,	18,14635	0,	1,	Compact
747	1,	245000,	200000000,	8,4683	0,	1,	Compact

Table: Steel Design 2 - PMM Details - AISC 360-10, Part 8 of 9

Table: Steel Design 2 - PMM Details - AISC 360-10, Part 8 of 9

Frame	FramingType	SDC	Omega0	SystemCd	ErrMsg
2	Intermediate Moment Frame	D	3,	4,	No Messages
43	Intermediate Moment Frame	D	3,	4,	No Messages
44	Intermediate Moment Frame	D	3,	4,	No Messages
47	Intermediate Moment Frame	D	3,	4,	No Messages
48	Intermediate Moment Frame	D	3,	4,	No Messages
51	Intermediate Moment Frame	D	3,	4,	No Messages
52	Intermediate Moment Frame	D	3,	4,	No Messages
55	Intermediate Moment Frame	D	3,	4,	No Messages
56	Intermediate Moment Frame	D	3,	4,	No Messages
60	Intermediate Moment Frame	D	3,	4,	No Messages
64	Intermediate Moment Frame	D	3,	4,	No Messages
68	Intermediate Moment Frame	D	3,	4,	No Messages

Table: Steel Design 2 - PMM Details - AISC 360-10, Part 8 of 9

Frame	FramingType	SDC	Omega0	SystemCd	ErrMsg
70	Intermediate Moment Frame	D	3,	4,	No Messages
71	Intermediate Moment Frame	D	3,	4,	No Messages
72	Intermediate Moment Frame	D	3,	4,	No Messages
89	Intermediate Moment Frame	D	3,	4,	No Messages
180	Intermediate Moment Frame	D	3,	4,	No Messages
183	Intermediate Moment Frame	D	3,	4,	No Messages
184	Intermediate Moment Frame	D	3,	4,	No Messages
185	Intermediate Moment Frame	D	3,	4,	No Messages
186	Intermediate Moment Frame	D	3,	4,	No Messages
187	Intermediate Moment Frame	D	3,	4,	No Messages
188	Intermediate Moment Frame	D	3,	4,	No Messages
189	Intermediate Moment Frame	D	3,	4,	No Messages
190	Intermediate Moment Frame	D	3,	4,	No Messages
191	Intermediate Moment Frame	D	3,	4,	No Messages
192	Intermediate Moment Frame	D	3,	4,	No Messages
193	Intermediate Moment Frame	D	3,	4,	No Messages
194	Intermediate Moment Frame	D	3,	4,	No Messages
195	Intermediate Moment Frame	D	3,	4,	No Messages
196	Intermediate Moment Frame	D	3,	4,	No Messages
197	Intermediate Moment Frame	D	3,	4,	No Messages
198	Intermediate Moment Frame	D	3,	4,	No Messages
199	Intermediate Moment Frame	D	3,	4,	No Messages
200	Intermediate Moment Frame	D	3,	4,	No Messages
201	Intermediate Moment Frame	D	3,	4,	No Messages
202	Intermediate Moment Frame	D	3,	4,	No Messages
203	Intermediate Moment Frame	D	3,	4,	No Messages
204	Intermediate Moment Frame	D	3,	4,	No Messages
205	Intermediate Moment Frame	D	3,	4,	No Messages
206	Intermediate Moment Frame	D	3,	4,	No Messages
207	Intermediate Moment Frame	D	3,	4,	No Messages

Table: Steel Design 2 - PMM Details - AISC 360-10, Part 8 of 9

Frame	FramingType	SDC	Omega0	SystemCd	ErrMsg
208	Intermediate Moment Frame	D	3,	4,	No Messages
209	Intermediate Moment Frame	D	3,	4,	No Messages
210	Intermediate Moment Frame	D	3,	4,	No Messages
211	Intermediate Moment Frame	D	3,	4,	No Messages
212	Intermediate Moment Frame	D	3,	4,	No Messages
213	Intermediate Moment Frame	D	3,	4,	No Messages
214	Intermediate Moment Frame	D	3,	4,	No Messages
215	Intermediate Moment Frame	D	3,	4,	No Messages
216	Intermediate Moment Frame	D	3,	4,	No Messages
217	Intermediate Moment Frame	D	3,	4,	No Messages
218	Intermediate Moment Frame	D	3,	4,	No Messages
246	Intermediate Moment Frame	D	3,	4,	No Messages
248	Intermediate Moment Frame	D	3,	4,	No Messages
251	Intermediate Moment Frame	D	3,	4,	No Messages
254	Intermediate Moment Frame	D	3,	4,	No Messages
255	Intermediate Moment Frame	D	3,	4,	No Messages
257	Intermediate Moment Frame	D	3,	4,	No Messages
260	Intermediate Moment Frame	D	3,	4,	No Messages
263	Intermediate Moment Frame	D	3,	4,	No Messages
264	Intermediate Moment Frame	D	3,	4,	No Messages
266	Intermediate Moment Frame	D	3,	4,	No Messages
267	Intermediate Moment Frame	D	3,	4,	No Messages
268	Intermediate Moment Frame	D	3,	4,	No Messages
269	Intermediate Moment Frame	D	3,	4,	No Messages
270	Intermediate Moment Frame	D	3,	4,	No Messages
271	Intermediate Moment Frame	D	3,	4,	No Messages
272	Intermediate Moment Frame	D	3,	4,	No Messages
275	Intermediate Moment Frame	D	3,	4,	No Messages
276	Intermediate Moment Frame	D	3,	4,	No Messages
277	Intermediate Moment Frame	D	3,	4,	No Messages

Table: Steel Design 2 - PMM Details - AISC 360-10, Part 8 of 9

Frame	FramingType	SDC	Omega0	SystemCd	ErrMsg
278	Intermediate Moment Frame	D	3,	4,	No Messages
279	Intermediate Moment Frame	D	3,	4,	No Messages
280	Intermediate Moment Frame	D	3,	4,	No Messages
281	Intermediate Moment Frame	D	3,	4,	No Messages
282	Intermediate Moment Frame	D	3,	4,	No Messages
283	Intermediate Moment Frame	D	3,	4,	No Messages
284	Intermediate Moment Frame	D	3,	4,	No Messages
311	Intermediate Moment Frame	D	3,	4,	No Messages
313	Intermediate Moment Frame	D	3,	4,	No Messages
319	Intermediate Moment Frame	D	3,	4,	No Messages
326	Intermediate Moment Frame	D	3,	4,	No Messages
328	Intermediate Moment Frame	D	3,	4,	No Messages
358	Intermediate Moment Frame	D	3,	4,	No Messages
449	Intermediate Moment Frame	D	3,	4,	No Messages
464	Intermediate Moment Frame	D	3,	4,	No Messages
475	Intermediate Moment Frame	D	3,	4,	No Messages
490	Intermediate Moment Frame	D	3,	4,	No Messages
491	Intermediate Moment Frame	D	3,	4,	No Messages
521	Intermediate Moment Frame	D	3,	4,	No Messages
522	Intermediate Moment Frame	D	3,	4,	No Messages
523	Intermediate Moment Frame	D	3,	4,	No Messages
553	Intermediate Moment Frame	D	3,	4,	No Messages
554	Intermediate Moment Frame	D	3,	4,	No Messages
555	Intermediate Moment Frame	D	3,	4,	No Messages
585	Intermediate Moment Frame	D	3,	4,	No Messages
586	Intermediate Moment Frame	D	3,	4,	No Messages
587	Intermediate Moment Frame	D	3,	4,	No Messages
617	Intermediate Moment Frame	D	3,	4,	No Messages
618	Intermediate Moment Frame	D	3,	4,	No Messages
619	Intermediate Moment Frame	D	3,	4,	No Messages

Table: Steel Design 2 - PMM Details - AISC 360-10, Part 8 of 9

Frame	FramingType	SDC	Omega0	SystemCd	ErrMsg
649	Intermediate Moment Frame	D	3,	4,	No Messages
650	Intermediate Moment Frame	D	3,	4,	No Messages
651	Intermediate Moment Frame	D	3,	4,	No Messages
681	Intermediate Moment Frame	D	3,	4,	No Messages
682	Intermediate Moment Frame	D	3,	4,	No Messages
683	Intermediate Moment Frame	D	3,	4,	No Messages
713	Intermediate Moment Frame	D	3,	4,	No Messages
714	Intermediate Moment Frame	D	3,	4,	No Messages
715	Intermediate Moment Frame	D	3,	4,	No Messages
745	Intermediate Moment Frame	D	3,	4,	No Messages
747	Intermediate Moment Frame	D	3,	4,	No Messages

Table: Steel Design 2 - PMM Details - AISC 360-10, Part 9 of 9

Table: Steel Design 2 - PMM Details - AISC 360-10, Part 9 of 9

Frame	WarnMsg
2	No Messages
43	No Messages
44	No Messages
47	No Messages
48	No Messages
51	No Messages
52	No Messages
55	No Messages
56	No Messages
60	No Messages
64	No Messages
68	No Messages
70	No Messages
71	No Messages
72	No Messages
89	No Messages
180	No Messages
183	No Messages
184	No Messages
185	No Messages
186	No Messages
187	No Messages
188	No Messages
189	No Messages
190	No Messages
191	No Messages
192	No Messages

Table: Steel Design 2 - PMM Details - AISC 360-10, Part 9
of 9

Frame	WarnMsg
193	No Messages
194	No Messages
195	No Messages
196	No Messages
197	No Messages
198	No Messages
199	No Messages
200	No Messages
201	No Messages
202	No Messages
203	No Messages
204	No Messages
205	No Messages
206	No Messages
207	No Messages
208	No Messages
209	No Messages
210	No Messages
211	No Messages
212	No Messages
213	No Messages
214	No Messages
215	No Messages
216	No Messages
217	No Messages
218	No Messages
246	No Messages
248	No Messages
251	No Messages
254	No Messages
255	No Messages
257	No Messages
260	No Messages
263	No Messages
264	No Messages
266	No Messages
267	No Messages
268	No Messages
269	No Messages
270	No Messages
271	No Messages
272	No Messages
275	No Messages
276	No Messages
277	No Messages
278	No Messages
279	No Messages
280	No Messages
281	No Messages
282	No Messages
283	No Messages
284	No Messages
311	No Messages

Table: Steel Design 2 - PMM Details - AISC 360-10, Part 9 of 9

Frame	WarnMsg
313	No Messages
319	No Messages
326	No Messages
328	No Messages
358	No Messages
449	No Messages
464	No Messages
475	No Messages
490	No Messages
491	No Messages
521	No Messages
522	No Messages
523	No Messages
553	No Messages
554	No Messages
555	No Messages
585	No Messages
586	No Messages
587	No Messages
617	No Messages
618	No Messages
619	No Messages
649	No Messages
650	No Messages
651	No Messages
681	No Messages
682	No Messages
683	No Messages
713	No Messages
714	No Messages
715	No Messages
745	No Messages
747	No Messages

Table: Steel Design 3 - Shear Details - AISC 360-10, Part 1 of 4

Table: Steel Design 3 - Shear Details - AISC 360-10, Part 1 of 4

Frame	DesignSect	DesignType	Status	VMajorCombo	VMajorLoc	VMajorRatio
2	IWF 150 X 300	Column	Overstressed	COMB18	0,	2,026719
43	IWF 150 X 300	Column	Overstressed	COMB1	0,	6,597516
44	IWF 150 X 300	Column	Overstressed	COMB1	0,	6,670781
47	IWF 150 X 300	Column	Overstressed	COMB1	0,	6,707188
48	IWF 150 X 300	Column	Overstressed	COMB1	0,	6,81825
51	IWF 150 X 300	Column	Overstressed	COMB1	0,	6,586838
52	IWF 150 X 300	Column	Overstressed	COMB1	0,	6,854437
55	IWF 150 X 300	Column	Overstressed	COMB1	0,	6,638136
56	IWF 150 X 300	Column	Overstressed	COMB1	0,	6,890882
60	IWF 150 X 300	Column	Overstressed	COMB1	0,	7,697437
64	IWF 150 X 300	Column	Overstressed	COMB1	0,	7,6426
68	IWF 150 X 300	Column	Overstressed	COMB18	0,	2,513307
70	RFTER 150 X 300	Brace	Overstressed	COMB1	0,	3,140759
71	IWF 150 X 300	Column	No Messages	COMB14	0,	0,154891

Table: Steel Design 3 - Shear Details - AISC 360-10, Part 1 of 4

Frame	DesignSect	DesignType	Status	VMajorCombo	VMajorLoc	VMajorRatio
					m	
72	IWF 150 X 300	Column	No Messages	COMB14	0,	0,143896
89	IWF 150 X 300	Column	Overstressed	COMB18	0,	2,49237
180	IWF 150 X 300	Column	No Messages	COMB14	0,	0,271901
183	IWF 150 X 300	Column	No Messages	COMB14	0,	0,123614
184	IWF 150 X 300	Column	No Messages	COMB14	0,	0,085264
185	IWF 150 X 300	Column	No Messages	COMB14	0,	0,055258
186	IWF 150 X 300	Column	No Messages	COMB14	0,	0,070336
187	IWF 150 X 300	Column	No Messages	COMB14	0,	0,131582
188	IWF 150 X 300	Column	No Messages	COMB14	0,	0,057121
189	IWF 150 X 300	Column	No Messages	COMB14	0,	0,282626
190	IWF 150 X 300	Column	No Messages	COMB14	0,	0,135021
191	IWF 150 X 300	Column	No Messages	COMB14	0,	0,148031
192	IWF 150 X 300	Column	No Messages	COMB14	0,	0,025966
193	IWF 150 X 300	Column	No Messages	COMB14	0,	0,024428
194	IWF 150 X 300	Beam	No Messages	COMB1	5,9	0,674966
195	IWF 150 X 300	Beam	No Messages	COMB1	0,	0,630472
196	IWF 150 X 300	Beam	No Messages	COMB1	5,9	0,575189
197	IWF 150 X 300	Beam	No Messages	COMB1	0,	0,571786
198	IWF 150 X 300	Beam	No Messages	COMB1	5,9	0,578573
199	IWF 150 X 300	Beam	No Messages	COMB1	5,9	0,582148
200	IWF 150 X 300	Beam	No Messages	COMB1	0,	0,590797
201	IWF 150 X 300	Beam	No Messages	COMB1	5,9	0,588602
202	IWF 150 X 300	Beam	No Messages	COMB1	0,	0,691013
203	IWF 150 X 300	Beam	No Messages	COMB1	5,9	0,671473
204	IWF 150 X 300	Beam	No Messages	COMB1	0,	0,622034
205	IWF 150 X 300	Beam	No Messages	COMB1	5,9	0,573425
206	IWF 150 X 300	Beam	No Messages	COMB1	5,9	0,571877
207	IWF 150 X 300	Beam	No Messages	COMB1	0,	0,57408
208	IWF 150 X 300	Beam	No Messages	COMB1	0,	0,591446
209	IWF 150 X 300	Beam	No Messages	COMB1	0,	0,574365
210	IWF 150 X 300	Beam	No Messages	COMB1	5,9	0,646868
211	IWF 150 X 300	Beam	No Messages	COMB1	0,	0,668901
212	IWF 150 X 300	Beam	No Messages	COMB6	0,	0,801845
213	IWF 150 X 300	Beam	No Messages	COMB1	0,	0,679618
214	IWF 150 X 300	Beam	No Messages	COMB1	0,	0,752966
215	IWF 150 X 300	Column	No Messages	COMB14	0,	0,625438
216	IWF 150 X 300	Column	No Messages	COMB14	3,	0,906057
217	IWF 150 X 300	Column	No Messages	COMB14	3,	0,936505
218	IWF 150 X 300	Column	Overstressed	COMB1	0,	1,023283
246	IWF 150 X 300	Column	Overstressed	COMB18	0,	2,841007
248	IWF 150 X 300	Beam	Overstressed	COMB4	0,	1,668843
251	IWF 150 X 300	Column	No Messages	COMB1	0,	0,06582
254	IWF 150 X 300	Column	Overstressed	COMB18	0,	1,120811
255	IWF 150 X 300	Column	Overstressed	COMB1	0,	6,6195
257	IWF 150 X 300	Beam	Overstressed	COMB1	0,	2,730011
260	IWF 150 X 300	Column	Overstressed	COMB14	0,	1,133946
263	IWF 150 X 300	Column	No Messages	COMB6	0,	0,154545
264	IWF 150 X 300	Column	Overstressed	COMB1	0,	6,498503
266	IWF 150 X 300	Beam	Overstressed	COMB1	0,	2,653308
267	IWF 150 X 300	Beam	Overstressed	COMB1	0,	1,54779
268	IWF 150 X 300	Beam	Overstressed	COMB1	0,	1,909924
269	IWF 150 X 300	Column	Overstressed	COMB1	0,	2,866932
270	IWF 150 X 300	Column	Overstressed	COMB1	0,	4,043309
271	IWF 150 X 300	Column	Overstressed	COMB1	0,	4,431844

Table: Steel Design 3 - Shear Details - AISC 360-10, Part 1 of 4

Frame	DesignSect	DesignType	Status	VMajorCombo	VMajorLoc	VMajorRatio
					m	
272	IWF 150 X 300	Column	Overstressed	COMB1	0,	1,026026
275	IWF 150 X 300	Beam	Overstressed	COMB4	0,	1,287825
276	IWF 150 X 300	Beam	No Messages	COMB7	5,9	0,509905
277	IWF 150 X 300	Beam	No Messages	COMB7	5,9	0,635338
278	IWF 150 X 300	Beam	No Messages	COMB6	0,	0,746628
279	IWF 150 X 300	Beam	No Messages	COMB4	0,	0,666187
280	IWF 150 X 300	Beam	No Messages	COMB1	0,	0,601247
281	IWF 150 X 300	Beam	No Messages	COMB1	0,	0,726875
282	IWF 150 X 300	Beam	No Messages	COMB6	5,9	0,562725
283	IWF 150 X 300	Beam	No Messages	COMB1	5,9	0,596633
284	IWF 150 X 300	Beam	No Messages	COMB4	0,	0,822574
311	IWF 150 X 300	Column	Overstressed	COMB18	0,	2,983091
313	IWF 150 X 300	Column	Overstressed	COMB1	0,	8,546418
319	IWF 150 X 300	Column	Overstressed	COMB1	0,	7,720152
326	IWF 150 X 300	Column	No Messages	COMB14	0,	0,139816
328	IWF 150 X 300	Column	No Messages	COMB14	0,	0,280331
358	RAFTER 150 X 300	Brace	No Messages	COMB1	2,41951	0,833104
449	RAFTER 150 X 300	Brace	No Messages	COMB14	6,04878	0,816685
464	RAFTER 150 X 300	Brace	No Messages	COMB1	6,04878	0,848494
475	RAFTER 150 X 300	Brace	Overstressed	COMB1	18,14635	2,893599
490	RAFTER 150 X 300	Brace	Overstressed	COMB1	18,14635	2,773244
491	RAFTER 150 X 300	Brace	Overstressed	COMB1	8,4683	2,008787
521	RAFTER 150 X 300	Brace	Overstressed	COMB1	0,	3,801218
522	RAFTER 150 X 300	Brace	Overstressed	COMB1	18,14635	2,781616
523	RAFTER 150 X 300	Brace	Overstressed	COMB1	8,4683	2,773244
553	RAFTER 150 X 300	Brace	Overstressed	COMB1	0,	3,795059
554	RAFTER 150 X 300	Brace	Overstressed	COMB1	18,14635	2,845997
555	RAFTER 150 X 300	Brace	Overstressed	COMB1	8,4683	2,781616
585	RAFTER 150 X 300	Brace	Overstressed	COMB1	0,	4,213608
586	RAFTER 150 X 300	Brace	Overstressed	COMB1	18,14635	2,839837
587	RAFTER 150 X 300	Brace	Overstressed	COMB1	8,4683	2,845997
617	RAFTER 150 X 300	Brace	Overstressed	COMB1	0,	4,195961
618	RAFTER 150 X 300	Brace	Overstressed	COMB1	18,14635	2,842393
619	RAFTER 150 X 300	Brace	Overstressed	COMB1	8,4683	2,839837
649	RAFTER 150 X 300	Brace	Overstressed	COMB1	0,	4,219866
650	RAFTER 150 X 300	Brace	Overstressed	COMB1	18,14635	2,817049
651	RAFTER 150 X 300	Brace	Overstressed	COMB1	8,4683	2,842393
681	RAFTER 150 X 300	Brace	Overstressed	COMB1	0,	4,179462
682	RAFTER 150 X 300	Brace	Overstressed	COMB1	0,	3,128454
683	RAFTER 150 X 300	Brace	Overstressed	COMB1	8,4683	2,817049
713	RAFTER 150 X 300	Brace	Overstressed	COMB1	18,14635	2,902821
714	RAFTER 150 X 300	Brace	No Messages	COMB1	6,04878	0,766325
715	RAFTER 150 X 300	Brace	Overstressed	COMB1	8,4683	2,01494
745	RAFTER 150 X 300	Brace	No Messages	COMB1	6,04878	0,881213
747	RAFTER 150 X 300	Brace	No Messages	COMB14	2,41951	0,742249

Table: Steel Design 3 - Shear Details - AISC 360-10, Part 2 of 4

Table: Steel Design 3 - Shear Details - AISC 360-10, Part 2 of 4

Frame	VrMajDsgn KN	PhiVnMajor KN	TrMajor KN-m	VMinorCombo	VMinorLoc	VMinorRatio	VrMinDsgn KN
					m		
2	522,863	257,985	0,	COMB18	0,	0,00066	0,236
43	1702,06	257,985	0,	COMB18	0,	0,001748	0,624

Table: Steel Design 3 - Shear Details - AISC 360-10, Part 2 of 4

Frame	VrMajDsgn KN	PhiVnMajor KN	TrMajor KN-m	VMinorCombo	VMinorLoc m	VMinorRatio	VrMinDsgn KN
44	1720,961	257,985	0,	COMB18	0,	0,001701	0,608
47	1730,354	257,985	0,	COMB18	0,	0,001227	0,438
48	1759,006	257,985	0,	COMB18	0,	0,000963	0,344
51	1699,305	257,985	0,	COMB18	0,	0,000271	0,097
52	1768,342	257,985	0,	COMB18	0,	0,000511	0,182
55	1712,54	257,985	0,	COMB18	0,	0,000474	0,169
56	1777,744	257,985	0,	COMB18	0,	0,000915	0,327
60	1985,823	257,985	0,	COMB18	0,	0,001751	0,626
64	1971,676	257,985	0,	COMB18	0,	0,001466	0,524
68	648,395	257,985	0,	COMB18	0,	0,000638	0,228
70	810,269	257,985	0,	COMB18	0,	0,124853	44,599
71	39,96	257,985	0,	COMB7	0,	0,004516	1,613
72	37,123	257,985	0,	COMB18	0,	0,009303	3,323
89	642,994	257,985	0,	COMB18	0,	0,000682	0,244
180	70,146	257,985	0,	COMB18	0,	0,008924	3,188
183	31,891	257,985	0,	COMB18	0,	0,002611	0,933
184	21,997	257,985	0,	COMB18	0,	0,012143	4,338
185	14,256	257,985	0,	COMB18	0,	0,017567	6,275
186	18,146	257,985	0,	COMB18	0,	0,010539	3,765
187	33,946	257,985	0,	COMB18	0,	0,002027	0,724
188	14,736	257,985	0,	COMB18	0,	0,008715	3,113
189	72,913	257,985	0,	COMB18	0,	0,057688	20,607
190	34,833	257,985	0,	COMB18	0,	0,00909	3,247
191	38,19	257,985	0,	COMB18	0,	0,017145	6,124
192	6,699	257,985	0,	COMB18	0,	0,009561	3,415
193	6,302	257,985	0,	COMB18	0,	0,001048	0,374
194	174,131	257,985	0,	COMB18	0,	0,069285	24,749
195	162,652	257,985	0,	COMB18	0,	0,269668	96,328
196	148,39	257,985	0,	COMB18	0,	0,091491	32,681
197	147,512	257,985	0,	COMB18	0,	0,020169	7,205
198	149,263	257,985	0,	COMB18	0,	0,090566	32,351
199	150,185	257,985	0,	COMB14	0,	0,252801	90,303
200	152,417	257,985	0,	COMB18	0,	0,103765	37,066
201	151,851	257,985	0,	COMB18	0,	0,055405	19,791
202	178,271	257,985	0,	COMB18	0,	0,002418	0,864
203	173,23	257,985	0,	COMB18	0,	0,018893	6,749
204	160,476	257,985	0,	COMB18	0,	0,163278	58,324
205	147,935	257,985	0,	COMB18	0,	0,048709	17,399
206	147,536	257,985	0,	COMB18	0,	0,015353	5,484
207	148,104	257,985	0,	COMB18	0,	0,040295	14,394
208	152,584	257,985	0,	COMB18	0,	0,153363	54,783
209	148,178	257,985	0,	COMB18	0,	0,051128	18,263
210	166,882	257,985	0,	COMB18	0,	0,322147	115,074
211	172,566	257,985	0,	COMB18	0,	0,053757	19,203
212	206,864	257,985	0,	COMB1	3,54	0,007422	2,651
213	175,331	257,985	0,	COMB18	0,	0,00406	1,45
214	194,254	257,985	0,	COMB18	0,	0,005754	2,055
215	161,354	257,985	0,	COMB18	0,	0,077464	27,671
216	233,749	257,985	0,	COMB1	0,	0,017454	6,235
217	241,604	257,985	0,	COMB7	0,	0,046691	16,679
218	263,992	257,985	0,	COMB1	0,	0,13228	47,252
246	732,937	257,985	0,	COMB18	0,	0,04289	15,321
248	430,537	257,985	0,	COMB1	4,72	0,914048	326,507
251	16,981	257,985	0,	COMB18	0,	0,113913	40,691

Table: Steel Design 3 - Shear Details - AISC 360-10, Part 2 of 4

Frame	VrMajDsgn KN	PhiVnMajor KN	TrMajor KN-m	VMinorCombo	VMinorLoc m	VMinorRatio	VrMinDsgn KN
254	289,152	257,985	0,	COMB1	0,	0,093319	33,334
255	1707,732	257,985	0,	COMB18	0,	0,028579	10,209
257	704,302	257,985	0,	COMB14	3,92	0,011242	4,016
260	292,541	257,985	0,	COMB18	0,	0,102415	36,584
263	39,87	257,985	0,	COMB1	0,	0,104921	37,479
264	1676,516	257,985	0,	COMB1	0,	0,055113	19,687
266	684,514	257,985	0,	COMB1	4,9	0,042379	15,138
267	399,306	257,985	0,	COMB1	1,18	0,006722	2,401
268	492,732	257,985	0,	COMB18	3,54	0,003338	1,192
269	739,625	257,985	0,	COMB18	0,	0,12986	46,387
270	1043,113	257,985	0,	COMB4	0,	0,148517	53,052
271	1143,349	257,985	0,	COMB6	0,	0,02321	8,291
272	264,699	257,985	0,	COMB18	0,	0,066307	23,686
275	332,24	257,985	0,	COMB14	8,85	0,003556	1,27
276	131,548	257,985	0,	COMB1	4,72	0,027638	9,872
277	163,908	257,985	0,	COMB18	0,	0,021881	7,816
278	192,619	257,985	0,	COMB18	0,	0,008429	3,011
279	171,866	257,985	0,	COMB14	5,4	0,022501	8,038
280	155,113	257,985	0,	COMB1	0,	0,015412	5,505
281	187,523	257,985	0,	COMB1	0,	0,013239	4,729
282	145,175	257,985	0,	COMB1	1,96	0,524132	187,225
283	153,922	257,985	0,	COMB1	0,	0,002419	0,864
284	212,212	257,985	0,	COMB1	4,72	0,01078	3,851
311	769,593	257,985	0,	COMB1	0,6	0,057682	20,605
313	2204,848	257,985	0,	COMB18	0,	0,007406	2,645
319	1991,684	257,985	0,	COMB1	0,	0,057125	20,406
326	36,07	257,985	0,	COMB18	0,	0,04827	17,242
328	72,321	257,985	0,	COMB14	0,	0,024867	8,883
358	214,928	257,985	0,	COMB18	7,25854	0,021136	7,55
449	210,692	257,985	0,	COMB18	16,93659	0,123296	44,043
464	218,899	257,985	0,	COMB18	0,	0,100417	35,87
475	746,505	257,985	0,	COMB18	16,93659	0,137345	49,061
490	715,455	257,985	0,	COMB1	16,93659	0,090244	32,236
491	518,237	257,985	0,	COMB1	7,25854	0,10789	38,539
521	980,657	257,985	0,	COMB18	6,04878	0,037312	13,328
522	717,615	257,985	0,	COMB18	6,04878	0,066332	23,695
523	715,455	257,985	0,	COMB1	7,25854	0,090244	32,236
553	979,068	257,985	0,	COMB14	0,	0,1286	45,937
554	734,225	257,985	0,	COMB14	16,93659	0,060502	21,612
555	717,615	257,985	0,	COMB14	7,25854	0,05879	21,
585	1087,048	257,985	0,	COMB14	0,	0,088281	31,535
586	732,635	257,985	0,	COMB18	6,04878	0,049036	17,516
587	734,225	257,985	0,	COMB14	7,25854	0,060502	21,612
617	1082,495	257,985	0,	COMB1	6,04878	0,058089	20,75
618	733,295	257,985	0,	COMB18	6,04878	0,0701	25,04
619	732,635	257,985	0,	COMB1	2,41951	0,025883	9,246
649	1088,662	257,985	0,	COMB18	10,88781	0,070074	25,031
650	726,756	257,985	0,	COMB1	8,4683	0,036243	12,946
651	733,295	257,985	0,	COMB18	1,20976	0,022594	8,071
681	1078,239	257,985	0,	COMB14	0,	0,099218	35,442
682	807,094	257,985	0,	COMB1	0,	0,12969	46,326
683	726,756	257,985	0,	COMB14	7,25854	0,034173	12,207
713	748,884	257,985	0,	COMB14	0,	0,14895	53,206
714	197,7	257,985	0,	COMB1	0,	0,110242	39,38

Table: Steel Design 3 - Shear Details - AISC 360-10, Part 2 of 4

Frame	VrMajDsgn KN	PhiVnMajor KN	TrMajor KN-m	VMinorCombo	VMinorLoc m	VMinorRatio	VrMinDsgn KN
715	519,824	257,985	0,	COMB14	7,25854	0,057795	20,645
745	227,34	257,985	0,	COMB1	16,93659	0,134679	48,109
747	191,489	257,985	0,	COMB18	7,25854	0,005167	1,846

Table: Steel Design 3 - Shear Details - AISC 360-10, Part 3 of 4

Frame	PhiVnMinor KN	TrMinor KN-m	DCLimit	RLLF	FramingType
2	357,21	0,	0,95	1,	Intermediate Moment Frame
43	357,21	0,	0,95	1,	Intermediate Moment Frame
44	357,21	0,	0,95	1,	Intermediate Moment Frame
47	357,21	0,	0,95	1,	Intermediate Moment Frame
48	357,21	0,	0,95	1,	Intermediate Moment Frame
51	357,21	0,	0,95	1,	Intermediate Moment Frame
52	357,21	0,	0,95	1,	Intermediate Moment Frame
55	357,21	0,	0,95	1,	Intermediate Moment Frame
56	357,21	0,	0,95	1,	Intermediate Moment Frame
60	357,21	0,	0,95	1,	Intermediate Moment Frame
64	357,21	0,	0,95	1,	Intermediate Moment Frame
68	357,21	0,	0,95	1,	Intermediate Moment Frame
70	357,21	0,	0,95	1,	Intermediate Moment Frame
71	357,21	0,	0,95	1,	Intermediate Moment Frame
72	357,21	0,	0,95	1,	Intermediate Moment Frame
89	357,21	0,	0,95	1,	Intermediate Moment Frame
180	357,21	0,	0,95	1,	Intermediate Moment Frame
183	357,21	0,	0,95	1,	Intermediate Moment Frame
184	357,21	0,	0,95	1,	Intermediate Moment Frame
185	357,21	0,	0,95	1,	Intermediate Moment Frame
186	357,21	0,	0,95	1,	Intermediate Moment Frame
187	357,21	0,	0,95	1,	Intermediate Moment Frame
188	357,21	0,	0,95	1,	Intermediate Moment Frame
189	357,21	0,	0,95	1,	Intermediate Moment Frame

Table: Steel Design 3 - Shear Details - AISC 360-10, Part 3 of 4

Frame	PhiVnMinor KN	TrMinor KN-m	DCLimit	RLLF	FramingType
190	357,21	0,	0,95	1,	Intermediate Moment Frame
191	357,21	0,	0,95	1,	Intermediate Moment Frame
192	357,21	0,	0,95	1,	Intermediate Moment Frame
193	357,21	0,	0,95	1,	Intermediate Moment Frame
194	357,21	0,	0,95	1,	Intermediate Moment Frame
195	357,21	0,	0,95	1,	Intermediate Moment Frame
196	357,21	0,	0,95	1,	Intermediate Moment Frame
197	357,21	0,	0,95	1,	Intermediate Moment Frame
198	357,21	0,	0,95	1,	Intermediate Moment Frame
199	357,21	0,	0,95	1,	Intermediate Moment Frame
200	357,21	0,	0,95	1,	Intermediate Moment Frame
201	357,21	0,	0,95	1,	Intermediate Moment Frame
202	357,21	0,	0,95	1,	Intermediate Moment Frame
203	357,21	0,	0,95	1,	Intermediate Moment Frame
204	357,21	0,	0,95	1,	Intermediate Moment Frame
205	357,21	0,	0,95	1,	Intermediate Moment Frame
206	357,21	0,	0,95	1,	Intermediate Moment Frame
207	357,21	0,	0,95	1,	Intermediate Moment Frame
208	357,21	0,	0,95	1,	Intermediate Moment Frame
209	357,21	0,	0,95	1,	Intermediate Moment Frame
210	357,21	0,	0,95	1,	Intermediate Moment Frame
211	357,21	0,	0,95	1,	Intermediate Moment Frame
212	357,21	0,	0,95	1,	Intermediate Moment Frame
213	357,21	0,	0,95	1,	Intermediate Moment Frame
214	357,21	0,	0,95	1,	Intermediate Moment Frame
215	357,21	0,	0,95	1,	Intermediate Moment Frame
216	357,21	0,	0,95	1,	Intermediate Moment Frame
217	357,21	0,	0,95	1,	Intermediate Moment Frame
218	357,21	0,	0,95	1,	Intermediate Moment Frame
246	357,21	0,	0,95	1,	Intermediate Moment Frame

Table: Steel Design 3 - Shear Details - AISC 360-10, Part 3 of 4

Frame	PhiVnMinor KN	TrMinor KN-m	DCLimit	RLLF	FramingType
248	357,21	0,	0,95	1,	Intermediate Moment Frame
251	357,21	0,	0,95	1,	Intermediate Moment Frame
254	357,21	0,	0,95	1,	Intermediate Moment Frame
255	357,21	0,	0,95	1,	Intermediate Moment Frame
257	357,21	0,	0,95	1,	Intermediate Moment Frame
260	357,21	0,	0,95	1,	Intermediate Moment Frame
263	357,21	0,	0,95	1,	Intermediate Moment Frame
264	357,21	0,	0,95	1,	Intermediate Moment Frame
266	357,21	0,	0,95	1,	Intermediate Moment Frame
267	357,21	0,	0,95	1,	Intermediate Moment Frame
268	357,21	0,	0,95	1,	Intermediate Moment Frame
269	357,21	0,	0,95	1,	Intermediate Moment Frame
270	357,21	0,	0,95	1,	Intermediate Moment Frame
271	357,21	0,	0,95	1,	Intermediate Moment Frame
272	357,21	0,	0,95	1,	Intermediate Moment Frame
275	357,21	0,	0,95	1,	Intermediate Moment Frame
276	357,21	0,	0,95	1,	Intermediate Moment Frame
277	357,21	0,	0,95	1,	Intermediate Moment Frame
278	357,21	0,	0,95	1,	Intermediate Moment Frame
279	357,21	0,	0,95	1,	Intermediate Moment Frame
280	357,21	0,	0,95	1,	Intermediate Moment Frame
281	357,21	0,	0,95	1,	Intermediate Moment Frame
282	357,21	0,	0,95	1,	Intermediate Moment Frame
283	357,21	0,	0,95	1,	Intermediate Moment Frame
284	357,21	0,	0,95	1,	Intermediate Moment Frame
311	357,21	0,	0,95	1,	Intermediate Moment Frame
313	357,21	0,	0,95	1,	Intermediate Moment Frame
319	357,21	0,	0,95	1,	Intermediate Moment Frame
326	357,21	0,	0,95	1,	Intermediate Moment Frame
328	357,21	0,	0,95	1,	Intermediate Moment Frame

Table: Steel Design 3 - Shear Details - AISC 360-10, Part 3 of 4

Frame	PhiVnMinor KN	TrMinor KN-m	DCLimit	RLLF	FramingType
358	357,21	0,	0,95	1,	Intermediate Moment Frame
449	357,21	0,	0,95	1,	Intermediate Moment Frame
464	357,21	0,	0,95	1,	Intermediate Moment Frame
475	357,21	0,	0,95	1,	Intermediate Moment Frame
490	357,21	0,	0,95	1,	Intermediate Moment Frame
491	357,21	0,	0,95	1,	Intermediate Moment Frame
521	357,21	0,	0,95	1,	Intermediate Moment Frame
522	357,21	0,	0,95	1,	Intermediate Moment Frame
523	357,21	0,	0,95	1,	Intermediate Moment Frame
553	357,21	0,	0,95	1,	Intermediate Moment Frame
554	357,21	0,	0,95	1,	Intermediate Moment Frame
555	357,21	0,	0,95	1,	Intermediate Moment Frame
585	357,21	0,	0,95	1,	Intermediate Moment Frame
586	357,21	0,	0,95	1,	Intermediate Moment Frame
587	357,21	0,	0,95	1,	Intermediate Moment Frame
617	357,21	0,	0,95	1,	Intermediate Moment Frame
618	357,21	0,	0,95	1,	Intermediate Moment Frame
619	357,21	0,	0,95	1,	Intermediate Moment Frame
649	357,21	0,	0,95	1,	Intermediate Moment Frame
650	357,21	0,	0,95	1,	Intermediate Moment Frame
651	357,21	0,	0,95	1,	Intermediate Moment Frame
681	357,21	0,	0,95	1,	Intermediate Moment Frame
682	357,21	0,	0,95	1,	Intermediate Moment Frame
683	357,21	0,	0,95	1,	Intermediate Moment Frame
713	357,21	0,	0,95	1,	Intermediate Moment Frame
714	357,21	0,	0,95	1,	Intermediate Moment Frame
715	357,21	0,	0,95	1,	Intermediate Moment Frame
745	357,21	0,	0,95	1,	Intermediate Moment Frame
747	357,21	0,	0,95	1,	Intermediate Moment Frame

Table: Steel Design 3 - Shear Details - AISC 360-10, Part 4 of 4

Table: Steel Design 3 - Shear Details - AISC 360-10, Part 4 of 4

Frame	ErrMsg	WarnMsg
2	No Messages	No Messages
43	No Messages	No Messages
44	No Messages	No Messages
47	No Messages	No Messages
48	No Messages	No Messages
51	No Messages	No Messages
52	No Messages	No Messages
55	No Messages	No Messages
56	No Messages	No Messages
60	No Messages	No Messages
64	No Messages	No Messages
68	No Messages	No Messages
70	No Messages	No Messages
71	No Messages	No Messages
72	No Messages	No Messages
89	No Messages	No Messages
180	No Messages	No Messages
183	No Messages	No Messages
184	No Messages	No Messages
185	No Messages	No Messages
186	No Messages	No Messages
187	No Messages	No Messages
188	No Messages	No Messages
189	No Messages	No Messages
190	No Messages	No Messages
191	No Messages	No Messages
192	No Messages	No Messages
193	No Messages	No Messages
194	No Messages	No Messages
195	No Messages	No Messages
196	No Messages	No Messages
197	No Messages	No Messages
198	No Messages	No Messages
199	No Messages	No Messages
200	No Messages	No Messages
201	No Messages	No Messages
202	No Messages	No Messages
203	No Messages	No Messages
204	No Messages	No Messages
205	No Messages	No Messages
206	No Messages	No Messages
207	No Messages	No Messages
208	No Messages	No Messages
209	No Messages	No Messages
210	No Messages	No Messages
211	No Messages	No Messages
212	No Messages	No Messages
213	No Messages	No Messages
214	No Messages	No Messages
215	No Messages	No Messages
216	No Messages	No Messages
217	No Messages	No Messages

Table: Steel Design 3 - Shear Details - AISC 360-10, Part 4 of 4

Frame	ErrMsg	WarnMsg
218	No Messages	No Messages
246	No Messages	No Messages
248	No Messages	No Messages
251	No Messages	No Messages
254	No Messages	No Messages
255	No Messages	No Messages
257	No Messages	No Messages
260	No Messages	No Messages
263	No Messages	No Messages
264	No Messages	No Messages
266	No Messages	No Messages
267	No Messages	No Messages
268	No Messages	No Messages
269	No Messages	No Messages
270	No Messages	No Messages
271	No Messages	No Messages
272	No Messages	No Messages
275	No Messages	No Messages
276	No Messages	No Messages
277	No Messages	No Messages
278	No Messages	No Messages
279	No Messages	No Messages
280	No Messages	No Messages
281	No Messages	No Messages
282	No Messages	No Messages
283	No Messages	No Messages
284	No Messages	No Messages
311	No Messages	No Messages
313	No Messages	No Messages
319	No Messages	No Messages
326	No Messages	No Messages
328	No Messages	No Messages
358	No Messages	No Messages
449	No Messages	No Messages
464	No Messages	No Messages
475	No Messages	No Messages
490	No Messages	No Messages
491	No Messages	No Messages
521	No Messages	No Messages
522	No Messages	No Messages
523	No Messages	No Messages
553	No Messages	No Messages
554	No Messages	No Messages
555	No Messages	No Messages
585	No Messages	No Messages
586	No Messages	No Messages
587	No Messages	No Messages
617	No Messages	No Messages
618	No Messages	No Messages
619	No Messages	No Messages
649	No Messages	No Messages
650	No Messages	No Messages
651	No Messages	No Messages
681	No Messages	No Messages

Table: Steel Design 3 - Shear Details - AISC 360-10, Part 4 of 4

Frame	ErrMsg	WarnMsg
682	No Messages	No Messages
683	No Messages	No Messages
713	No Messages	No Messages
714	No Messages	No Messages
715	No Messages	No Messages
745	No Messages	No Messages
747	No Messages	No Messages

Table: Steel Design 4 - Continuity Plates - AISC 360-10, Part 1 of 2

Table: Steel Design 4 - Continuity Plates - AISC 360-10, Part 1 of 2

Frame	DesignSect	Status	Combo	ContPIArea m2
215	IWF 150 X 300	No Messages	COMB14	0,001117
216	IWF 150 X 300	No Messages	COMB14	0,003843
217	IWF 150 X 300	No Messages	COMB14	0,003322
218	IWF 150 X 300	No Messages	COMB14	0,003637
254	IWF 150 X 300	No Messages	COMB18	0,012993
260	IWF 150 X 300	No Messages	COMB7	0,002861
263	IWF 150 X 300	No Messages	COMB1	0,024642
269	IWF 150 X 300	No Messages	COMB1	0,012837
270	IWF 150 X 300	No Messages	COMB1	0,015314
271	IWF 150 X 300	No Messages	COMB14	0,013244
272	IWF 150 X 300	No Messages	COMB1	0,027763

Table: Steel Design 4 - Continuity Plates - AISC 360-10, Part 2 of 2

Table: Steel Design 4 - Continuity Plates - AISC 360-10, Part 2 of 2

Frame	ErrMsg	WarnMsg
215	No Messages	No Messages
216	No Messages	No Messages
217	No Messages	No Messages
218	No Messages	No Messages
254	No Messages	No Messages
260	No Messages	No Messages
263	No Messages	No Messages
269	No Messages	No Messages
270	No Messages	No Messages
271	No Messages	No Messages
272	No Messages	No Messages

Table: Steel Design 5 - Doubler Plates - AISC 360-10, Part 1 of 2

Table: Steel Design 5 - Doubler Plates - AISC 360-10, Part 1 of 2

Frame	DesignSect	Status	Combo	DblPIThick m
2	IWF 150 X 300	No Messages	COMB1	0,
43	IWF 150 X 300	No Messages	COMB1	0,
44	IWF 150 X 300	No Messages	COMB1	0,
47	IWF 150 X 300	No Messages	COMB1	0,
48	IWF 150 X 300	No Messages	COMB1	0,

Table: Steel Design 5 - Doubler Plates - AISC 360-10, Part 1 of 2

Frame	DesignSect	Status	Combo	DblPIThick m
51	IWF 150 X 300	No Messages	COMB1	0,
52	IWF 150 X 300	No Messages	COMB1	0,
55	IWF 150 X 300	No Messages	COMB1	0,
56	IWF 150 X 300	No Messages	COMB1	0,
60	IWF 150 X 300	No Messages	COMB1	0,
64	IWF 150 X 300	No Messages	COMB1	0,
68	IWF 150 X 300	No Messages	COMB1	0,
71	IWF 150 X 300	No Messages	COMB1	0,
72	IWF 150 X 300	No Messages	COMB1	0,
89	IWF 150 X 300	No Messages	COMB1	0,
180	IWF 150 X 300	No Messages	COMB1	0,
188	IWF 150 X 300	No Messages	COMB1	0,
215	IWF 150 X 300	No Messages	COMB1	0,
216	IWF 150 X 300	No Messages	Envelope	0,080931
217	IWF 150 X 300	No Messages	Envelope	0,11853
218	IWF 150 X 300	No Messages	Envelope	0,037907
251	IWF 150 X 300	No Messages	COMB1	0,
254	IWF 150 X 300	No Messages	COMB22	0,25241
260	IWF 150 X 300	No Messages	COMB7	0,020588
263	IWF 150 X 300	No Messages	COMB1	0,
269	IWF 150 X 300	No Messages	COMB1	0,06674
270	IWF 150 X 300	No Messages	Envelope	0,174128
271	IWF 150 X 300	No Messages	Envelope	0,138745
272	IWF 150 X 300	No Messages	COMB29	0,970128
311	IWF 150 X 300	No Messages	COMB1	0,
313	IWF 150 X 300	No Messages	COMB1	0,
319	IWF 150 X 300	No Messages	COMB1	0,

Table: Steel Design 5 - Doubler Plates - AISC 360-10, Part 2 of 2

Table: Steel Design 5 - Doubler Plates - AISC 360-10, Part 2 of 2

Frame	ErrMsg	WarnMsg
2	No Messages	No Messages
43	No Messages	No Messages
44	No Messages	No Messages
47	No Messages	No Messages
48	No Messages	No Messages
51	No Messages	No Messages
52	No Messages	No Messages
55	No Messages	No Messages
56	No Messages	No Messages
60	No Messages	No Messages
64	No Messages	No Messages
68	No Messages	No Messages
71	No Messages	No Messages
72	No Messages	No Messages
89	No Messages	No Messages
180	No Messages	No Messages
188	No Messages	No Messages
215	No Messages	No Messages
216	No Messages	No Messages
217	No Messages	No Messages

Table: Steel Design 5 - Doubler Plates - AISC 360-10, Part 2 of 2

Frame	ErrMsg	WarnMsg
218	No Messages	No Messages
251	No Messages	No Messages
254	No Messages	No Messages
260	No Messages	No Messages
263	No Messages	No Messages
269	No Messages	No Messages
270	No Messages	No Messages
271	No Messages	No Messages
272	No Messages	No Messages
311	No Messages	No Messages
313	No Messages	No Messages
319	No Messages	No Messages

Table: Steel Design 7 - Beam Shear Forces - AISC 360-10

Table: Steel Design 7 - Beam Shear Forces - AISC 360-10

Frame	DesignSect	ComboLeft	VMajorLeft KN	ComboRight	VMajorRight KN
194	IWF 150 X 300	Envelope	167,488	Envelope	221,826
195	IWF 150 X 300	Envelope	210,347	Envelope	178,967
196	IWF 150 X 300	Envelope	193,229	Envelope	196,085
197	IWF 150 X 300	Envelope	195,207	Envelope	194,107
198	IWF 150 X 300	Envelope	192,356	Envelope	196,958
199	IWF 150 X 300	Envelope	191,434	Envelope	197,88
200	IWF 150 X 300	Envelope	200,111	Envelope	189,202
201	IWF 150 X 300	Envelope	189,769	Envelope	199,545
202	IWF 150 X 300	Envelope	225,966	Envelope	163,348
203	IWF 150 X 300	Envelope	168,389	Envelope	220,925
204	IWF 150 X 300	Envelope	208,17	Envelope	181,143
205	IWF 150 X 300	Envelope	193,684	Envelope	195,63
206	IWF 150 X 300	Envelope	194,083	Envelope	195,231
207	IWF 150 X 300	Envelope	195,799	Envelope	193,515
208	IWF 150 X 300	Envelope	200,279	Envelope	189,035
209	IWF 150 X 300	Envelope	195,872	Envelope	193,441
210	IWF 150 X 300	Envelope	174,737	Envelope	214,577
211	IWF 150 X 300	Envelope	220,261	Envelope	169,053
212	IWF 150 X 300	Envelope	254,559	Envelope	206,679
213	IWF 150 X 300	Envelope	223,026	Envelope	166,288
214	IWF 150 X 300	Envelope	241,949	Envelope	147,365
248	IWF 150 X 300	Envelope	478,231	Envelope	170,993
257	IWF 150 X 300	Envelope	751,997	Envelope	334,803
266	IWF 150 X 300	Envelope	732,208	Envelope	295,983
267	IWF 150 X 300	Envelope	447,001	Envelope	127,933
268	IWF 150 X 300	Envelope	540,427	Envelope	222,974
275	IWF 150 X 300	Envelope	356,087	Envelope	281,209
276	IWF 150 X 300	Envelope	160,597	Envelope	179,243
277	IWF 150 X 300	Envelope	140,588	Envelope	211,602
278	IWF 150 X 300	Envelope	240,314	Envelope	202,841
279	IWF 150 X 300	Envelope	219,561	Envelope	199,849
280	IWF 150 X 300	Envelope	202,807	Envelope	186,506
281	IWF 150 X 300	Envelope	235,218	Envelope	154,096
282	IWF 150 X 300	Envelope	187,382	Envelope	192,869
283	IWF 150 X 300	Envelope	181,935	Envelope	201,617

Table: Steel Design 7 - Beam Shear Forces - AISC 360-10

Frame	DesignSect	ComboLeft	VMajorLeft KN	ComboRight	VMajorRight KN
284	IWF 150 X 300	Envelope	259,907	Envelope	190,704

Table: Steel Design 8 - Brace Max Axial Load - AISC 360-10

Table: Steel Design 8 - Brace Max Axial Load - AISC 360-10

Frame	DesignSect	ComboComp	PMaxComp KN	ComboTens	PMaxTens KN
70	RAFTER 150 X 300	COMB1	-3157,136	COMB18	3090,934
358	RAFTER 150 X 300	COMB18	-1545,192	COMB1	1561,855
449	RAFTER 150 X 300	COMB18	-2581,229	COMB1	2615,973
464	RAFTER 150 X 300	COMB18	-2585,359	COMB1	2616,982
475	RAFTER 150 X 300	COMB1	-3251,005	COMB14	3185,831
490	RAFTER 150 X 300	COMB1	-1986,091	COMB14	1954,949
491	RAFTER 150 X 300	COMB1	-1117,003	COMB18	1094,98
521	RAFTER 150 X 300	COMB1	-2720,199	COMB18	2690,016
522	RAFTER 150 X 300	COMB1	-2001,627	COMB14	1969,841
523	RAFTER 150 X 300	COMB1	-1294,162	COMB14	1274,689
553	RAFTER 150 X 300	COMB1	-2356,84	COMB18	2334,879
554	RAFTER 150 X 300	COMB1	-1606,632	COMB14	1576,209
555	RAFTER 150 X 300	COMB1	-1258,987	COMB14	1238,998
585	RAFTER 150 X 300	COMB1	-2343,301	COMB14	2309,744
586	RAFTER 150 X 300	COMB1	-1646,05	COMB14	1614,911
587	RAFTER 150 X 300	COMB1	-1131,086	COMB14	1113,411
617	RAFTER 150 X 300	COMB1	-2158,539	COMB14	2125,194
618	RAFTER 150 X 300	COMB1	-1649,626	COMB14	1618,511
619	RAFTER 150 X 300	COMB1	-1179,219	COMB14	1159,754
649	RAFTER 150 X 300	COMB1	-2196,947	COMB14	2162,975
650	RAFTER 150 X 300	COMB1	-1665,254	COMB14	1633,841
651	RAFTER 150 X 300	COMB1	-1131,231	COMB18	1112,925
681	RAFTER 150 X 300	COMB1	-2330,265	COMB14	2296,877
682	RAFTER 150 X 300	COMB1	-3177,296	COMB18	3111,607
683	RAFTER 150 X 300	COMB1	-1157,677	COMB14	1139,801
713	RAFTER 150 X 300	COMB1	-3176,911	COMB14	3113,428
714	RAFTER 150 X 300	COMB18	-2620,595	COMB1	2663,549
715	RAFTER 150 X 300	COMB1	-1139,04	COMB18	1118,314
745	RAFTER 150 X 300	COMB18	-2592,772	COMB1	2635,627
747	RAFTER 150 X 300	COMB18	-808,504	COMB1	820,803

Table: Steel Design 9 - Decision Parameters - AISC 360-10, Part 1 of 2

Table: Steel Design 9 - Decision Parameters - AISC 360-10, Part 1 of 2

Frame	DesignSect	AlphaPrOPy	aPrOPyGT0 5	AlphaPrOPe	aPrOPeGT0 L 15	Taub	EAmodifier
2	IWF 150 X 300	1,267889	Yes	6,895744	Yes	-1,358616	0,8
43	IWF 150 X 300	1,925046	Yes	10,469859	Yes	-7,123019	0,8
44	IWF 150 X 300	2,25753	Yes	12,27816	Yes	-11,355642	0,8
47	IWF 150 X 300	1,880493	Yes	10,227549	Yes	-6,623044	0,8
48	IWF 150 X 300	2,230539	Yes	12,131363	Yes	-10,979059	0,8
51	IWF 150 X 300	1,883828	Yes	10,245689	Yes	-6,659925	0,8
52	IWF 150 X 300	2,257466	Yes	12,277813	Yes	-11,354745	0,8
55	IWF 150 X 300	1,926361	Yes	10,477012	Yes	-7,13802	0,8
56	IWF 150 X 300	2,252518	Yes	12,250904	Yes	-11,285281	0,8

Table: Steel Design 9 - Decision Parameters - AISC 360-10, Part 1 of 2

Frame	DesignSect	AlphaPrOPy 5	aPrOPyGT0	AlphaPrOPE L	aPrOPEGT0 15	Taub	EAmodifier
60	IWF 150 X 300	2,249578	Yes	12,234915	Yes	-11,244098	0,8
64	IWF 150 X 300	2,298779	Yes	12,502505	Yes	-11,942423	0,8
68	IWF 150 X 300	1,606603	Yes	8,737925	Yes	-3,898279	0,8
70	RAFTER 150 X 300	2,934752	Yes	7,842977	Yes	-22,712069	0,8
71	IWF 150 X 300	0,466977	No	0,829314	Yes	1,	0,8
72	IWF 150 X 300	0,654976	Yes	3,562259	Yes	0,903929	0,8
89	IWF 150 X 300	1,623842	Yes	8,831684	Yes	-4,052082	0,8
180	IWF 150 X 300	0,679306	Yes	3,69458	Yes	0,871398	0,8
183	IWF 150 X 300	0,750015	Yes	5,781109	Yes	0,74997	0,8
184	IWF 150 X 300	0,793305	Yes	8,228064	Yes	0,655888	0,8
185	IWF 150 X 300	2,06994	Yes	27,800128	Yes	-8,858842	0,8
186	IWF 150 X 300	0,786849	Yes	8,1611	Yes	0,67087	0,8
187	IWF 150 X 300	1,036839	Yes	7,99195	Yes	-0,152786	0,8
188	IWF 150 X 300	0,720711	Yes	3,919775	Yes	0,805146	0,8
189	IWF 150 X 300	0,464449	No	0,192688	Yes	1,	0,8
190	IWF 150 X 300	0,651902	Yes	3,215906	Yes	0,907704	0,8
191	IWF 150 X 300	1,920538	Yes	2,464248	Yes	-7,07171	0,8
192	IWF 150 X 300	0,801058	Yes	8,308475	Yes	0,637456	0,8
193	IWF 150 X 300	0,755507	Yes	5,823443	Yes	0,738864	0,8
194	IWF 150 X 300	0,403619	No	1,559479	Yes	1,	0,8
195	IWF 150 X 300	0,953539	Yes	3,684227	Yes	0,177209	0,8
196	IWF 150 X 300	0,806457	Yes	3,11594	Yes	0,624336	0,8
197	IWF 150 X 300	0,936737	Yes	3,619307	Yes	0,237043	0,8
198	IWF 150 X 300	0,778353	Yes	3,007352	Yes	0,690079	0,8
199	IWF 150 X 300	0,916293	Yes	3,540317	Yes	0,3068	0,8
200	IWF 150 X 300	0,714018	Yes	2,758779	Yes	0,816785	0,8
201	IWF 150 X 300	0,869971	Yes	3,361343	Yes	0,452484	0,8
202	IWF 150 X 300	0,401973	No	1,553121	Yes	1,	0,8
203	IWF 150 X 300	0,397986	No	1,537715	Yes	1,	0,8
204	IWF 150 X 300	0,885293	Yes	3,420543	Yes	0,406196	0,8
205	IWF 150 X 300	0,789848	Yes	3,051766	Yes	0,663953	0,8
206	IWF 150 X 300	0,870231	Yes	3,362346	Yes	0,451715	0,8
207	IWF 150 X 300	0,721816	Yes	2,788909	Yes	0,803191	0,8
208	IWF 150 X 300	0,883368	Yes	3,413103	Yes	0,412116	0,8
209	IWF 150 X 300	0,868611	Yes	3,356088	Yes	0,456503	0,8
210	IWF 150 X 300	0,897119	Yes	3,466233	Yes	0,369186	0,8
211	IWF 150 X 300	0,366969	No	1,417874	Yes	1,	0,8
212	IWF 150 X 300	0,446688	No	1,725884	Yes	1,	0,8
213	IWF 150 X 300	0,41612	No	6,431111	Yes	1,	0,8
214	IWF 150 X 300	0,180378	No	2,787733	Yes	1,	0,8
215	IWF 150 X 300	2,240661	Yes	2,238322	Yes	-11,11961	0,8
216	IWF 150 X 300	1,068169	Yes	1,067053	Yes	-0,291263	0,8
217	IWF 150 X 300	1,170451	Yes	1,169229	Yes	-0,798019	0,8
218	IWF 150 X 300	0,920701	Yes	0,919739	Yes	0,292043	0,8
246	IWF 150 X 300	1,170606	Yes	2,078904	Yes	-0,798848	0,8
248	IWF 150 X 300	0,210185	No	0,560142	Yes	1,	0,8
251	IWF 150 X 300	0,442026	No	0,441564	Yes	1,	0,8
254	IWF 150 X 300	1,983697	Yes	1,981625	Yes	-7,805424	0,8
255	IWF 150 X 300	1,814187	Yes	3,221854	Yes	-5,908355	0,8
257	IWF 150 X 300	0,706103	Yes	1,88176	Yes	0,830086	0,8
260	IWF 150 X 300	0,735685	Yes	0,734916	Yes	0,777811	0,8
263	IWF 150 X 300	2,783074	Yes	2,780168	Yes	-19,849712	0,8
264	IWF 150 X 300	1,692728	Yes	3,006151	Yes	-4,690398	0,8

Table: Steel Design 9 - Decision Parameters - AISC 360-10, Part 1 of 2

Frame	DesignSect	AlphaPrOPy 5	aPrOPyGT0	AlphaPrOPe L	aPrOPeGT0 15	Taub	EAmodifier
266	IWF 150 X 300	1,469544	Yes	3,916322	Yes	-2,760059	0,8
267	IWF 150 X 300	1,043258	Yes	4,030876	Yes	-0,180516	0,8
268	IWF 150 X 300	0,412483	No	1,593726	Yes	1,	0,8
269	IWF 150 X 300	0,131138	No	0,131001	No	1,	0,8
270	IWF 150 X 300	0,676153	Yes	0,675447	Yes	0,87588	0,8
271	IWF 150 X 300	0,415087	No	0,414654	Yes	1,	0,8
272	IWF 150 X 300	2,523826	Yes	2,521191	Yes	-15,383494	0,8
275	IWF 150 X 300	0,323391	No	4,99799	Yes	1,	0,8
276	IWF 150 X 300	0,663796	Yes	2,564735	Yes	0,892683	0,8
277	IWF 150 X 300	0,772568	Yes	2,985	Yes	0,702827	0,8
278	IWF 150 X 300	0,511548	Yes	1,976487	Yes	0,999467	0,8
279	IWF 150 X 300	0,093656	No	0,249594	Yes	1,	0,8
280	IWF 150 X 300	0,060457	No	0,934353	Yes	1,	0,8
281	IWF 150 X 300	0,031889	No	0,492837	Yes	1,	0,8
282	IWF 150 X 300	0,496127	No	1,322174	Yes	1,	0,8
283	IWF 150 X 300	0,738263	Yes	2,852454	Yes	0,772924	0,8
284	IWF 150 X 300	0,479955	No	1,854422	Yes	1,	0,8
311	IWF 150 X 300	1,038255	Yes	1,843859	Yes	-0,158874	0,8
313	IWF 150 X 300	1,635057	Yes	2,903732	Yes	-4,153417	0,8
319	IWF 150 X 300	1,524062	Yes	2,706613	Yes	-3,194808	0,8
326	IWF 150 X 300	1,769726	Yes	4,156478	Yes	-5,448817	0,8
328	IWF 150 X 300	0,622042	Yes	0,798145	Yes	0,940423	0,8
358	RAFTER 150 X 300	1,391332	Yes	0,41314	Yes	-2,177888	0,8
449	RAFTER 150 X 300	2,324207	Yes	0,690147	Yes	-12,310921	0,8
464	RAFTER 150 X 300	2,327925	Yes	0,691251	Yes	-12,365239	0,8
475	RAFTER 150 X 300	3,019274	Yes	8,068858	Yes	-24,386965	0,8
490	RAFTER 150 X 300	1,903616	Yes	5,087319	Yes	-6,880557	0,8
491	RAFTER 150 X 300	1,033724	Yes	0,601628	Yes	-0,139447	0,8
521	RAFTER 150 X 300	2,449338	Yes	6,545734	Yes	-14,199682	0,8
522	RAFTER 150 X 300	1,894576	Yes	5,063158	Yes	-6,779365	0,8
523	RAFTER 150 X 300	1,165297	Yes	0,678203	Yes	-0,770483	0,8
553	RAFTER 150 X 300	2,122161	Yes	5,671369	Yes	-9,525628	0,8
554	RAFTER 150 X 300	1,624824	Yes	4,34226	Yes	-4,060914	0,8
555	RAFTER 150 X 300	1,133625	Yes	0,65977	Yes	-0,605923	0,8
585	RAFTER 150 X 300	2,10997	Yes	5,638788	Yes	-9,36801	0,8
586	RAFTER 150 X 300	1,705411	Yes	4,557624	Yes	-4,812061	0,8
587	RAFTER 150 X 300	1,01846	Yes	0,592744	Yes	-0,075201	0,8
617	RAFTER 150 X 300	1,943605	Yes	5,194187	Yes	-7,335985	0,8
618	RAFTER 150 X 300	1,654954	Yes	4,422782	Yes	-4,335679	0,8
619	RAFTER 150 X 300	1,0618	Yes	0,617968	Yes	-0,262476	0,8
649	RAFTER 150 X 300	1,978189	Yes	5,286611	Yes	-7,740173	0,8
650	RAFTER 150 X 300	1,668955	Yes	4,460197	Yes	-4,46582	0,8
651	RAFTER 150 X 300	1,01859	Yes	0,59282	Yes	-0,075743	0,8
681	RAFTER 150 X 300	2,098232	Yes	5,60742	Yes	-9,217383	0,8
682	RAFTER 150 X 300	2,952905	Yes	7,89149	Yes	-23,066971	0,8
683	RAFTER 150 X 300	1,042403	Yes	0,606678	Yes	-0,176802	0,8
713	RAFTER 150 X 300	2,952558	Yes	7,890561	Yes	-23,060154	0,8
714	RAFTER 150 X 300	2,359653	Yes	0,700673	Yes	-12,833237	0,8
715	RAFTER 150 X 300	1,053568	Yes	0,613176	Yes	-0,225748	0,8
745	RAFTER 150 X 300	2,3346	Yes	0,693233	Yes	-12,463031	0,8
747	RAFTER 150 X 300	0,727998	Yes	0,216171	Yes	0,792067	0,8

Table: Steel Design 9 - Decision Parameters - AISC 360-10, Part 2 of 2Table: Steel Design 9 - Decision
Parameters - AISC 360-10, Part 2 of
2

Frame	Elmodifier
2	0,8
43	0,8
44	0,8
47	0,8
48	0,8
51	0,8
52	0,8
55	0,8
56	0,8
60	0,8
64	0,8
68	0,8
70	0,8
71	0,8
72	0,8
89	0,8
180	0,8
183	0,8
184	0,8
185	0,8
186	0,8
187	0,8
188	0,8
189	0,8
190	0,8
191	0,8
192	0,8
193	0,8
194	0,8
195	0,8
196	0,8
197	0,8
198	0,8
199	0,8
200	0,8
201	0,8
202	0,8
203	0,8
204	0,8
205	0,8
206	0,8
207	0,8
208	0,8
209	0,8
210	0,8
211	0,8
212	0,8
213	0,8
214	0,8
215	0,8
216	0,8

Table: Steel Design 9 - Decision Parameters - AISC 360-10, Part 2 of 2

Frame	Elmodifier
217	0,8
218	0,8
246	0,8
248	0,8
251	0,8
254	0,8
255	0,8
257	0,8
260	0,8
263	0,8
264	0,8
266	0,8
267	0,8
268	0,8
269	0,8
270	0,8
271	0,8
272	0,8
275	0,8
276	0,8
277	0,8
278	0,8
279	0,8
280	0,8
281	0,8
282	0,8
283	0,8
284	0,8
311	0,8
313	0,8
319	0,8
326	0,8
328	0,8
358	0,8
449	0,8
464	0,8
475	0,8
490	0,8
491	0,8
521	0,8
522	0,8
523	0,8
553	0,8
554	0,8
555	0,8
585	0,8
586	0,8
587	0,8
617	0,8
618	0,8
619	0,8
649	0,8
650	0,8

Table: Steel Design 9 - Decision Parameters - AISC 360-10, Part 2 of 2

Frame	Elmodifier
651	0,8
681	0,8
682	0,8
683	0,8
713	0,8
714	0,8
715	0,8
745	0,8
747	0,8