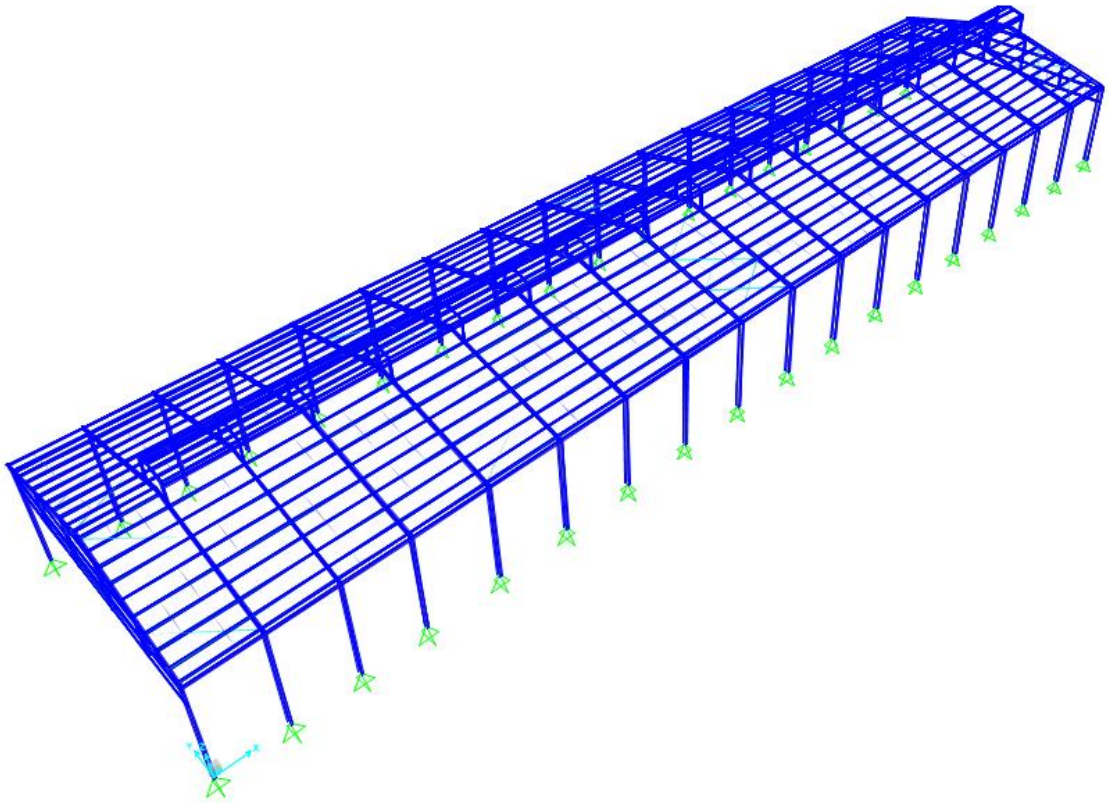
Evaluation of Charoen Pokphand Indonesia-Makassar Warehouse Roof's Structural Capacity for Solar Panel Installation: Warehouse 1



ATAPSURYA

PT. ATAP SURYA NUSANTARA
2025

REVISION CONTROL SHEET

REV. NO.	DATE	DESCRIPTION

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1. Introduction

In connection with the request for the installation of solar panel modules on the roof of PT. Charoen Pokphand Indonesia Warehouses in Makassar, an evaluation of the structural capacity of the roof is required to ensure that the existing structure can accommodate the additional load from the solar panel installation, or if structural reinforcement is needed. This report presents the related structural analysis for Warehouse 1.

Figure 1 - Location of Warehouse 1 (shaded with yellow)

The Charoen Pokphand Indonesia Warehouse in this project is located in Makassar, South Sulawesi, as indicated in Figure 1. While the precise location of the Warehouse 1 structure is shown on the plan view indicated on the right of Figure 1.

1.1. Scope of Work

The structural component to be evaluated in this document is the roof structure of warehouse with the code Warehouse 1 of PT. Charoen Pokphand Indonesia Indonesia in Makassar which consists of steel structures. The structure supporting the roof of Warehouse1 will be assumed to be a structural support such as hinges and will not be part of the evaluation in this document.

The structural aspects to be evaluated include the strength ratio, the stress ratio and deflections. The criterion stating that these aspects are satisfied will be based on the applicable standards and regulations such as the Indonesian National Standards (Standar Nasional Indonesia) or other relevant international standards. The detail descriptions of these standards and regulations will be explained in the subsequent section.

2. Evaluation Criteria

2.1. General Structural Map

Based on the preliminary survey on the existing building, the as built dimensional and geometric measures of Warehouse 1 are obtained and are presented as follows:

Width of the warehouse	=	23.00	m
Length of the warehouse	=	99.00	m
Distance between adjacent columns	=	6.00	M (some are 5.00 m)
Exterior Columns height	=	8.50	m
Distance between adjacent purlins (roof)	=	1.30	m
Distance between adjacent purlins (siding)	=	1.50	m

2.2. Standards and Regulations

The standards and regulations applicable for the structural evaluation in this document are presented as follows:

a.	SNI 1727:2020	Beban desain minimum dan kriteria terkait untuk bangunan gedung dan struktur lain
b.	SNI 1726:2019	Tata cara perencanaan ketahanan gempa untuk struktur bangunan gedung dan nongedung
c.	SNI 1729:2020	Spesifikasi untuk bangunan gedung baja struktural
d.	ASCE 7-16	Minimum Design Loads and Associated Criteria for Buildings and Other Structures
e.	AISC 360-16	Specification for Structural Steel Buildings
f.	AISI S100-16	North American Specification for the Design of Cold-Formed Steel Structural Members
g.	IBC 2012	International Building Code

2.3. Structural Capacity Criteria

The capacities of structural elements in the building are considered satisfiable if the criteria in the corresponding applicable standards and regulations are met. Since steel structures are the main components in the roof structure of Warehouse 1, therefore, the requirements in SNI 1729:2020 or AISC 360-16 as well as AISI S100-16 shall be satisfied. The criteria of the structural analysis include structural strengths, structural stresses and deflections. The allowable deflections are regulated in IBC 2012 section 1604.3. For this project, we take the maximum allowed deflection by

$$\delta \leq \frac{L}{240}$$

where L is the length of the corresponding structural member.

2.4. Structural Materials

The main structural material for the existing building is the steel structure. The information regarding the grade and mechanical properties of the material are obtained from the survey. The information is presented as follows:

a. Steel Material : ASTM A36

Min. yield strength,	F_y	= 250 MPa
Ultimate tensile strength,	F_u	= 400 – 500 MPa
Young's Modulus,	E	= 200000 MPa
Elongation,	ε	= 20 – 23 %

b. Welding Material : E-70XX
c. Bolt Material : ASTM A-352F

2.5. Load Components

The load components to be considered in this evaluation are described as follows:

a. Self-Weight of Structural Materials

The main structural component is the steel structure with the density $\rho = 7850$ kg/m^3. The self-weight of the steel structure will be designated to be the Dead Load (DL) in the analysis.

b. Additional Dead Loads

Additional dead loads are defined to be permanent or semi-permanent static loads on structural elements such as roof materials, solar panels and accessories. Information about the weight of roof materials and solar panels are given in the following table.

Table 1 - Components of mandatory additional dead loads

Item	Load Value	Unit	Remark
Roof Sheet (Klip Klok)	5.20	kg/m^2	From Survey
Solar Panel	29.10	kg	Spec/Brochure

These load components are designated to be Super Dead Loads (SDL).

c. Live Load

The applicable live load for this evaluation is the roof live load which is determined in accordance with SNI 1727:2020 table 4.3-1 as a point (concentrated) load. The amount of the roof live load is taken to be 100 kg.

d. Rain Load

The rain load is applied to the roof surface material as a gravitational pressure (force per unit area). This designation is consistent with SNI 1727:2020. The equation describing the rain load is given by

$$L_r = \rho \cdot d$$

where $\rho = 1000$ kg/m^3 is the water density and d (in meters) is the rain thickness on the roof. With the condition of the roof in this building, which is a sloped roof, we take $d = 0.008$ m (8 mm).

e. Wind Load

The design of wind load is conducted in accordance with SNI 1727:2020 sections 26 and 27. The wind load parameters are given as follows:

Wind speed,	V	= 20 m/s (45.46 mph)	
Exposure type		= B	(for urban area, SNI 1727:2020 section 26.7.2)
Topographical factor,	K_{zt}	= 1.0	(SNI 1727:2020 section 26.8.2)
Gust factor,	G	= 0.85	(SNI 1727:2020 section 26.11.1)
Directionality factor,	K_d	= 0.85	(SNI 1727:2020 table 26.6-1)

The wind load will be denoted by W.

f. Seismic Load

The seismic analysis is conducted in accordance with SNI 1726:2019. The necessary seismic parameters are given as follows:

Risk category		II		SNI 1726:2019 table 3
Importance factor	I_e =	1.00		SNI 1726:2019 table 4
0.2 sec. spectral acceleration	S_s =	0.85	g	Puskim
1 sec. spectral acceleration	S_1 =	0.35	g	Puskim
Long-period transition period	T_L =	16.00	s	Puskim
Site class		E		Assumption
Short period site coefficient	F_a =	1.16		SNI 1726:2019 table 6
Long-period site coefficient	F_v =	1.95		SNI 1726:2019 table 7
Design spectral response acceleration (short periods)	S_{DS} =	0.18	g	
Design spectral response acceleration (1 second)	S_{D1} =	0.14	g	
System		OCBF		(Ordinary Concentrically Braced Frame)
Response modification factor	R =	3.25		SNI 1726:2019 table 12
Overstrength factor	Ω_0 =	2.00		SNI 1726:2019 table 12
Deflection amplification factor	C_d =	3.25		SNI 1726:2019 table 12
Redundancy factor	ρ =	1.30		SNI 1726:2019 section 7.3.4
Parameter Ct for fundamental period	C_t =	0.07		SNI 1726:2019 table 18
Parameter x for fundamental period	x =	0.75		SNI 1726:2019 table 18
Structural height (m)	h_n =	11.30		SNI 1726:2019 table 18
Approximate fundamental period, $T_a = C_t h_n^x$	T_a =	0.45		SNI 1726:2019 section 7.8.2.1
Coefficient of seismic response, $C_s = S_{DS}$ Ie / R	C_s =	0.06		SNI 1726:2019 section 7.8.1

The seismic load will be denoted by E. The seismic load E are in fact a combination of seismic horizontal E_h and vertical E_v effects. The relation is given by

$$E = E_h + E_v \, .$$

The horizontal seismic effect is given in accordance with SNI 1726:2019 section 7.4.2.1 by

$$E_h = \rho Q_E$$

where Q_E is the horizontal seismic force. While the vertical seismic effect is given in accordance with SNI 1726:2019 section 7.4.2.2 by

$$E_v = 0.2 \cdot S_{DS} \cdot D$$

where D is the dead load considered in the seismic design.

2.6. Load Combinations

The load combinations applied in this evaluation are both the Load Resistance Factor Design (LRFD) and Allowable Stress Design (ASD) load combinations which are regulated in SNI 1727:2020 section 2.3 and section 2.4. The load combinations are presented as follows:

LRFD Combinations

1. 1.4D
2. 1.2D + 0.5Lr
3. 1.2D + 0.5R
4. 1.2D + 1.6Lr + 0.5Wx
5. 1.2D + 1.6R + 0.5Wx
6. 1.2D + 1.6Lr + 0.5Wy
7. 1.2D + 1.6R + 0.5Wy
8. 1.2D + 1.0Wx + 0.5Lr
9. 1.2D + 1.0Wx + 0.5R
10. 1.2D + 1.0Wy + 0.5Lr
11. 1.2D + 1.0Wy + 0.5R
12. 0.9D + 1.0Wx
13. 0.9D + 1.0 Wy
14. 1.2D + Ev + Ehx
15. 1.2D + Ev + Ehy
16. 0.9D – Ev + Ehx
17. 0.9D – Ev + Ehy

2.7. Structural Modelling

The structural modelling in this evaluation will be conducted in SAP2000. The geometrical input, material properties input and loading input are conducted in the software. The self-weight of the structure will be automatically generated by the software. Additional dead loads are to be input. Wind load will also be generated by the software by providing the wind load parameters and choosing ASCE 7-16 as the basis for the computation since SNI 1727:2020 are equivalent to the ASCE code. The similar case applies to the seismic load in which the software will auto-generate the seismic loads by designating static equivalent as the method.

The resulting analysis will be members strength ratio and deflections. Members with strength ratio less than 1.00 and deflections less than the allowable deflections are deemed satisfiable. Otherwise, recommendations for structural reinforcements will be provided.

3. Structural Analysis

3.1. Modelling

The structural configurations of Warehouse 1 are modelled in SAP2000 according to the information presented in the earlier section. The model is captured in Figure 2 below.

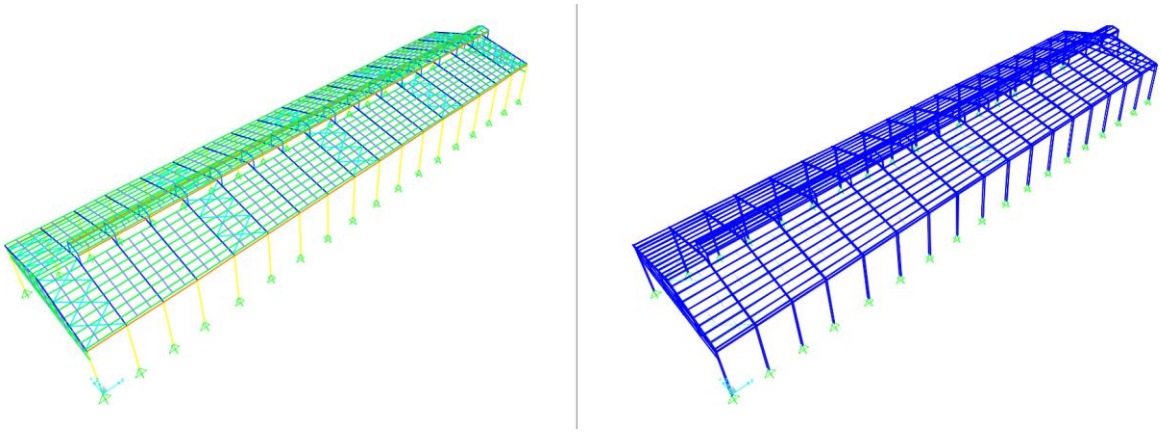

Figure 2 - SAP2000 model of Warehouse1 (left: frame view, right: extrude view)

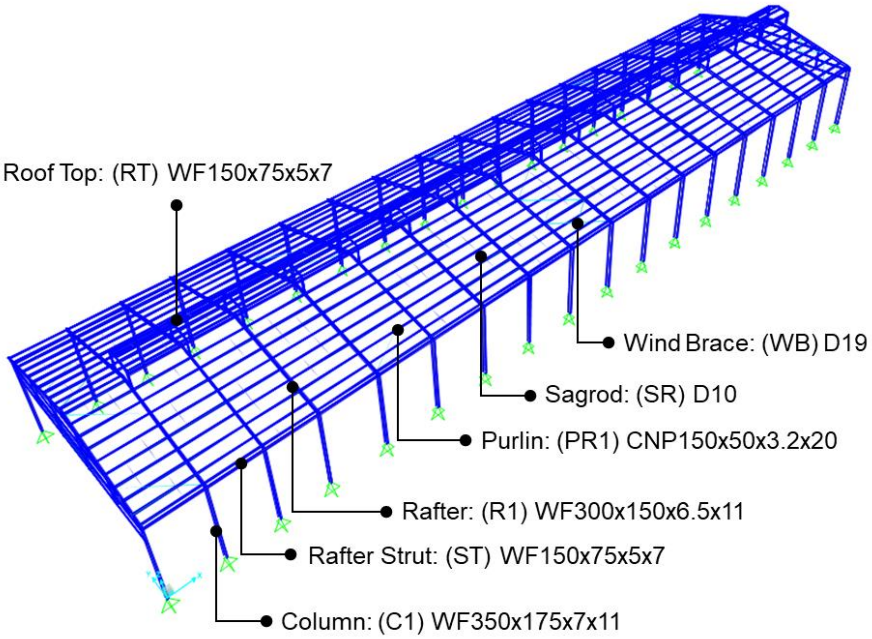

Figure 3 - Steel profile configurations

The input for the material properties is captured in Figure 4.

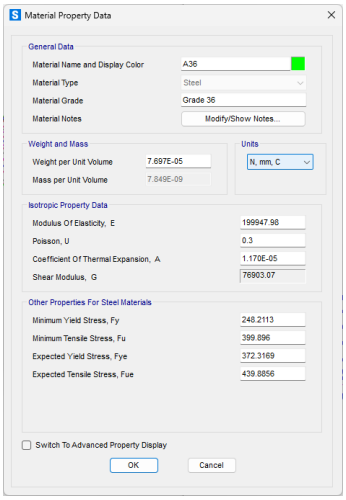

Figure 4 - Input of material properties of ASTM A36 for Warehouse 1 SAP2000 model

While the input for section members is shown in Figure 5, Figure 6 and Figure 7.

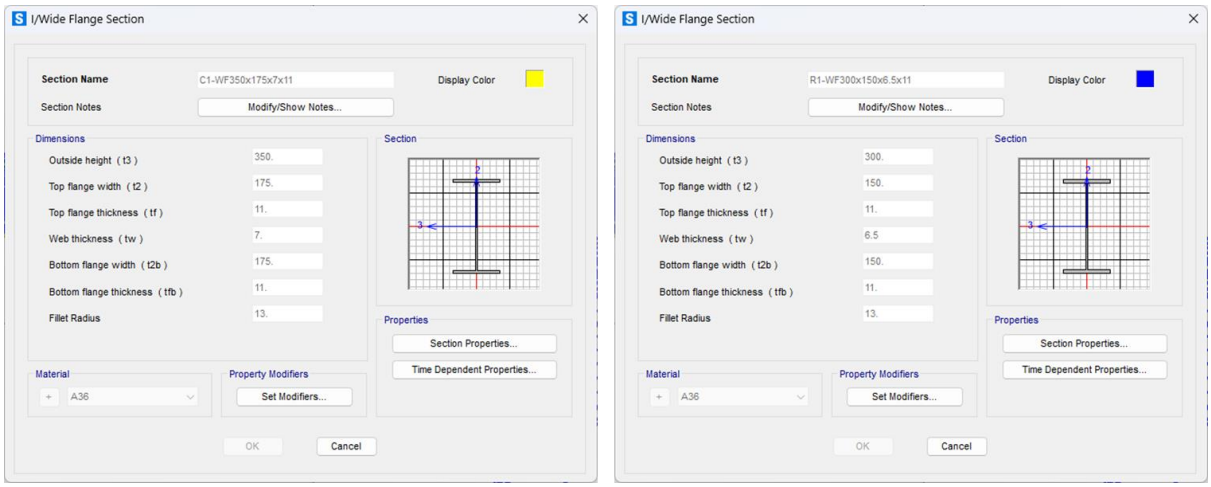

Figure 5 - Column section (left) and rafter section (right)

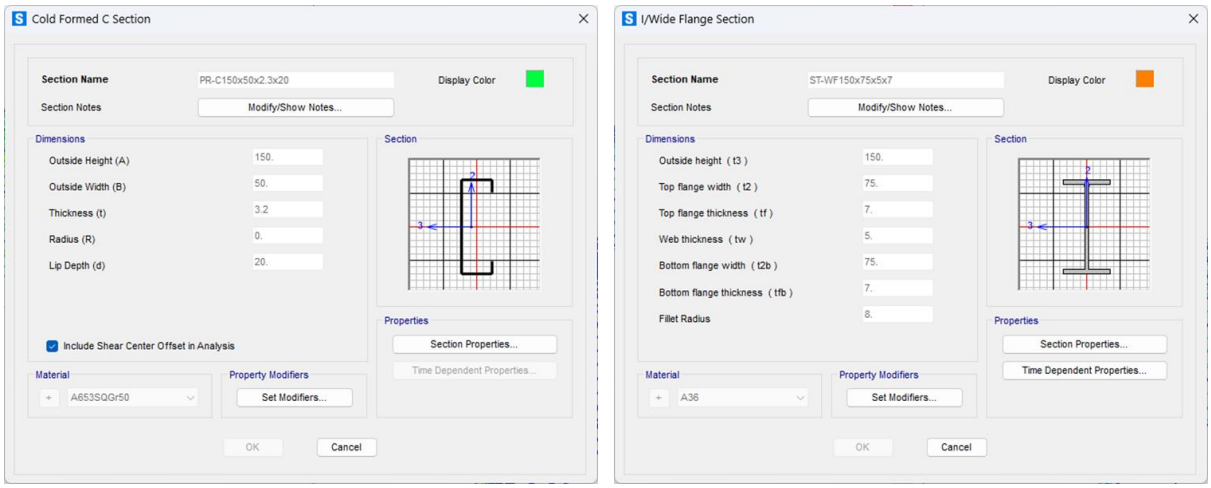

Figure 6 - Purlin section (left) and rafter strut section (right)

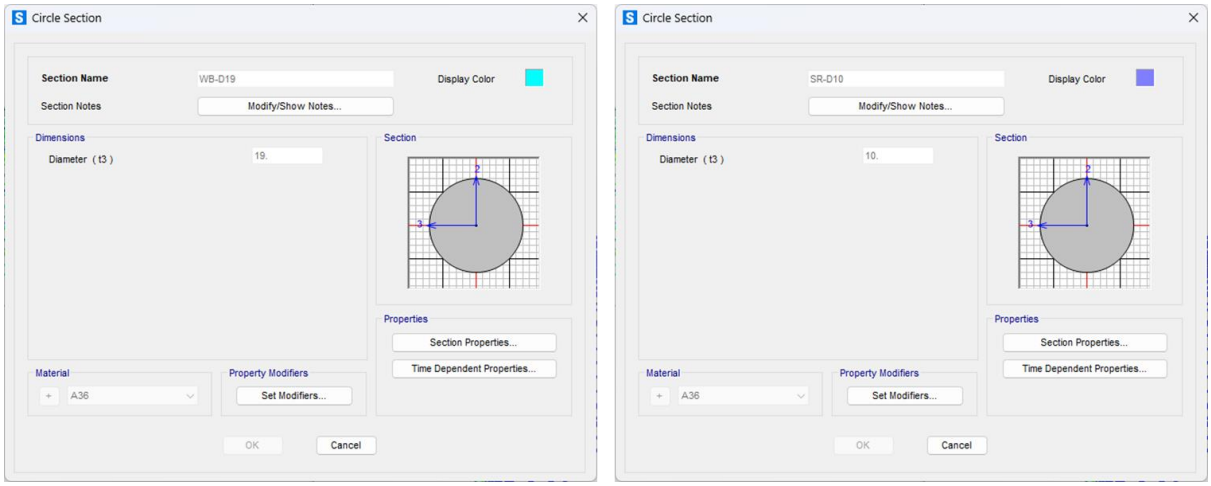

Figure 7 - Wind braces section (left) and sagrod section (right)

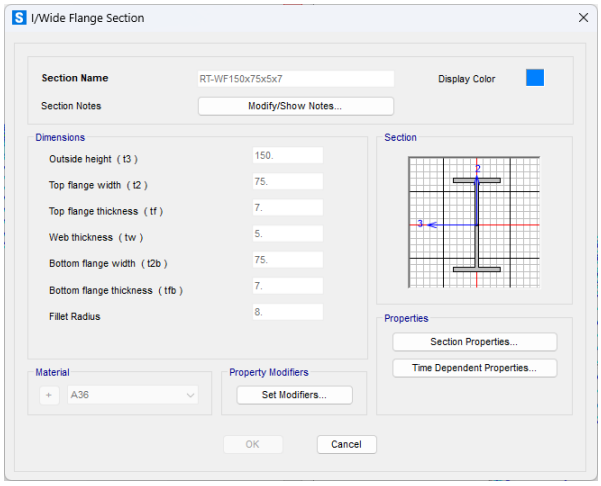

Figure 8 - Section of upper part frames

The supports of the columns are assumed to be hinges (pinned supports). Moment releases are applied to wind braces and sagrods.

3.2. Calculation of Additional Dead, Roof Live and Rain Loads

Additional dead loads, roof live load and rain load as described in section 2.5 are calculated as they will be applied to purlin members. The calculation is given as follows.

1.	**Additional Dead Loads**			
1.1.	Basic Additional Dead Loads			
	Roof Sheet (Klip Klok)		5.200	kg/m^2
	Solar Panel		29.100	kg
	Solar Panel Surface Area		2.703	m^2
1.2.	Loads Applied to Steel Member			
	Total additional dead loads for roof purlins	q =	15.966	kg/m^2
	Total additional dead loads for siding purlins	q =	5.200	kg/m^2

	Applied to roof interior purlin (distance = 1.3 m)	$SDL_{.int}$ =	20.756	kg/m
	Applied to roof exterior purlin (distance = 1.5 m)	$SDL_{.ext}$ =	10.378	kg/m
	Applied to siding interior purlin (distance = 1.5 m)	$SDL_{.int}$ =	7.800	kg/m
	Applied to siding exterior purlin (distance = 1.5 m)	$SDL_{.ext}$ =	3.900	kg/m
2.	**Roof Live Load (Point Load)**	Lr =	100.000	kg
3.	**Rain Load**			
	Water density	ρ =	1,000.000	kg/m^3
	Assumed hydraulic head	d =	0.008	m
	Rain load per unit area, $q_R = \rho\, d$	q_R =	8.000	kg/m^2
	Applied to roof purlin (distance = 1.3 m)	$R_{.ext}$ =	10.400	kg/m

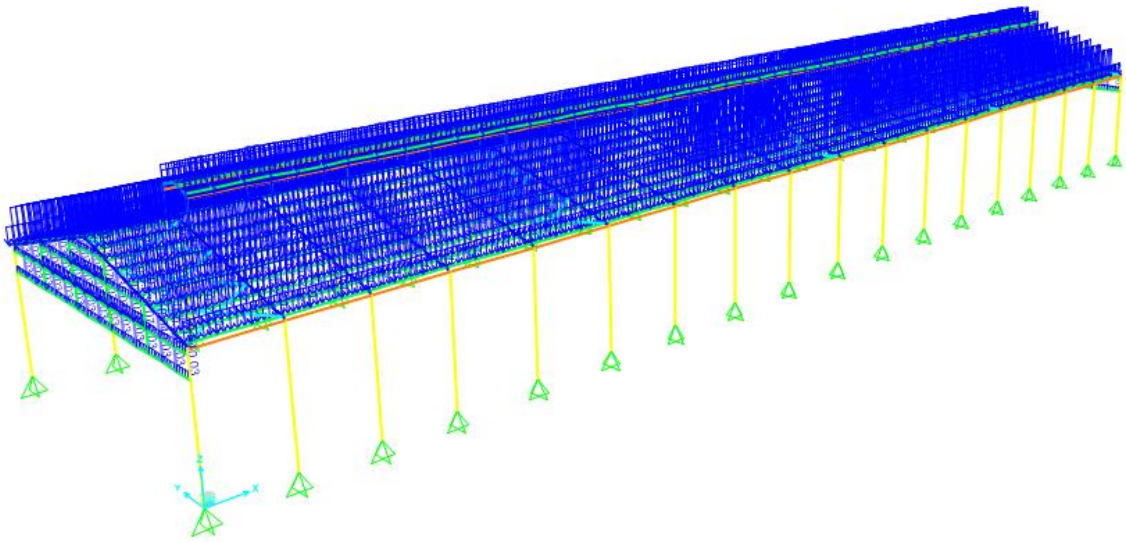

Figure 9 - Input of Super Dead Load (SDL)

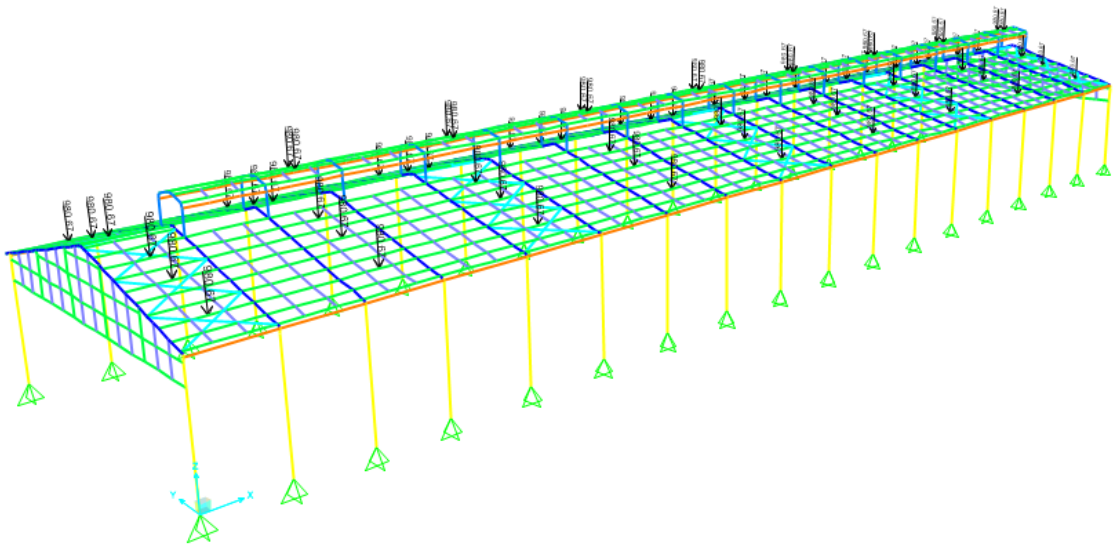

Figure 10 - Input of roof live load

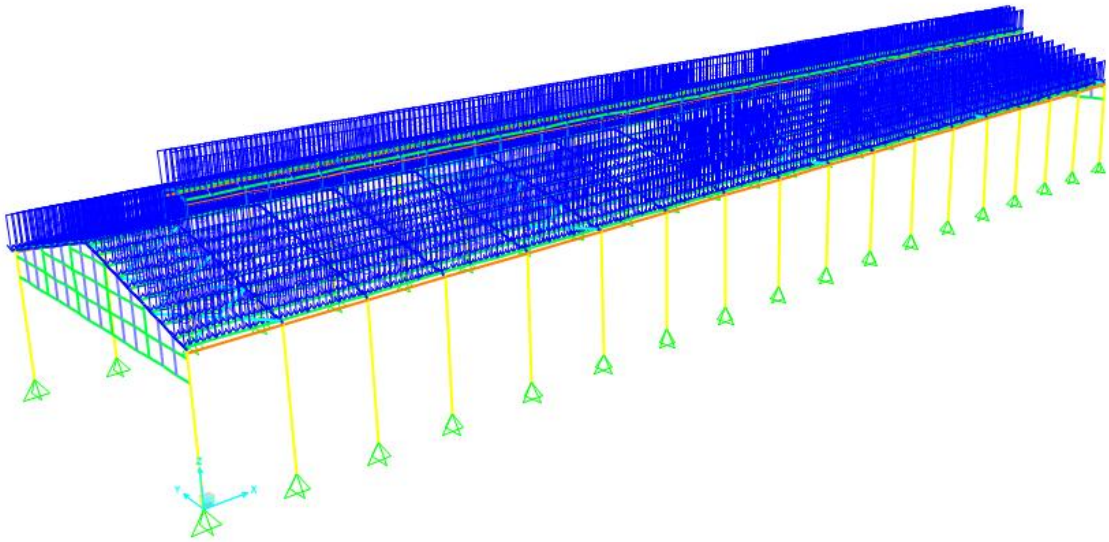

Figure 11 - Input of rain load

The input of additional dead loads is presented in Figure 9. While the input for the roof live loads is presented in Figure 10. And the input for the rain load is presented in Figure 11.

3.3. Generating Wind Loads

The wind loads are auto-generated from SAP2000 by providing the wind load parameters which have been presented in section 2.5. The input is shown in Figure 12. While the auto-generated wind load from SAP2000 model is presented in Figure 13.

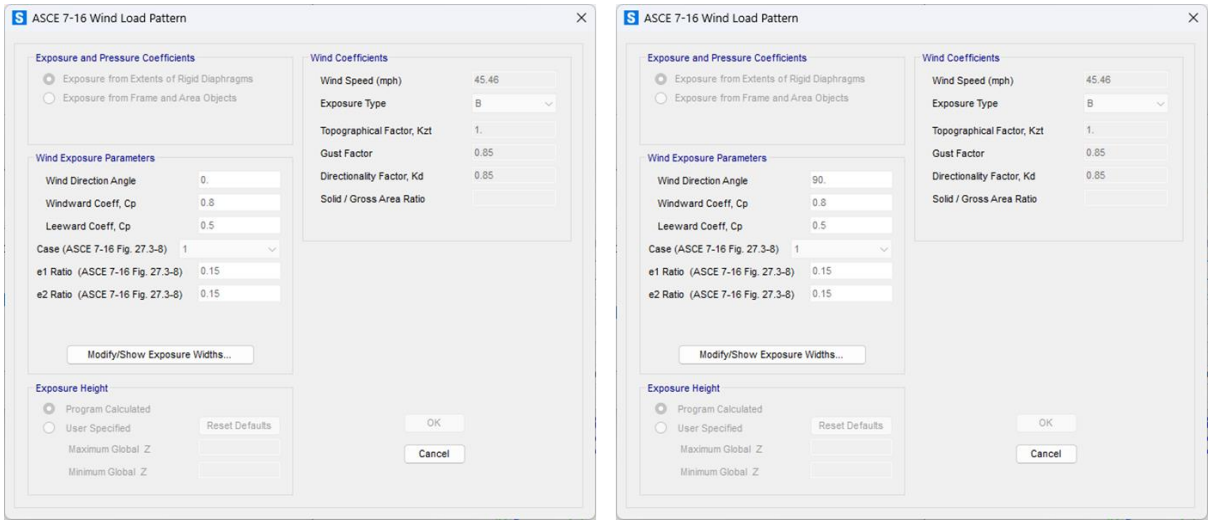

Figure 12 - Input of wind loads parameters; x-direction (left) and y-direction (right)

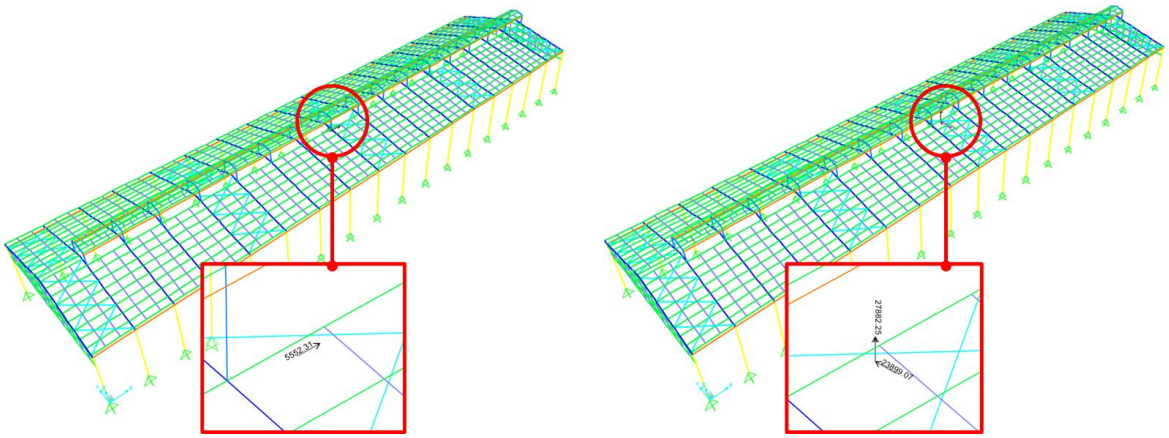

Figure 13 - Auto-generated wind loads as diaphragm loads in kg; x-direction (left) and y-direction (right)

3.4. Generating Seismic Loads

The seismic analysis will use the response spectrum method. We generate the response spectrum function in accordance with SNI 1726:2019 as well as the data we obtain from Puskim. The generated reponse spectrum is presented in

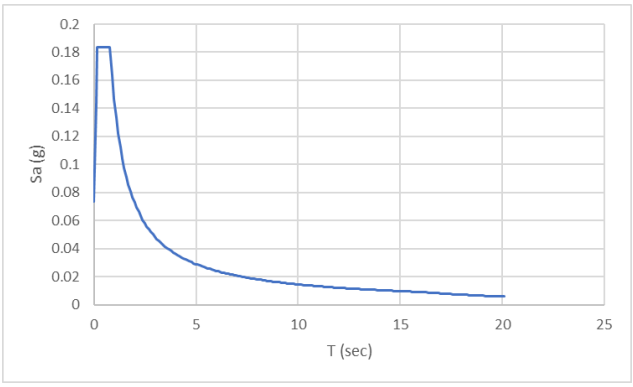

Figure 14 - Constructed response spectrum with an assumption of SE site class

The dynamics loading setting in SAP2000 for response spectrum seismic method is presented in Figure 15.

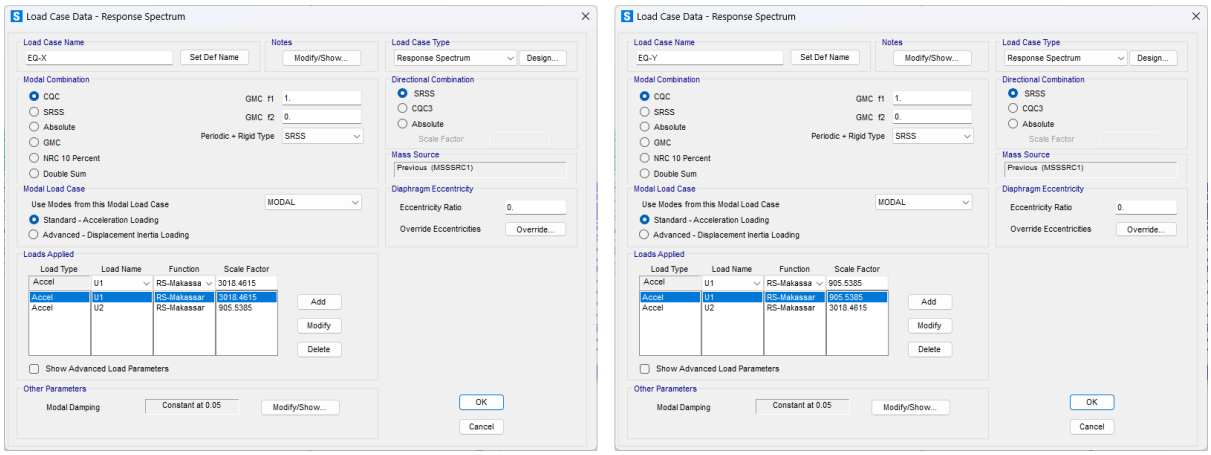

Figure 15 - Input of seismic parameters; x-direction (left) and y-direction (right)

4. Results of Structural Analysis

The model with all the parameters set is then run. The subsequent step is running the steel structural capacity analysis by following AISC 360-16 and AISI S100-16 for hot-rolled and cold-formed steel structures respectively, which have dedicated algorithmic environments in SAP2000. It is worth noting that SNI 1729:2020 is equivalent to AISC 360-16. The result of the analysis to be presented includes the steel strength ratio and the deflections of steel members.

4.1. Steel Strength Ratio

The steel strength ratio of the structural members is presented in Figure 16.

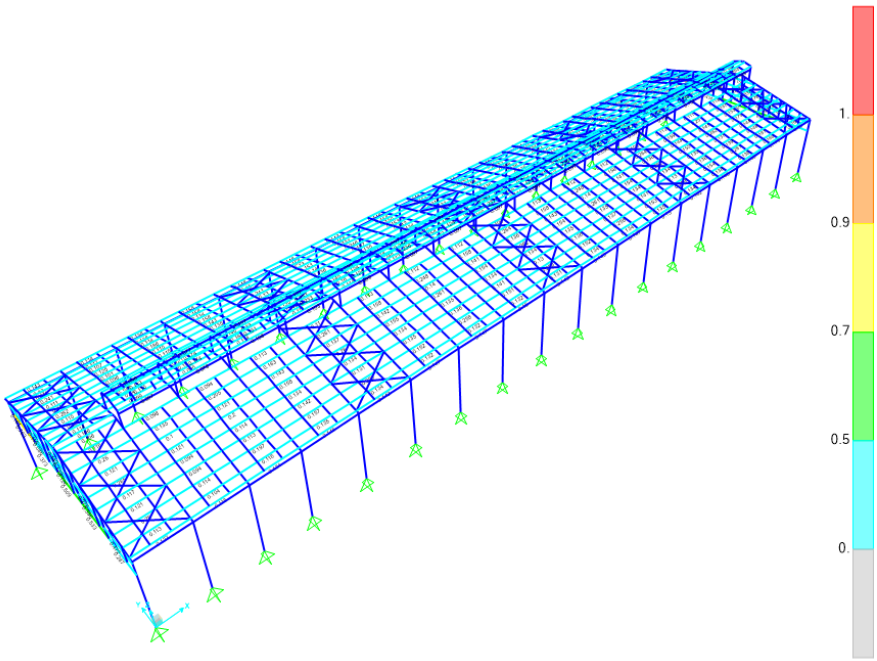

Figure 16 - Strength ratio for purlin members

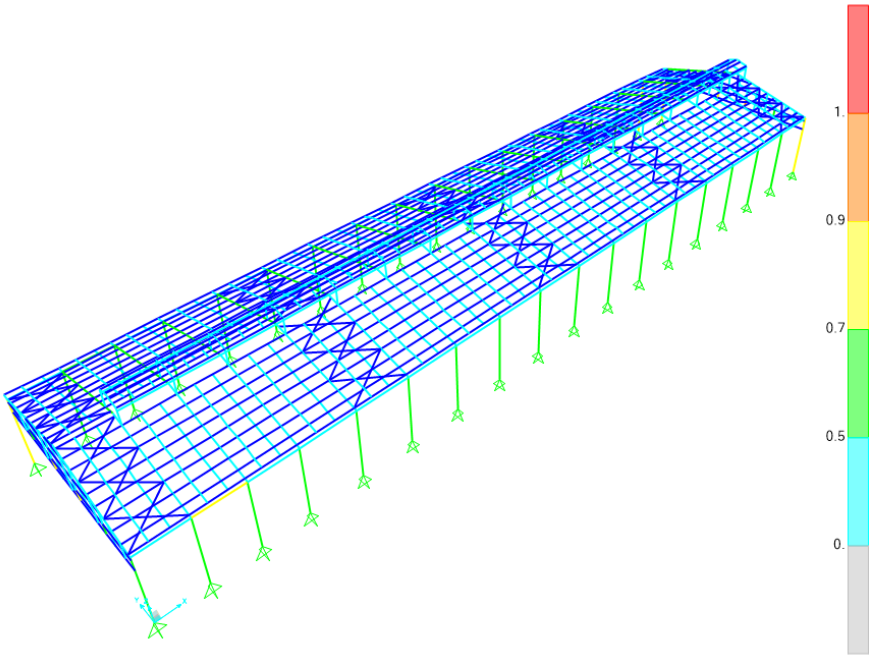

Figure 17 - Strength ratio for other members

From Figure 16, we can conclude that all the purlin members have sufficient capacity since their strength ratio are below 1.0 and the most extreme ratio is given by

$$r_p = 0.801 < 1.00\,.$$

From Figure 17, all other structure members also have sufficient strength ratio. The most extreme strength ratio is given by

$$r_s = 0.81 < 1.00\,.$$

Therefore, a reinforcement is required for rafter members.

4.2. Deflection Control

Follows from the analysis, all members satisfy the deflection requirement due to the dead load D. The result is summarized in Table 2.

Table 2 - Deflection control due to the dead load (permanent deflection)

Element	Section	Length (mm), L	Max. Deflection (mm), δ	Allowable Deflection, $\frac{L}{360}$	Satisfiability
Purlin	CNP150x50x20x3.2	6000	6.70	16.67	Satisfiable
Rafter	WF300x150x6.5x11	11900	8.00	33.06	Satisfiable
Strut-Rafter	WF150x75x5x7	6000	1.11	16.67	Satisfiable
Top frames	WF150x75x5x7	1500	0.11	4.17	Satisfiable

5. Conclusion

We have conducted the structural capacity evaluation for Warehouse 1 of Charoen Pokphand Indonesia in Makassar. The result, as discussed in section 4 of this document, provides the following conclusions:

i. All steel structural members have sufficient strength ratio with the most extreme ratio being 0.801 < 1.00 for purlin members, and 0.81 < 1.00 for other members.
ii. The deflection requirement due to the dead load D is satisfied by all members.

Overall, we conclude that the installation of solar panel can be conducted for Warehouse 1 roof structure.

APPENDIX 1:

PURLIN STRESS RATIO SUMMARY

TABLE: Cold Formed Design 1 - Summary Data - AISI-16

Frame	DesignSect	Combo	Location	CombinedEq	TotalRatio	PRatio	MMajRatio	MMinRatio	VMajRatio	VMinRatio	P
Text	Text	Text	mm	Text	Unitless	Unitless	Unitless	Unitless	Unitless	Unitless	N
61	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	5000	(H1.1-1)	0.113374	0.001274	0.100664	0.011437	0.016327	0.000445	347.06
62	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	2500	(H1.2-1)	0.259949	0.000892	0.226188	0.032869	0.006015	0.000161	-114
63	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	2050	(H1.2-1)	0.121217	0.011914	0.103311	0.005992	0.000576	0.000123	-1521.82
64	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	2050	(H1.2-1)	0.116919	0.000926	0.108458	0.007535	0.000519	0.000098	-118.28
65	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	2500	(H1.2-1)	0.265273	0.000449	0.228301	0.036524	0.006105	0.000122	-57.3
66	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	2050	(H1.2-1)	0.120915	0.009408	0.102002	0.009505	0.000325	0.000082	-1201.75
67	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	2500	(H1.2-1)	0.259641	0.00087	0.220682	0.038089	0.005854	0.000092	-111.15
68	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	2050	(H1.2-1)	0.115808	0.000024	0.103563	0.012221	0.000082	0.000077	-3.09
73	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	2500	(H1.1-2)	0.105825	0.002527	0.002957	0.105395	0.000158	0.000114	688.54
74	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.1-1)	0.111056	0.001258	0.101162	0.008635	0.016336	0.000294	342.75
75	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	2500	(H1.1-2)	0.240528	0.000149	0.017893	0.222783	0.011551	0.000026	40.61
76	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	2950	(H1.2-1)	0.111492	0.00211	0.104335	0.005047	0.000136	0.000019	-269.58
77	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	2950	(H1.1-2)	0.109603	0.000031	0.003785	0.105849	0.000247	0.000042	8.37
78	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	2500	(H1.2-1)	0.262028	0.000078	0.224685	0.037265	0.011444	0.000085	-10
79	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	2950	(H1.2-1)	0.115278	0.004346	0.101376	0.009555	0.000109	0.000062	-555.19
80	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	2500	(H1.2-1)	0.257923	0.000357	0.218565	0.039001	0.011619	0.000075	-45.65
81	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	2950	(H1.2-1)	0.114352	0.000175	0.102212	0.011964	0.000005174	0.000035	-22.41
82	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	2500	(H1.1-2)	0.106374	0.002798	0.003138	0.106034	0.000072	0.000072	762.41
85	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	5000	(H1.2-1)	0.126703	0.00116	0.084254	0.04129	0.012661	0.001723	-138.17
88	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.2-1)	0.129678	0.000933	0.110343	0.018402	0.016587	0.000696	-135.01
89	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.2-1)	0.142751	0.002621	0.090894	0.049236	0.01285	0.001991	-312.29
131	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.1-1)	0.103573	0.003063	0.09969	0.00082	0.014173	0.000028	834.56
132	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	0	(H1.1-2)	0.114459	0.000191	0.001311	0.113339	0.009528	0.000349	52.1
133	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	5000	(H1.1-2)	0.093841	0.00054	0.00727	0.087111	0.013684	0.000296	147.14
134	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	5000	(H1.1-2)	0.094347	0.000044	0.006566	0.087826	0.013726	0.000285	12.12
135	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	0	(H1.2-1)	0.120587	0.00023	0.108742	0.011615	0.009293	0.000259	-33.23
136	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.2-1)	0.099708	0.000654	0.087135	0.01192	0.013616	0.000515	-94.62
137	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	0	(H1.1-2)	0.134752	0.000068	0.017149	0.117671	0.009615	0.000482	18.63
138	PR-C150x50x3.2x20	LRFD 1.4D	0	(H1.2-1)	0.097894	0.000806	0.08072	0.016369	0.011049	0.000668	-96.01
140	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	5000	(H1.1-1)	0.1072	0.000058	0.104215	0.002927	0.014337	0.000193	15.74
141	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	5000	(H1.1-2)	0.124717	0.00005	0.005124	0.119642	0.00967	0.000057	13.62
142	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	5000	(H1.2-1)	0.100693	0.001898	0.095592	0.003202	0.013888	0.000103	-274.82
143	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	5000	(H1.1-2)	0.095878	0.000056	0.005904	0.09003	0.013668	0.000243	15.16
144	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	5000	(H1.2-1)	0.128515	0.000012	0.115461	0.013042	0.009457	0.000304	-1.73
145	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	5000	(H1.2-1)	0.108848	0.001186	0.094568	0.013094	0.013827	0.000545	-171.65
146	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	5000	(H1.1-2)	0.140386	0.000109	0.018884	0.12161	0.009702	0.000546	29.59
147	PR-C150x50x3.2x20	LRFD 1.4D	5000	(H1.2-1)	0.098928	0.000841	0.080762	0.017325	0.011047	0.000698	-100.24
150	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	5000	(H1.1-1)	0.115512	0.006961	0.063313	0.045238	0.010081	0.001884	1896.74
152	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	5000	(H1.1-1)	0.112559	0.000029	0.107571	0.00496	0.014501	0.000295	7.82
153	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.2-1)	0.114188	0.009663	0.057099	0.047426	0.009647	0.001887	-1151.38
204	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	5000	(H1.2-1)	0.096775	0.013027	0.080195	0.003553	0.011483	0.000076	-1552.24
205	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	5000	(H1.2-1)	0.114591	0.000257	0.096849	0.017485	0.0081	0.000462	-30.63
206	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.2-1)	0.096411	0.01272	0.081136	0.002555	0.011528	0.000059	-1515.61
207	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	0	(H1.2-1)	0.113343	0.000243	0.097064	0.016036	0.008108	0.000437	-28.98
227	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	5000	(H1.1-1)	0.115918	0.00288	0.106858	0.00618	0.014399	0.000326	784.9
228	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	2500	(H1.2-1)	0.19695	0.000846	0.170731	0.025374	0.008516	0.000019	-108.04
229	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	5000	(H1.2-1)	0.113458	0.000328	0.1039	0.009231	0.014032	0.000305	-47.47
230	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	5000	(H1.1-2)	0.113527	0.000025	0.008779	0.104773	0.014037	0.000303	6.88
231	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	2500	(H1.2-1)	0.199512	0.000638	0.169426	0.029448	0.008527	0.000005627	-81.51
232	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	5000	(H1.2-1)	0.121243	0.001168	0.104787	0.015289	0.014072	0.000591	-169.03
233	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	2500	(H1.2-1)	0.204775	0.000334	0.171847	0.032594	0.00838	0.000001403	-42.66
234	PR-C150x50x3.2x20	LRFD 1.4D	5000	(H1.2-1)	0.094355	0.00078	0.07685	0.016725	0.010877	0.00069	-92.97
236	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.1-1)	0.113555	0.002789	0.10689	0.003876	0.014393	0.000202	760
237	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	2500	(H1.1-2)	0.185765	0.000039	0.014356	0.171448	0.008905	0.000011	10.56
238	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.2-1)	0.114963	0.000152	0.103855	0.010956	0.01403	0.000398	-22.05
239	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.1-2)	0.115003	0.000075	0.010318	0.10476	0.014037	0.000385	20.49
240	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	2500	(H1.1-2)	0.185894	0.000111	0.016353	0.169652	0.008847	0.000003751	30.28
241	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.2-1)	0.121084	0.000595	0.104418	0.01607	0.014068	0.000649	-86.12
242	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	2500	(H1.1-2)	0.189667	0.000109	0.017942	0.171834	0.008985	0.000007339	29.83
243	PR-C150x50x3.2x20	LRFD 1.4D	0	(H1.2-1)	0.094925	0.0008	0.076813	0.017312	0.010872	0.000727	-95.27
246	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	5000	(H1.1-1)	0.13438	0.002562	0.086037	0.045781	0.01131	0.001968	698.09
248	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.1-1)	0.137529	0.002457	0.111399	0.023672	0.014785	0.000979	669.57
249	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.2-1)	0.13845	0.008775	0.084547	0.045127	0.011287	0.001858	-1045.62
294	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	5000	(H1.2-1)	0.077925	0.001813	0.073112	0.003	0.010502	0.000065	-215.98
295	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	2500	(H1.2-1)	0.173967	0.000823	0.153938	0.019206	0.00927	0.000006832	-91.22
296	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.2-1)	0.077003	0.00141	0.072675	0.002917	0.010472	0.000065	-168.02
297	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	2500	(H1.2-1)	0.173879	0.000804	0.153855	0.01922	0.008103	0.000005962	-89.14
313	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	6000	(H1.2-1)	0.134609	0.000044	0.130951	0.003615	0.016784	0.000128	-4.77
314	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	6000	(H1.1-2)	0.15654	0.000649	0.010487	0.146702	0.011611	0.000146	176.86
315	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	6000	(H1.2-1)	0.141791	0.002185	0.131725	0.007881	0.016813	0.000259	-238.33
316	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	6000	(H1.2-1)	0.134384	0.001067	0.127953	0.005364	0.01672	0.000196	-116.37
317	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	6000	(H1.2-1)	0.157883	0.000881	0.144846	0.012156	0.011552	0.000224	-96.11
318	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	6000	(H1.2-1)	0.142941	0.000993	0.130302	0.011646	0.016743	0.000414	-108.35
319	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	6000	(H1.2-1)	0.163012	0.000042	0.145756	0.017214	0.011532	0.000397	-4.63

Frame	DesignSect	Combo	Location	CombinedEq	TotalRatio	PRatio	MMajRatio	MMinRatio	VMajRatio	VMinRatio	P
Text	Text	Text	mm	Text	Unitless	Unitless	Unitless	Unitless	Unitless	Unitless	N
320	PR-C150x50x3.2x20	LRFD 1.4D	6000	(H1.2-1)	0.113284	0.000117	0.098815	0.014352	0.012792	0.000481	-10.04
322	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	0	(H1.2-1)	0.133897	0.000113	0.13093	0.002853	0.016776	0.000101	-12.37
323	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	0	(H1.1-2)	0.158091	0.000683	0.012133	0.146641	0.011599	0.000216	186.07
324	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.2-1)	0.142917	0.001999	0.131884	0.009034	0.016807	0.000317	-218.11
325	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.1-2)	0.135498	0.0001	0.007746	0.127853	0.016706	0.000293	27.34
326	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	0	(H1.1-2)	0.158142	0.000027	0.013448	0.144722	0.011544	0.000286	7.39
327	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	0	(H1.2-1)	0.146296	0.002143	0.131912	0.012241	0.016785	0.000433	-233.77
328	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	0	(H1.1-2)	0.163947	0.000244	0.018641	0.14555	0.011521	0.000461	66.56
329	PR-C150x50x3.2x20	LRFD 1.4D	0	(H1.2-1)	0.113551	0.000137	0.098807	0.014608	0.012789	0.000504	-11.72
332	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	6000	(H1.1-1)	0.146134	0.000782	0.104038	0.041314	0.013015	0.001425	212.99
334	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.1-1)	0.155539	0.000699	0.134987	0.019853	0.017105	0.000632	190.51
335	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.2-1)	0.154514	0.009651	0.102996	0.041866	0.012831	0.001378	-826.16
380	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	6000	(H1.2-1)	0.107573	0.008781	0.09744	0.001352	0.012429	0.000024	-751.65
381	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	6000	(H1.2-1)	0.131089	0.000709	0.117628	0.012753	0.007496	0.000191	-60.66
382	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.2-1)	0.107141	0.008692	0.097285	0.001164	0.012424	0.000022	-744.04
383	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	0	(H1.2-1)	0.130381	0.000649	0.117658	0.012075	0.007499	0.000186	-55.58
487	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	0	(H1.2-1)	0.134067	0.000038	0.130926	0.003103	0.016436	0.000122	-4.12
488	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	3000	(H1.2-1)	0.255808	0.000809	0.229316	0.025684	0.008833	0.000007497	-88.21
489	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	0	(H1.2-1)	0.131392	0.000438	0.128542	0.002411	0.01636	0.000082	-47.82
490	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	0	(H1.2-1)	0.134427	0.001041	0.128034	0.005352	0.016334	0.000188	-113.59
491	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	3000	(H1.2-1)	0.25972	0.00062	0.229841	0.029259	0.00879	0.000005507	-67.66
492	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	0	(H1.1-2)	0.137266	0.001071	0.011042	0.127295	0.016312	0.000386	291.93
493	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	3000	(H1.2-1)	0.261322	0.000475	0.22919	0.031657	0.008815	0.000008704	-51.86
494	PR-C150x50x3.2x20	LRFD 1.4D	0	(H1.1-2)	0.109942	0.001152	0.011892	0.099202	0.012656	0.00041	313.92
496	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	6000	(H2-1)	0.131832	0.000272	0.130785	0.002248	0.016431	0.000092	74
497	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	3000	(H1.1-2)	0.243241	0.000459	0.014315	0.229385	0.008545	0.000008188	125.12
498	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.1-2)	0.130142	0.003461	0.008569	0.125035	0.016268	0.000304	943.21
499	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.1-2)	0.134595	0.000247	0.008362	0.12648	0.016261	0.000302	67.41
500	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	3000	(H1.1-2)	0.245821	0.000156	0.016182	0.229795	0.008596	0.000049	42.54
501	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	6000	(H1.1-2)	0.135237	0.002866	0.011497	0.126606	0.01632	0.000386	780.92
502	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	3000	(H1.1-2)	0.246437	0.000151	0.017459	0.229129	0.008575	0.000055	41.18
503	PR-C150x50x3.2x20	LRFD 1.4D	6000	(H1.1-2)	0.110566	0.00115	0.012541	0.099175	0.012653	0.000432	313.27
506	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	6000	(H1.1-1)	0.141684	0.001121	0.097381	0.043182	0.012583	0.001467	305.45
508	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.1-1)	0.149933	0.001171	0.126828	0.021933	0.016538	0.00068	319.07
509	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.2-1)	0.14848	0.006941	0.098422	0.043117	0.012417	0.001408	-594.16
566	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	6000	(H1.2-1)	0.102516	0.004847	0.09731	0.000359	0.01232	0.000005968	-414.88
567	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	3000	(H1.2-1)	0.233309	0.001504	0.211605	0.020199	0.008839	0.000002289	-128.73
568	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.2-1)	0.102453	0.004811	0.09729	0.000352	0.012319	0.000005996	-411.82
569	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	3000	(H1.2-1)	0.233272	0.001474	0.2116	0.020197	0.008545	0.000005167	-126.2
585	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	6000	(H1.2-1)	0.131901	0.000257	0.12784	0.003804	0.016372	0.000134	-28.07
586	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	6000	(H1.1-2)	0.151631	0.000623	0.009902	0.142352	0.010937	0.000124	169.67
587	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	6000	(H1.2-1)	0.135131	0.000788	0.126944	0.007398	0.016255	0.000243	-86.01
588	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	6000	(H1.1-2)	0.134393	0.000036	0.006956	0.127474	0.016315	0.000243	9.74
589	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	6000	(H1.2-1)	0.154575	0.00091	0.14233	0.011335	0.010919	0.000187	-99.31
590	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.2-1)	0.142323	0.002119	0.129105	0.011099	0.016329	0.00038	-231.18
591	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	6000	(H1.1-2)	0.158411	0.000326	0.016874	0.141863	0.010886	0.000385	88.79
592	PR-C150x50x3.2x20	LRFD 1.4D	0	(H1.2-1)	0.112951	0.000293	0.098639	0.01402	0.01262	0.000477	-25.04
594	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	0	(H1.2-1)	0.130484	0.000013	0.127816	0.002654	0.016366	0.000095	-1.46
595	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	0	(H1.1-2)	0.153165	0.000651	0.011545	0.14227	0.010926	0.000195	177.27
596	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	6000	(H1.2-1)	0.140399	0.004294	0.132673	0.003432	0.016449	0.000103	-468.44
597	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.1-2)	0.135587	0.000096	0.008274	0.127409	0.016307	0.000299	26.13
598	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	0	(H1.2-1)	0.154442	0.000013	0.142313	0.012116	0.01091	0.000243	-1.39
599	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	6000	(H1.2-1)	0.144889	0.002788	0.13025	0.01185	0.016354	0.000402	-304.12
600	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	0	(H1.1-2)	0.159604	0.000339	0.018146	0.141797	0.010878	0.000438	92.44
601	PR-C150x50x3.2x20	LRFD 1.4D	6000	(H1.2-1)	0.113969	0.00029	0.098593	0.015086	0.012616	0.000499	-24.86
604	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	6000	(H1.2-1)	0.147134	0.000582	0.10251	0.044042	0.012621	0.00147	-49.84
606	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.2-1)	0.155955	0.000458	0.133303	0.022194	0.016606	0.000679	-49.96
607	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.2-1)	0.148045	0.004688	0.099569	0.043787	0.012538	0.001428	-401.33
652	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	6000	(H1.2-1)	0.098789	0.002282	0.096089	0.000418	0.012259	0.00000616	-195.34
653	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	6000	(H1.2-1)	0.125136	0.000806	0.113064	0.011266	0.006813	0.000151	-69.02
654	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.2-1)	0.09838	0.002109	0.096045	0.000226	0.012257	0.000003758	-180.54
655	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	0	(H1.2-1)	0.124465	0.000774	0.112994	0.010697	0.006809	0.000147	-66.27
671	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	0	(H1.2-1)	0.131637	0.000277	0.12782	0.00354	0.01635	0.000127	-30.26
672	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	3000	(H1.2-1)	0.257677	0.000592	0.23123	0.025855	0.008695	3.998E-07	-64.63
673	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	6000	(H1.2-1)	0.13608	0.001797	0.126783	0.007501	0.016293	0.000248	-195.98
674	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	6000	(H1.2-1)	0.134586	0.000187	0.127591	0.006809	0.016302	0.000237	-20.36
675	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	3000	(H1.2-1)	0.261005	0.000833	0.230871	0.0293	0.008691	4.763E-07	-90.92
676	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	6000	(H1.2-1)	0.139564	0.001393	0.126962	0.011209	0.016276	0.000389	-151.93
677	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	3000	(H1.1-2)	0.247574	0.00004	0.016735	0.23088	0.008694	0.000003435	10.97
678	PR-C150x50x3.2x20	LRFD 1.4D	0	(H1.2-1)	0.111569	0.000219	0.098813	0.012537	0.012632	0.000434	-18.78
680	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	6000	(H1.2-1)	0.130914	0.000019	0.127802	0.003093	0.016347	0.000109	-2.08
681	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	3000	(H1.1-2)	0.245519	0.000032	0.014467	0.231083	0.008682	3.861E-07	8.6
682	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.2-1)	0.137151	0.001801	0.126667	0.008683	0.016283	0.000309	-196.45
683	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.2-1)	0.135491	0.000044	0.127514	0.007933	0.016292	0.000294	-4.75
684	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	3000	(H1.1-2)	0.246904	0.000021	0.016212	0.230712	0.008696	0.000048	5.75

Frame	DesignSect	Combo	Location	CombinedEq	TotalRatio	PRatio	MMajRatio	MMinRatio	VMajRatio	VMinRatio	P
Text	Text	Text	mm	Text	Unitless	Unitless	Unitless	Unitless	Unitless	Unitless	N
685	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	6000	(H1.2-1)	0.140279	0.002432	0.126444	0.011403	0.016272	0.000399	-265.27
686	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	3000	(H1.1-2)	0.247928	0.000238	0.017416	0.230749	0.008695	0.000053	64.77
687	PR-C150x50x3.2x20	LRFD 1.4D	6000	(H1.2-1)	0.112532	0.000214	0.098774	0.013544	0.012628	0.000456	-18.32
690	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	6000	(H1.2-1)	0.146511	0.00008	0.102383	0.044048	0.012651	0.001468	-6.81
692	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.2-1)	0.155333	0.000039	0.133103	0.02219	0.016631	0.000676	-4.29
693	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.2-1)	0.146508	0.002971	0.099277	0.04426	0.012512	0.001442	-254.31
738	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	6000	(H1.2-1)	0.097055	0.001231	0.095409	0.000415	0.012226	0.000006543	-105.38
739	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	3000	(H1.2-1)	0.235845	0.001576	0.213866	0.020403	0.008697	0.000005966	-134.91
740	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.2-1)	0.09684	0.001099	0.095478	0.000264	0.012229	0.000004708	-94.05
741	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	3000	(H1.2-1)	0.235803	0.001542	0.213857	0.020404	0.008684	0.000003779	-132.04
757	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	6000	(H1.2-1)	0.131598	0.00027	0.127379	0.00395	0.016342	0.000141	-29.43
758	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	6000	(H1.1-2)	0.151488	0.000226	0.010356	0.141358	0.01088	0.000136	61.63
759	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	6000	(H1.2-1)	0.140731	0.003211	0.129713	0.007806	0.016359	0.000248	-350.32
760	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	0	(H1.2-1)	0.133607	0.000942	0.127624	0.005042	0.01633	0.00018	-102.72
761	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	0	(H1.2-1)	0.154097	0.000931	0.142235	0.010931	0.010906	0.000183	-101.52
762	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	6000	(H1.2-1)	0.141146	0.001519	0.128561	0.011066	0.016311	0.000387	-165.74
763	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	0	(H1.1-2)	0.157504	0.000104	0.015901	0.141708	0.01087	0.000349	28.46
764	PR-C150x50x3.2x20	LRFD 1.4D	6000	(H1.2-1)	0.111653	0.000301	0.09741	0.013942	0.012568	0.000464	-25.75
766	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.1-2)	0.129481	0.000323	0.002358	0.127446	0.016339	0.000116	88.13
767	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	0	(H1.1-2)	0.153058	0.000262	0.01205	0.14127	0.010868	0.00021	71.41
768	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.2-1)	0.142081	0.00323	0.12982	0.009031	0.016354	0.000311	-352.36
769	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.2-1)	0.133972	0.000104	0.126386	0.007483	0.016267	0.000282	-11.31
770	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	6000	(H1.1-2)	0.154031	0.000157	0.01185	0.142338	0.010906	0.000206	42.81
771	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	0	(H1.2-1)	0.14457	0.002675	0.130153	0.011742	0.01635	0.000406	-291.76
772	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	0	(H1.1-2)	0.158321	0.000284	0.017757	0.140848	0.01083	0.000427	77.51
773	PR-C150x50x3.2x20	LRFD 1.4D	6000	(H1.2-1)	0.112594	0.000295	0.098923	0.013375	0.012632	0.00045	-25.24
776	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	6000	(H1.2-1)	0.149508	0.000973	0.104854	0.043681	0.012709	0.001466	-83.29
778	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.2-1)	0.158248	0.000775	0.135714	0.021759	0.016693	0.000672	-84.54
779	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.2-1)	0.145811	0.001575	0.09955	0.044685	0.012526	0.001458	-134.86
824	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.2-1)	0.097182	0.001171	0.095766	0.000246	0.012244	0.000004158	-100.22
825	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	6000	(H1.2-1)	0.124447	0.000881	0.112368	0.011198	0.006766	0.000148	-75.39
826	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	6000	(H1.2-1)	0.097174	0.001157	0.095768	0.000248	0.012244	0.000004188	-99.08
827	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	6000	(H1.2-1)	0.124229	0.000803	0.112784	0.010643	0.006782	0.000141	-68.71
1199	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	6000	(H1.2-1)	0.131137	0.000141	0.127326	0.003669	0.016344	0.00013	-15.42
1200	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	3000	(H1.2-1)	0.258724	0.00068	0.232086	0.025958	0.008689	8.167E-07	-74.17
1201	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	6000	(H1.1-2)	0.130184	0.002778	0.007536	0.125426	0.016325	0.000257	756.94
1202	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	6000	(H1.1-2)	0.133601	0.000021	0.007181	0.126441	0.016299	0.000252	5.66
1203	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	3000	(H1.2-1)	0.262268	0.000686	0.232115	0.029467	0.008689	2.983E-07	-74.83
1204	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	6000	(H1.1-2)	0.13572	0.00095	0.011114	0.125556	0.016272	0.000391	258.94
1205	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	3000	(H1.2-1)	0.263821	0.000267	0.231687	0.031867	0.008689	0.000002021	-29.14
1206	PR-C150x50x3.2x20	LRFD 1.4D	0	(H1.1-2)	0.10882	0.00114	0.011617	0.098344	0.012638	0.000403	310.65
1208	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.1-2)	0.129023	0.000271	0.001977	0.127317	0.01634	0.000091	73.79
1209	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	3000	(H1.1-2)	0.246307	0.000246	0.014483	0.232069	0.008714	0.000165	66.9
1210	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.1-2)	0.131133	0.003018	0.008909	0.125242	0.016316	0.000318	822.47
1211	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.1-2)	0.134776	0.000096	0.008515	0.126357	0.01629	0.00031	26.22
1212	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	3000	(H1.1-2)	0.248313	0.000078	0.016281	0.23211	0.0087	0.000049	21.34
1213	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.1-2)	0.133712	0.002627	0.011823	0.124516	0.016261	0.000439	715.87
1214	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	3000	(H1.1-2)	0.249053	0.000162	0.017557	0.231659	0.008703	0.000055	44.23
1215	PR-C150x50x3.2x20	LRFD 1.4D	6000	(H1.1-2)	0.109428	0.001141	0.012265	0.098304	0.012634	0.000425	310.88
1218	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	6000	(H1.1-1)	0.142517	0.000781	0.098164	0.043572	0.01266	0.001479	212.79
1220	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.1-1)	0.150938	0.000821	0.127864	0.022252	0.016641	0.000688	223.72
1221	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.2-1)	0.144384	0.000409	0.09954	0.044435	0.012519	0.001447	-35.01
1278	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	0	(H1.2-1)	0.096986	0.001384	0.095234	0.000367	0.012224	0.000005689	-118.51
1279	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	3000	(H1.2-1)	0.236602	0.001664	0.214475	0.020463	0.00869	0.000006772	-142.42
1280	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.2-1)	0.096746	0.001314	0.095222	0.00021	0.012224	0.000003821	-112.45
1281	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	3000	(H1.2-1)	0.236565	0.001621	0.214482	0.020462	0.008694	0.000004102	-138.77
1297	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	6000	(H1.2-1)	0.133853	0.000359	0.127798	0.005697	0.016359	0.000176	-39.19
1298	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	6000	(H1.2-1)	0.152376	0.000232	0.142092	0.010053	0.010907	0.000129	-25.26
1299	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	6000	(H1.2-1)	0.136004	0.001446	0.126969	0.007589	0.016255	0.000249	-157.79
1300	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	6000	(H1.2-1)	0.134874	0.000288	0.127536	0.007049	0.016318	0.000246	-31.47
1301	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	6000	(H1.2-1)	0.154445	0.000983	0.142255	0.011207	0.010906	0.000183	-107.18
1302	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.2-1)	0.142821	0.002515	0.129091	0.011215	0.016328	0.000383	-274.39
1303	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	6000	(H1.1-2)	0.158072	0.000326	0.016728	0.14167	0.010862	0.00038	88.74
1304	PR-C150x50x3.2x20	LRFD 1.4D	0	(H1.2-1)	0.112904	0.000172	0.098792	0.013939	0.012625	0.000474	-14.74
1306	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.2-1)	0.132014	0.000314	0.127699	0.004	0.016347	0.0001	-34.27
1307	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	0	(H1.2-1)	0.153526	0.000102	0.142007	0.011417	0.010896	0.0002	-11.14
1308	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	6000	(H1.2-1)	0.140332	0.004258	0.132645	0.003429	0.016448	0.000103	-464.53
1309	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.2-1)	0.135764	0.000116	0.127463	0.008185	0.016309	0.000303	-12.64
1310	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	0	(H1.2-1)	0.154537	0.000268	0.142236	0.012032	0.010897	0.000241	-29.26
1311	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	6000	(H1.2-1)	0.145032	0.002898	0.130244	0.011891	0.016353	0.000403	-316.1
1312	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	0	(H1.1-2)	0.159277	0.00034	0.018016	0.141602	0.010854	0.000434	92.78
1313	PR-C150x50x3.2x20	LRFD 1.4D	6000	(H1.2-1)	0.113933	0.000173	0.098751	0.015008	0.012622	0.000497	-14.85
1316	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	6000	(H1.2-1)	0.147716	0.001055	0.102371	0.04429	0.012606	0.001477	-90.32
1318	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.2-1)	0.15643	0.000883	0.133101	0.022446	0.016584	0.000685	-96.28
1319	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.1-1)	0.139764	0.000275	0.096051	0.043438	0.012516	0.001448	74.9

Frame	DesignSect	Combo	Location	CombinedEq	TotalRatio	PRatio	MMajRatio	MMinRatio	VMajRatio	VMinRatio	P
Text	Text	Text	mm	Text	Unitless	Unitless	Unitless	Unitless	Unitless	Unitless	N
1364	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	6000	(H1.2-1)	0.096978	0.001228	0.095353	0.000397	0.012226	0.000006281	-105.08
1365	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	6000	(H1.2-1)	0.124961	0.000964	0.112803	0.011194	0.006782	0.000148	-82.51
1366	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.2-1)	0.09658	0.001045	0.095329	0.000206	0.012224	0.00000367	-89.48
1367	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	0	(H1.2-1)	0.124292	0.000912	0.112728	0.010652	0.006777	0.000145	-78.11
1383	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	6000	(H1.2-1)	0.134377	0.000923	0.127757	0.005697	0.016353	0.000177	-100.74
1384	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	3000	(H1.2-1)	0.258094	0.000878	0.231333	0.025883	0.008671	0.000114	-95.73
1385	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	6000	(H1.2-1)	0.136831	0.002458	0.126776	0.007597	0.016291	0.000251	-268.09
1386	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	6000	(H1.2-1)	0.135036	0.000576	0.127576	0.006884	0.0163	0.000239	-62.83
1387	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	3000	(H1.2-1)	0.261137	0.000923	0.230909	0.029304	0.008689	8.554E-07	-100.73
1388	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.2-1)	0.13961	0.00199	0.126612	0.011008	0.016271	0.000385	-217.08
1389	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	3000	(H1.1-2)	0.247621	0.000098	0.016739	0.23098	0.008689	6.106E-07	26.69
1390	PR-C150x50x3.2x20	LRFD 1.4D	0	(H1.1-2)	0.1117	0.00001	0.012799	0.09891	0.012636	0.000431	2.74
1392	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.2-1)	0.132569	0.00087	0.127657	0.004043	0.016341	0.000102	-94.91
1393	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	3000	(H1.2-1)	0.259296	0.000733	0.231227	0.027336	0.008713	0.000161	-79.99
1394	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.2-1)	0.137816	0.002415	0.126652	0.008749	0.016282	0.000311	-263.4
1395	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.2-1)	0.135894	0.0004	0.1275	0.007994	0.016291	0.000296	-43.66
1396	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	3000	(H1.2-1)	0.261638	0.000242	0.230753	0.030644	0.008698	0.000048	-26.35
1397	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	6000	(H1.2-1)	0.140446	0.002521	0.126469	0.011456	0.016272	0.000401	-274.98
1398	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	3000	(H1.1-2)	0.24803	0.000234	0.017411	0.230853	0.008699	0.000052	63.81
1399	PR-C150x50x3.2x20	LRFD 1.4D	6000	(H1.1-2)	0.11231	0.000009086	0.013449	0.09887	0.012633	0.000453	2.48
1402	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	6000	(H1.2-1)	0.146912	0.000455	0.102405	0.044052	0.012655	0.001469	-38.97
1404	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.2-1)	0.155751	0.000385	0.133144	0.022223	0.016637	0.000677	-41.95
1405	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.1-1)	0.13981	0.000686	0.096005	0.043118	0.012517	0.001439	187.05
1450	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	0	(H1.2-1)	0.097132	0.001203	0.095588	0.000341	0.012233	0.000005429	-102.96
1451	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	3000	(H1.2-1)	0.236164	0.001744	0.214005	0.020415	0.00869	0.000007347	-149.32
1452	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	6000	(H1.2-1)	0.096757	0.001025	0.095519	0.000214	0.012229	0.000003661	-87.73
1453	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	3000	(H1.2-1)	0.236099	0.001684	0.213999	0.020416	0.008691	0.000005138	-144.11
1469	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	6000	(H1.2-1)	0.135226	0.001575	0.127619	0.006032	0.016351	0.000189	-171.79
1470	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	6000	(H1.2-1)	0.152902	0.001293	0.141418	0.010192	0.01088	0.000131	-141
1471	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	6000	(H1.2-1)	0.141324	0.00383	0.129683	0.007811	0.016358	0.000249	-417.82
1472	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	0	(H1.2-1)	0.13362	0.001048	0.12762	0.004952	0.016331	0.000177	-114.34
1473	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	0	(H1.2-1)	0.154333	0.001041	0.142244	0.011048	0.010906	0.000187	-113.55
1474	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	6000	(H1.2-1)	0.141337	0.001887	0.128586	0.010864	0.016313	0.000381	-205.82
1475	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	0	(H1.1-2)	0.157717	0.000155	0.01614	0.141732	0.010869	0.000356	42.26
1476	PR-C150x50x3.2x20	LRFD 1.4D	0	(H1.1-2)	0.111678	0.000031	0.012619	0.099089	0.012641	0.000424	8.43
1478	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.2-1)	0.133452	0.001506	0.127535	0.004411	0.01634	0.000116	-164.3
1479	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	0	(H1.2-1)	0.153989	0.001116	0.141341	0.011532	0.010869	0.000202	-121.71
1480	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.2-1)	0.142624	0.003813	0.12983	0.008981	0.016354	0.000309	-415.95
1481	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.2-1)	0.134357	0.000482	0.126366	0.007509	0.016267	0.000282	-52.57
1482	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	6000	(H1.2-1)	0.154215	0.000343	0.142328	0.011545	0.010911	0.000176	-37.39
1483	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	0	(H1.2-1)	0.144602	0.002749	0.130191	0.011662	0.016351	0.000404	-299.86
1484	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	6000	(H1.1-2)	0.158235	0.000393	0.016843	0.141785	0.010867	0.00038	107.19
1485	PR-C150x50x3.2x20	LRFD 1.4D	6000	(H1.1-2)	0.112296	0.000029	0.013275	0.09905	0.012638	0.000446	7.77
1488	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	6000	(H1.2-1)	0.14974	0.001375	0.104917	0.043447	0.012709	0.001459	-117.71
1490	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.2-1)	0.158499	0.001125	0.135774	0.021599	0.016693	0.000668	-122.71
1491	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.1-1)	0.140219	0.001161	0.096296	0.042761	0.012524	0.001431	316.36
1536	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	0	(H1.2-1)	0.098427	0.001956	0.096107	0.000364	0.012259	0.000006192	-167.47
1537	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	6000	(H1.2-1)	0.124664	0.001063	0.112413	0.011189	0.006766	0.000147	-90.96
1538	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	6000	(H1.2-1)	0.098307	0.001822	0.096216	0.000269	0.012264	0.000004741	-155.99
1539	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	6000	(H1.2-1)	0.124404	0.00099	0.11295	0.010464	0.006788	0.000138	-84.71
1555	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	6000	(H1.2-1)	0.134279	0.002059	0.12704	0.00518	0.016341	0.000159	-224.6
1556	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	3000	(H1.2-1)	0.259498	0.001295	0.232284	0.025919	0.008676	0.000114	-141.32
1557	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	6000	(H1.2-1)	0.130427	0.001079	0.12687	0.002478	0.016321	0.000087	-117.74
1558	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	6000	(H1.2-1)	0.134264	0.000434	0.126561	0.007269	0.016302	0.000254	-47.34
1559	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	3000	(H1.2-1)	0.262415	0.000812	0.232132	0.029471	0.008689	0.000001517	-88.57
1560	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	0	(H1.1-2)	0.136134	0.000794	0.011175	0.125752	0.016279	0.000393	216.23
1561	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	3000	(H1.2-1)	0.263878	0.000201	0.231803	0.031874	0.008695	0.000001208	-21.92
1562	PR-C150x50x3.2x20	LRFD 1.4D	0	(H1.1-2)	0.108635	0.001342	0.011489	0.098488	0.012645	0.000399	365.65
1564	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.2-1)	0.132521	0.001961	0.126914	0.003646	0.016329	0.000089	-213.89
1565	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	3000	(H1.2-1)	0.260614	0.001068	0.232187	0.027359	0.008707	0.000157	-116.48
1566	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.1-2)	0.131245	0.002855	0.008762	0.125338	0.01632	0.000312	777.85
1567	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.2-1)	0.134974	0.000181	0.126456	0.008338	0.016293	0.000309	-19.7
1568	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	3000	(H1.2-1)	0.263019	0.000129	0.232123	0.030767	0.008698	0.000045	-14.02
1569	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	6000	(H1.1-2)	0.133661	0.002493	0.011358	0.124796	0.01628	0.000385	679.36
1570	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	3000	(H1.1-2)	0.249165	0.000155	0.017551	0.231769	0.008696	0.00005	42.22
1571	PR-C150x50x3.2x20	LRFD 1.4D	6000	(H1.1-2)	0.109259	0.001334	0.012143	0.09845	0.012641	0.000421	363.52
1574	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	6000	(H1.1-1)	0.141681	0.000628	0.09794	0.043113	0.012653	0.001465	171.13
1576	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.1-1)	0.150073	0.000646	0.127504	0.021923	0.01663	0.000679	176.14
1577	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.1-1)	0.139085	0.001732	0.095605	0.041748	0.012497	0.001396	472.08
1634	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	0	(H1.2-1)	0.09944	0.003157	0.095966	0.000316	0.012258	0.000005279	-270.27
1635	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	3000	(H1.2-1)	0.236911	0.001859	0.214574	0.020478	0.008695	0.000007079	-159.11
1636	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	6000	(H1.2-1)	0.098674	0.00288	0.095611	0.000183	0.012243	0.00000309	-246.52
1637	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	3000	(H1.2-1)	0.236825	0.001769	0.21458	0.020476	0.008689	0.000004537	-151.4
1653	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	6000	(H1.2-1)	0.138104	0.003783	0.129189	0.005133	0.016394	0.000163	-412.66
1654	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	6000	(H1.2-1)	0.154489	0.001804	0.143148	0.009537	0.010933	0.000111	-196.81

Frame	DesignSect	Combo	Location	CombinedEq	TotalRatio	PRatio	MMajRatio	MMinRatio	VMajRatio	VMinRatio	P
Text	Text	Text	mm	Text	Unitless	Unitless	Unitless	Unitless	Unitless	Unitless	N
1655	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	6000	(H1.2-1)	0.136111	0.002264	0.12642	0.007427	0.016239	0.000246	-247
1656	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	6000	(H1.2-1)	0.134944	0.000869	0.127044	0.007031	0.016305	0.000246	-94.82
1657	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	6000	(H1.2-1)	0.15473	0.001106	0.14247	0.011154	0.010911	0.000182	-120.68
1658	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.2-1)	0.143563	0.002972	0.129155	0.011435	0.016333	0.00039	-324.25
1659	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	6000	(H1.1-2)	0.158967	0.000295	0.016514	0.142748	0.010888	0.000372	80.36
1660	PR-C150x50x3.2x20	LRFD 1.4D	0	(H1.1-2)	0.112848	0.000247	0.014211	0.098885	0.012628	0.00047	67.27
1662	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.2-1)	0.136539	0.003661	0.129205	0.003674	0.016386	0.000097	-399.32
1663	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	0	(H1.2-1)	0.15542	0.001561	0.143135	0.010724	0.010925	0.000174	-170.28
1664	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	6000	(H1.2-1)	0.139126	0.002985	0.132713	0.003428	0.016458	0.000103	-325.63
1665	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.2-1)	0.135796	0.00062	0.127069	0.008108	0.0163	0.0003	-67.59
1666	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	0	(H1.2-1)	0.154816	0.000589	0.142412	0.011815	0.010902	0.000232	-64.25
1667	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	6000	(H1.2-1)	0.145145	0.002813	0.13032	0.012011	0.01636	0.000407	-306.91
1668	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	0	(H1.1-2)	0.160105	0.000313	0.017716	0.142702	0.010881	0.000421	85.22
1669	PR-C150x50x3.2x20	LRFD 1.4D	6000	(H1.1-2)	0.113503	0.000232	0.014888	0.098846	0.012624	0.000493	63.22
1672	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	6000	(H1.2-1)	0.14849	0.002115	0.103153	0.043223	0.012623	0.001448	-181.04
1674	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.2-1)	0.157547	0.001752	0.134287	0.021508	0.016613	0.000664	-191.1
1675	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.1-1)	0.140863	0.002527	0.097862	0.040474	0.012558	0.001365	688.58
1720	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	0	(H1.2-1)	0.101528	0.004936	0.096455	0.000136	0.01228	0.000001943	-422.57
1721	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	6000	(H1.2-1)	0.126054	0.001163	0.113754	0.011137	0.006803	0.000146	-99.55
1722	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	6000	(H1.2-1)	0.100726	0.00434	0.096366	0.000021	0.012275	0.000000517	-371.5
1723	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	0	(H1.2-1)	0.125379	0.001054	0.113674	0.010651	0.006799	0.000143	-90.24
1739	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.2-1)	0.136345	0.005545	0.128953	0.001847	0.016487	0.000088	-604.85
1740	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	3000	(H1.2-1)	0.261223	0.00191	0.233275	0.026037	0.008778	0.000107	-208.41
1741	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	6000	(H1.2-1)	0.138973	0.0032	0.128125	0.007648	0.016332	0.000249	-349.11
1742	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	6000	(H1.2-1)	0.136875	0.001252	0.128644	0.006978	0.016332	0.000239	-136.59
1743	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	3000	(H1.2-1)	0.261749	0.001018	0.231379	0.029351	0.008714	2.575E-07	-111.1
1744	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	6000	(H1.2-1)	0.140518	0.002106	0.127601	0.010811	0.016294	0.000376	-229.71
1745	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	3000	(H1.1-2)	0.249628	0.000144	0.016811	0.232962	0.008793	0.000019	39.35
1746	PR-C150x50x3.2x20	LRFD 1.4D	0	(H1.1-2)	0.111416	0.000415	0.012734	0.099098	0.012655	0.000429	113.18
1748	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	6000	(H1.2-1)	0.136219	0.005318	0.12904	0.00186	0.016498	0.000102	-580.18
1749	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	3000	(H1.2-1)	0.262419	0.001693	0.233252	0.027475	0.0086	0.000144	-184.71
1750	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.2-1)	0.139007	0.002711	0.127716	0.00858	0.016316	0.0003	-295.78
1751	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.2-1)	0.137162	0.001022	0.128168	0.007972	0.016314	0.00029	-111.48
1752	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	3000	(H1.2-1)	0.262883	0.00055	0.231642	0.030691	0.008659	0.00004	-60.01
1753	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.2-1)	0.140344	0.002411	0.126774	0.011159	0.016278	0.000416	-262.97
1754	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	3000	(H1.1-2)	0.250242	0.000255	0.017504	0.232993	0.008576	0.00000363	69.51
1755	PR-C150x50x3.2x20	LRFD 1.4D	6000	(H1.1-2)	0.112041	0.000395	0.01339	0.099046	0.01265	0.000451	107.54
1758	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	6000	(H1.2-1)	0.145061	0.004172	0.098684	0.042204	0.012549	0.001406	-357.14
1760	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.2-1)	0.151773	0.003186	0.127717	0.020869	0.016486	0.00063	-347.6
1761	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.1-1)	0.132004	0.003536	0.088204	0.040264	0.012285	0.001337	963.55
1806	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	0	(H1.2-1)	0.107256	0.008696	0.098488	0.000072	0.012367	0.000000987	-744.41
1807	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	3000	(H1.2-1)	0.238264	0.001926	0.215736	0.020602	0.008784	0.000002667	-164.86
1808	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	6000	(H1.2-1)	0.105492	0.007447	0.097763	0.000282	0.012333	0.00000406	-637.49
1809	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	3000	(H1.2-1)	0.238194	0.001805	0.215777	0.020612	0.008596	0.000002092	-154.51
1825	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	6000	(H1.2-1)	0.165809	0.006946	0.153424	0.005438	0.017014	0.000237	-757.72
1826	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	6000	(H1.2-1)	0.180738	0.001446	0.167453	0.01184	0.01145	0.000119	-157.77
1827	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	6000	(H1.2-1)	0.148294	0.004606	0.135368	0.00832	0.016447	0.000244	-502.42
1828	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	6000	(H1.2-1)	0.143861	0.001459	0.134961	0.00744	0.01643	0.000232	-159.2
1829	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	6000	(H1.2-1)	0.174982	0.000667	0.161074	0.013241	0.011258	0.000207	-72.78
1830	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	6000	(H1.2-1)	0.152937	0.002392	0.138286	0.012259	0.016507	0.000397	-260.92
1831	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	6000	(H1.1-2)	0.187452	0.00009	0.019217	0.168325	0.011434	0.000398	24.51
1832	PR-C150x50x3.2x20	LRFD 1.4D	6000	(H1.1-2)	0.118473	0.000591	0.015242	0.103822	0.012712	0.00049	161.01
1834	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.2-1)	0.164421	0.006611	0.154359	0.003451	0.017026	0.000155	-721.19
1835	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	0	(H1.2-1)	0.182587	0.001299	0.168034	0.013254	0.011455	0.000191	-141.68
1836	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	0	(H1.2-1)	0.151502	0.001818	0.144897	0.004788	0.016694	0.000111	-198.28
1837	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	0	(H1.2-1)	0.149604	0.000137	0.141804	0.007663	0.016593	0.000221	-14.92
1838	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	0	(H1.2-1)	0.181992	0.000204	0.167097	0.014691	0.011373	0.000243	-22.23
1839	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	0	(H1.2-1)	0.160817	0.002238	0.14484	0.013739	0.016657	0.00043	-244.19
1840	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	0	(H1.1-2)	0.192124	0.00026	0.020161	0.172224	0.011507	0.000413	70.97
1841	PR-C150x50x3.2x20	LRFD 1.4D	0	(H1.1-2)	0.119104	0.00056	0.015885	0.103779	0.012708	0.000512	152.67
1844	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	6000	(H1.2-1)	0.174766	0.018301	0.118873	0.037591	0.013054	0.001324	-1566.62
1846	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.2-1)	0.185335	0.013582	0.156726	0.015028	0.017222	0.000526	-1481.59
1847	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.1-1)	0.168315	0.004707	0.123379	0.040228	0.013298	0.001423	1282.61
1892	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	0	(H1.2-1)	0.128069	0.02087	0.105984	0.001215	0.012728	0.000018	-1786.52
1893	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	6000	(H1.2-1)	0.148917	0.001057	0.135148	0.012712	0.00726	0.000146	-90.48
1894	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	6000	(H1.2-1)	0.124397	0.018318	0.105333	0.000746	0.01268	0.000012	-1568.05
1895	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	0	(H1.2-1)	0.149577	0.000934	0.135596	0.013047	0.007267	0.000162	-79.96
1911	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	0	(H1.2-1)	0.160057	0.00388	0.152583	0.003595	0.019539	0.00011	-423.22
1912	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	3000	(H1.2-1)	0.336303	0.001327	0.302229	0.032747	0.011844	0.000181	-144.8
1913	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	3500	(H1.2-1)	0.179988	0.018518	0.152207	0.009262	0.000083	0.000148	-2020.15
1914	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	3500	(H1.2-1)	0.172595	0.001693	0.160058	0.010844	0.000004798	0.000122	-184.66
1915	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	3000	(H1.2-1)	0.342886	0.000723	0.305799	0.036364	0.011731	0.000137	-78.9
1916	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	3500	(H1.2-1)	0.177864	0.011741	0.153446	0.012678	0.000081	0.000096	-1280.76
1917	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	3000	(H1.2-1)	0.336607	0.000718	0.298175	0.037714	0.011858	0.000094	-78.31
1918	PR-C150x50x3.2x20	LRFD 1.4D	0	(H1.1-2)	0.121808	0.00185	0.014448	0.10921	0.01403	0.000506	504.02

Frame	DesignSect	Combo	Location	CombinedEq	TotalRatio	PRatio	MMajRatio	MMinRatio	VMajRatio	VMinRatio	P
Text	Text	Text	mm	Text	Unitless	Unitless	Unitless	Unitless	Unitless	Unitless	N
1920	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	6000	(H1.2-1)	0.16054	0.003713	0.153294	0.003533	0.019577	0.00009	-405.03
1921	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	3000	(H1.2-1)	0.33391	0.001077	0.299032	0.033801	0.005439	0.000316	-117.53
1922	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	2500	(H1.2-1)	0.173111	0.010936	0.151421	0.010753	0.000054	0.000276	-1193.04
1923	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	2500	(H1.2-1)	0.168827	0.001246	0.15611	0.011472	0.00012	0.000193	-135.88
1924	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	3000	(H1.2-1)	0.340029	0.000366	0.302374	0.037289	0.005536	0.000179	-39.94
1925	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	2500	(H1.2-1)	0.172768	0.006791	0.152784	0.013193	0.000223	0.000136	-740.78
1926	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	3000	(H1.2-1)	0.336292	0.000229	0.297147	0.038916	0.005413	0.000149	-25.01
1927	PR-C150x50x3.2x20	LRFD 1.4D	6000	(H1.1-2)	0.122493	0.001811	0.015148	0.109156	0.014018	0.000531	493.54
1930	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	0	(H1.2-1)	0.150121	0.006694	0.12122	0.022207	0.014716	0.000816	-572.98
1932	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	6000	(H1.2-1)	0.172571	0.003918	0.157744	0.010909	0.019343	0.000268	-427.36
1933	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	6000	(H1.1-1)	0.144113	0.000868	0.120283	0.022962	0.014929	0.000851	236.55
1990	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	0	(H1.2-1)	0.144952	0.035669	0.100999	0.008284	0.013013	0.000145	-3053.3
1991	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	3000	(H1.2-1)	0.293039	0.001803	0.265768	0.025468	0.011237	0.000224	-154.33
1992	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	6000	(H1.2-1)	0.14309	0.034004	0.104394	0.004692	0.013142	0.000091	-2910.79
1993	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wx	3000	(H1.2-1)	0.292722	0.001717	0.26557	0.025435	0.006123	0.000166	-147
2279	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	0	(H2-1)	0.287399	0.067452	0.287233	0.008999	0.003789	0.000148	18379.96
2280	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	1500	(H1.2-1)	0.471527	0.299983	0.171512	0.000032	0.000198	0.000009163	-6241.43
2286	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	0	(H2-1)	0.53313	0.053503	0.532893	0.006987	0.01429	0.00000713	14579.03
2287	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	1500	(H1.2-1)	0.34583	0.148029	0.197582	0.000219	0.003469	0.000006924	-3079.89
2293	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	4600	(H2-1)	0.509143	0.031645	0.508834	0.004568	0.01712	0.000024	8622.96
2294	PR-C150x50x3.2x20	LRFD 1.4D	1500	(H2-1)	0.126232	0.007654	0.126151	0.000148	0.004517	0.000004679	2085.72
2300	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	4600	(H2-1)	0.372535	0.008815	0.372231	0.00404	0.014487	0.000012	2401.94
2301	PR-C150x50x3.2x20	LRFD 1.4D	2300	(H2-1)	0.085592	0.011482	0.085591	0.000183	0.000303	0.000003758	3128.8
2307	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	4600	(H1.2-1)	0.763086	0.158903	0.599703	0.00448	0.017545	0.000095	-3306.14
2308	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	1500	(H2-1)	0.160696	0.056294	0.160605	0.002438	0.004829	0.000057	15339.61
2313	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	1500	(H1.2-1)	0.278335	0.078597	0.199492	0.000247	0.000737	0.000003369	-1635.29
2316	PR-C150x50x3.2x20	LRFD 1.4D	1500	(H2-1)	0.132767	0	0.132685	0.000087	0.004675	0.000002746	0
2319	PR-C150x50x3.2x20	LRFD 1.4D	1900	(H1.2-1)	0.114691	0.032205	0.08246	0.000026	0.000301	0.000001269	-670.05
2322	PR-C150x50x3.2x20	LRFD 1.4D	1500	(H1.2-1)	0.142061	0.000103	0.140576	0.001383	0.002164	0.000032	-2.14
414	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	0	(H2-1)	0.327958	0.071373	0.327698	0.012144	0.004788	0.000338	19448.42
415	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	1500	(H1.2-1)	0.486293	0.292507	0.19378	0.000005886	0.000047	0.000008813	-6085.9
421	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	0	(H2-1)	0.600671	0.055214	0.599845	0.026906	0.016354	0.000162	15045.36
422	PR-C150x50x3.2x20	LRFD 1.2D + 1.6Lr + 0.5Wy	1500	(H1.2-1)	0.326366	0.112043	0.213852	0.000471	0.000543	0.000013	-2331.17
428	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	0	(H2-1)	0.525752	0.030582	0.525345	0.00744	0.019294	0.000054	8333.37
429	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	1500	(H2-1)	0.136919	0.010745	0.136835	0.001479	0.004565	0.000035	2927.9
435	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	4600	(H1.1-2)	0.434096	0.014273	0.019921	0.428448	0.016274	0.00009	3889.18
436	PR-C150x50x3.2x20	LRFD 1.4D	2300	(H2-1)	0.091	0.009514	0.090985	0.001642	0.000323	0.000034	2592.56
442	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	4600	(H1.2-1)	0.800544	0.12466	0.667924	0.007959	0.019338	0.000195	-2593.68
443	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	1500	(H2-1)	0.183902	0.055791	0.183799	0.002998	0.005387	0.000095	15202.47
448	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wy	1500	(H1.2-1)	0.303973	0.081902	0.22164	0.000431	0.000931	0.000001777	-1704.04
451	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	1500	(H2-1)	0.14333	0	0.143252	7.92E-16	0.00472	1.861E-17	0
454	PR-C150x50x3.2x20	LRFD 1.4D	1900	(H2-1)	0.088224	0.002326	0.088224	0.000033	0.00028	0.000002915	633.72
457	PR-C150x50x3.2x20	LRFD 1.2D + 1.6R + 0.5Wx	1500	(H1.1-2)	0.153544	0	0.002059	0.151485	0.004604	0.000048	0

APPENDIX 2:

STEEL MEMBERS STRESS RATIO SUMMARY

TABLE: Steel Design 1 - Summary Data - AISC 360-16

Frame	DesignSect	DesignType	Ratio	RatioType	Combo	Location
Text	Text	Text	Unitless	Text	Text	mm
1	C1-WF350x175x7x11	Column	0.666963	PMM	LRFD 1.2D + 1.0Wy + 0.5R	6800
2	C1-WF350x175x7x11	Column	0.740822	PMM	LRFD 1.2D + 1.0Wy + 0.5R	6800
7	R1-WF300x150x6.5x11	Brace	0.032628	PMM	LRFD 1.2D + 1.0Wx + 0.5R	1000
26	C1-WF350x175x7x11	Column	0.576109	PMM	LRFD 1.2D + 1.0Wx + 0.5R	8400
27	C1-WF350x175x7x11	Column	0.633772	PMM	LRFD 1.2D + 1.0Wy + 0.5R	8400
28	R1-WF300x150x6.5x11	Brace	0.05889	PMM	LRFD 1.2D + 1.0Wx + 0.5R	1000
83	R1-WF300x150x6.5x11	Brace	0.362236	PMM	LRFD 1.2D + 1.0Wy + 0.5R	3900
86	R1-WF300x150x6.5x11	Brace	0.52698	PMM	LRFD 1.2D + 1.0Wy + 0.5R	0
90	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
91	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
92	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
93	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
94	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
95	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
96	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
97	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
98	SR-D10	Brace	0.035865	PMM	LRFD 1.4D	550
99	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
100	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
101	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
102	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
103	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
104	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
105	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
106	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
107	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
108	SR-D10	Brace	0.03584	PMM	LRFD 1.4D	550
109	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
110	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
111	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
112	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
113	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
114	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
115	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
116	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
117	SR-D10	Brace	0.035548	PMM	LRFD 1.4D	550
118	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
119	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
120	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
121	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
122	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
123	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
124	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
125	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
126	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650

Frame	DesignSect	DesignType	Ratio	RatioType	Combo	Location
Text	Text	Text	Unitless	Text	Text	mm
127	SR-D10	Brace	0.035501	PMM	LRFD 1.4D	550
128	C1-WF350x175x7x11	Column	0.511721	PMM	LRFD 1.2D + 1.0Wx + 0.5R	8400
129	C1-WF350x175x7x11	Column	0.616316	PMM	LRFD 1.2D + 1.0Wy + 0.5R	8400
130	R1-WF300x150x6.5x11	Brace	0.025953	PMM	LRFD 1.2D + 1.0Wx + 0.5R	1000
149	R1-WF300x150x6.5x11	Brace	0.361183	PMM	LRFD 1.2D + 1.0Wy + 0.5R	3900
151	R1-WF300x150x6.5x11	Brace	0.509349	PMM	LRFD 1.2D + 1.0Wy + 0.5R	0
154	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
155	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
156	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
157	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
158	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
159	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
160	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
161	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
163	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
164	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
165	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
166	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
167	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
168	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
169	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
170	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
171	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
173	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
174	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
175	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
176	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
177	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
178	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
179	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
180	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
182	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
183	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
184	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
185	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
186	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
187	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
188	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
189	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
190	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
192	RT-WF150x75x5x7	Column	0.148475	PMM	LRFD 1.2D + 1.6R + 0.5Wx	0
193	RT-WF150x75x5x7	Column	0.154957	PMM	LRFD 1.2D + 1.6R + 0.5Wy	0
194	RT-WF150x75x5x7	Brace	0.051859	PMM	LRFD 1.2D + 1.6R + 0.5Wy	1100
195	RT-WF150x75x5x7	Brace	0.053531	PMM	LRFD 1.2D + 1.6R + 0.5Wx	384.86
196	RT-WF150x75x5x7	Brace	0.05078	PMM	LRFD 1.2D + 1.6R + 0.5Wx	1100
197	RT-WF150x75x5x7	Brace	0.05353	PMM	LRFD 1.2D + 1.6R + 0.5Wx	384.86

Frame	DesignSect	DesignType	Ratio	RatioType	Combo	Location
Text	Text	Text	Unitless	Text	Text	mm
198	RT-WF150x75x5x7	Column	0.128944	PMM	LRFD 1.2D + 1.6R + 0.5Wx	0
199	RT-WF150x75x5x7	Column	0.130913	PMM	LRFD 1.2D + 1.6R + 0.5Wy	0
200	RT-WF150x75x5x7	Brace	0.069013	PMM	LRFD 1.2D + 1.6R + 0.5Wy	1100
201	RT-WF150x75x5x7	Brace	0.073567	PMM	LRFD 1.2D + 1.6Lr + 0.5Wy	384.86
202	RT-WF150x75x5x7	Brace	0.067872	PMM	LRFD 1.2D + 1.6R + 0.5Wx	1100
203	RT-WF150x75x5x7	Brace	0.07356	PMM	LRFD 1.2D + 1.6Lr + 0.5Wx	384.86
208	SR-D10	Brace	0.0353	PMM	LRFD 1.4D	550
210	SR-D10	Brace	0.0353	PMM	LRFD 1.4D	550
211	SR-D10	Brace	0.0353	PMM	LRFD 1.4D	550
213	SR-D10	Brace	0.0353	PMM	LRFD 1.4D	550
216	ST-WF150x75x5x7	Beam	0.053332	PMM	LRFD 1.4D	5000
217	ST-WF150x75x5x7	Beam	0.053342	PMM	LRFD 1.4D	0
224	C1-WF350x175x7x11	Column	0.525839	PMM	LRFD 1.2D + 1.0Wx + 0.5R	8400
225	C1-WF350x175x7x11	Column	0.639013	PMM	LRFD 1.2D + 1.0Wy + 0.5R	8400
226	R1-WF300x150x6.5x11	Brace	0.03385	PMM	LRFD 1.2D + 1.0Wx + 0.5R	1000
245	R1-WF300x150x6.5x11	Brace	0.371919	PMM	LRFD 1.2D + 1.0Wy + 0.5R	3900
247	R1-WF300x150x6.5x11	Brace	0.52918	PMM	LRFD 1.2D + 1.0Wy + 0.5R	0
250	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
251	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
252	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
253	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
254	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
255	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
256	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
257	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
259	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
260	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
261	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
262	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
263	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
264	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
265	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
266	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
267	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
269	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
270	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
271	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
272	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
273	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
274	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
275	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
276	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
278	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
279	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
280	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
281	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650

Frame	DesignSect	DesignType	Ratio	RatioType	Combo	Location
Text	Text	Text	Unitless	Text	Text	mm
282	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
283	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
284	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
285	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
286	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
288	RT-WF150x75x5x7	Column	0.153897	PMM	LRFD 1.2D + 1.6R + 0.5Wx	0
289	RT-WF150x75x5x7	Column	0.156252	PMM	LRFD 1.2D + 1.6R + 0.5Wy	0
290	RT-WF150x75x5x7	Brace	0.073145	PMM	LRFD 1.2D + 1.6R + 0.5Wy	1100
291	RT-WF150x75x5x7	Brace	0.074903	PMM	LRFD 1.2D + 1.6R + 0.5Wx	384.86
292	RT-WF150x75x5x7	Brace	0.072398	PMM	LRFD 1.2D + 1.6R + 0.5Wx	1100
293	RT-WF150x75x5x7	Brace	0.074902	PMM	LRFD 1.2D + 1.6R + 0.5Wx	384.86
298	SR-D10	Brace	0.035327	PMM	LRFD 1.4D	550
299	SR-D10	Brace	0.035327	PMM	LRFD 1.4D	550
300	SR-D10	Brace	0.035336	PMM	LRFD 1.4D	550
301	SR-D10	Brace	0.035336	PMM	LRFD 1.4D	550
304	ST-WF150x75x5x7	Beam	0.034379	PMM	LRFD 1.4D	5000
305	ST-WF150x75x5x7	Beam	0.034388	PMM	LRFD 1.4D	0
310	C1-WF350x175x7x11	Column	0.540416	PMM	LRFD 1.2D + 1.0Wx + 0.5R	8400
311	C1-WF350x175x7x11	Column	0.664792	PMM	LRFD 1.2D + 1.0Wy + 0.5R	8500
312	R1-WF300x150x6.5x11	Brace	0.036859	PMM	LRFD 1.2D + 1.0Wx + 0.5R	1000
331	R1-WF300x150x6.5x11	Brace	0.387074	PMM	LRFD 1.2D + 1.0Wy + 0.5R	3900
333	R1-WF300x150x6.5x11	Brace	0.554816	PMM	LRFD 1.2D + 1.0Wy + 0.5R	0
336	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
337	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
338	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
339	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
340	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
341	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
342	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
343	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
345	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
346	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
347	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
348	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
349	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
350	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
351	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
352	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
353	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
355	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
356	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
357	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
358	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
359	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
360	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
361	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650

Frame	DesignSect	DesignType	Ratio	RatioType	Combo	Location
Text	Text	Text	Unitless	Text	Text	mm
362	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
364	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
365	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
366	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
367	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
368	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
369	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
370	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
371	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
372	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
374	RT-WF150x75x5x7	Column	0.146895	PMM	LRFD 1.2D + 1.6R + 0.5Wx	0
375	RT-WF150x75x5x7	Column	0.149513	PMM	LRFD 1.2D + 1.6R + 0.5Wy	0
376	RT-WF150x75x5x7	Brace	0.077545	PMM	LRFD 1.2D + 1.6R + 0.5Wy	1100
377	RT-WF150x75x5x7	Brace	0.081253	PMM	LRFD 1.2D + 1.6R + 0.5Wy	384.86
378	RT-WF150x75x5x7	Brace	0.07668	PMM	LRFD 1.2D + 1.6R + 0.5Wx	1100
379	RT-WF150x75x5x7	Brace	0.081227	PMM	LRFD 1.2D + 1.6R + 0.5Wy	384.86
384	SR-D10	Brace	0.0353	PMM	LRFD 1.4D	550
385	SR-D10	Brace	0.0353	PMM	LRFD 1.4D	550
386	SR-D10	Brace	0.035304	PMM	LRFD 1.4D	550
387	SR-D10	Brace	0.035304	PMM	LRFD 1.4D	550
390	ST-WF150x75x5x7	Beam	0.069175	PMM	LRFD 1.4D	6000
391	ST-WF150x75x5x7	Beam	0.069181	PMM	LRFD 1.4D	0
484	C1-WF350x175x7x11	Column	0.536227	PMM	LRFD 1.2D + 1.0Wx + 0.5R	8400
485	C1-WF350x175x7x11	Column	0.6654	PMM	LRFD 1.2D + 1.0Wy + 0.5R	8500
486	R1-WF300x150x6.5x11	Brace	0.033441	PMM	LRFD 1.2D + 1.0Wx + 0.5R	1000
505	R1-WF300x150x6.5x11	Brace	0.387585	PMM	LRFD 1.2D + 1.0Wy + 0.5R	3900
507	R1-WF300x150x6.5x11	Brace	0.554934	PMM	LRFD 1.2D + 1.0Wy + 0.5R	0
510	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
511	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
512	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
513	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
514	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
515	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
516	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
517	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
519	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
520	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
521	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
522	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
523	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
524	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
525	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
526	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
527	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
529	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
530	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650

Frame	DesignSect	DesignType	Ratio	RatioType	Combo	Location
Text	Text	Text	Unitless	Text	Text	mm
531	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
532	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
533	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
534	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
535	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
536	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
538	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
539	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
540	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
541	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
542	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
543	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
544	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
545	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
546	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
548	RT-WF150x75x5x7	Column	0.143586	PMM	LRFD 1.2D + 1.6R + 0.5Wx	0
549	RT-WF150x75x5x7	Column	0.145865	PMM	LRFD 1.2D + 1.6R + 0.5Wy	0
550	RT-WF150x75x5x7	Brace	0.07581	PMM	LRFD 1.2D + 1.6R + 0.5Wy	1100
551	RT-WF150x75x5x7	Brace	0.079991	PMM	LRFD 1.2D + 1.6R + 0.5Wx	384.86
552	RT-WF150x75x5x7	Brace	0.074999	PMM	LRFD 1.2D + 1.6R + 0.5Wx	1100
553	RT-WF150x75x5x7	Brace	0.07999	PMM	LRFD 1.2D + 1.6R + 0.5Wx	384.86
570	SR-D10	Brace	0.035306	PMM	LRFD 1.4D	550
571	SR-D10	Brace	0.035306	PMM	LRFD 1.4D	550
572	SR-D10	Brace	0.0353	PMM	LRFD 1.4D	550
573	SR-D10	Brace	0.0353	PMM	LRFD 1.4D	550
576	ST-WF150x75x5x7	Beam	0.066601	PMM	LRFD 1.4D	6000
577	ST-WF150x75x5x7	Beam	0.066584	PMM	LRFD 1.4D	0
582	C1-WF350x175x7x11	Column	0.532874	PMM	LRFD 1.2D + 1.0Wx + 0.5R	8400
583	C1-WF350x175x7x11	Column	0.661136	PMM	LRFD 1.2D + 1.0Wy + 0.5R	8400
584	R1-WF300x150x6.5x11	Brace	0.030677	PMM	LRFD 1.2D + 1.0Wx + 0.5R	1000
603	R1-WF300x150x6.5x11	Brace	0.385841	PMM	LRFD 1.2D + 1.0Wy + 0.5R	3900
605	R1-WF300x150x6.5x11	Brace	0.546501	PMM	LRFD 1.2D + 1.0Wy + 0.5R	0
608	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
609	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
610	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
611	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
612	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
613	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
614	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
615	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
617	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
618	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
619	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
620	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
621	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
622	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650

Frame	DesignSect	DesignType	Ratio	RatioType	Combo	Location
Text	Text	Text	Unitless	Text	Text	mm
623	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
624	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
625	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
627	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
628	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
629	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
630	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
631	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
632	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
633	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
634	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
636	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
637	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
638	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
639	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
640	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
641	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
642	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
643	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
644	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
646	RT-WF150x75x5x7	Column	0.142248	PMM	LRFD 1.2D + 1.6R + 0.5Wx	0
647	RT-WF150x75x5x7	Column	0.144436	PMM	LRFD 1.2D + 1.6R + 0.5Wy	0
648	RT-WF150x75x5x7	Brace	0.075519	PMM	LRFD 1.2D + 1.6R + 0.5Wy	1100
649	RT-WF150x75x5x7	Brace	0.079535	PMM	LRFD 1.2D + 1.6R + 0.5Wy	384.86
650	RT-WF150x75x5x7	Brace	0.074672	PMM	LRFD 1.2D + 1.6R + 0.5Wx	1100
651	RT-WF150x75x5x7	Brace	0.07951	PMM	LRFD 1.2D + 1.6R + 0.5Wx	384.86
656	SR-D10	Brace	0.035303	PMM	LRFD 1.4D	550
657	SR-D10	Brace	0.035303	PMM	LRFD 1.4D	550
658	SR-D10	Brace	0.0353	PMM	LRFD 1.4D	550
659	SR-D10	Brace	0.0353	PMM	LRFD 1.4D	550
662	ST-WF150x75x5x7	Beam	0.065425	PMM	LRFD 1.4D	6000
663	ST-WF150x75x5x7	Beam	0.065427	PMM	LRFD 1.4D	0
668	C1-WF350x175x7x11	Column	0.532873	PMM	LRFD 1.2D + 1.0Wx + 0.5R	8400
669	C1-WF350x175x7x11	Column	0.664055	PMM	LRFD 1.2D + 1.0Wy + 0.5R	8400
670	R1-WF300x150x6.5x11	Brace	0.028834	PMM	LRFD 1.2D + 1.0Wx + 0.5R	1000
689	R1-WF300x150x6.5x11	Brace	0.387422	PMM	LRFD 1.2D + 1.0Wy + 0.5R	3900
691	R1-WF300x150x6.5x11	Brace	0.548439	PMM	LRFD 1.2D + 1.0Wy + 0.5R	0
694	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
695	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
696	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
697	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
698	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
699	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
700	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
701	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
703	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650

Frame	DesignSect	DesignType	Ratio	RatioType	Combo	Location
Text	Text	Text	Unitless	Text	Text	mm
704	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
705	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
706	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
707	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
708	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
709	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
710	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
711	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
713	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
714	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
715	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
716	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
717	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
718	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
719	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
720	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
722	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
723	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
724	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
725	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
726	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
727	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
728	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
729	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
730	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
732	RT-WF150x75x5x7	Column	0.142723	PMM	LRFD 1.2D + 1.6R + 0.5Wx	0
733	RT-WF150x75x5x7	Column	0.144961	PMM	LRFD 1.2D + 1.6R + 0.5Wy	0
734	RT-WF150x75x5x7	Brace	0.075581	PMM	LRFD 1.2D + 1.6R + 0.5Wy	1100
735	RT-WF150x75x5x7	Brace	0.079585	PMM	LRFD 1.2D + 1.6R + 0.5Wx	384.86
736	RT-WF150x75x5x7	Brace	0.074798	PMM	LRFD 1.2D + 1.6R + 0.5Wx	1100
737	RT-WF150x75x5x7	Brace	0.079584	PMM	LRFD 1.2D + 1.6R + 0.5Wx	384.86
742	SR-D10	Brace	0.035301	PMM	LRFD 1.4D	550
743	SR-D10	Brace	0.035301	PMM	LRFD 1.4D	550
744	SR-D10	Brace	0.035302	PMM	LRFD 1.4D	550
745	SR-D10	Brace	0.035302	PMM	LRFD 1.4D	550
748	ST-WF150x75x5x7	Beam	0.065111	PMM	LRFD 1.4D	0
749	ST-WF150x75x5x7	Beam	0.06511	PMM	LRFD 1.4D	6000
754	C1-WF350x175x7x11	Column	0.537582	PMM	LRFD 1.2D + 1.0Wx + 0.5R	8400
755	C1-WF350x175x7x11	Column	0.674488	PMM	LRFD 1.2D + 1.0Wy + 0.5R	8500
756	R1-WF300x150x6.5x11	Brace	0.027703	PMM	LRFD 1.2D + 1.0Wx + 0.5R	1000
775	R1-WF300x150x6.5x11	Brace	0.392632	PMM	LRFD 1.2D + 1.0Wy + 0.5R	3900
777	R1-WF300x150x6.5x11	Brace	0.562679	PMM	LRFD 1.2D + 1.0Wy + 0.5R	0
780	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
781	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
782	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
783	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650

Frame	DesignSect	DesignType	Ratio	RatioType	Combo	Location
Text	Text	Text	Unitless	Text	Text	mm
784	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
785	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
786	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
787	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
789	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
790	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
791	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
792	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
793	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
794	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
795	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
796	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
797	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
799	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
800	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
801	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
802	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
803	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
804	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
805	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
806	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
808	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
809	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
810	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
811	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
812	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
813	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
814	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
815	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
816	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
818	RT-WF150x75x5x7	Column	0.145562	PMM	LRFD 1.2D + 1.6R + 0.5Wx	0
819	RT-WF150x75x5x7	Column	0.148287	PMM	LRFD 1.2D + 1.6R + 0.5Wy	0
820	RT-WF150x75x5x7	Brace	0.076014	PMM	LRFD 1.2D + 1.6R + 0.5Wy	1100
821	RT-WF150x75x5x7	Brace	0.080115	PMM	LRFD 1.2D + 1.6R + 0.5Wy	384.86
822	RT-WF150x75x5x7	Brace	0.075138	PMM	LRFD 1.2D + 1.6R + 0.5Wx	1100
823	RT-WF150x75x5x7	Brace	0.08009	PMM	LRFD 1.2D + 1.6R + 0.5Wy	384.86
828	SR-D10	Brace	0.0353	PMM	LRFD 1.4D	550
829	SR-D10	Brace	0.0353	PMM	LRFD 1.4D	550
830	SR-D10	Brace	0.035303	PMM	LRFD 1.4D	550
831	SR-D10	Brace	0.035303	PMM	LRFD 1.4D	550
834	ST-WF150x75x5x7	Beam	0.065748	PMM	LRFD 1.4D	0
835	ST-WF150x75x5x7	Beam	0.065748	PMM	LRFD 1.4D	6000
1196	C1-WF350x175x7x11	Column	0.536134	PMM	LRFD 1.2D + 1.0Wx + 0.5R	8400
1197	C1-WF350x175x7x11	Column	0.677889	PMM	LRFD 1.2D + 1.0Wy + 0.5R	8500
1198	R1-WF300x150x6.5x11	Brace	0.027755	PMM	LRFD 1.2D + 1.0Wx + 0.5R	1000
1217	R1-WF300x150x6.5x11	Brace	0.394419	PMM	LRFD 1.2D + 1.0Wy + 0.5R	3900

Frame	DesignSect	DesignType	Ratio	RatioType	Combo	Location
Text	Text	Text	Unitless	Text	Text	mm
1219	R1-WF300x150x6.5x11	Brace	0.566001	PMM	LRFD 1.2D + 1.0Wy + 0.5R	0
1222	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
1223	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1224	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1225	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1226	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1227	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1228	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1229	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1231	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1232	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
1233	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1234	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1235	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1236	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1237	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1238	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1239	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1241	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
1242	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1243	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1244	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1245	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1246	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1247	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1248	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1250	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1251	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
1252	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1253	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1254	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1255	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1256	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1257	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1258	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1260	RT-WF150x75x5x7	Column	0.143861	PMM	LRFD 1.2D + 1.6R + 0.5Wx	0
1261	RT-WF150x75x5x7	Column	0.146158	PMM	LRFD 1.2D + 1.6R + 0.5Wy	0
1262	RT-WF150x75x5x7	Brace	0.075952	PMM	LRFD 1.2D + 1.6R + 0.5Wy	1100
1263	RT-WF150x75x5x7	Brace	0.080094	PMM	LRFD 1.2D + 1.6R + 0.5Wx	384.86
1264	RT-WF150x75x5x7	Brace	0.075116	PMM	LRFD 1.2D + 1.6R + 0.5Wx	1100
1265	RT-WF150x75x5x7	Brace	0.080093	PMM	LRFD 1.2D + 1.6R + 0.5Wx	384.86
1282	SR-D10	Brace	0.0353	PMM	LRFD 1.4D	550
1283	SR-D10	Brace	0.0353	PMM	LRFD 1.4D	550
1284	SR-D10	Brace	0.035301	PMM	LRFD 1.4D	550
1285	SR-D10	Brace	0.035301	PMM	LRFD 1.4D	550
1288	ST-WF150x75x5x7	Beam	0.065656	PMM	LRFD 1.4D	0

Frame	DesignSect	DesignType	Ratio	RatioType	Combo	Location
Text	Text	Text	Unitless	Text	Text	mm
1289	ST-WF150x75x5x7	Beam	0.065656	PMM	LRFD 1.4D	6000
1294	C1-WF350x175x7x11	Column	0.532671	PMM	LRFD 1.2D + 1.0Wx + 0.5R	8400
1295	C1-WF350x175x7x11	Column	0.6732	PMM	LRFD 1.2D + 1.0Wy + 0.5R	8400
1296	R1-WF300x150x6.5x11	Brace	0.027994	PMM	LRFD 1.2D + 1.0Wx + 0.5R	1000
1315	R1-WF300x150x6.5x11	Brace	0.392595	PMM	LRFD 1.2D + 1.0Wy + 0.5R	3900
1317	R1-WF300x150x6.5x11	Brace	0.556978	PMM	LRFD 1.2D + 1.0Wy + 0.5R	0
1320	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
1321	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1322	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1323	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1324	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1325	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1326	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1327	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1329	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1330	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
1331	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1332	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1333	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1334	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1335	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1336	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1337	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1339	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
1340	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1341	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1342	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1343	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1344	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1345	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1346	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1348	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1349	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
1350	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1351	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1352	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1353	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1354	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1355	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1356	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1358	RT-WF150x75x5x7	Column	0.142472	PMM	LRFD 1.2D + 1.6R + 0.5Wx	0
1359	RT-WF150x75x5x7	Column	0.144685	PMM	LRFD 1.2D + 1.6R + 0.5Wy	0
1360	RT-WF150x75x5x7	Brace	0.075576	PMM	LRFD 1.2D + 1.6R + 0.5Wy	1100
1361	RT-WF150x75x5x7	Brace	0.07954	PMM	LRFD 1.2D + 1.6R + 0.5Wy	384.86
1362	RT-WF150x75x5x7	Brace	0.07469	PMM	LRFD 1.2D + 1.6R + 0.5Wx	1100
1363	RT-WF150x75x5x7	Brace	0.079516	PMM	LRFD 1.2D + 1.6R + 0.5Wx	384.86

Frame	DesignSect	DesignType	Ratio	RatioType	Combo	Location
Text	Text	Text	Unitless	Text	Text	mm
1368	SR-D10	Brace	0.035301	PMM	LRFD 1.4D	550
1369	SR-D10	Brace	0.035301	PMM	LRFD 1.4D	550
1370	SR-D10	Brace	0.035301	PMM	LRFD 1.4D	550
1371	SR-D10	Brace	0.035301	PMM	LRFD 1.4D	550
1374	ST-WF150x75x5x7	Beam	0.065248	PMM	LRFD 1.4D	6000
1375	ST-WF150x75x5x7	Beam	0.065251	PMM	LRFD 1.4D	0
1380	C1-WF350x175x7x11	Column	0.532757	PMM	LRFD 1.2D + 1.0Wx + 0.5R	8400
1381	C1-WF350x175x7x11	Column	0.676115	PMM	LRFD 1.2D + 1.0Wy + 0.5R	8400
1382	R1-WF300x150x6.5x11	Brace	0.029027	PMM	LRFD 1.2D + 1.0Wx + 0.5R	1000
1401	R1-WF300x150x6.5x11	Brace	0.394376	PMM	LRFD 1.2D + 1.0Wy + 0.5R	3900
1403	R1-WF300x150x6.5x11	Brace	0.558185	PMM	LRFD 1.2D + 1.0Wy + 0.5R	0
1406	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
1407	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1408	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1409	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1410	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1411	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1412	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1413	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1415	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1416	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
1417	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1418	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1419	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1420	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1421	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1422	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1423	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1425	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
1426	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1427	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1428	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1429	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1430	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1431	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1432	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1434	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1435	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
1436	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1437	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1438	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1439	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1440	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1441	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1442	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1444	RT-WF150x75x5x7	Column	0.143099	PMM	LRFD 1.2D + 1.6R + 0.5Wx	0

Frame	DesignSect	DesignType	Ratio	RatioType	Combo	Location
Text	Text	Text	Unitless	Text	Text	mm
1445	RT-WF150x75x5x7	Column	0.145377	PMM	LRFD 1.2D + 1.6R + 0.5Wy	0
1446	RT-WF150x75x5x7	Brace	0.075684	PMM	LRFD 1.2D + 1.6R + 0.5Wy	1100
1447	RT-WF150x75x5x7	Brace	0.079607	PMM	LRFD 1.2D + 1.6R + 0.5Wx	384.86
1448	RT-WF150x75x5x7	Brace	0.074858	PMM	LRFD 1.2D + 1.6R + 0.5Wx	1100
1449	RT-WF150x75x5x7	Brace	0.079606	PMM	LRFD 1.2D + 1.6R + 0.5Wx	384.86
1454	SR-D10	Brace	0.0353	PMM	LRFD 1.4D	550
1455	SR-D10	Brace	0.0353	PMM	LRFD 1.4D	550
1456	SR-D10	Brace	0.035303	PMM	LRFD 1.4D	550
1457	SR-D10	Brace	0.035303	PMM	LRFD 1.4D	550
1460	ST-WF150x75x5x7	Beam	0.065793	PMM	LRFD 1.2D + Ev + Ehy	0
1461	ST-WF150x75x5x7	Beam	0.065791	PMM	LRFD 1.2D + Ev + Ehy	6000
1466	C1-WF350x175x7x11	Column	0.537537	PMM	LRFD 1.2D + 1.0Wx + 0.5R	8400
1467	C1-WF350x175x7x11	Column	0.686607	PMM	LRFD 1.2D + 1.0Wy + 0.5R	8500
1468	R1-WF300x150x6.5x11	Brace	0.030782	PMM	LRFD 1.2D + 1.0Wx + 0.5R	1000
1487	R1-WF300x150x6.5x11	Brace	0.399719	PMM	LRFD 1.2D + 1.0Wy + 0.5R	3900
1489	R1-WF300x150x6.5x11	Brace	0.572102	PMM	LRFD 1.2D + 1.0Wy + 0.5R	0
1492	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
1493	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1494	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1495	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1496	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1497	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1498	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1499	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1501	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1502	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
1503	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1504	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1505	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1506	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1507	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1508	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1509	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1511	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
1512	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1513	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1514	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1515	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1516	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1517	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1518	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1520	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1521	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
1522	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1523	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1524	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650

Frame	DesignSect	DesignType	Ratio	RatioType	Combo	Location
Text	Text	Text	Unitless	Text	Text	mm
1525	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1526	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1527	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1528	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1530	RT-WF150x75x5x7	Column	0.146003	PMM	LRFD 1.2D + 1.6R + 0.5Wx	0
1531	RT-WF150x75x5x7	Column	0.148749	PMM	LRFD 1.2D + 1.6R + 0.5Wy	0
1532	RT-WF150x75x5x7	Brace	0.076083	PMM	LRFD 1.2D + 1.6R + 0.5Wy	1100
1533	RT-WF150x75x5x7	Brace	0.080136	PMM	LRFD 1.2D + 1.6R + 0.5Wy	384.86
1534	RT-WF150x75x5x7	Brace	0.075169	PMM	LRFD 1.2D + 1.6R + 0.5Wx	1100
1535	RT-WF150x75x5x7	Brace	0.08011	PMM	LRFD 1.2D + 1.6R + 0.5Wy	384.86
1540	SR-D10	Brace	0.0353	PMM	LRFD 1.4D	550
1541	SR-D10	Brace	0.0353	PMM	LRFD 1.4D	550
1542	SR-D10	Brace	0.035304	PMM	LRFD 1.4D	550
1543	SR-D10	Brace	0.035304	PMM	LRFD 1.4D	550
1546	ST-WF150x75x5x7	Beam	0.065935	PMM	LRFD 1.4D	0
1547	ST-WF150x75x5x7	Beam	0.065934	PMM	LRFD 1.4D	6000
1552	C1-WF350x175x7x11	Column	0.536215	PMM	LRFD 1.2D + 1.0Wx + 0.5R	8400
1553	C1-WF350x175x7x11	Column	0.690275	PMM	LRFD 1.2D + 1.0Wy + 0.5R	8500
1554	R1-WF300x150x6.5x11	Brace	0.033938	PMM	LRFD 1.2D + 1.0Wx + 0.5R	1000
1573	R1-WF300x150x6.5x11	Brace	0.401195	PMM	LRFD 1.2D + 1.0Wy + 0.5R	3900
1575	R1-WF300x150x6.5x11	Brace	0.577164	PMM	LRFD 1.2D + 1.0Wy + 0.5R	0
1578	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
1579	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1580	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1581	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1582	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1583	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1584	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1585	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1587	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1588	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
1589	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1590	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1591	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1592	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1593	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1594	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1595	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1597	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
1598	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1599	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1600	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1601	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1602	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1603	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1604	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650

Frame	DesignSect	DesignType	Ratio	RatioType	Combo	Location
Text	Text	Text	Unitless	Text	Text	mm
1606	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1607	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
1608	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1609	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1610	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1611	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1612	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1613	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1614	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1616	RT-WF150x75x5x7	Column	0.144319	PMM	LRFD 1.2D + 1.6R + 0.5Wx	0
1617	RT-WF150x75x5x7	Column	0.146676	PMM	LRFD 1.2D + 1.6R + 0.5Wy	0
1618	RT-WF150x75x5x7	Brace	0.075841	PMM	LRFD 1.2D + 1.6R + 0.5Wy	1100
1619	RT-WF150x75x5x7	Brace	0.08003	PMM	LRFD 1.2D + 1.6R + 0.5Wx	384.86
1620	RT-WF150x75x5x7	Brace	0.074976	PMM	LRFD 1.2D + 1.6R + 0.5Wx	1100
1621	RT-WF150x75x5x7	Brace	0.08003	PMM	LRFD 1.2D + 1.6R + 0.5Wx	384.86
1638	SR-D10	Brace	0.0353	PMM	LRFD 1.4D	550
1639	SR-D10	Brace	0.0353	PMM	LRFD 1.4D	550
1640	SR-D10	Brace	0.035303	PMM	LRFD 1.4D	550
1641	SR-D10	Brace	0.035302	PMM	LRFD 1.4D	550
1644	ST-WF150x75x5x7	Beam	0.065925	PMM	LRFD 1.4D	0
1645	ST-WF150x75x5x7	Beam	0.065922	PMM	LRFD 1.4D	6000
1650	C1-WF350x175x7x11	Column	0.533298	PMM	LRFD 1.2D + 1.0Wx + 0.5R	8400
1651	C1-WF350x175x7x11	Column	0.685543	PMM	LRFD 1.2D + 1.0Wy + 0.5R	8400
1652	R1-WF300x150x6.5x11	Brace	0.037666	PMM	LRFD 1.2D + 1.0Wx + 0.5R	1000
1671	R1-WF300x150x6.5x11	Brace	0.399576	PMM	LRFD 1.2D + 1.0Wy + 0.5R	3900
1673	R1-WF300x150x6.5x11	Brace	0.567887	PMM	LRFD 1.2D + 1.0Wy + 0.5R	0
1676	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
1677	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1678	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1679	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1680	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1681	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1682	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1683	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1685	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1686	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
1687	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1688	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1689	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1690	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1691	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1692	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1693	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1695	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
1696	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1697	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650

Frame	DesignSect	DesignType	Ratio	RatioType	Combo	Location
Text	Text	Text	Unitless	Text	Text	mm
1698	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1699	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1700	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1701	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1702	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1704	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1705	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
1706	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1707	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1708	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1709	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1710	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1711	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1712	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1714	RT-WF150x75x5x7	Column	0.142307	PMM	LRFD 1.2D + 1.6R + 0.5Wx	0
1715	RT-WF150x75x5x7	Column	0.144416	PMM	LRFD 1.2D + 1.6R + 0.5Wy	0
1716	RT-WF150x75x5x7	Brace	0.075436	PMM	LRFD 1.2D + 1.6R + 0.5Wy	1100
1717	RT-WF150x75x5x7	Brace	0.079627	PMM	LRFD 1.2D + 1.6R + 0.5Wy	384.86
1718	RT-WF150x75x5x7	Brace	0.074615	PMM	LRFD 1.2D + 1.6R + 0.5Wx	1100
1719	RT-WF150x75x5x7	Brace	0.079609	PMM	LRFD 1.2D + 1.6R + 0.5Wx	384.86
1724	SR-D10	Brace	0.0353	PMM	LRFD 1.4D	550
1725	SR-D10	Brace	0.0353	PMM	LRFD 1.4D	550
1726	SR-D10	Brace	0.035303	PMM	LRFD 1.4D	550
1727	SR-D10	Brace	0.035303	PMM	LRFD 1.4D	550
1730	ST-WF150x75x5x7	Beam	0.065974	PMM	LRFD 1.4D	0
1731	ST-WF150x75x5x7	Beam	0.065971	PMM	LRFD 1.4D	6000
1736	C1-WF350x175x7x11	Column	0.534709	PMM	LRFD 1.2D + 1.0Wx + 0.5R	8400
1737	C1-WF350x175x7x11	Column	0.68498	PMM	LRFD 1.2D + 1.0Wy + 0.5R	8400
1738	R1-WF300x150x6.5x11	Brace	0.039448	PMM	LRFD 1.2D + 1.0Wx + 0.5R	1000
1757	R1-WF300x150x6.5x11	Brace	0.401136	PMM	LRFD 1.2D + 1.0Wy + 0.5R	3900
1759	R1-WF300x150x6.5x11	Brace	0.566649	PMM	LRFD 1.2D + 1.0Wy + 0.5R	0
1762	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
1763	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1764	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1765	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1766	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1767	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1768	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1769	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1771	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1772	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
1773	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1774	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1775	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1776	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1777	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650

Frame	DesignSect	DesignType	Ratio	RatioType	Combo	Location
Text	Text	Text	Unitless	Text	Text	mm
1778	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1779	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1781	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
1782	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1783	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1784	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1785	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1786	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1787	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1788	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1790	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1791	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
1792	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1793	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1794	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1795	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1796	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1797	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1798	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1800	RT-WF150x75x5x7	Column	0.143319	PMM	LRFD 1.2D + 1.6R + 0.5Wx	0
1801	RT-WF150x75x5x7	Column	0.145618	PMM	LRFD 1.2D + 1.6R + 0.5Wy	0
1802	RT-WF150x75x5x7	Brace	0.074726	PMM	LRFD 1.2D + 1.6R + 0.5Wy	1100
1803	RT-WF150x75x5x7	Brace	0.078934	PMM	LRFD 1.2D + 1.6R + 0.5Wy	384.86
1804	RT-WF150x75x5x7	Brace	0.073879	PMM	LRFD 1.2D + 1.6R + 0.5Wx	1100
1805	RT-WF150x75x5x7	Brace	0.07892	PMM	LRFD 1.2D + 1.6R + 0.5Wx	384.86
1810	SR-D10	Brace	0.0353	PMM	LRFD 1.4D	550
1811	SR-D10	Brace	0.0353	PMM	LRFD 1.4D	550
1812	SR-D10	Brace	0.035307	PMM	LRFD 1.4D	550
1813	SR-D10	Brace	0.035307	PMM	LRFD 1.4D	550
1816	ST-WF150x75x5x7	Beam	0.065195	PMM	LRFD 1.4D	0
1817	ST-WF150x75x5x7	Beam	0.065189	PMM	LRFD 1.4D	6000
1822	C1-WF350x175x7x11	Column	0.593735	PMM	LRFD 1.2D + 1.0Wx + 0.5R	8400
1823	C1-WF350x175x7x11	Column	0.717984	PMM	LRFD 1.2D + 1.0Wy + 0.5R	8400
1824	R1-WF300x150x6.5x11	Brace	0.052602	PMM	LRFD 1.2D + 1.0Wx + 0.5R	1000
1843	R1-WF300x150x6.5x11	Brace	0.413217	PMM	LRFD 1.2D + 1.0Wy + 0.5R	3900
1845	R1-WF300x150x6.5x11	Brace	0.596232	PMM	LRFD 1.2D + 1.0Wy + 0.5R	0
1848	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
1849	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1850	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1851	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1852	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1853	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1854	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1855	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1857	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1858	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500

Frame	DesignSect	DesignType	Ratio	RatioType	Combo	Location
Text	Text	Text	Unitless	Text	Text	mm
1859	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1860	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1861	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1862	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1863	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1864	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1865	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1867	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
1868	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1869	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1870	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1871	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1872	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1873	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1874	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1876	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1877	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
1878	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1879	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1880	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1881	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1882	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1883	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1884	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1886	RT-WF150x75x5x7	Column	0.158449	PMM	LRFD 1.2D + 1.6R + 0.5Wx	0
1887	RT-WF150x75x5x7	Column	0.165219	PMM	LRFD 1.2D + 1.6R + 0.5Wy	0
1888	RT-WF150x75x5x7	Brace	0.08618	PMM	LRFD 1.2D + 1.6R + 0.5Wy	1100
1889	RT-WF150x75x5x7	Brace	0.088764	PMM	LRFD 1.2D + 1.6Lr + 0.5Wy	384.86
1890	RT-WF150x75x5x7	Brace	0.083563	PMM	LRFD 1.2D + 1.6R + 0.5Wx	1100
1891	RT-WF150x75x5x7	Brace	0.088728	PMM	LRFD 1.2D + 1.6Lr + 0.5Wy	384.86
1896	SR-D10	Brace	0.0353	PMM	LRFD 1.4D	550
1897	SR-D10	Brace	0.0353	PMM	LRFD 1.4D	550
1898	SR-D10	Brace	0.035336	PMM	LRFD 1.4D	550
1899	SR-D10	Brace	0.035336	PMM	LRFD 1.4D	550
1902	ST-WF150x75x5x7	Beam	0.072407	PMM	LRFD 1.4D	0
1903	ST-WF150x75x5x7	Beam	0.072308	PMM	LRFD 1.4D	6000
1908	C1-WF350x175x7x11	Column	0.738291	PMM	LRFD 1.2D + 1.0Wy + 0.5R	6800
1909	C1-WF350x175x7x11	Column	0.807798	PMM	LRFD 1.2D + 1.0Wy + 0.5R	6800
1910	R1-WF300x150x6.5x11	Brace	0.038055	PMM	LRFD 1.2D + 1.0Wx + 0.5R	1000
1929	R1-WF300x150x6.5x11	Brace	0.310935	PMM	LRFD 0.9D + 1.0Wy	300
1931	R1-WF300x150x6.5x11	Brace	0.526255	PMM	LRFD 1.2D + 1.0Wy + 0.5R	0
1934	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
1935	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1936	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1937	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1938	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650

Frame	DesignSect	DesignType	Ratio	RatioType	Combo	Location
Text	Text	Text	Unitless	Text	Text	mm
1939	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1940	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1941	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1943	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1944	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
1945	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1946	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1947	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1948	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1949	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1950	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1951	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1953	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
1954	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1955	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1956	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1957	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1958	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1959	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1960	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1962	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1963	SR-D10	Brace	0.029173	PMM	LRFD 1.4D	500
1964	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1965	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1966	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1967	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1968	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1969	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1970	SR-D10	Brace	0.049303	PMM	LRFD 1.4D	650
1972	RT-WF150x75x5x7	Column	0.189918	PMM	LRFD 1.4D	0
1973	RT-WF150x75x5x7	Column	0.189613	PMM	LRFD 1.4D	0
1974	RT-WF150x75x5x7	Brace	0.058852	PMM	LRFD 1.2D + 1.6Lr + 0.5Wy	1100
1975	RT-WF150x75x5x7	Brace	0.064042	PMM	LRFD 1.2D + 1.6Lr + 0.5Wy	384.86
1976	RT-WF150x75x5x7	Brace	0.056231	PMM	LRFD 1.2D + 1.6Lr + 0.5Wx	1100
1977	RT-WF150x75x5x7	Brace	0.064036	PMM	LRFD 1.2D + 1.6Lr + 0.5Wy	384.86
1994	SR-D10	Brace	0.035324	PMM	LRFD 1.4D	550
1995	SR-D10	Brace	0.035325	PMM	LRFD 1.4D	550
1996	SR-D10	Brace	0.0353	PMM	LRFD 1.4D	550
1997	SR-D10	Brace	0.0353	PMM	LRFD 1.4D	550
2000	ST-WF150x75x5x7	Beam	0.081778	PMM	LRFD 1.4D	0
2001	ST-WF150x75x5x7	Beam	0.081822	PMM	LRFD 1.4D	6000
2008	ST-WF150x75x5x7	Beam	0.701675	PMM	LRFD 1.2D + 1.0Wx + 0.5Lr	5000
2009	ST-WF150x75x5x7	Beam	0.683959	PMM	LRFD 1.2D + 1.0Wx + 0.5R	5000
2010	ST-WF150x75x5x7	Beam	0.363829	PMM	LRFD 1.2D + 1.0Wx + 0.5Lr	5000
2011	ST-WF150x75x5x7	Beam	0.359811	PMM	LRFD 1.2D + 1.0Wx + 0.5Lr	5000
2012	ST-WF150x75x5x7	Beam	0.411053	PMM	LRFD 1.2D + 1.0Wx + 0.5Lr	6000

Frame	DesignSect	DesignType	Ratio	RatioType	Combo	Location
Text	Text	Text	Unitless	Text	Text	mm
2013	ST-WF150x75x5x7	Beam	0.405693	PMM	LRFD 1.2D + 1.0Wx + 0.5Lr	6000
2014	ST-WF150x75x5x7	Beam	0.425516	PMM	LRFD 1.2D + 1.0Wx + 0.5Lr	6000
2015	ST-WF150x75x5x7	Beam	0.419807	PMM	LRFD 1.2D + 1.0Wx + 0.5Lr	6000
2016	ST-WF150x75x5x7	Beam	0.426852	PMM	LRFD 1.2D + 1.0Wx + 0.5R	6000
2017	ST-WF150x75x5x7	Beam	0.421616	PMM	LRFD 1.2D + 1.0Wx + 0.5R	6000
2018	ST-WF150x75x5x7	Beam	0.426965	PMM	LRFD 1.2D + 1.0Wx + 0.5R	6000
2019	ST-WF150x75x5x7	Beam	0.422119	PMM	LRFD 1.2D + 1.0Wx + 0.5Lr	6000
2020	ST-WF150x75x5x7	Beam	0.426716	PMM	LRFD 1.2D + 1.0Wx + 0.5Lr	6000
2021	ST-WF150x75x5x7	Beam	0.4222	PMM	LRFD 1.2D + 1.0Wx + 0.5Lr	6000
2022	ST-WF150x75x5x7	Beam	0.427178	PMM	LRFD 1.2D + 1.0Wx + 0.5Lr	6000
2023	ST-WF150x75x5x7	Beam	0.422712	PMM	LRFD 1.2D + 1.0Wx + 0.5Lr	6000
2024	ST-WF150x75x5x7	Beam	0.427328	PMM	LRFD 1.2D + 1.0Wx + 0.5R	6000
2025	ST-WF150x75x5x7	Beam	0.422813	PMM	LRFD 1.2D + 1.0Wx + 0.5R	6000
2026	ST-WF150x75x5x7	Beam	0.427025	PMM	LRFD 1.2D + 1.0Wx + 0.5Lr	6000
2027	ST-WF150x75x5x7	Beam	0.422371	PMM	LRFD 1.2D + 1.0Wx + 0.5Lr	6000
2028	ST-WF150x75x5x7	Beam	0.426404	PMM	LRFD 1.2D + 1.0Wx + 0.5Lr	6000
2029	ST-WF150x75x5x7	Beam	0.421414	PMM	LRFD 1.2D + 1.0Wx + 0.5Lr	6000
2030	ST-WF150x75x5x7	Beam	0.426627	PMM	LRFD 1.2D + 1.0Wx + 0.5R	6000
2031	ST-WF150x75x5x7	Beam	0.421318	PMM	LRFD 1.2D + 1.0Wx + 0.5Lr	6000
2032	ST-WF150x75x5x7	Beam	0.424748	PMM	LRFD 1.2D + 1.0Wx + 0.5R	6000
2033	ST-WF150x75x5x7	Beam	0.418787	PMM	LRFD 1.2D + 1.0Wx + 0.5R	6000
2034	ST-WF150x75x5x7	Beam	0.415253	PMM	LRFD 1.2D + 1.0Wx + 0.5R	6000
2035	ST-WF150x75x5x7	Beam	0.409444	PMM	LRFD 1.2D + 1.0Wx + 0.5Lr	6000
2036	ST-WF150x75x5x7	Beam	0.275919	PMM	LRFD 0.9D + 1.0Wx	0
2037	ST-WF150x75x5x7	Beam	0.274245	PMM	LRFD 0.9D + 1.0Wx	0
2282	SR-D10	Column	0.014849	PMM	LRFD 1.2D + 1.0Wy + 0.5Lr	1300
2284	SR-D10	Column	0.008664	PMM	LRFD 1.2D + Ev + Ehy	1300
2289	SR-D10	Column	0.019592	PMM	LRFD 1.2D + 1.0Wy + 0.5R	1300
2291	SR-D10	Column	0.004969	PMM	LRFD 1.2D + Ev + Ehy	1300
2296	SR-D10	Column	0.030398	PMM	LRFD 1.2D + 1.0Wy + 0.5R	1300
2298	SR-D10	Column	0.011916	PMM	LRFD 1.2D + Ev + Ehy	1300
2303	SR-D10	Column	0.023854	PMM	LRFD 1.2D + 1.0Wy + 0.5R	1300
2305	SR-D10	Column	0.005433	PMM	LRFD 1.2D + Ev + Ehy	1300
2310	SR-D10	Column	0.021619	PMM	LRFD 1.2D + 1.0Wy + 0.5R	1300
2312	SR-D10	Column	0.004752	PMM	LRFD 1.2D + Ev + Ehy	1300
2314	SR-D10	Column	0.005265	PMM	LRFD 1.4D	1300
2315	SR-D10	Column	0.01146	PMM	LRFD 1.2D + Ev + Ehy	1300
2317	SR-D10	Column	0.042058	PMM	LRFD 1.2D + 1.0Wy + 0.5R	1300
2318	SR-D10	Column	0.022688	PMM	LRFD 1.4D	1300
2320	SR-D10	Column	0.036562	PMM	LRFD 1.2D + 1.0Wy + 0.5Lr	1300
2321	SR-D10	Column	0.00956	PMM	LRFD 1.4D	1300
2323	SR-D10	Column	0.055044	PMM	LRFD 1.2D + 1.0Wy + 0.5R	1300
2324	SR-D10	Column	0.035012	PMM	LRFD 1.4D	1300
212	R1-WF300x150x6.5x11	Brace	0.275534	PMM	LRFD 1.2D + 1.0Wy + 0.5R	4753.95
218	SR-D10	Column	0.030005	PMM	LRFD 1.2D + 1.0Wx + 0.5Lr	791.3
220	SR-D10	Column	0.031813	PMM	LRFD 0.9D + 1.0Wy	1208.7

Frame	DesignSect	DesignType	Ratio	RatioType	Combo	Location
Text	Text	Text	Unitless	Text	Text	mm
244	SR-D10	Column	0.036467	PMM	LRFD 1.2D + 1.0Wy + 0.5Lr	691.3
268	SR-D10	Column	0.030378	PMM	LRFD 1.2D + Ev + Ehx	1108.7
307	R1-WF300x150x6.5x11	Brace	0.470172	PMM	LRFD 1.2D + 1.0Wy + 0.5R	0
309	SR-D10	Column	0.10841	PMM	LRFD 1.2D + 1.0Wy + 0.5R	591.3
330	SR-D10	Column	0.063398	PMM	LRFD 1.2D + Ev + Ehx	591.3
393	SR-D10	Column	0.088418	PMM	LRFD 1.2D + 1.0Wy + 0.5R	1208.7
395	SR-D10	Column	0.054988	PMM	LRFD 1.2D + 1.0Wy + 0.5R	791.3
409	SR-D10	Column	0.062211	PMM	LRFD 0.9D + 1.0Wy	1108.7
411	SR-D10	Column	0.036597	PMM	LRFD 1.2D + Ev + Ehx	691.3
417	SR-D10	Column	0.016149	PMM	LRFD 1.2D + 1.0Wy + 0.5Lr	1300
419	SR-D10	Column	0.0093	PMM	LRFD 1.2D + Ev + Ehy	1300
424	SR-D10	Column	0.021447	PMM	LRFD 1.2D + 1.0Wy + 0.5R	1300
426	SR-D10	Column	0.005497	PMM	LRFD 1.2D + Ev + Ehy	1300
431	SR-D10	Column	0.033841	PMM	LRFD 1.2D + 1.0Wy + 0.5R	1300
433	SR-D10	Column	0.01313	PMM	LRFD 1.2D + Ev + Ehy	1300
438	SR-D10	Column	0.023731	PMM	LRFD 1.2D + 1.0Wy + 0.5R	1300
440	SR-D10	Column	0.005663	PMM	LRFD 1.2D + Ev + Ehy	1300
445	SR-D10	Column	0.02406	PMM	LRFD 1.2D + 1.0Wy + 0.5R	1300
447	SR-D10	Column	0.005007	PMM	LRFD 1.2D + Ev + Ehy	1300
449	SR-D10	Column	0.004422	PMM	LRFD 1.4D	1300
450	SR-D10	Column	0.011897	PMM	LRFD 1.2D + Ev + Ehy	1300
452	SR-D10	Column	0.046031	PMM	LRFD 1.2D + 1.0Wy + 0.5R	1300
453	SR-D10	Column	0.023867	PMM	LRFD 1.4D	1300
455	SR-D10	Column	0.036752	PMM	LRFD 1.2D + 1.0Wy + 0.5Lr	1300
456	SR-D10	Column	0.009067	PMM	LRFD 1.2D + Ev + Ehy	1300
458	SR-D10	Column	0.059645	PMM	LRFD 1.2D + 1.0Wy + 0.5R	1300
459	SR-D10	Column	0.036462	PMM	LRFD 1.4D	1300
464	SR-D10	Column	0.048129	PMM	LRFD 1.2D + 1.0Wx + 0.5R	791.3
465	SR-D10	Column	0.035141	PMM	LRFD 0.9D + 1.0Wy	1208.7
466	SR-D10	Column	0.038668	PMM	LRFD 1.2D + 1.0Wy + 0.5Lr	691.3
467	SR-D10	Column	0.036535	PMM	LRFD 1.2D + Ev + Ehx	1108.7
468	SR-D10	Column	0.118516	PMM	LRFD 1.2D + 1.0Wy + 0.5R	591.3
469	SR-D10	Column	0.05777	PMM	LRFD 1.2D + 1.6Lr + 0.5Wx	591.3
470	SR-D10	Column	0.099713	PMM	LRFD 1.2D + 1.0Wy + 0.5Lr	1208.7
471	SR-D10	Column	0.06169	PMM	LRFD 1.2D + 1.0Wy + 0.5R	791.3
472	SR-D10	Column	0.173943	PMM	LRFD 1.2D + Ev + Ehx	1108.7
473	SR-D10	Column	0.206287	PMM	LRFD 1.2D + Ev + Ehx	691.3