



**UBC97-ASD
Steel Frame Design Report**

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Model Name: Steel Project.edb

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Design Preferences

Frame Type = Braced Frame
Zone = Zone 4
Importance Factor = 1.
System R = 7.
System Omega0 = 3.
Consider Deflection = Yes
Deflection Check Type = Both
DL Limit, L / = 120
Super DL+LL Limit, L / = 120
Live Load Limit, L / = 360
Total Load Limit, L / = 240
Total--Camber Limit, L / = 240
DL Limit, abs = 0.0254
Super DL+LL Limit, abs = 0.0254
Live Load Limit, abs = 0.0254
Total Load Limit, abs = 0.0254
Total--Camber Limit, abs = 0.0254
Pattern Live Load Factor = 0.75
Stress Ratio Limit = 1.01
Maximum Auto Iteration = 5

Load Combinations

Load Combinations

Combination Name	Combination Definition
DSTLS1	1.000*DEAD
DSTLS2	1.000*DEAD + 1.000*LIVE
DSTLS3	1.000*DEAD + 0.750*LIVE + 0.536*EX
DSTLS4	1.000*DEAD + 0.750*LIVE - 0.536*EX
DSTLS5	1.000*DEAD + 0.750*LIVE + 0.536*EY
DSTLS6	1.000*DEAD + 0.750*LIVE - 0.536*EY
DSTLS7	1.000*DEAD + 0.750*LIVE + 0.536*EPX
DSTLS8	1.000*DEAD + 0.750*LIVE - 0.536*EPX
DSTLS9	1.000*DEAD + 0.750*LIVE + 0.536*ENX
DSTLS10	1.000*DEAD + 0.750*LIVE - 0.536*ENX
DSTLS11	1.000*DEAD + 0.750*LIVE + 0.536*EPY
DSTLS12	1.000*DEAD + 0.750*LIVE - 0.536*EPY
DSTLS13	1.000*DEAD + 0.750*LIVE + 0.536*ENY
DSTLS14	1.000*DEAD + 0.750*LIVE - 0.536*ENY
DSTLS15	1.000*DEAD + 0.714*EX
DSTLS16	1.000*DEAD - 0.714*EX
DSTLS17	1.000*DEAD + 0.714*EY
DSTLS18	1.000*DEAD - 0.714*EY
DSTLS19	1.000*DEAD + 0.714*EPX
DSTLS20	1.000*DEAD - 0.714*EPX
DSTLS21	1.000*DEAD + 0.714*ENX
DSTLS22	1.000*DEAD - 0.714*ENX
DSTLS23	1.000*DEAD + 0.714*EPY
DSTLS24	1.000*DEAD - 0.714*EPY
DSTLS25	1.000*DEAD + 0.714*ENY
DSTLS26	1.000*DEAD - 0.714*ENY
DSTLS27	0.900*DEAD + 0.714*EX
DSTLS28	0.900*DEAD - 0.714*EX
DSTLS29	0.900*DEAD + 0.714*EY
DSTLS30	0.900*DEAD - 0.714*EY
DSTLS31	0.900*DEAD + 0.714*EPX
DSTLS32	0.900*DEAD - 0.714*EPX
DSTLS33	0.900*DEAD + 0.714*ENX
DSTLS34	0.900*DEAD - 0.714*ENX
DSTLS35	0.900*DEAD + 0.714*EPY
DSTLS36	0.900*DEAD - 0.714*EPY
DSTLS37	0.900*DEAD + 0.714*ENY
DSTLS38	0.900*DEAD - 0.714*ENY

Material Property Data - General

Material Property Data - General

Name	Type	Dir/Plane	Modulus of Elasticity	Poisson's Ratio	Thermal Coefficient	Shear Modulus
STEEL	Iso	All	2.100E+10	0.3000	1.1700E-05	8076923077

Material Property Data - Mass & Weight

Material Property Data - Mass & Weight

Name	Mass per Unit Volume	Weight per Unit Volume
STEEL	8.0000E+02	7.8500E+03

Material Property Data - Steel Design

Material Property Data - Steel Design

Name	Steel F _y	Steel F _u	Cost per Unit Weight
STEEL	24000000.000	40000000.00	27679906.50

Frame Section Property Data - General

Frame Section Property Data - General

Frame Section Name	Material Name	Section Shape Name or Name in Properties File
IPE140	STEEL	IPE140
IPE160	STEEL	IPE160
IPE180	STEEL	IPE180
IPE200	STEEL	IPE200
IPE220	STEEL	IPE220
IPE240	STEEL	IPE240
IPE270	STEEL	IPE270
IPE300	STEEL	IPE300
2UNP80PL120X10	STEEL	SD Section
2UNP100PL140X10	STEEL	SD Section
2UNP120PL160X10	STEEL	SD Section
2UNP140PL180X10	STEEL	SD Section
2UNP160PL200X10	STEEL	SD Section
2IPE18E20PL250X15	STEEL	SD Section
2IPE18E20PL250X20	STEEL	SD Section
2IPE20E20PL250X15	STEEL	SD Section
2IPE22E20PL290X25	STEEL	SD Section
2IPE22E20PL250X20	STEEL	SD Section
2IPE24E20PL250X15	STEEL	SD Section
2IPE27E20PL350X25	STEEL	SD Section
2IPE27E20PL400X30	STEEL	SD Section
2IPE18E9PL140X20	STEEL	SD Section
2IPE22E11PL180X10	STEEL	SD Section
2IPE22E11PL180X20	STEEL	SD Section
2IPE24E12PL200X20	STEEL	SD Section
2IPE24E12PL220X25	STEEL	SD Section
2IPE27E13PL260X30	STEEL	SD Section
2IPE27E13PL240X25	STEEL	SD Section
2IPE24E20PL270X30	STEEL	SD Section
2IPE24E20PL300X30	STEEL	SD Section
2IPE27E20BOXPL300X30	STEEL	SD Section

Frame Section Property Data - General

Frame Section Name	Material Name	Section Shape Name or Name in Properties File
2IPE24E20BOXPL300X30	STEEL	SD Section
IPE120	STEEL	IPE120
2IPE18E20PL185X20	STEEL	SD Section
2IPE20E20PL250X10	STEEL	SD Section

Frame Section Property Data - Dimensions

Frame Section Property Data - Dimensions

Frame Section Name	Section Depth	Top Flange Width	Top Flange Thickness	Web Thickness	Bot Flange Width	Bot Flange Thickness
IPE140	0.1400	0.0730	0.0069	0.0047	0.0730	0.0069
IPE160	0.1600	0.0820	0.0074	0.0050	0.0820	0.0074
IPE180	0.1800	0.0910	0.0080	0.0053	0.0910	0.0080
IPE200	0.2000	0.1000	0.0085	0.0056	0.1000	0.0085
IPE220	0.2200	0.1100	0.0092	0.0059	0.1100	0.0092
IPE240	0.2400	0.1200	0.0098	0.0062	0.1200	0.0098
IPE270	0.2700	0.1350	0.0102	0.0066	0.1350	0.0102
IPE300	0.3000	0.1500	0.0107	0.0071	0.1500	0.0107
2UNP80PL120X10	0.1200	0.1000	0.0000	0.0000	0.0000	0.0000
2UNP100PL140X10	0.1400	0.1100	0.0000	0.0000	0.0000	0.0000
2UNP120PL160X10	0.1600	0.1170	0.0000	0.0000	0.0000	0.0000
2UNP140PL180X10	0.1800	0.1280	0.0000	0.0000	0.0000	0.0000
2UNP160PL200X10	0.2000	0.1370	0.0000	0.0000	0.0000	0.0000
2IPE18E20PL250X15	0.2100	0.2910	0.0000	0.0000	0.0000	0.0000
2IPE18E20PL250X20	0.2200	0.2300	0.0000	0.0000	0.0000	0.0000
2IPE20E20PL250X15	0.2300	0.3000	0.0000	0.0000	0.0000	0.0000
2IPE22E20PL290X25	0.2500	0.2900	0.0000	0.0000	0.0000	0.0000
2IPE22E20PL250X20	0.2600	0.3300	0.0000	0.0000	0.0000	0.0000
2IPE24E20PL250X15	0.2700	0.3400	0.0000	0.0000	0.0000	0.0000
2IPE27E20PL350X25	0.3200	0.4550	0.0000	0.0000	0.0000	0.0000
2IPE27E20PL400X30	0.3300	0.4950	0.0000	0.0000	0.0000	0.0000
2IPE18E9PL140X20	0.2200	0.2110	0.0000	0.0000	0.0000	0.0000
2IPE22E11PL180X10	0.2400	0.2700	0.0000	0.0000	0.0000	0.0000
2IPE22E11PL180X20	0.2600	0.2700	0.0000	0.0000	0.0000	0.0000
2IPE24E12PL200X20	0.2800	0.3200	0.0000	0.0000	0.0000	0.0000
2IPE24E12PL220X25	0.2900	0.3300	0.0000	0.0000	0.0000	0.0000
2IPE27E13PL260X30	0.3300	0.3950	0.0000	0.0000	0.0000	0.0000
2IPE27E13PL240X25	0.3200	0.3550	0.0000	0.0000	0.0000	0.0000
2IPE24E20PL270X30	0.3000	0.3400	0.0000	0.0000	0.0000	0.0000
2IPE24E20PL300X30	0.3000	0.3200	0.0000	0.0000	0.0000	0.0000
2IPE27E20BOXPL300X30	0.3300	0.3600	0.0000	0.0000	0.0000	0.0000
2IPE24E20BOXPL300X30	0.3000	0.3600	0.0000	0.0000	0.0000	0.0000
IPE120	0.1200	0.0640	0.0063	0.0044	0.0640	0.0063
2IPE18E20PL185X20	0.2200	0.1860	0.0000	0.0000	0.0000	0.0000
2IPE20E20PL250X10	0.2400	0.2500	0.0000	0.0000	0.0000	0.0000

Frame Section Property Data - Properties Part 1 of 2

Frame Section Property Data - Properties Part 1 of 2

Frame Section Name	Section Area	Torsional Constant	Moment of Inertia I33	Moment of Inertia I22	Shear Area A2	Shear Area A3
IPE140	0.0016	0.0000	0.0000	0.0000	0.0007	0.0008
IPE160	0.0020	0.0000	0.0000	0.0000	0.0008	0.0010
IPE180	0.0024	0.0000	0.0000	0.0000	0.0010	0.0012
IPE200	0.0029	0.0000	0.0000	0.0000	0.0011	0.0014
IPE220	0.0033	0.0000	0.0000	0.0000	0.0013	0.0017
IPE240	0.0039	0.0000	0.0000	0.0000	0.0015	0.0020
IPE270	0.0046	0.0000	0.0001	0.0000	0.0018	0.0023
IPE300	0.0054	0.0000	0.0001	0.0000	0.0021	0.0027
2UNP80PL120X10	0.0034	0.0000	0.0000	0.0000	0.0020	0.0017
2UNP100PL140X10	0.0041	0.0000	0.0000	0.0000	0.0023	0.0020
2UNP120PL160X10	0.0050	0.0000	0.0000	0.0000	0.0030	0.0023
2UNP140PL180X10	0.0059	0.0000	0.0000	0.0000	0.0034	0.0027
2UNP160PL200X10	0.0068	0.0000	0.0000	0.0000	0.0040	0.0031
2IPE18E20PL250X15	0.0123	0.0001	0.0001	0.0001	0.0023	0.0077
2IPE18E20PL250X20	0.0140	0.0000	0.0001	0.0001	0.0024	0.0093
2IPE20E20PL250X15	0.0132	0.0001	0.0001	0.0001	0.0026	0.0081
2IPE22E20PL290X25	0.0154	0.0001	0.0002	0.0001	0.0030	0.0092
2IPE22E20PL250X20	0.0167	0.0001	0.0002	0.0001	0.0031	0.0111
2IPE24E20PL250X15	0.0153	0.0001	0.0002	0.0001	0.0034	0.0092
2IPE27E20PL350X25	0.0267	0.0004	0.0005	0.0004	0.0043	0.0185
2IPE27E20PL400X30	0.0332	0.0005	0.0007	0.0006	0.0045	0.0238
2IPE18E9PL140X20	0.0104	0.0000	0.0001	0.0000	0.0023	0.0073
2IPE22E11PL180X10	0.0103	0.0001	0.0001	0.0001	0.0028	0.0057
2IPE22E11PL180X20	0.0139	0.0001	0.0002	0.0001	0.0031	0.0094
2IPE24E12PL200X20	0.0158	0.0001	0.0002	0.0001	0.0035	0.0108
2IPE24E12PL220X25	0.0188	0.0001	0.0003	0.0001	0.0036	0.0133
2IPE27E13PL260X30	0.0248	0.0003	0.0005	0.0003	0.0044	0.0183
2IPE27E13PL240X25	0.0212	0.0002	0.0004	0.0002	0.0043	0.0146
2IPE24E20PL270X30	0.0240	0.0002	0.0004	0.0002	0.0038	0.0167
2IPE24E20PL300X30	0.0270	0.0001	0.0004	0.0002	0.0039	0.0186
2IPE27E20BOXPL300X30	0.0470	0.0011	0.0007	0.0007	0.0235	0.0268
2IPE24E20BOXPL300X30	0.0438	0.0009	0.0005	0.0007	0.0213	0.0253
IPE120	0.0013	0.0000	0.0000	0.0000	0.0005	0.0007
2IPE18E20PL185X20	0.0122	0.0000	0.0001	0.0000	0.0024	0.0086
2IPE20E20PL250X10	0.0237	0.0003	0.0002	0.0002	0.0119	0.0135

Frame Section Property Data - Properties Part 2 of 2

Frame Section Property Data - Properties Part 2 of 2

Frame Section Name	Section Modulus S33	Section Modulus S22	Plastic Modulus Z33	Plastic Modulus Z22	Radius of Gyration r33	Radius of Gyration r22
IPE140	0.0001	0.0000	0.0001	0.0000	0.0574	0.0165
IPE160	0.0001	0.0000	0.0001	0.0000	0.0658	0.0184
IPE180	0.0001	0.0000	0.0002	0.0000	0.0742	0.0206
IPE200	0.0002	0.0000	0.0002	0.0000	0.0826	0.0223
IPE220	0.0003	0.0000	0.0003	0.0001	0.0911	0.0248
IPE240	0.0003	0.0000	0.0004	0.0001	0.0998	0.0270

Frame Section Property Data - Properties Part 2 of 2

Frame Section Name	Section Modulus S33	Section Modulus S22	Plastic Modulus Z33	Plastic Modulus Z22	Radius of Gyration r33	Radius of Gyration r22
IPE270	0.0004	0.0001	0.0005	0.0001	0.1123	0.0302
IPE300	0.0006	0.0001	0.0006	0.0001	0.1246	0.0335
2UNP80PL120X10	0.0001	0.0001	0.0001	0.0001	0.0323	0.0306
2UNP100PL140X10	0.0001	0.0001	0.0001	0.0001	0.0395	0.0343
2UNP120PL160X10	0.0001	0.0001	0.0002	0.0001	0.0463	0.0375
2UNP140PL180X10	0.0002	0.0002	0.0003	0.0002	0.0537	0.0414
2UNP160PL200X10	0.0003	0.0002	0.0004	0.0002	0.0608	0.0451
2IPE18E20PL250X15	0.0009	0.0006	0.0011	0.0009	0.0892	0.0851
2IPE18E20PL250X20	0.0011	0.0006	0.0012	0.0009	0.0921	0.0685
2IPE20E20PL250X15	0.0011	0.0007	0.0012	0.0010	0.0976	0.0866
2IPE22E20PL290X25	0.0014	0.0008	0.0016	0.0012	0.1069	0.0880
2IPE22E20PL250X20	0.0015	0.0008	0.0017	0.0013	0.1094	0.0906
2IPE24E20PL250X15	0.0015	0.0008	0.0016	0.0013	0.1142	0.0954
2IPE27E20PL350X25	0.0031	0.0019	0.0035	0.0029	0.1365	0.1258
2IPE27E20PL400X30	0.0040	0.0025	0.0045	0.0040	0.1408	0.1373
2IPE18E9PL140X20	0.0008	0.0003	0.0009	0.0005	0.0892	0.0523
2IPE22E11PL180X10	0.0009	0.0004	0.0010	0.0007	0.1001	0.0742
2IPE22E11PL180X20	0.0012	0.0005	0.0014	0.0008	0.1072	0.0691
2IPE24E12PL200X20	0.0015	0.0007	0.0017	0.0011	0.1161	0.0836
2IPE24E12PL220X25	0.0019	0.0008	0.0021	0.0014	0.1201	0.0851
2IPE27E13PL260X30	0.0028	0.0013	0.0033	0.0022	0.1374	0.1007
2IPE27E13PL240X25	0.0024	0.0010	0.0027	0.0017	0.1335	0.0914
2IPE24E20PL270X30	0.0025	0.0012	0.0029	0.0019	0.1248	0.0910
2IPE24E20PL300X30	0.0029	0.0015	0.0033	0.0023	0.1260	0.0957
2IPE27E20BOXPL300X30	0.0043	0.0041	0.0053	0.0053	0.1222	0.1260
2IPE24E20BOXPL300X30	0.0036	0.0039	0.0045	0.0050	0.1112	0.1260
IPE120	0.0001	0.0000	0.0001	0.0000	0.0491	0.0145
2IPE18E20PL185X20	0.0009	0.0004	0.0011	0.0006	0.0909	0.0528
2IPE20E20PL250X10	0.0016	0.0014	0.0019	0.0018	0.0888	0.0867

Steel Column Design - Element Information Part 1 of 2

Steel Column Design - Element Information Part 1 of 2

Story Level	Column Line	Section Name	Frame Type	RLLF Factor	L_Ratio Major	L_Ratio Minor
ROOF	C1	2IPE18E20PL185X20	BRACED	1.000	0.500	0.700
STORY5	C1	2IPE20E20PL250X10	BRACED	1.000	0.500	0.700
STORY4	C1	2IPE24E20PL300X30	BRACED	0.981	0.500	0.700
STORY3	C1	2IPE20E20PL250X15	BRACED	0.920	0.500	0.700
STORY2	C1	2IPE24E20BOXPL300X30	BRACED	0.833	0.500	0.700
STORY1	C1	2IPE27E20BOXPL300X30	BRACED	0.789	0.500	0.700
ROOF	C2	2IPE20E20PL250X15	BRACED	1.000	0.500	0.700
STORY5	C2	2IPE22E20PL250X20	BRACED	1.000	0.500	0.700
STORY4	C2	2IPE24E20PL300X30	BRACED	0.946	0.500	0.700
STORY3	C2	2IPE24E20PL300X30	BRACED	0.861	0.500	0.700
STORY2	C2	2IPE24E20BOXPL300X30	BRACED	0.800	0.500	0.700
STORY1	C2	2IPE27E20BOXPL300X30	BRACED	0.755	0.500	0.700
SHARP-ROOF	C3	2IPE18E20PL250X15	BRACED	1.000	0.960	0.960

Steel Column Design - Element Information Part 1 of 2

Story Level	Column Line	Section Name	Frame Type	RLLF Factor	L_Ratio Major	L_Ratio Minor
ROOF	C3	2IPE18E20PL250X15	BRACED	1.000	0.500	0.700
STORY5	C3	2IPE22E20PL250X20	BRACED	1.000	0.500	0.700
STORY4	C3	2IPE24E20PL300X30	BRACED	1.000	0.500	0.700
STORY3	C3	2IPE24E20PL300X30	BRACED	0.990	0.500	0.700
STORY2	C3	2IPE24E20BOXPL300X30	BRACED	0.939	0.500	0.700
STORY1	C3	2IPE27E20BOXPL300X30	BRACED	0.897	0.500	0.700
SHARP-RO OF	C4	2IPE18E20PL250X15	BRACED	1.000	0.960	0.960
ROOF	C4	2IPE18E20PL250X15	BRACED	1.000	0.500	0.700
STORY5	C4	2IPE22E20PL250X20	BRACED	1.000	0.500	0.700
STORY4	C4	2IPE24E20PL300X30	BRACED	1.000	0.500	0.700
STORY3	C4	2IPE24E20PL300X30	BRACED	1.000	0.500	0.700
STORY2	C4	2IPE24E20BOXPL300X30	BRACED	0.962	0.500	0.700
STORY1	C4	2IPE27E20BOXPL300X30	BRACED	0.917	0.500	0.700
ROOF	C5	2IPE20E20PL250X15	BRACED	1.000	0.500	0.700
STORY5	C5	2IPE22E20PL250X20	BRACED	1.000	0.500	0.700
STORY4	C5	2IPE24E20PL300X30	BRACED	0.881	0.500	0.700
STORY3	C5	2IPE24E20PL300X30	BRACED	0.806	0.500	0.700
STORY2	C5	2IPE24E20BOXPL300X30	BRACED	0.743	0.500	0.700
STORY1	C5	2IPE27E20BOXPL300X30	BRACED	0.703	0.500	0.700
ROOF	C6	2IPE24E20PL250X15	BRACED	1.000	0.500	0.700
STORY5	C6	2IPE22E20PL290X25	BRACED	1.000	0.500	0.700
STORY4	C6	2IPE24E20PL300X30	BRACED	0.925	0.500	0.700
STORY3	C6	2IPE24E20PL300X30	BRACED	0.838	0.500	0.700
STORY2	C6	2IPE24E20BOXPL300X30	BRACED	0.781	0.500	0.700
STORY1	C6	2IPE27E20BOXPL300X30	BRACED	0.729	0.500	0.700
ROOF	C7	2IPE20E20PL250X15	BRACED	1.000	0.500	0.700
STORY5	C7	2IPE22E20PL250X20	BRACED	0.948	0.500	0.700
STORY4	C7	2IPE24E20PL300X30	BRACED	0.828	0.500	0.700
STORY3	C7	2IPE24E20PL300X30	BRACED	0.755	0.500	0.700
STORY2	C7	2IPE24E20BOXPL300X30	BRACED	0.703	0.500	0.700
STORY1	C7	2IPE27E20BOXPL300X30	BRACED	0.669	0.500	0.700
ROOF	C8	2IPE22E20PL290X25	BRACED	0.977	0.500	0.700
STORY5	C8	2IPE24E20PL270X30	BRACED	0.789	0.500	0.700
STORY4	C8	2IPE27E20PL350X25	BRACED	0.694	0.500	0.700
STORY3	C8	2IPE24E20PL300X30	BRACED	0.644	0.500	0.700
STORY2	C8	2IPE24E20BOXPL300X30	BRACED	0.606	0.500	0.700
STORY1	C8	2IPE27E20BOXPL300X30	BRACED	0.580	0.500	0.700
SHARP-RO OF	C9	2IPE20E20PL250X15	BRACED	1.000	0.467	0.933
ROOF	C9	2IPE20E20PL250X15	BRACED	1.000	0.500	0.700
STORY5	C9	2IPE24E20PL270X30	BRACED	0.878	0.500	0.700
STORY4	C9	2IPE27E20PL350X25	BRACED	0.787	0.500	0.700
STORY3	C9	2IPE24E20PL300X30	BRACED	0.715	0.500	0.700
STORY2	C9	2IPE24E20BOXPL300X30	BRACED	0.679	0.500	0.700
STORY1	C9	2IPE27E20BOXPL300X30	BRACED	0.649	0.500	0.700
SHARP-RO OF	C10	2IPE20E20PL250X15	BRACED	1.000	0.467	0.933
ROOF	C10	2IPE20E20PL250X15	BRACED	1.000	0.500	0.700
STORY5	C10	2IPE24E20PL270X30	BRACED	0.879	0.500	0.700

Steel Column Design - Element Information Part 1 of 2

Story Level	Column Line	Section Name	Frame Type	RLLF Factor	L_Ratio Major	L_Ratio Minor
STORY4	C10	2IPE27E20PL350X25	BRACED	0.787	0.500	0.700
STORY3	C10	2IPE24E20PL300X30	BRACED	0.715	0.500	0.700
STORY2	C10	2IPE24E20BOXPL300X30	BRACED	0.679	0.500	0.700
STORY1	C10	2IPE27E20BOXPL300X30	BRACED	0.649	0.500	0.700
ROOF	C11	2IPE22E20PL290X25	BRACED	0.968	0.500	0.700
STORY5	C11	2IPE24E20PL270X30	BRACED	0.780	0.500	0.700
STORY4	C11	2IPE27E20PL350X25	BRACED	0.688	0.500	0.700
STORY3	C11	2IPE24E20PL300X30	BRACED	0.639	0.500	0.700
STORY2	C11	2IPE24E20BOXPL300X30	BRACED	0.600	0.500	0.700
STORY1	C11	2IPE27E20BOXPL300X30	BRACED	0.575	0.500	0.700
ROOF	C12	2IPE20E20PL250X15	BRACED	1.000	0.500	0.700
STORY5	C12	2IPE24E20PL270X30	BRACED	0.833	0.500	0.700
STORY4	C12	2IPE27E20PL400X30	BRACED	0.727	0.500	0.700
STORY3	C12	2IPE24E20PL300X30	BRACED	0.675	0.500	0.700
STORY2	C12	2IPE24E20BOXPL300X30	BRACED	0.638	0.500	0.700
STORY1	C12	2IPE27E20BOXPL300X30	BRACED	0.606	0.500	0.700
ROOF	C13	2IPE20E20PL250X15	BRACED	1.000	0.500	0.700
STORY5	C13	2IPE22E20PL250X20	BRACED	1.000	0.500	0.700
STORY4	C13	2IPE24E20PL300X30	BRACED	0.948	0.500	0.700
STORY3	C13	2IPE24E20PL300X30	BRACED	0.860	0.500	0.700
STORY2	C13	2IPE24E20BOXPL300X30	BRACED	0.804	0.500	0.700
STORY1	C13	2IPE27E20BOXPL300X30	BRACED	0.759	0.500	0.700
ROOF	C14	2IPE20E20PL250X15	BRACED	1.000	0.500	0.700
STORY5	C14	2IPE22E20PL250X20	BRACED	1.000	0.500	0.700
STORY4	C14	2IPE24E20PL300X30	BRACED	0.946	0.500	0.700
STORY3	C14	2IPE24E20PL300X30	BRACED	0.857	0.500	0.700
STORY2	C14	2IPE24E20BOXPL300X30	BRACED	0.800	0.500	0.700
STORY1	C14	2IPE27E20BOXPL300X30	BRACED	0.751	0.500	0.700
ROOF	C15	2IPE20E20PL250X15	BRACED	1.000	0.500	0.700
STORY5	C15	2IPE22E20PL250X20	BRACED	1.000	0.500	0.700
STORY4	C15	2IPE24E20PL300X30	BRACED	0.939	0.500	0.700
STORY3	C15	2IPE24E20PL300X30	BRACED	0.849	0.500	0.700
STORY2	C15	2IPE24E20BOXPL300X30	BRACED	0.795	0.500	0.700
STORY1	C15	2IPE27E20BOXPL300X30	BRACED	0.748	0.500	0.700
ROOF	C16	2IPE20E20PL250X15	BRACED	1.000	0.500	0.700
STORY5	C16	2IPE22E20PL250X20	BRACED	1.000	0.500	0.700
STORY4	C16	2IPE24E20PL300X30	BRACED	0.949	0.500	0.700
STORY3	C16	2IPE24E20PL300X30	BRACED	0.861	0.500	0.700
STORY2	C16	2IPE24E20BOXPL300X30	BRACED	0.803	0.500	0.700
STORY1	C16	2IPE27E20BOXPL300X30	BRACED	0.755	0.500	0.700
ROOF	C17	2IPE20E20PL250X15	BRACED	1.000	0.500	0.700
STORY5	C17	2IPE22E20PL250X20	BRACED	0.990	0.500	0.700
STORY4	C17	2IPE24E20PL300X30	BRACED	0.865	0.500	0.700
STORY3	C17	2IPE24E20PL300X30	BRACED	0.796	0.500	0.700
STORY2	C17	2IPE24E20BOXPL300X30	BRACED	0.729	0.500	0.700
STORY1	C17	2IPE27E20BOXPL300X30	BRACED	0.695	0.500	0.700
ROOF	C18	2IPE20E20PL250X15	BRACED	1.000	0.500	0.700
STORY5	C18	2IPE22E20PL250X20	BRACED	1.000	0.500	0.700

Steel Column Design - Element Information Part 1 of 2

Story Level	Column Line	Section Name	Frame Type	RLLF Factor	L_Ratio Major	L_Ratio Minor
STORY4	C18	2IPE24E20PL300X30	BRACED	0.903	0.500	0.700
STORY3	C18	2IPE24E20PL300X30	BRACED	0.822	0.500	0.700
STORY2	C18	2IPE24E20BOXPL300X30	BRACED	0.763	0.500	0.700
STORY1	C18	2IPE27E20BOXPL300X30	BRACED	0.715	0.500	0.700

Steel Column Design - Element Information Part 2 of 2

Steel Column Design - Element Information Part 2 of 2

Story Level	Column Line	Section Name	Frame Type	K Major	K Minor
ROOF	C1	2IPE18E20PL185X20	BRACED	1.000	1.000
STORY5	C1	2IPE20E20PL250X10	BRACED	1.000	1.000
STORY4	C1	2IPE24E20PL300X30	BRACED	1.000	1.000
STORY3	C1	2IPE20E20PL250X15	BRACED	1.000	1.000
STORY2	C1	2IPE24E20BOXPL300X30	BRACED	1.000	1.000
STORY1	C1	2IPE27E20BOXPL300X30	BRACED	1.000	1.000
ROOF	C2	2IPE20E20PL250X15	BRACED	1.000	1.000
STORY5	C2	2IPE22E20PL250X20	BRACED	1.000	1.000
STORY4	C2	2IPE24E20PL300X30	BRACED	1.000	1.000
STORY3	C2	2IPE24E20PL300X30	BRACED	1.000	1.000
STORY2	C2	2IPE24E20BOXPL300X30	BRACED	1.000	1.000
STORY1	C2	2IPE27E20BOXPL300X30	BRACED	1.000	1.000
SHARP-ROOF	C3	2IPE18E20PL250X15	BRACED	1.000	2.851
ROOF	C3	2IPE18E20PL250X15	BRACED	1.000	1.000
STORY5	C3	2IPE22E20PL250X20	BRACED	1.000	1.000
STORY4	C3	2IPE24E20PL300X30	BRACED	1.000	1.000
STORY3	C3	2IPE24E20PL300X30	BRACED	1.000	1.000
STORY2	C3	2IPE24E20BOXPL300X30	BRACED	1.000	1.000
STORY1	C3	2IPE27E20BOXPL300X30	BRACED	1.000	1.000
SHARP-ROOF	C4	2IPE18E20PL250X15	BRACED	1.000	2.851
ROOF	C4	2IPE18E20PL250X15	BRACED	1.000	1.000
STORY5	C4	2IPE22E20PL250X20	BRACED	1.000	1.000
STORY4	C4	2IPE24E20PL300X30	BRACED	1.000	1.000
STORY3	C4	2IPE24E20PL300X30	BRACED	1.000	1.000
STORY2	C4	2IPE24E20BOXPL300X30	BRACED	1.000	1.000
STORY1	C4	2IPE27E20BOXPL300X30	BRACED	1.000	1.000
ROOF	C5	2IPE20E20PL250X15	BRACED	1.000	1.000
STORY5	C5	2IPE22E20PL250X20	BRACED	1.000	1.000
STORY4	C5	2IPE24E20PL300X30	BRACED	1.000	1.000
STORY3	C5	2IPE24E20PL300X30	BRACED	1.000	1.000
STORY2	C5	2IPE24E20BOXPL300X30	BRACED	1.000	1.000
STORY1	C5	2IPE27E20BOXPL300X30	BRACED	1.000	1.000
ROOF	C6	2IPE24E20PL250X15	BRACED	1.000	1.000
STORY5	C6	2IPE22E20PL290X25	BRACED	1.000	1.000
STORY4	C6	2IPE24E20PL300X30	BRACED	1.000	1.000
STORY3	C6	2IPE24E20PL300X30	BRACED	1.000	1.000
STORY2	C6	2IPE24E20BOXPL300X30	BRACED	1.000	1.000

Steel Column Design - Element Information Part 2 of 2

Story Level	Column Line	Section Name	Frame Type	K Major	K Minor
STORY1	C6	2IPE27E20BOXPL300X30	BRACED	1.000	1.000
ROOF	C7	2IPE20E20PL250X15	BRACED	1.000	1.000
STORY5	C7	2IPE22E20PL250X20	BRACED	1.000	1.000
STORY4	C7	2IPE24E20PL300X30	BRACED	1.000	1.000
STORY3	C7	2IPE24E20PL300X30	BRACED	1.000	1.000
STORY2	C7	2IPE24E20BOXPL300X30	BRACED	1.000	1.000
STORY1	C7	2IPE27E20BOXPL300X30	BRACED	1.000	1.000
ROOF	C8	2IPE22E20PL290X25	BRACED	1.000	1.000
STORY5	C8	2IPE24E20PL270X30	BRACED	1.000	1.000
STORY4	C8	2IPE27E20PL350X25	BRACED	1.000	1.000
STORY3	C8	2IPE24E20PL300X30	BRACED	1.000	1.000
STORY2	C8	2IPE24E20BOXPL300X30	BRACED	1.000	1.000
STORY1	C8	2IPE27E20BOXPL300X30	BRACED	1.000	1.000
SHARP-ROOF	C9	2IPE20E20PL250X15	BRACED	3.677	2.503
ROOF	C9	2IPE20E20PL250X15	BRACED	1.000	1.000
STORY5	C9	2IPE24E20PL270X30	BRACED	1.000	1.000
STORY4	C9	2IPE27E20PL350X25	BRACED	1.000	1.000
STORY3	C9	2IPE24E20PL300X30	BRACED	1.000	1.000
STORY2	C9	2IPE24E20BOXPL300X30	BRACED	1.000	1.000
STORY1	C9	2IPE27E20BOXPL300X30	BRACED	1.000	1.000
SHARP-ROOF	C10	2IPE20E20PL250X15	BRACED	3.677	2.503
ROOF	C10	2IPE20E20PL250X15	BRACED	1.000	1.000
STORY5	C10	2IPE24E20PL270X30	BRACED	1.000	1.000
STORY4	C10	2IPE27E20PL350X25	BRACED	1.000	1.000
STORY3	C10	2IPE24E20PL300X30	BRACED	1.000	1.000
STORY2	C10	2IPE24E20BOXPL300X30	BRACED	1.000	1.000
STORY1	C10	2IPE27E20BOXPL300X30	BRACED	1.000	1.000
ROOF	C11	2IPE22E20PL290X25	BRACED	1.000	1.000
STORY5	C11	2IPE24E20PL270X30	BRACED	1.000	1.000
STORY4	C11	2IPE27E20PL350X25	BRACED	1.000	1.000
STORY3	C11	2IPE24E20PL300X30	BRACED	1.000	1.000
STORY2	C11	2IPE24E20BOXPL300X30	BRACED	1.000	1.000
STORY1	C11	2IPE27E20BOXPL300X30	BRACED	1.000	1.000
ROOF	C12	2IPE20E20PL250X15	BRACED	1.000	1.000
STORY5	C12	2IPE24E20PL270X30	BRACED	1.000	1.000
STORY4	C12	2IPE27E20PL400X30	BRACED	1.000	1.000
STORY3	C12	2IPE24E20PL300X30	BRACED	1.000	1.000
STORY2	C12	2IPE24E20BOXPL300X30	BRACED	1.000	1.000
STORY1	C12	2IPE27E20BOXPL300X30	BRACED	1.000	1.000
ROOF	C13	2IPE20E20PL250X15	BRACED	1.000	1.000
STORY5	C13	2IPE22E20PL250X20	BRACED	1.000	1.000
STORY4	C13	2IPE24E20PL300X30	BRACED	1.000	1.000
STORY3	C13	2IPE24E20PL300X30	BRACED	1.000	1.000
STORY2	C13	2IPE24E20BOXPL300X30	BRACED	1.000	1.000
STORY1	C13	2IPE27E20BOXPL300X30	BRACED	1.000	1.000
ROOF	C14	2IPE20E20PL250X15	BRACED	1.000	1.000
STORY5	C14	2IPE22E20PL250X20	BRACED	1.000	1.000

Steel Column Design - Element Information Part 2 of 2

Story Level	Column Line	Section Name	Frame Type	K Major	K Minor
STORY4	C14	2IPE24E20PL300X30	BRACED	1.000	1.000
STORY3	C14	2IPE24E20PL300X30	BRACED	1.000	1.000
STORY2	C14	2IPE24E20BOXPL300X30	BRACED	1.000	1.000
STORY1	C14	2IPE27E20BOXPL300X30	BRACED	1.000	1.000
ROOF	C15	2IPE20E20PL250X15	BRACED	1.000	1.000
STORY5	C15	2IPE22E20PL250X20	BRACED	1.000	1.000
STORY4	C15	2IPE24E20PL300X30	BRACED	1.000	1.000
STORY3	C15	2IPE24E20PL300X30	BRACED	1.000	1.000
STORY2	C15	2IPE24E20BOXPL300X30	BRACED	1.000	1.000
STORY1	C15	2IPE27E20BOXPL300X30	BRACED	1.000	1.000
ROOF	C16	2IPE20E20PL250X15	BRACED	1.000	1.000
STORY5	C16	2IPE22E20PL250X20	BRACED	1.000	1.000
STORY4	C16	2IPE24E20PL300X30	BRACED	1.000	1.000
STORY3	C16	2IPE24E20PL300X30	BRACED	1.000	1.000
STORY2	C16	2IPE24E20BOXPL300X30	BRACED	1.000	1.000
STORY1	C16	2IPE27E20BOXPL300X30	BRACED	1.000	1.000
ROOF	C17	2IPE20E20PL250X15	BRACED	1.000	1.000
STORY5	C17	2IPE22E20PL250X20	BRACED	1.000	1.000
STORY4	C17	2IPE24E20PL300X30	BRACED	1.000	1.000
STORY3	C17	2IPE24E20PL300X30	BRACED	1.000	1.000
STORY2	C17	2IPE24E20BOXPL300X30	BRACED	1.000	1.000
STORY1	C17	2IPE27E20BOXPL300X30	BRACED	1.000	1.000
ROOF	C18	2IPE20E20PL250X15	BRACED	1.000	1.000
STORY5	C18	2IPE22E20PL250X20	BRACED	1.000	1.000
STORY4	C18	2IPE24E20PL300X30	BRACED	1.000	1.000
STORY3	C18	2IPE24E20PL300X30	BRACED	1.000	1.000
STORY2	C18	2IPE24E20BOXPL300X30	BRACED	1.000	1.000
STORY1	C18	2IPE27E20BOXPL300X30	BRACED	1.000	1.000

Steel Column Design - Moment Magnification Overwrites

Steel Column Design - Moment Magnification Overwrites

Story Level	Column Line	CM Major	CM Minor	Cb Factor
ROOF	C1	0.850		
STORY5	C1	0.850		
STORY4	C1	0.850		
STORY3	C1	0.850		
STORY2	C1	0.850		
STORY1	C1	0.850		
ROOF	C2	0.850		
STORY5	C2	0.850		
STORY4	C2	0.850		
STORY3	C2	0.850		
STORY2	C2	0.850		
STORY1	C2	0.850		
ROOF	C3	0.850		
STORY5	C3	0.850		

Steel Column Design - Moment Magnification Overwrites

Story Level	Column Line	CM Major	CM Minor	Cb Factor
STORY4	C3	0.850		
STORY3	C3	0.850		
STORY2	C3	0.850		
STORY1	C3	0.850		
ROOF	C4	0.850		
STORY5	C4	0.850		
STORY4	C4	0.850		
STORY3	C4	0.850		
STORY2	C4	0.850		
STORY1	C4	0.850		
ROOF	C5	0.850		
STORY5	C5	0.850		
STORY4	C5	0.850		
STORY3	C5	0.850		
STORY2	C5	0.850		
STORY1	C5	0.850		
ROOF	C6	0.850		
STORY5	C6	0.850		
STORY4	C6	0.850		
STORY3	C6	0.850		
STORY2	C6	0.850		
STORY1	C6	0.850		
ROOF	C7	0.850		
STORY5	C7	0.850		
STORY4	C7	0.850		
STORY3	C7	0.850		
STORY2	C7	0.850		
STORY1	C7	0.850		
ROOF	C8	0.850		
STORY5	C8	0.850		
STORY4	C8	0.850		
STORY3	C8	0.850		
STORY2	C8	0.850		
STORY1	C8	0.850		
ROOF	C9	0.850		
STORY5	C9	0.850		
STORY4	C9	0.850		
STORY3	C9	0.850		
STORY2	C9	0.850		
STORY1	C9	0.850		
ROOF	C10	0.850		
STORY5	C10	0.850		
STORY4	C10	0.850		
STORY3	C10	0.850		
STORY2	C10	0.850		
STORY1	C10	0.850		
ROOF	C11	0.850		
STORY5	C11	0.850		

Steel Column Design - Moment Magnification Overwrites

Story Level	Column Line	CM Major	CM Minor	Cb Factor
STORY4	C11	0.850		
STORY3	C11	0.850		
STORY2	C11	0.850		
STORY1	C11	0.850		
ROOF	C12	0.850		
STORY5	C12	0.850		
STORY4	C12	0.850		
STORY3	C12	0.850		
STORY2	C12	0.850		
STORY1	C12	0.850		
ROOF	C13	0.850		
STORY5	C13	0.850		
STORY4	C13	0.850		
STORY3	C13	0.850		
STORY2	C13	0.850		
STORY1	C13	0.850		
ROOF	C14	0.850		
STORY5	C14	0.850		
STORY4	C14	0.850		
STORY3	C14	0.850		
STORY2	C14	0.850		
STORY1	C14	0.850		
ROOF	C15	0.850		
STORY5	C15	0.850		
STORY4	C15	0.850		
STORY3	C15	0.850		
STORY2	C15	0.850		
STORY1	C15	0.850		
ROOF	C16	0.850		
STORY5	C16	0.850		
STORY4	C16	0.850		
STORY3	C16	0.850		
STORY2	C16	0.850		
STORY1	C16	0.850		
ROOF	C17	0.850		
STORY5	C17	0.850		
STORY4	C17	0.850		
STORY3	C17	0.850		
STORY2	C17	0.850		
STORY1	C17	0.850		
ROOF	C18	0.850		
STORY5	C18	0.850		
STORY4	C18	0.850		
STORY3	C18	0.850		
STORY2	C18	0.850		
STORY1	C18	0.850		

Steel Beam Design - Element Information Part 1 of 2

Steel Beam Design - Element Information Part 1 of 2

Story Level	Beam Bay	Section Name	Frame Type	RLLF Factor	L_Ratio Major	L_Ratio Minor
ROOF	B1	IPE120	BRACED	1.000	0.928	5.0E-02
STORY5	B1	IPE140	BRACED	1.000	0.920	5.0E-02
STORY4	B1	2IPE22E11PL180X20	BRACED	1.000	0.904	5.0E-02
STORY3	B1	2IPE22E11PL180X20	BRACED	1.000	0.915	5.0E-02
STORY2	B1	2IPE22E11PL180X20	BRACED	1.000	0.904	5.0E-02
STORY1	B1	2IPE24E12PL200X20	BRACED	1.000	0.894	5.0E-02
ROOF	B2	IPE140	BRACED	1.000	0.927	5.0E-02
STORY5	B2	IPE140	BRACED	1.000	0.913	5.0E-02
STORY4	B2	2IPE22E11PL180X20	BRACED	1.000	0.900	5.0E-02
STORY3	B2	2IPE22E11PL180X20	BRACED	1.000	0.900	5.0E-02
STORY2	B2	2IPE22E11PL180X20	BRACED	1.000	0.900	5.0E-02
STORY1	B2	2IPE24E12PL200X20	BRACED	1.000	0.890	5.0E-02
ROOF	B3	IPE180	BRACED	1.000	0.926	5.0E-02
STORY5	B3	IPE160	BRACED	1.000	0.908	5.0E-02
STORY4	B3	2IPE22E11PL180X20	BRACED	1.000	0.894	5.0E-02
STORY3	B3	2IPE22E11PL180X20	BRACED	1.000	0.894	5.0E-02
STORY2	B3	2IPE22E11PL180X20	BRACED	1.000	0.894	5.0E-02
STORY1	B3	2IPE24E12PL200X20	BRACED	1.000	0.884	5.0E-02
ROOF	B4	IPE140	BRACED	1.000	0.927	5.0E-02
STORY5	B4	IPE140	BRACED	1.000	0.913	5.0E-02
STORY4	B4	2IPE22E11PL180X20	BRACED	1.000	0.900	5.0E-02
STORY3	B4	2IPE22E11PL180X20	BRACED	1.000	0.900	5.0E-02
STORY2	B4	2IPE22E11PL180X20	BRACED	1.000	0.900	5.0E-02
STORY1	B4	2IPE24E12PL200X20	BRACED	1.000	0.890	5.0E-02
ROOF	B5	IPE140	BRACED	1.000	0.945	5.0E-02
STORY5	B5	IPE160	BRACED	1.000	0.944	5.0E-02
STORY4	B5	2IPE22E11PL180X20	BRACED	1.000	0.934	5.0E-02
STORY3	B5	2IPE22E11PL180X20	BRACED	1.000	0.934	5.0E-02
STORY2	B5	2IPE22E11PL180X20	BRACED	1.000	0.934	5.0E-02
STORY1	B5	2IPE24E12PL200X20	BRACED	1.000	0.927	5.0E-02
ROOF	B6	2IPE18E9PL140X20	BRACED	1.000	0.831	5.0E-02
STORY5	B6	IPE200	BRACED	1.000	0.844	5.0E-02
STORY4	B6	2IPE22E11PL180X20	BRACED	1.000	0.813	5.0E-02
STORY3	B6	2IPE22E11PL180X20	BRACED	1.000	0.813	5.0E-02
STORY2	B6	2IPE22E11PL180X20	BRACED	1.000	0.813	5.0E-02
STORY1	B6	2IPE24E12PL200X20	BRACED	1.000	0.794	5.0E-02
ROOF	B7	IPE270	BRACED	1.000	0.934	5.0E-02
STORY5	B7	IPE300	BRACED	1.000	0.922	5.0E-02
STORY4	B7	2IPE22E11PL180X10	BRACED	1.000	0.901	5.0E-02
STORY3	B7	2IPE22E11PL180X10	BRACED	1.000	0.917	5.0E-02
STORY2	B7	2IPE22E11PL180X20	BRACED	1.000	0.896	5.0E-02
STORY1	B7	2IPE24E12PL200X20	BRACED	1.000	0.890	5.0E-02
ROOF	B8	IPE240	BRACED	1.000	1.000	5.0E-02
STORY5	B8	2IPE18E9PL140X20	BRACED	1.000	1.000	5.0E-02
STORY4	B8	2IPE22E11PL180X20	BRACED	1.000	1.000	5.0E-02
STORY3	B8	2IPE22E11PL180X20	BRACED	1.000	1.000	5.0E-02
STORY2	B8	2IPE22E11PL180X20	BRACED	1.000	1.000	5.0E-02

Steel Beam Design - Element Information Part 1 of 2

Story Level	Beam Bay	Section Name	Frame Type	RLLF Factor	L_Ratio Major	L_Ratio Minor
STORY1	B8	2IPE24E12PL200X20	BRACED	1.000	1.000	5.0E-02
ROOF	B9	IPE300	BRACED	1.000	0.943	5.0E-02
STORY5	B9	2IPE18E20PL250X15	BRACED	1.000	0.936	5.0E-02
STORY4	B9	2IPE24E12PL200X20	BRACED	1.000	0.925	5.0E-02
STORY3	B9	2IPE24E12PL220X25	BRACED	1.000	0.938	5.0E-02
STORY2	B9	2IPE24E12PL220X25	BRACED	1.000	0.931	5.0E-02
STORY1	B9	2IPE27E13PL260X30	BRACED	1.000	0.931	5.0E-02
SHARP-ROOF	B10	IPE120	BRACED	1.000	0.943	0.702
ROOF	B10	IPE300	BRACED	1.000	0.943	5.0E-02
STORY5	B10	2IPE18E20PL250X15	BRACED	1.000	0.936	5.0E-02
STORY4	B10	2IPE24E12PL200X20	BRACED	1.000	0.925	5.0E-02
STORY3	B10	2IPE24E12PL200X20	BRACED	1.000	0.938	5.0E-02
STORY2	B10	2IPE24E12PL220X25	BRACED	1.000	0.931	5.0E-02
STORY1	B10	2IPE27E13PL260X30	BRACED	1.000	0.931	5.0E-02
SHARP-ROOF	B11	IPE120	BRACED	1.000	0.943	0.702
ROOF	B11	IPE300	BRACED	1.000	0.943	5.0E-02
STORY5	B11	2IPE18E9PL140X20	BRACED	1.000	0.936	5.0E-02
STORY4	B11	2IPE24E12PL200X20	BRACED	1.000	0.925	5.0E-02
STORY3	B11	2IPE24E12PL200X20	BRACED	1.000	0.938	5.0E-02
STORY2	B11	2IPE24E12PL220X25	BRACED	1.000	0.931	5.0E-02
STORY1	B11	2IPE27E13PL260X30	BRACED	1.000	0.931	5.0E-02
ROOF	B12	2IPE18E20PL250X15	BRACED	1.000	0.943	5.0E-02
STORY5	B12	2IPE18E20PL250X15	BRACED	1.000	0.936	5.0E-02
STORY4	B12	2IPE24E12PL200X20	BRACED	1.000	0.925	5.0E-02
STORY3	B12	2IPE24E12PL220X25	BRACED	1.000	0.938	5.0E-02
STORY2	B12	2IPE24E12PL220X25	BRACED	1.000	0.931	5.0E-02
STORY1	B12	2IPE27E13PL260X30	BRACED	1.000	0.931	5.0E-02
ROOF	B13	IPE300	BRACED	1.000	0.938	5.0E-02
STORY5	B13	2IPE18E20PL250X15	BRACED	1.000	0.939	5.0E-02
STORY4	B13	2IPE24E12PL200X20	BRACED	1.000	0.922	5.0E-02
STORY3	B13	2IPE24E12PL220X25	BRACED	1.000	0.938	5.0E-02
STORY2	B13	2IPE24E12PL220X25	BRACED	1.000	0.931	5.0E-02
STORY1	B13	2IPE27E13PL260X30	BRACED	1.000	0.931	5.0E-02
ROOF	B14	IPE200	BRACED	1.000	1.000	5.0E-02
STORY5	B14	IPE240	BRACED	1.000	1.000	5.0E-02
STORY4	B14	2IPE22E11PL180X10	BRACED	1.000	1.000	5.0E-02
STORY3	B14	2IPE22E11PL180X10	BRACED	1.000	1.000	5.0E-02
STORY2	B14	2IPE22E11PL180X20	BRACED	1.000	1.000	5.0E-02
STORY1	B14	2IPE24E12PL200X20	BRACED	1.000	1.000	5.0E-02
ROOF	B15	IPE270	BRACED	1.000	0.964	5.0E-02
STORY5	B15	IPE300	BRACED	1.000	0.961	5.0E-02
STORY4	B15	2IPE22E11PL180X20	BRACED	1.000	0.962	5.0E-02
STORY3	B15	2IPE24E12PL200X20	BRACED	1.000	0.962	5.0E-02
STORY2	B15	2IPE24E12PL200X20	BRACED	1.000	0.957	5.0E-02
STORY1	B15	2IPE27E13PL240X25	BRACED	1.000	0.957	5.0E-02
ROOF	B16	IPE270	BRACED	0.944	0.944	5.0E-02
STORY5	B16	IPE300	BRACED	0.944	0.935	5.0E-02

Steel Beam Design - Element Information Part 1 of 2

Story Level	Beam Bay	Section Name	Frame Type	RLLF Factor	L_Ratio Major	L_Ratio Minor
STORY4	B16	2IPE22E11PL180X20	BRACED	0.944	0.928	5.0E-02
STORY3	B16	2IPE22E11PL180X20	BRACED	0.944	0.931	5.0E-02
STORY2	B16	2IPE22E11PL180X20	BRACED	0.944	0.931	5.0E-02
STORY1	B16	2IPE24E12PL200X20	BRACED	0.944	0.924	5.0E-02
ROOF	B17	IPE180	BRACED	1.000	0.920	5.0E-02
STORY5	B17	IPE160	BRACED	1.000	0.900	5.0E-02
STORY4	B17	2IPE22E11PL180X20	BRACED	1.000	0.893	5.0E-02
STORY3	B17	2IPE22E11PL180X20	BRACED	1.000	0.900	5.0E-02
STORY2	B17	2IPE22E11PL180X20	BRACED	1.000	0.900	5.0E-02
STORY1	B17	2IPE24E12PL200X20	BRACED	1.000	0.890	5.0E-02
ROOF	B18	IPE220	BRACED	1.000	1.000	5.0E-02
STORY5	B18	IPE200	BRACED	1.000	1.000	5.0E-02
STORY4	B18	2IPE22E11PL180X20	BRACED	1.000	1.000	5.0E-02
STORY3	B18	2IPE22E11PL180X20	BRACED	1.000	1.000	5.0E-02
STORY2	B18	2IPE22E11PL180X20	BRACED	1.000	1.000	5.0E-02
STORY1	B18	2IPE24E12PL200X20	BRACED	1.000	1.000	5.0E-02
ROOF	B19	IPE160	BRACED	1.000	0.920	5.0E-02
STORY5	B19	IPE160	BRACED	1.000	0.900	5.0E-02
STORY4	B19	2IPE22E11PL180X20	BRACED	1.000	0.893	5.0E-02
STORY3	B19	2IPE22E11PL180X20	BRACED	1.000	0.900	5.0E-02
STORY2	B19	2IPE22E11PL180X20	BRACED	1.000	0.900	5.0E-02
STORY1	B19	2IPE24E12PL200X20	BRACED	1.000	0.890	5.0E-02
ROOF	B20	IPE160	BRACED	0.921	0.947	5.0E-02
STORY5	B20	IPE160	BRACED	0.921	0.934	5.0E-02
STORY4	B20	2IPE22E11PL180X20	BRACED	0.921	0.928	5.0E-02
STORY3	B20	2IPE22E11PL180X20	BRACED	0.921	0.934	5.0E-02
STORY2	B20	2IPE22E11PL180X20	BRACED	0.921	0.934	5.0E-02
STORY1	B20	2IPE24E12PL200X20	BRACED	0.921	0.927	5.0E-02
ROOF	B21	2IPE18E9PL140X20	BRACED	1.000	0.856	5.0E-02
STORY5	B21	IPE240	BRACED	1.000	0.813	5.0E-02
STORY4	B21	2IPE22E11PL180X20	BRACED	1.000	0.794	5.0E-02
STORY3	B21	2IPE22E11PL180X20	BRACED	1.000	0.813	5.0E-02
STORY2	B21	2IPE22E11PL180X20	BRACED	1.000	0.813	5.0E-02
STORY1	B21	2IPE24E12PL200X20	BRACED	1.000	0.794	5.0E-02
ROOF	B22	IPE270	BRACED	1.000	0.967	5.0E-02
STORY5	B22	IPE300	BRACED	1.000	0.963	5.0E-02
STORY4	B22	2IPE22E11PL180X20	BRACED	1.000	0.964	5.0E-02
STORY3	B22	2IPE22E11PL180X20	BRACED	1.000	0.964	5.0E-02
STORY2	B22	2IPE24E12PL200X20	BRACED	1.000	0.960	5.0E-02
STORY1	B22	2IPE27E13PL240X25	BRACED	1.000	0.960	5.0E-02
ROOF	B23	IPE300	BRACED	1.000	0.946	5.0E-02
STORY5	B23	2IPE18E20PL250X15	BRACED	1.000	0.939	5.0E-02
STORY4	B23	2IPE24E12PL200X20	BRACED	1.000	0.930	5.0E-02
STORY3	B23	2IPE24E12PL220X25	BRACED	1.000	0.942	5.0E-02
STORY2	B23	2IPE24E12PL220X25	BRACED	1.000	0.935	5.0E-02
STORY1	B23	2IPE27E13PL260X30	BRACED	1.000	0.935	5.0E-02
ROOF	B24	IPE300	BRACED	1.000	0.945	5.0E-02
STORY5	B24	2IPE18E20PL250X15	BRACED	1.000	0.939	5.0E-02

Steel Beam Design - Element Information Part 1 of 2

Story Level	Beam Bay	Section Name	Frame Type	RLLF Factor	L_Ratio Major	L_Ratio Minor
STORY4	B24	2IPE24E12PL200X20	BRACED	1.000	0.930	5.0E-02
STORY3	B24	2IPE24E12PL220X25	BRACED	1.000	0.942	5.0E-02
STORY2	B24	2IPE24E12PL220X25	BRACED	1.000	0.935	5.0E-02
STORY1	B24	2IPE27E13PL260X30	BRACED	1.000	0.935	5.0E-02
ROOF	B25	IPE300	BRACED	1.000	0.945	5.0E-02
STORY5	B25	2IPE18E20PL250X15	BRACED	1.000	0.939	5.0E-02
STORY4	B25	2IPE24E12PL200X20	BRACED	1.000	0.930	5.0E-02
STORY3	B25	2IPE24E12PL220X25	BRACED	1.000	0.942	5.0E-02
STORY2	B25	2IPE24E12PL220X25	BRACED	1.000	0.935	5.0E-02
STORY1	B25	2IPE27E13PL260X30	BRACED	1.000	0.935	5.0E-02
ROOF	B26	2IPE18E20PL250X15	BRACED	1.000	0.946	5.0E-02
STORY5	B26	2IPE18E20PL250X20	BRACED	1.000	0.939	5.0E-02
STORY4	B26	2IPE24E12PL200X20	BRACED	1.000	0.930	5.0E-02
STORY3	B26	2IPE24E12PL220X25	BRACED	1.000	0.942	5.0E-02
STORY2	B26	2IPE24E12PL220X25	BRACED	1.000	0.935	5.0E-02
STORY1	B26	2IPE27E13PL260X30	BRACED	1.000	0.935	5.0E-02
ROOF	B27	IPE300	BRACED	1.000	0.945	5.0E-02
STORY5	B27	2IPE18E20PL250X15	BRACED	1.000	0.939	5.0E-02
STORY4	B27	2IPE24E12PL200X20	BRACED	1.000	0.926	5.0E-02
STORY3	B27	2IPE24E12PL220X25	BRACED	1.000	0.942	5.0E-02
STORY2	B27	2IPE24E12PL220X25	BRACED	1.000	0.935	5.0E-02
STORY1	B27	2IPE27E13PL260X30	BRACED	1.000	0.935	5.0E-02
ROOF	B28	IPE200	BRACED	1.000	1.000	5.0E-02
STORY5	B28	IPE240	BRACED	1.000	1.000	5.0E-02
STORY4	B28	2IPE22E11PL180X10	BRACED	1.000	1.000	5.0E-02
STORY3	B28	2IPE22E11PL180X10	BRACED	1.000	1.000	5.0E-02
STORY2	B28	2IPE22E11PL180X20	BRACED	1.000	1.000	5.0E-02
STORY1	B28	2IPE24E12PL200X20	BRACED	1.000	1.000	5.0E-02
ROOF	B29	IPE270	BRACED	1.000	0.917	5.0E-02
STORY5	B29	IPE300	BRACED	1.000	0.908	5.0E-02
STORY4	B29	2IPE22E11PL180X10	BRACED	1.000	0.901	5.0E-02
STORY3	B29	2IPE22E11PL180X10	BRACED	1.000	0.901	5.0E-02
STORY2	B29	2IPE22E11PL180X20	BRACED	1.000	0.896	5.0E-02
STORY1	B29	2IPE24E12PL200X20	BRACED	1.000	0.890	5.0E-02
ROOF	B30	IPE160	BRACED	1.000	0.926	5.0E-02
STORY5	B30	IPE160	BRACED	1.000	0.917	5.0E-02
STORY4	B30	2IPE22E11PL180X20	BRACED	1.000	0.904	5.0E-02
STORY3	B30	2IPE22E11PL180X20	BRACED	1.000	0.904	5.0E-02
STORY2	B30	2IPE22E11PL180X20	BRACED	1.000	0.904	5.0E-02
STORY1	B30	2IPE24E12PL200X20	BRACED	1.000	0.894	5.0E-02
ROOF	B31	IPE180	BRACED	1.000	0.923	5.0E-02
STORY5	B31	IPE200	BRACED	1.000	0.913	5.0E-02
STORY4	B31	2IPE22E11PL180X20	BRACED	1.000	0.900	5.0E-02
STORY3	B31	2IPE22E11PL180X20	BRACED	1.000	0.900	5.0E-02
STORY2	B31	2IPE22E11PL180X20	BRACED	1.000	0.900	5.0E-02
STORY1	B31	2IPE24E12PL200X20	BRACED	1.000	0.890	5.0E-02
ROOF	B32	IPE140	BRACED	1.000	0.919	5.0E-02
STORY5	B32	IPE160	BRACED	1.000	0.908	5.0E-02

Steel Beam Design - Element Information Part 1 of 2

Story Level	Beam Bay	Section Name	Frame Type	RLLF Factor	L_Ratio Major	L_Ratio Minor
STORY4	B32	2IPE22E11PL180X20	BRACED	1.000	0.894	5.0E-02
STORY3	B32	2IPE22E11PL180X20	BRACED	1.000	0.894	5.0E-02
STORY2	B32	2IPE22E11PL180X20	BRACED	1.000	0.894	5.0E-02
STORY1	B32	2IPE24E12PL200X20	BRACED	1.000	0.884	5.0E-02
ROOF	B33	IPE180	BRACED	1.000	0.923	5.0E-02
STORY5	B33	IPE200	BRACED	1.000	0.913	5.0E-02
STORY4	B33	2IPE22E11PL180X20	BRACED	1.000	0.900	5.0E-02
STORY3	B33	2IPE22E11PL180X20	BRACED	1.000	0.900	5.0E-02
STORY2	B33	2IPE22E11PL180X20	BRACED	1.000	0.900	5.0E-02
STORY1	B33	2IPE24E12PL200X20	BRACED	1.000	0.890	5.0E-02
ROOF	B34	IPE140	BRACED	1.000	0.949	5.0E-02
STORY5	B34	IPE160	BRACED	1.000	0.943	5.0E-02
STORY4	B34	2IPE22E11PL180X20	BRACED	1.000	0.934	5.0E-02
STORY3	B34	2IPE22E11PL180X20	BRACED	1.000	0.934	5.0E-02
STORY2	B34	2IPE22E11PL180X20	BRACED	1.000	0.934	5.0E-02
STORY1	B34	2IPE24E12PL200X20	BRACED	1.000	0.927	5.0E-02
ROOF	B35	2IPE18E9PL140X20	BRACED	1.000	0.856	5.0E-02
STORY5	B35	IPE200	BRACED	1.000	0.838	5.0E-02
STORY4	B35	2IPE22E11PL180X20	BRACED	1.000	0.813	5.0E-02
STORY3	B35	2IPE22E11PL180X20	BRACED	1.000	0.813	5.0E-02
STORY2	B35	2IPE22E11PL180X20	BRACED	1.000	0.813	5.0E-02
STORY1	B35	2IPE24E12PL200X20	BRACED	1.000	0.794	5.0E-02
SHARP-ROOF	B36	IPE200	BRACED	1.000	0.919	0.919

Steel Beam Design - Element Information Part 2 of 2

Steel Beam Design - Element Information Part 2 of 2

Story Level	Beam Bay	Section Name	Frame Type	K Major	K Minor
ROOF	B1	IPE120	BRACED	1.000	1.000
STORY5	B1	IPE140	BRACED	1.000	1.000
STORY4	B1	2IPE22E11PL180X20	BRACED	1.000	1.000
STORY3	B1	2IPE22E11PL180X20	BRACED	1.000	1.000
STORY2	B1	2IPE22E11PL180X20	BRACED	1.000	1.000
STORY1	B1	2IPE24E12PL200X20	BRACED	1.000	1.000
ROOF	B2	IPE140	BRACED	1.000	1.000
STORY5	B2	IPE140	BRACED	1.000	1.000
STORY4	B2	2IPE22E11PL180X20	BRACED	1.000	1.000
STORY3	B2	2IPE22E11PL180X20	BRACED	1.000	1.000
STORY2	B2	2IPE22E11PL180X20	BRACED	1.000	1.000
STORY1	B2	2IPE24E12PL200X20	BRACED	1.000	1.000
ROOF	B3	IPE180	BRACED	1.000	1.000
STORY5	B3	IPE160	BRACED	1.000	1.000
STORY4	B3	2IPE22E11PL180X20	BRACED	1.000	1.000
STORY3	B3	2IPE22E11PL180X20	BRACED	1.000	1.000
STORY2	B3	2IPE22E11PL180X20	BRACED	1.000	1.000
STORY1	B3	2IPE24E12PL200X20	BRACED	1.000	1.000
ROOF	B4	IPE140	BRACED	1.000	1.000

Steel Beam Design - Element Information Part 2 of 2

Story Level	Beam Bay	Section Name	Frame Type	K Major	K Minor
STORY5	B4	IPE140	BRACED	1.000	1.000
STORY4	B4	2IPE22E11PL180X20	BRACED	1.000	1.000
STORY3	B4	2IPE22E11PL180X20	BRACED	1.000	1.000
STORY2	B4	2IPE22E11PL180X20	BRACED	1.000	1.000
STORY1	B4	2IPE24E12PL200X20	BRACED	1.000	1.000
ROOF	B5	IPE140	BRACED	1.000	1.000
STORY5	B5	IPE160	BRACED	1.000	1.000
STORY4	B5	2IPE22E11PL180X20	BRACED	1.000	1.000
STORY3	B5	2IPE22E11PL180X20	BRACED	1.000	1.000
STORY2	B5	2IPE22E11PL180X20	BRACED	1.000	1.000
STORY1	B5	2IPE24E12PL200X20	BRACED	1.000	1.000
ROOF	B6	2IPE18E9PL140X20	BRACED	1.000	1.000
STORY5	B6	IPE200	BRACED	1.000	1.000
STORY4	B6	2IPE22E11PL180X20	BRACED	1.000	1.000
STORY3	B6	2IPE22E11PL180X20	BRACED	1.000	1.000
STORY2	B6	2IPE22E11PL180X20	BRACED	1.000	1.000
STORY1	B6	2IPE24E12PL200X20	BRACED	1.000	1.000
ROOF	B7	IPE270	BRACED	1.000	1.000
STORY5	B7	IPE300	BRACED	1.000	1.000
STORY4	B7	2IPE22E11PL180X10	BRACED	1.000	1.000
STORY3	B7	2IPE22E11PL180X10	BRACED	1.000	1.000
STORY2	B7	2IPE22E11PL180X20	BRACED	1.000	1.000
STORY1	B7	2IPE24E12PL200X20	BRACED	1.000	1.000
ROOF	B8	IPE240	BRACED	1.000	1.000
STORY5	B8	2IPE18E9PL140X20	BRACED	1.000	1.000
STORY4	B8	2IPE22E11PL180X20	BRACED	1.000	1.000
STORY3	B8	2IPE22E11PL180X20	BRACED	1.000	1.000
STORY2	B8	2IPE22E11PL180X20	BRACED	1.000	1.000
STORY1	B8	2IPE24E12PL200X20	BRACED	1.000	1.000
ROOF	B9	IPE300	BRACED	1.000	1.000
STORY5	B9	2IPE18E20PL250X15	BRACED	1.000	1.000
STORY4	B9	2IPE24E12PL200X20	BRACED	1.000	1.000
STORY3	B9	2IPE24E12PL220X25	BRACED	1.000	1.000
STORY2	B9	2IPE24E12PL220X25	BRACED	1.000	1.000
STORY1	B9	2IPE27E13PL260X30	BRACED	1.000	1.000
SHARP-RO OF	B10	IPE120	BRACED	1.000	1.000
ROOF	B10	IPE300	BRACED	1.000	1.000
STORY5	B10	2IPE18E20PL250X15	BRACED	1.000	1.000
STORY4	B10	2IPE24E12PL200X20	BRACED	1.000	1.000
STORY3	B10	2IPE24E12PL200X20	BRACED	1.000	1.000
STORY2	B10	2IPE24E12PL220X25	BRACED	1.000	1.000
STORY1	B10	2IPE27E13PL260X30	BRACED	1.000	1.000
SHARP-RO OF	B11	IPE120	BRACED	1.000	1.000
ROOF	B11	IPE300	BRACED	1.000	1.000
STORY5	B11	2IPE18E9PL140X20	BRACED	1.000	1.000
STORY4	B11	2IPE24E12PL200X20	BRACED	1.000	1.000
STORY3	B11	2IPE24E12PL200X20	BRACED	1.000	1.000

Steel Beam Design - Element Information Part 2 of 2

Story Level	Beam Bay	Section Name	Frame Type	K Major	K Minor
STORY2	B11	2IPE24E12PL220X25	BRACED	1.000	1.000
STORY1	B11	2IPE27E13PL260X30	BRACED	1.000	1.000
ROOF	B12	2IPE18E20PL250X15	BRACED	1.000	1.000
STORY5	B12	2IPE18E20PL250X15	BRACED	1.000	1.000
STORY4	B12	2IPE24E12PL200X20	BRACED	1.000	1.000
STORY3	B12	2IPE24E12PL220X25	BRACED	1.000	1.000
STORY2	B12	2IPE24E12PL220X25	BRACED	1.000	1.000
STORY1	B12	2IPE27E13PL260X30	BRACED	1.000	1.000
ROOF	B13	IPE300	BRACED	1.000	1.000
STORY5	B13	2IPE18E20PL250X15	BRACED	1.000	1.000
STORY4	B13	2IPE24E12PL200X20	BRACED	1.000	1.000
STORY3	B13	2IPE24E12PL220X25	BRACED	1.000	1.000
STORY2	B13	2IPE24E12PL220X25	BRACED	1.000	1.000
STORY1	B13	2IPE27E13PL260X30	BRACED	1.000	1.000
ROOF	B14	IPE200	BRACED	1.000	1.000
STORY5	B14	IPE240	BRACED	1.000	1.000
STORY4	B14	2IPE22E11PL180X10	BRACED	1.000	1.000
STORY3	B14	2IPE22E11PL180X10	BRACED	1.000	1.000
STORY2	B14	2IPE22E11PL180X20	BRACED	1.000	1.000
STORY1	B14	2IPE24E12PL200X20	BRACED	1.000	1.000
ROOF	B15	IPE270	BRACED	1.000	1.000
STORY5	B15	IPE300	BRACED	1.000	1.000
STORY4	B15	2IPE22E11PL180X20	BRACED	1.000	1.000
STORY3	B15	2IPE24E12PL200X20	BRACED	1.000	1.000
STORY2	B15	2IPE24E12PL200X20	BRACED	1.000	1.000
STORY1	B15	2IPE27E13PL240X25	BRACED	1.000	1.000
ROOF	B16	IPE270	BRACED	1.000	1.000
STORY5	B16	IPE300	BRACED	1.000	1.000
STORY4	B16	2IPE22E11PL180X20	BRACED	1.000	1.000
STORY3	B16	2IPE22E11PL180X20	BRACED	1.000	1.000
STORY2	B16	2IPE22E11PL180X20	BRACED	1.000	1.000
STORY1	B16	2IPE24E12PL200X20	BRACED	1.000	1.000
ROOF	B17	IPE180	BRACED	1.000	1.000
STORY5	B17	IPE160	BRACED	1.000	1.000
STORY4	B17	2IPE22E11PL180X20	BRACED	1.000	1.000
STORY3	B17	2IPE22E11PL180X20	BRACED	1.000	1.000
STORY2	B17	2IPE22E11PL180X20	BRACED	1.000	1.000
STORY1	B17	2IPE24E12PL200X20	BRACED	1.000	1.000
ROOF	B18	IPE220	BRACED	1.000	1.000
STORY5	B18	IPE200	BRACED	1.000	1.000
STORY4	B18	2IPE22E11PL180X20	BRACED	1.000	1.000
STORY3	B18	2IPE22E11PL180X20	BRACED	1.000	1.000
STORY2	B18	2IPE22E11PL180X20	BRACED	1.000	1.000
STORY1	B18	2IPE24E12PL200X20	BRACED	1.000	1.000
ROOF	B19	IPE160	BRACED	1.000	1.000
STORY5	B19	IPE160	BRACED	1.000	1.000
STORY4	B19	2IPE22E11PL180X20	BRACED	1.000	1.000
STORY3	B19	2IPE22E11PL180X20	BRACED	1.000	1.000

Steel Beam Design - Element Information Part 2 of 2

Story Level	Beam Bay	Section Name	Frame Type	K Major	K Minor
STORY2	B19	2IPE22E11PL180X20	BRACED	1.000	1.000
STORY1	B19	2IPE24E12PL200X20	BRACED	1.000	1.000
ROOF	B20	IPE160	BRACED	1.000	1.000
STORY5	B20	IPE160	BRACED	1.000	1.000
STORY4	B20	2IPE22E11PL180X20	BRACED	1.000	1.000
STORY3	B20	2IPE22E11PL180X20	BRACED	1.000	1.000
STORY2	B20	2IPE22E11PL180X20	BRACED	1.000	1.000
STORY1	B20	2IPE24E12PL200X20	BRACED	1.000	1.000
ROOF	B21	2IPE18E9PL140X20	BRACED	1.000	1.000
STORY5	B21	IPE240	BRACED	1.000	1.000
STORY4	B21	2IPE22E11PL180X20	BRACED	1.000	1.000
STORY3	B21	2IPE22E11PL180X20	BRACED	1.000	1.000
STORY2	B21	2IPE22E11PL180X20	BRACED	1.000	1.000
STORY1	B21	2IPE24E12PL200X20	BRACED	1.000	1.000
ROOF	B22	IPE270	BRACED	1.000	1.000
STORY5	B22	IPE300	BRACED	1.000	1.000
STORY4	B22	2IPE22E11PL180X20	BRACED	1.000	1.000
STORY3	B22	2IPE22E11PL180X20	BRACED	1.000	1.000
STORY2	B22	2IPE24E12PL200X20	BRACED	1.000	1.000
STORY1	B22	2IPE27E13PL240X25	BRACED	1.000	1.000
ROOF	B23	IPE300	BRACED	1.000	1.000
STORY5	B23	2IPE18E20PL250X15	BRACED	1.000	1.000
STORY4	B23	2IPE24E12PL200X20	BRACED	1.000	1.000
STORY3	B23	2IPE24E12PL220X25	BRACED	1.000	1.000
STORY2	B23	2IPE24E12PL220X25	BRACED	1.000	1.000
STORY1	B23	2IPE27E13PL260X30	BRACED	1.000	1.000
ROOF	B24	IPE300	BRACED	1.000	1.000
STORY5	B24	2IPE18E20PL250X15	BRACED	1.000	1.000
STORY4	B24	2IPE24E12PL200X20	BRACED	1.000	1.000
STORY3	B24	2IPE24E12PL220X25	BRACED	1.000	1.000
STORY2	B24	2IPE24E12PL220X25	BRACED	1.000	1.000
STORY1	B24	2IPE27E13PL260X30	BRACED	1.000	1.000
ROOF	B25	IPE300	BRACED	1.000	1.000
STORY5	B25	2IPE18E20PL250X15	BRACED	1.000	1.000
STORY4	B25	2IPE24E12PL200X20	BRACED	1.000	1.000
STORY3	B25	2IPE24E12PL220X25	BRACED	1.000	1.000
STORY2	B25	2IPE24E12PL220X25	BRACED	1.000	1.000
STORY1	B25	2IPE27E13PL260X30	BRACED	1.000	1.000
ROOF	B26	2IPE18E20PL250X15	BRACED	1.000	1.000
STORY5	B26	2IPE18E20PL250X20	BRACED	1.000	1.000
STORY4	B26	2IPE24E12PL200X20	BRACED	1.000	1.000
STORY3	B26	2IPE24E12PL220X25	BRACED	1.000	1.000
STORY2	B26	2IPE24E12PL220X25	BRACED	1.000	1.000
STORY1	B26	2IPE27E13PL260X30	BRACED	1.000	1.000
ROOF	B27	IPE300	BRACED	1.000	1.000
STORY5	B27	2IPE18E20PL250X15	BRACED	1.000	1.000
STORY4	B27	2IPE24E12PL200X20	BRACED	1.000	1.000
STORY3	B27	2IPE24E12PL220X25	BRACED	1.000	1.000

Steel Beam Design - Element Information Part 2 of 2

Story Level	Beam Bay	Section Name	Frame Type	K Major	K Minor
STORY2	B27	2IPE24E12PL220X25	BRACED	1.000	1.000
STORY1	B27	2IPE27E13PL260X30	BRACED	1.000	1.000
ROOF	B28	IPE200	BRACED	1.000	1.000
STORY5	B28	IPE240	BRACED	1.000	1.000
STORY4	B28	2IPE22E11PL180X10	BRACED	1.000	1.000
STORY3	B28	2IPE22E11PL180X10	BRACED	1.000	1.000
STORY2	B28	2IPE22E11PL180X20	BRACED	1.000	1.000
STORY1	B28	2IPE24E12PL200X20	BRACED	1.000	1.000
ROOF	B29	IPE270	BRACED	1.000	1.000
STORY5	B29	IPE300	BRACED	1.000	1.000
STORY4	B29	2IPE22E11PL180X10	BRACED	1.000	1.000
STORY3	B29	2IPE22E11PL180X10	BRACED	1.000	1.000
STORY2	B29	2IPE22E11PL180X20	BRACED	1.000	1.000
STORY1	B29	2IPE24E12PL200X20	BRACED	1.000	1.000
ROOF	B30	IPE160	BRACED	1.000	1.000
STORY5	B30	IPE160	BRACED	1.000	1.000
STORY4	B30	2IPE22E11PL180X20	BRACED	1.000	1.000
STORY3	B30	2IPE22E11PL180X20	BRACED	1.000	1.000
STORY2	B30	2IPE22E11PL180X20	BRACED	1.000	1.000
STORY1	B30	2IPE24E12PL200X20	BRACED	1.000	1.000
ROOF	B31	IPE180	BRACED	1.000	1.000
STORY5	B31	IPE200	BRACED	1.000	1.000
STORY4	B31	2IPE22E11PL180X20	BRACED	1.000	1.000
STORY3	B31	2IPE22E11PL180X20	BRACED	1.000	1.000
STORY2	B31	2IPE22E11PL180X20	BRACED	1.000	1.000
STORY1	B31	2IPE24E12PL200X20	BRACED	1.000	1.000
ROOF	B32	IPE140	BRACED	1.000	1.000
STORY5	B32	IPE160	BRACED	1.000	1.000
STORY4	B32	2IPE22E11PL180X20	BRACED	1.000	1.000
STORY3	B32	2IPE22E11PL180X20	BRACED	1.000	1.000
STORY2	B32	2IPE22E11PL180X20	BRACED	1.000	1.000
STORY1	B32	2IPE24E12PL200X20	BRACED	1.000	1.000
ROOF	B33	IPE180	BRACED	1.000	1.000
STORY5	B33	IPE200	BRACED	1.000	1.000
STORY4	B33	2IPE22E11PL180X20	BRACED	1.000	1.000
STORY3	B33	2IPE22E11PL180X20	BRACED	1.000	1.000
STORY2	B33	2IPE22E11PL180X20	BRACED	1.000	1.000
STORY1	B33	2IPE24E12PL200X20	BRACED	1.000	1.000
ROOF	B34	IPE140	BRACED	1.000	1.000
STORY5	B34	IPE160	BRACED	1.000	1.000
STORY4	B34	2IPE22E11PL180X20	BRACED	1.000	1.000
STORY3	B34	2IPE22E11PL180X20	BRACED	1.000	1.000
STORY2	B34	2IPE22E11PL180X20	BRACED	1.000	1.000
STORY1	B34	2IPE24E12PL200X20	BRACED	1.000	1.000
ROOF	B35	2IPE18E9PL140X20	BRACED	1.000	1.000
STORY5	B35	IPE200	BRACED	1.000	1.000
STORY4	B35	2IPE22E11PL180X20	BRACED	1.000	1.000
STORY3	B35	2IPE22E11PL180X20	BRACED	1.000	1.000

Steel Beam Design - Element Information Part 2 of 2

Story Level	Beam Bay	Section Name	Frame Type	K Major	K Minor
STORY2	B35	2IPE22E11PL180X20	BRACED	1.000	1.000
STORY1	B35	2IPE24E12PL200X20	BRACED	1.000	1.000
SHARP-ROOF	B36	IPE200	BRACED	1.000	1.000

Steel Brace Design - Element Information Part 1 of 2

Steel Brace Design - Element Information Part 1 of 2

Story Level	Brace Bay	Section Name	Frame Type	RLLF Factor	L_Ratio Major	L_Ratio Minor
ROOF	D1	2UNP80PL120X10	BRACED	1.000	0.500	0.670
STORY5	D1	2UNP80PL120X10	BRACED	1.000	0.500	0.670
STORY4	D1	2UNP100PL140X10	BRACED	1.000	0.500	0.670
STORY3	D1	2UNP120PL160X10	BRACED	1.000	0.500	0.670
STORY2	D1	2UNP140PL180X10	BRACED	1.000	0.500	0.670
STORY1	D1	2UNP160PL200X10	BRACED	1.000	0.500	0.670
ROOF	D2	2UNP80PL120X10	BRACED	1.000	0.500	0.670
STORY5	D2	2UNP80PL120X10	BRACED	1.000	0.500	0.670
STORY4	D2	2UNP100PL140X10	BRACED	1.000	0.500	0.670
STORY3	D2	2UNP120PL160X10	BRACED	1.000	0.500	0.670
STORY2	D2	2UNP140PL180X10	BRACED	1.000	0.500	0.670
STORY1	D2	2UNP160PL200X10	BRACED	1.000	0.500	0.670
ROOF	D3	2UNP80PL120X10	BRACED	1.000	0.500	0.670
STORY5	D3	2UNP80PL120X10	BRACED	1.000	0.500	0.670
STORY4	D3	2UNP100PL140X10	BRACED	1.000	0.500	0.670
STORY3	D3	2UNP120PL160X10	BRACED	1.000	0.500	0.670
STORY2	D3	2UNP140PL180X10	BRACED	1.000	0.500	0.670
STORY1	D3	2UNP160PL200X10	BRACED	1.000	0.500	0.670
ROOF	D4	2UNP80PL120X10	BRACED	1.000	0.500	0.670
STORY5	D4	2UNP80PL120X10	BRACED	1.000	0.500	0.670
STORY4	D4	2UNP100PL140X10	BRACED	1.000	0.500	0.670
STORY3	D4	2UNP120PL160X10	BRACED	1.000	0.500	0.670
STORY2	D4	2UNP140PL180X10	BRACED	1.000	0.500	0.670
STORY1	D4	2UNP160PL200X10	BRACED	1.000	0.500	0.670
ROOF	D5	2UNP100PL140X10	BRACED	1.000	0.500	0.670
STORY5	D5	2UNP120PL160X10	BRACED	1.000	0.500	0.670
STORY4	D5	2UNP120PL160X10	BRACED	1.000	0.500	0.670
STORY3	D5	2UNP140PL180X10	BRACED	1.000	0.500	0.670
STORY2	D5	2UNP140PL180X10	BRACED	1.000	0.500	0.670
STORY1	D5	2UNP160PL200X10	BRACED	1.000	0.500	0.670
ROOF	D6	2UNP100PL140X10	BRACED	1.000	0.500	0.670
STORY5	D6	2UNP120PL160X10	BRACED	1.000	0.500	0.670
STORY4	D6	2UNP120PL160X10	BRACED	1.000	0.500	0.670
STORY3	D6	2UNP140PL180X10	BRACED	1.000	0.500	0.670
STORY2	D6	2UNP140PL180X10	BRACED	1.000	0.500	0.670
STORY1	D6	2UNP160PL200X10	BRACED	1.000	0.500	0.670
ROOF	D7	2UNP80PL120X10	BRACED	1.000	0.500	0.670
STORY5	D7	2UNP80PL120X10	BRACED	1.000	0.500	0.670
STORY4	D7	2UNP100PL140X10	BRACED	1.000	0.500	0.670

Steel Brace Design - Element Information Part 1 of 2

Story Level	Brace Bay	Section Name	Frame Type	RLLF Factor	L_Ratio Major	L_Ratio Minor
STORY3	D7	2UNP120PL160X10	BRACED	1.000	0.500	0.670
STORY2	D7	2UNP140PL180X10	BRACED	1.000	0.500	0.670
STORY1	D7	2UNP160PL200X10	BRACED	1.000	0.500	0.670
ROOF	D8	2UNP80PL120X10	BRACED	1.000	0.500	0.670
STORY5	D8	2UNP80PL120X10	BRACED	1.000	0.500	0.670
STORY4	D8	2UNP100PL140X10	BRACED	1.000	0.500	0.670
STORY3	D8	2UNP120PL160X10	BRACED	1.000	0.500	0.670
STORY2	D8	2UNP140PL180X10	BRACED	1.000	0.500	0.670
STORY1	D8	2UNP160PL200X10	BRACED	1.000	0.500	0.670
ROOF	D9	2UNP80PL120X10	BRACED	1.000	0.500	0.670
STORY5	D9	2UNP80PL120X10	BRACED	1.000	0.500	0.670
STORY4	D9	2UNP100PL140X10	BRACED	1.000	0.500	0.670
STORY3	D9	2UNP120PL160X10	BRACED	1.000	0.500	0.670
STORY2	D9	2UNP140PL180X10	BRACED	1.000	0.500	0.670
STORY1	D9	2UNP160PL200X10	BRACED	1.000	0.500	0.670
ROOF	D10	2UNP80PL120X10	BRACED	1.000	0.500	0.670
STORY5	D10	2UNP80PL120X10	BRACED	1.000	0.500	0.670
STORY4	D10	2UNP100PL140X10	BRACED	1.000	0.500	0.670
STORY3	D10	2UNP120PL160X10	BRACED	1.000	0.500	0.670
STORY2	D10	2UNP140PL180X10	BRACED	1.000	0.500	0.670
STORY1	D10	2UNP160PL200X10	BRACED	1.000	0.500	0.670
ROOF	D11	2UNP80PL120X10	BRACED	1.000	0.500	0.670
STORY5	D11	2UNP120PL160X10	BRACED	1.000	0.500	0.670
STORY4	D11	2UNP120PL160X10	BRACED	1.000	0.500	0.670
STORY3	D11	2UNP140PL180X10	BRACED	1.000	0.500	0.670
STORY2	D11	2UNP140PL180X10	BRACED	1.000	0.500	0.670
STORY1	D11	2UNP160PL200X10	BRACED	1.000	0.500	0.670
ROOF	D12	2UNP80PL120X10	BRACED	1.000	0.500	0.670
STORY5	D12	2UNP120PL160X10	BRACED	1.000	0.500	0.670
STORY4	D12	2UNP120PL160X10	BRACED	1.000	0.500	0.670
STORY3	D12	2UNP140PL180X10	BRACED	1.000	0.500	0.670
STORY2	D12	2UNP140PL180X10	BRACED	1.000	0.500	0.670
STORY1	D12	2UNP160PL200X10	BRACED	1.000	0.500	0.670

Steel Brace Design - Element Information Part 2 of 2

Steel Brace Design - Element Information Part 2 of 2

Story Level	Brace Bay	Section Name	Frame Type	K Major	K Minor
ROOF	D1	2UNP80PL120X10	BRACED	1.000	1.000
STORY5	D1	2UNP80PL120X10	BRACED	1.000	1.000
STORY4	D1	2UNP100PL140X10	BRACED	1.000	1.000
STORY3	D1	2UNP120PL160X10	BRACED	1.000	1.000
STORY2	D1	2UNP140PL180X10	BRACED	1.000	1.000
STORY1	D1	2UNP160PL200X10	BRACED	1.000	1.000
ROOF	D2	2UNP80PL120X10	BRACED	1.000	1.000
STORY5	D2	2UNP80PL120X10	BRACED	1.000	1.000
STORY4	D2	2UNP100PL140X10	BRACED	1.000	1.000

Steel Brace Design - Element Information Part 2 of 2

Story Level	Brace Bay	Section Name	Frame Type	K Major	K Minor
STORY3	D2	2UNP120PL160X10	BRACED	1.000	1.000
STORY2	D2	2UNP140PL180X10	BRACED	1.000	1.000
STORY1	D2	2UNP160PL200X10	BRACED	1.000	1.000
ROOF	D3	2UNP80PL120X10	BRACED	1.000	1.000
STORY5	D3	2UNP80PL120X10	BRACED	1.000	1.000
STORY4	D3	2UNP100PL140X10	BRACED	1.000	1.000
STORY3	D3	2UNP120PL160X10	BRACED	1.000	1.000
STORY2	D3	2UNP140PL180X10	BRACED	1.000	1.000
STORY1	D3	2UNP160PL200X10	BRACED	1.000	1.000
ROOF	D4	2UNP80PL120X10	BRACED	1.000	1.000
STORY5	D4	2UNP80PL120X10	BRACED	1.000	1.000
STORY4	D4	2UNP100PL140X10	BRACED	1.000	1.000
STORY3	D4	2UNP120PL160X10	BRACED	1.000	1.000
STORY2	D4	2UNP140PL180X10	BRACED	1.000	1.000
STORY1	D4	2UNP160PL200X10	BRACED	1.000	1.000
ROOF	D5	2UNP100PL140X10	BRACED	1.000	1.000
STORY5	D5	2UNP120PL160X10	BRACED	1.000	1.000
STORY4	D5	2UNP120PL160X10	BRACED	1.000	1.000
STORY3	D5	2UNP140PL180X10	BRACED	1.000	1.000
STORY2	D5	2UNP140PL180X10	BRACED	1.000	1.000
STORY1	D5	2UNP160PL200X10	BRACED	1.000	1.000
ROOF	D6	2UNP100PL140X10	BRACED	1.000	1.000
STORY5	D6	2UNP120PL160X10	BRACED	1.000	1.000
STORY4	D6	2UNP120PL160X10	BRACED	1.000	1.000
STORY3	D6	2UNP140PL180X10	BRACED	1.000	1.000
STORY2	D6	2UNP140PL180X10	BRACED	1.000	1.000
STORY1	D6	2UNP160PL200X10	BRACED	1.000	1.000
ROOF	D7	2UNP80PL120X10	BRACED	1.000	1.000
STORY5	D7	2UNP80PL120X10	BRACED	1.000	1.000
STORY4	D7	2UNP100PL140X10	BRACED	1.000	1.000
STORY3	D7	2UNP120PL160X10	BRACED	1.000	1.000
STORY2	D7	2UNP140PL180X10	BRACED	1.000	1.000
STORY1	D7	2UNP160PL200X10	BRACED	1.000	1.000
ROOF	D8	2UNP80PL120X10	BRACED	1.000	1.000
STORY5	D8	2UNP80PL120X10	BRACED	1.000	1.000
STORY4	D8	2UNP100PL140X10	BRACED	1.000	1.000
STORY3	D8	2UNP120PL160X10	BRACED	1.000	1.000
STORY2	D8	2UNP140PL180X10	BRACED	1.000	1.000
STORY1	D8	2UNP160PL200X10	BRACED	1.000	1.000
ROOF	D9	2UNP80PL120X10	BRACED	1.000	1.000
STORY5	D9	2UNP80PL120X10	BRACED	1.000	1.000
STORY4	D9	2UNP100PL140X10	BRACED	1.000	1.000
STORY3	D9	2UNP120PL160X10	BRACED	1.000	1.000
STORY2	D9	2UNP140PL180X10	BRACED	1.000	1.000
STORY1	D9	2UNP160PL200X10	BRACED	1.000	1.000
ROOF	D10	2UNP80PL120X10	BRACED	1.000	1.000
STORY5	D10	2UNP80PL120X10	BRACED	1.000	1.000
STORY4	D10	2UNP100PL140X10	BRACED	1.000	1.000

Steel Brace Design - Element Information Part 2 of 2

Story Level	Brace Bay	Section Name	Frame Type	K Major	K Minor
STORY3	D10	2UNP120PL160X10	BRACED	1.000	1.000
STORY2	D10	2UNP140PL180X10	BRACED	1.000	1.000
STORY1	D10	2UNP160PL200X10	BRACED	1.000	1.000
ROOF	D11	2UNP80PL120X10	BRACED	1.000	1.000
STORY5	D11	2UNP120PL160X10	BRACED	1.000	1.000
STORY4	D11	2UNP120PL160X10	BRACED	1.000	1.000
STORY3	D11	2UNP140PL180X10	BRACED	1.000	1.000
STORY2	D11	2UNP140PL180X10	BRACED	1.000	1.000
STORY1	D11	2UNP160PL200X10	BRACED	1.000	1.000
ROOF	D12	2UNP80PL120X10	BRACED	1.000	1.000
STORY5	D12	2UNP120PL160X10	BRACED	1.000	1.000
STORY4	D12	2UNP120PL160X10	BRACED	1.000	1.000
STORY3	D12	2UNP140PL180X10	BRACED	1.000	1.000
STORY2	D12	2UNP140PL180X10	BRACED	1.000	1.000
STORY1	D12	2UNP160PL200X10	BRACED	1.000	1.000

Steel Column Design - Capacity Check Output

Steel Column Design - Capacity Check Output

Story Level	Column Line	Section Name	Moment Interaction Check Ratio = AXL + B33 + B22	Shear22 Ratio	Shear33 Ratio
ROOF	C1	2IPE18E20PL185X20	0.556 = 0.036 + 0.152 + 0.369	0.053	0.012
STORY5	C1	2IPE20E20PL250X10	0.271 = 0.040 + 0.076 + 0.155	0.011	0.014
STORY4	C1	2IPE24E20PL300X30	0.273 = 0.055 + 0.097 + 0.121	0.061	0.009
STORY3	C1	2IPE20E20PL250X15	0.542 = 0.170 + 0.070 + 0.302	0.034	0.024
STORY2	C1	2IPE24E20BOXPL300X30	0.221 = 0.076 + 0.079 + 0.066	0.015	0.006
STORY1	C1	2IPE27E20BOXPL300X30	0.322 = 0.094 + 0.055 + 0.173	0.009	0.013
ROOF	C2	2IPE20E20PL250X15	0.467 = 0.036 + 0.013 + 0.418	0.006	0.030
STORY5	C2	2IPE22E20PL250X20	0.533 = 0.074 + 0.004 + 0.455	0.004	0.031
STORY4	C2	2IPE24E20PL300X30	0.375 = 0.081 + 0.005 + 0.289	0.005	0.024
STORY3	C2	2IPE24E20PL300X30	0.514 = 0.121 + 0.003 + 0.389	0.004	0.033
STORY2	C2	2IPE24E20BOXPL300X30	0.262 = 0.103 + 0.006 + 0.153	0.001	0.023
STORY1	C2	2IPE27E20BOXPL300X30	0.426 = 0.124 + 0.001 + 0.301	0.003	0.024
SHARP-R OOF	C3	2IPE18E20PL250X15	0.116 = 0.006 + 0.001 + 0.109	0.001	0.005
ROOF	C3	2IPE18E20PL250X15	0.533 = 0.040 + 0.001 + 0.491	0.001	0.034
STORY5	C3	2IPE22E20PL250X20	0.559 = 0.060 + 0.001 + 0.498	0.001	0.034
STORY4	C3	2IPE24E20PL300X30	0.360 = 0.070 + 0.001 + 0.289	0.001	0.024
STORY3	C3	2IPE24E20PL300X30	0.478 = 0.102 + 0.003 + 0.373	0.002	0.031
STORY2	C3	2IPE24E20BOXPL300X30	0.246 = 0.085 + 0.004 + 0.157	0.001	0.025
STORY1	C3	2IPE27E20BOXPL300X30	0.414 = 0.105 + 0.002 + 0.307	0.003	0.024
SHARP-R OOF	C4	2IPE18E20PL250X15	0.113 = 0.006 + 0.001 + 0.107	0.001	0.005
ROOF	C4	2IPE18E20PL250X15	0.523 = 0.043 + 0.001 + 0.478	0.000	0.032
STORY5	C4	2IPE22E20PL250X20	0.549 = 0.072 + 0.001 + 0.475	0.001	0.032
STORY4	C4	2IPE24E20PL300X30	0.369 = 0.076 + 0.001 + 0.292	0.002	0.023
STORY3	C4	2IPE24E20PL300X30	0.486 = 0.111 + 0.000 + 0.375	0.002	0.031
STORY2	C4	2IPE24E20BOXPL300X30	0.253 = 0.094 + 0.003 + 0.156	0.001	0.024
STORY1	C4	2IPE27E20BOXPL300X30	0.427 = 0.116 + 0.003 + 0.308	0.003	0.024
ROOF	C5	2IPE20E20PL250X15	0.511 = 0.044 + 0.022 + 0.445	0.010	0.030
STORY5	C5	2IPE22E20PL250X20	0.547 = 0.085 + 0.011 + 0.451	0.006	0.030
STORY4	C5	2IPE24E20PL300X30	0.378 = 0.091 + 0.006 + 0.280	0.008	0.023
STORY3	C5	2IPE24E20PL300X30	0.530 = 0.135 + 0.009 + 0.387	0.006	0.032
STORY2	C5	2IPE24E20BOXPL300X30	0.258 = 0.111 + 0.001 + 0.146	0.002	0.022
STORY1	C5	2IPE27E20BOXPL300X30	0.444 = 0.133 + 0.006 + 0.305	0.003	0.024
ROOF	C6	2IPE24E20PL250X15	0.424 = 0.040 + 0.036 + 0.347	0.019	0.026
STORY5	C6	2IPE22E20PL290X25	0.520 = 0.089 + 0.035 + 0.396	0.018	0.031
STORY4	C6	2IPE24E20PL300X30	0.393 = 0.084 + 0.023 + 0.286	0.019	0.023
STORY3	C6	2IPE24E20PL300X30	0.526 = 0.150 + 0.018 + 0.358	0.016	0.032
STORY2	C6	2IPE24E20BOXPL300X30	0.264 = 0.122 + 0.019 + 0.123	0.004	0.021
STORY1	C6	2IPE27E20BOXPL300X30	0.465 = 0.148 + 0.015 + 0.301	0.004	0.024
ROOF	C7	2IPE20E20PL250X15	0.430 = 0.049 + 0.036 + 0.344	0.017	0.024
STORY5	C7	2IPE22E20PL250X20	0.573 = 0.088 + 0.010 + 0.475	0.008	0.032
STORY4	C7	2IPE24E20PL300X30	0.383 = 0.085 + 0.007 + 0.292	0.007	0.024

Steel Column Design - Capacity Check Output

Story Level	Column Line	Section Name	Moment Interaction Check Ratio = AXL + B33 + B22	Shear22 Ratio	Shear33 Ratio
STORY3	C7	2IPE24E20PL300X30	0.519 = 0.124 + 0.005 + 0.390	0.005	0.032
STORY2	C7	2IPE24E20BOXPL300X30	0.309 = 0.096 + 0.005 + 0.208	0.001	0.029
STORY1	C7	2IPE27E20BOXPL300X30	0.446 = 0.108 + 0.003 + 0.334	0.003	0.026
ROOF	C8	2IPE22E20PL290X25	0.503 = 0.052 + 0.032 + 0.420	0.017	0.033
STORY5	C8	2IPE24E20PL270X30	0.565 = 0.070 + 0.011 + 0.484	0.010	0.031
STORY4	C8	2IPE27E20PL350X25	0.615 = 0.094 + 0.010 + 0.510	0.010	0.048
STORY3	C8	2IPE24E20PL300X30	0.642 = 0.128 + 0.008 + 0.506	0.008	0.043
STORY2	C8	2IPE24E20BOXPL300X30	0.466 = 0.099 + 0.009 + 0.358	0.002	0.050
STORY1	C8	2IPE27E20BOXPL300X30	0.544 = 0.110 + 0.005 + 0.429	0.003	0.033
SHARP-ROOF	C9	2IPE20E20PL250X15	0.119 = 0.019 + 0.001 + 0.098	0.004	0.005
ROOF	C9	2IPE20E20PL250X15	0.533 = 0.062 + 0.000 + 0.472	0.001	0.034
STORY5	C9	2IPE24E20PL270X30	0.567 = 0.067 + 0.000 + 0.499	0.001	0.032
STORY4	C9	2IPE27E20PL350X25	0.559 = 0.085 + 0.000 + 0.473	0.001	0.046
STORY3	C9	2IPE24E20PL300X30	0.605 = 0.110 + 0.000 + 0.495	0.000	0.041
STORY2	C9	2IPE24E20BOXPL300X30	0.442 = 0.084 + 0.001 + 0.358	0.000	0.050
STORY1	C9	2IPE27E20BOXPL300X30	0.522 = 0.091 + 0.000 + 0.432	0.002	0.034
SHARP-ROOF	C10	2IPE20E20PL250X15	0.118 = 0.019 + 0.001 + 0.098	0.004	0.005
ROOF	C10	2IPE20E20PL250X15	0.519 = 0.062 + 0.000 + 0.457	0.001	0.032
STORY5	C10	2IPE24E20PL270X30	0.549 = 0.066 + 0.000 + 0.483	0.000	0.031
STORY4	C10	2IPE27E20PL350X25	0.545 = 0.084 + 0.000 + 0.461	0.001	0.045
STORY3	C10	2IPE24E20PL300X30	0.599 = 0.109 + 0.000 + 0.490	0.000	0.040
STORY2	C10	2IPE24E20BOXPL300X30	0.435 = 0.083 + 0.000 + 0.352	0.000	0.049
STORY1	C10	2IPE27E20BOXPL300X30	0.522 = 0.090 + 0.000 + 0.431	0.002	0.034
ROOF	C11	2IPE22E20PL290X25	0.541 = 0.055 + 0.034 + 0.452	0.017	0.035
STORY5	C11	2IPE24E20PL270X30	0.568 = 0.072 + 0.011 + 0.485	0.010	0.031
STORY4	C11	2IPE27E20PL350X25	0.596 = 0.095 + 0.011 + 0.490	0.011	0.046
STORY3	C11	2IPE24E20PL300X30	0.643 = 0.127 + 0.009 + 0.507	0.009	0.042
STORY2	C11	2IPE24E20BOXPL300X30	0.457 = 0.101 + 0.009 + 0.347	0.002	0.049
STORY1	C11	2IPE27E20BOXPL300X30	0.550 = 0.113 + 0.006 + 0.431	0.003	0.033
ROOF	C12	2IPE20E20PL250X15	0.688 = 0.077 + 0.116 + 0.495	0.046	0.036
STORY5	C12	2IPE24E20PL270X30	0.580 = 0.088 + 0.046 + 0.446	0.034	0.029
STORY4	C12	2IPE27E20PL400X30	0.564 = 0.096 + 0.039 + 0.429	0.033	0.043
STORY3	C12	2IPE24E20PL300X30	0.685 = 0.153 + 0.038 + 0.494	0.029	0.040
STORY2	C12	2IPE24E20BOXPL300X30	0.521 = 0.125 + 0.041 + 0.355	0.007	0.050
STORY1	C12	2IPE27E20BOXPL300X30	0.601 = 0.139 + 0.027 + 0.435	0.006	0.033
ROOF	C13	2IPE20E20PL250X15	0.390 = 0.034 + 0.135 + 0.220	0.051	0.015
STORY5	C13	2IPE22E20PL250X20	0.410 = 0.059 + 0.079 + 0.272	0.040	0.017
STORY4	C13	2IPE24E20PL300X30	0.223 = 0.058 + 0.066 + 0.099	0.050	0.006
STORY3	C13	2IPE24E20PL300X30	0.379 = 0.100 + 0.048 + 0.231	0.039	0.018
STORY2	C13	2IPE24E20BOXPL300X30	0.196 = 0.083 + 0.079 + 0.034	0.013	0.009
STORY1	C13	2IPE27E20BOXPL300X30	0.333 = 0.098 + 0.055 + 0.180	0.009	0.014

Steel Column Design - Capacity Check Output

Story Level	Column Line	Section Name	Moment Interaction Check Ratio = AXL + B33 + B22	Shear22 Ratio	Shear33 Ratio
ROOF	C14	2IPE20E20PL250X15	0.482 = 0.036 + 0.014 + 0.432	0.007	0.031
STORY5	C14	2IPE22E20PL250X20	0.535 = 0.072 + 0.004 + 0.459	0.004	0.031
STORY4	C14	2IPE24E20PL300X30	0.370 = 0.078 + 0.005 + 0.286	0.005	0.024
STORY3	C14	2IPE24E20PL300X30	0.505 = 0.118 + 0.003 + 0.384	0.004	0.032
STORY2	C14	2IPE24E20BOXPL300X30	0.253 = 0.099 + 0.006 + 0.147	0.001	0.022
STORY1	C14	2IPE27E20BOXPL300X30	0.418 = 0.120 + 0.001 + 0.297	0.003	0.023
ROOF	C15	2IPE20E20PL250X15	0.469 = 0.030 + 0.012 + 0.427	0.006	0.030
STORY5	C15	2IPE22E20PL250X20	0.517 = 0.057 + 0.005 + 0.454	0.003	0.031
STORY4	C15	2IPE24E20PL300X30	0.345 = 0.069 + 0.003 + 0.273	0.004	0.024
STORY3	C15	2IPE24E20PL300X30	0.486 = 0.104 + 0.006 + 0.376	0.004	0.032
STORY2	C15	2IPE24E20BOXPL300X30	0.226 = 0.087 + 0.001 + 0.137	0.001	0.022
STORY1	C15	2IPE27E20BOXPL300X30	0.409 = 0.107 + 0.004 + 0.297	0.003	0.023
ROOF	C16	2IPE20E20PL250X15	0.463 = 0.032 + 0.012 + 0.419	0.006	0.030
STORY5	C16	2IPE22E20PL250X20	0.520 = 0.071 + 0.003 + 0.446	0.004	0.030
STORY4	C16	2IPE24E20PL300X30	0.353 = 0.077 + 0.004 + 0.271	0.005	0.023
STORY3	C16	2IPE24E20PL300X30	0.497 = 0.117 + 0.003 + 0.378	0.004	0.032
STORY2	C16	2IPE24E20BOXPL300X30	0.240 = 0.098 + 0.006 + 0.136	0.001	0.021
STORY1	C16	2IPE27E20BOXPL300X30	0.419 = 0.119 + 0.001 + 0.299	0.003	0.023
ROOF	C17	2IPE20E20PL250X15	0.534 = 0.045 + 0.023 + 0.466	0.010	0.032
STORY5	C17	2IPE22E20PL250X20	0.569 = 0.087 + 0.011 + 0.471	0.006	0.032
STORY4	C17	2IPE24E20PL300X30	0.367 = 0.091 + 0.006 + 0.269	0.008	0.022
STORY3	C17	2IPE24E20PL300X30	0.525 = 0.133 + 0.009 + 0.382	0.007	0.032
STORY2	C17	2IPE24E20BOXPL300X30	0.251 = 0.110 + 0.001 + 0.139	0.002	0.021
STORY1	C17	2IPE27E20BOXPL300X30	0.438 = 0.131 + 0.006 + 0.300	0.003	0.023
ROOF	C18	2IPE20E20PL250X15	0.507 = 0.048 + 0.058 + 0.402	0.025	0.027
STORY5	C18	2IPE22E20PL250X20	0.550 = 0.084 + 0.038 + 0.428	0.020	0.028
STORY4	C18	2IPE24E20PL300X30	0.374 = 0.087 + 0.023 + 0.264	0.020	0.022
STORY3	C18	2IPE24E20PL300X30	0.524 = 0.139 + 0.021 + 0.363	0.017	0.031
STORY2	C18	2IPE24E20BOXPL300X30	0.261 = 0.124 + 0.020 + 0.118	0.004	0.019
STORY1	C18	2IPE27E20BOXPL300X30	0.461 = 0.149 + 0.016 + 0.296	0.004	0.023

Steel Column Design - Special Seismic Requirements

Steel Column Design - Special Seismic Requirements

Story Level	Column Line	Section Name	Section Class	Cont. Plate Area	Dbl. Plate Thickness	B/C Ratio Major	B/C Ratio Minor
ROOF	C1	2IPE18E20PL185X20	Non-Compact				
STORY5	C1	2IPE20E20PL250X10	Non-Compact				
STORY4	C1	2IPE24E20PL300X30	Non-Compact				
STORY3	C1	2IPE20E20PL250X15	Non-Compact				
STORY2	C1	2IPE24E20BOXPL300X30	Non-Compact				
STORY1	C1	2IPE27E20BOXPL300X30	Non-Compact				
ROOF	C2	2IPE20E20PL250X15	Non-Compact				

Steel Column Design - Special Seismic Requirements

Story Level	Column Line	Section Name	Section Class	Cont. Plate Area	Dbl. Plate Thickness	B/C Ratio Major	B/C Ratio Minor
STORY5	C2	2IPE22E20PL250X20	Non-Compact				
STORY4	C2	2IPE24E20PL300X30	Non-Compact				
STORY3	C2	2IPE24E20PL300X30	Non-Compact				
STORY2	C2	2IPE24E20BOXPL300X30	Non-Compact				
STORY1	C2	2IPE27E20BOXPL300X30	Non-Compact				
SHARP-R OOF	C3	2IPE18E20PL250X15	Non-Compact				
ROOF	C3	2IPE18E20PL250X15	Non-Compact				
STORY5	C3	2IPE22E20PL250X20	Non-Compact				
STORY4	C3	2IPE24E20PL300X30	Non-Compact				
STORY3	C3	2IPE24E20PL300X30	Non-Compact				
STORY2	C3	2IPE24E20BOXPL300X30	Non-Compact				
STORY1	C3	2IPE27E20BOXPL300X30	Non-Compact				
SHARP-R OOF	C4	2IPE18E20PL250X15	Non-Compact				
ROOF	C4	2IPE18E20PL250X15	Non-Compact				
STORY5	C4	2IPE22E20PL250X20	Non-Compact				
STORY4	C4	2IPE24E20PL300X30	Non-Compact				
STORY3	C4	2IPE24E20PL300X30	Non-Compact				
STORY2	C4	2IPE24E20BOXPL300X30	Non-Compact				
STORY1	C4	2IPE27E20BOXPL300X30	Non-Compact				
ROOF	C5	2IPE20E20PL250X15	Non-Compact				
STORY5	C5	2IPE22E20PL250X20	Non-Compact				
STORY4	C5	2IPE24E20PL300X30	Non-Compact				
STORY3	C5	2IPE24E20PL300X30	Non-Compact				
STORY2	C5	2IPE24E20BOXPL300X30	Non-Compact				
STORY1	C5	2IPE27E20BOXPL300X30	Non-Compact				
ROOF	C6	2IPE24E20PL250X15	Non-Compact				
STORY5	C6	2IPE22E20PL290X25	Non-Compact				
STORY4	C6	2IPE24E20PL300X30	Non-Compact				
STORY3	C6	2IPE24E20PL300X30	Non-Compact				
STORY2	C6	2IPE24E20BOXPL300X30	Non-Compact				
STORY1	C6	2IPE27E20BOXPL300X30	Non-Compact				
ROOF	C7	2IPE20E20PL250X15	Non-Compact				
STORY5	C7	2IPE22E20PL250X20	Non-Compact				
STORY4	C7	2IPE24E20PL300X30	Non-Compact				
STORY3	C7	2IPE24E20PL300X30	Non-Compact				
STORY2	C7	2IPE24E20BOXPL300X30	Non-Compact				
STORY1	C7	2IPE27E20BOXPL300X30	Non-Compact				
ROOF	C8	2IPE22E20PL290X25	Non-Compact				
STORY5	C8	2IPE24E20PL270X30	Non-Compact				
STORY4	C8	2IPE27E20PL350X25	Non-Compact				
STORY3	C8	2IPE24E20PL300X30	Non-Compact				

Steel Column Design - Special Seismic Requirements

Story Level	Column Line	Section Name	Section Class	Cont. Plate Area	Dbl. Plate Thickness	B/C Ratio Major	B/C Ratio Minor
STORY2	C8	2IPE24E20BOXPL300X30	Non-Compact				
STORY1	C8	2IPE27E20BOXPL300X30	Non-Compact				
SHARP-R OOF	C9	2IPE20E20PL250X15	Non-Compact				
ROOF	C9	2IPE20E20PL250X15	Non-Compact				
STORY5	C9	2IPE24E20PL270X30	Non-Compact				
STORY4	C9	2IPE27E20PL350X25	Non-Compact				
STORY3	C9	2IPE24E20PL300X30	Non-Compact				
STORY2	C9	2IPE24E20BOXPL300X30	Non-Compact				
STORY1	C9	2IPE27E20BOXPL300X30	Non-Compact				
SHARP-R OOF	C10	2IPE20E20PL250X15	Non-Compact				
ROOF	C10	2IPE20E20PL250X15	Non-Compact				
STORY5	C10	2IPE24E20PL270X30	Non-Compact				
STORY4	C10	2IPE27E20PL350X25	Non-Compact				
STORY3	C10	2IPE24E20PL300X30	Non-Compact				
STORY2	C10	2IPE24E20BOXPL300X30	Non-Compact				
STORY1	C10	2IPE27E20BOXPL300X30	Non-Compact				
ROOF	C11	2IPE22E20PL290X25	Non-Compact				
STORY5	C11	2IPE24E20PL270X30	Non-Compact				
STORY4	C11	2IPE27E20PL350X25	Non-Compact				
STORY3	C11	2IPE24E20PL300X30	Non-Compact				
STORY2	C11	2IPE24E20BOXPL300X30	Non-Compact				
STORY1	C11	2IPE27E20BOXPL300X30	Non-Compact				
ROOF	C12	2IPE20E20PL250X15	Non-Compact				
STORY5	C12	2IPE24E20PL270X30	Non-Compact				
STORY4	C12	2IPE27E20PL400X30	Non-Compact				
STORY3	C12	2IPE24E20PL300X30	Non-Compact				
STORY2	C12	2IPE24E20BOXPL300X30	Non-Compact				
STORY1	C12	2IPE27E20BOXPL300X30	Non-Compact				
ROOF	C13	2IPE20E20PL250X15	Non-Compact				
STORY5	C13	2IPE22E20PL250X20	Non-Compact				
STORY4	C13	2IPE24E20PL300X30	Non-Compact				
STORY3	C13	2IPE24E20PL300X30	Non-Compact				
STORY2	C13	2IPE24E20BOXPL300X30	Non-Compact				
STORY1	C13	2IPE27E20BOXPL300X30	Non-Compact				
ROOF	C14	2IPE20E20PL250X15	Non-Compact				
STORY5	C14	2IPE22E20PL250X20	Non-Compact				
STORY4	C14	2IPE24E20PL300X30	Non-Compact				
STORY3	C14	2IPE24E20PL300X30	Non-Compact				
STORY2	C14	2IPE24E20BOXPL300X30	Non-Compact				
STORY1	C14	2IPE27E20BOXPL300X30	Non-Compact				
ROOF	C15	2IPE20E20PL250X15	Non-Compact				

Steel Column Design - Special Seismic Requirements

Story Level	Column Line	Section Name	Section Class	Cont. Plate Area	Dbl. Plate Thickness	B/C Ratio Major	B/C Ratio Minor
STORY5	C15	2IPE22E20PL250X20	Non-Compact				
STORY4	C15	2IPE24E20PL300X30	Non-Compact				
STORY3	C15	2IPE24E20PL300X30	Non-Compact				
STORY2	C15	2IPE24E20BOXPL300X30	Non-Compact				
STORY1	C15	2IPE27E20BOXPL300X30	Non-Compact				
ROOF	C16	2IPE20E20PL250X15	Non-Compact				
STORY5	C16	2IPE22E20PL250X20	Non-Compact				
STORY4	C16	2IPE24E20PL300X30	Non-Compact				
STORY3	C16	2IPE24E20PL300X30	Non-Compact				
STORY2	C16	2IPE24E20BOXPL300X30	Non-Compact				
STORY1	C16	2IPE27E20BOXPL300X30	Non-Compact				
ROOF	C17	2IPE20E20PL250X15	Non-Compact				
STORY5	C17	2IPE22E20PL250X20	Non-Compact				
STORY4	C17	2IPE24E20PL300X30	Non-Compact				
STORY3	C17	2IPE24E20PL300X30	Non-Compact				
STORY2	C17	2IPE24E20BOXPL300X30	Non-Compact				
STORY1	C17	2IPE27E20BOXPL300X30	Non-Compact				
ROOF	C18	2IPE20E20PL250X15	Non-Compact				
STORY5	C18	2IPE22E20PL250X20	Non-Compact				
STORY4	C18	2IPE24E20PL300X30	Non-Compact				
STORY3	C18	2IPE24E20PL300X30	Non-Compact				
STORY2	C18	2IPE24E20BOXPL300X30	Non-Compact				
STORY1	C18	2IPE27E20BOXPL300X30	Non-Compact				

Steel Beam Design - Capacity Check Output

Steel Beam Design - Capacity Check Output

Story Level	Beam Bay	Section Name	Moment Interaction Check Ratio = AXL + B33 + B22	Shear22 Ratio	Shear33 Ratio
ROOF	B1	IPE120	2.657 = 0.000 + 2.657 + 0.000	0.608	0.000
STORY5	B1	IPE140	2.143 = 0.000 + 2.143 + 0.000	0.579	0.000
STORY4	B1	2IPE22E11PL180X20	0.149 = 0.000 + 0.149 + 0.000	0.127	0.000
STORY3	B1	2IPE22E11PL180X20	0.153 = 0.000 + 0.153 + 0.000	0.128	0.000
STORY2	B1	2IPE22E11PL180X20	0.149 = 0.000 + 0.149 + 0.000	0.127	0.000
STORY1	B1	2IPE24E12PL200X20	0.112 = 0.000 + 0.112 + 0.000	0.106	0.000
ROOF	B2	IPE140	0.287 = 0.000 + 0.287 + 0.000	0.080	0.000
STORY5	B2	IPE140	0.548 = 0.000 + 0.548 + 0.000	0.155	0.000
STORY4	B2	2IPE22E11PL180X20	0.042 = 0.000 + 0.042 + 0.000	0.037	0.000
STORY3	B2	2IPE22E11PL180X20	0.042 = 0.000 + 0.042 + 0.000	0.037	0.000
STORY2	B2	2IPE22E11PL180X20	0.042 = 0.000 + 0.042 + 0.000	0.037	0.000
STORY1	B2	2IPE24E12PL200X20	0.034 = 0.000 + 0.034 + 0.000	0.033	0.000
ROOF	B3	IPE180	0.138 = 0.000 + 0.138 + 0.000	0.053	0.000
STORY5	B3	IPE160	0.347 = 0.000 + 0.347 + 0.000	0.121	0.000
STORY4	B3	2IPE22E11PL180X20	0.037 = 0.000 + 0.037 + 0.000	0.035	0.000
STORY3	B3	2IPE22E11PL180X20	0.037 = 0.000 + 0.037 + 0.000	0.035	0.000

Steel Beam Design - Capacity Check Output

Story Level	Beam Bay	Section Name	Moment Interaction Check Ratio = AXL + B33 + B22	Shear22 Ratio	Shear33 Ratio
STORY2	B3	2IPE22E11PL180X20	0.037 = 0.000 + 0.037 + 0.000	0.035	0.000
STORY1	B3	2IPE24E12PL200X20	0.030 = 0.000 + 0.030 + 0.000	0.031	0.000
ROOF	B4	IPE140	0.287 = 0.000 + 0.287 + 0.000	0.080	0.000
STORY5	B4	IPE140	0.548 = 0.000 + 0.548 + 0.000	0.155	0.000
STORY4	B4	2IPE22E11PL180X20	0.042 = 0.000 + 0.042 + 0.000	0.037	0.000
STORY3	B4	2IPE22E11PL180X20	0.042 = 0.000 + 0.042 + 0.000	0.037	0.000
STORY2	B4	2IPE22E11PL180X20	0.042 = 0.000 + 0.042 + 0.000	0.037	0.000
STORY1	B4	2IPE24E12PL200X20	0.034 = 0.000 + 0.034 + 0.000	0.033	0.000
ROOF	B5	IPE140	3.957 = 0.000 + 3.957 + 0.000	0.724	0.000
STORY5	B5	IPE160	3.361 = 0.000 + 3.361 + 0.000	0.712	0.000
STORY4	B5	2IPE22E11PL180X20	0.332 = 0.000 + 0.332 + 0.000	0.190	0.000
STORY3	B5	2IPE22E11PL180X20	0.332 = 0.000 + 0.332 + 0.000	0.190	0.000
STORY2	B5	2IPE22E11PL180X20	0.332 = 0.000 + 0.332 + 0.000	0.190	0.000
STORY1	B5	2IPE24E12PL200X20	0.252 = 0.000 + 0.252 + 0.000	0.160	0.000
ROOF	B6	2IPE18E9PL140X20	0.002 = 0.000 + 0.002 + 0.000	0.006	0.000
STORY5	B6	IPE200	0.013 = 0.000 + 0.013 + 0.000	0.023	0.000
STORY4	B6	2IPE22E11PL180X20	0.002 = 0.000 + 0.002 + 0.000	0.009	0.000
STORY3	B6	2IPE22E11PL180X20	0.002 = 0.000 + 0.002 + 0.000	0.009	0.000
STORY2	B6	2IPE22E11PL180X20	0.002 = 0.000 + 0.002 + 0.000	0.009	0.000
STORY1	B6	2IPE24E12PL200X20	0.002 = 0.000 + 0.002 + 0.000	0.008	0.000
ROOF	B7	IPE270	0.433 = 0.000 + 0.433 + 0.000	0.188	0.000
STORY5	B7	IPE300	0.565 = 0.000 + 0.565 + 0.000	0.240	0.000
STORY4	B7	2IPE22E11PL180X10	0.559 = 0.000 + 0.559 + 0.000	0.213	0.000
STORY3	B7	2IPE22E11PL180X10	0.606 = 0.000 + 0.606 + 0.000	0.232	0.000
STORY2	B7	2IPE22E11PL180X20	0.492 = 0.000 + 0.492 + 0.000	0.229	0.000
STORY1	B7	2IPE24E12PL200X20	0.554 = 0.000 + 0.554 + 0.000	0.258	0.000
ROOF	B8	IPE240	0.304 = 0.000 + 0.304 + 0.000	0.154	0.000
STORY5	B8	2IPE18E9PL140X20	0.149 = 0.000 + 0.149 + 0.000	0.101	0.000
STORY4	B8	2IPE22E11PL180X20	0.093 = 0.000 + 0.093 + 0.000	0.078	0.000
STORY3	B8	2IPE22E11PL180X20	0.093 = 0.000 + 0.093 + 0.000	0.078	0.000
STORY2	B8	2IPE22E11PL180X20	0.093 = 0.000 + 0.093 + 0.000	0.078	0.000
STORY1	B8	2IPE24E12PL200X20	0.076 = 0.000 + 0.076 + 0.000	0.070	0.000
ROOF	B9	IPE300	0.517 = 0.000 + 0.517 + 0.000	0.171	0.000
STORY5	B9	2IPE18E20PL250X15	0.539 = 0.000 + 0.539 + 0.000	0.202	0.000
STORY4	B9	2IPE24E12PL200X20	0.554 = 0.000 + 0.554 + 0.000	0.195	0.000
STORY3	B9	2IPE24E12PL220X25	0.572 = 0.000 + 0.572 + 0.000	0.222	0.000
STORY2	B9	2IPE24E12PL220X25	0.628 = 0.000 + 0.628 + 0.000	0.241	0.000
STORY1	B9	2IPE27E13PL260X30	0.651 = 0.000 + 0.651 + 0.000	0.285	0.000
SHARP-ROOF	B10	IPE120	0.722 = 0.000 + 0.722 + 0.000	0.064	0.000
ROOF	B10	IPE300	0.542 = 0.000 + 0.542 + 0.000	0.228	0.000
STORY5	B10	2IPE18E20PL250X15	0.589 = 0.000 + 0.589 + 0.000	0.270	0.000
STORY4	B10	2IPE24E12PL200X20	0.576 = 0.000 + 0.576 + 0.000	0.225	0.000
STORY3	B10	2IPE24E12PL200X20	0.637 = 0.000 + 0.637 + 0.000	0.236	0.000
STORY2	B10	2IPE24E12PL220X25	0.649 = 0.000 + 0.649 + 0.000	0.270	0.000
STORY1	B10	2IPE27E13PL260X30	0.667 = 0.000 + 0.667 + 0.000	0.308	0.000
SHARP-ROOF	B11	IPE120	0.724 = 0.000 + 0.724 + 0.000	0.064	0.000
ROOF	B11	IPE300	0.532 = 0.000 + 0.532 + 0.000	0.226	0.000

Steel Beam Design - Capacity Check Output

Story Level	Beam Bay	Section Name	Moment Interaction Check Ratio = AXL + B33 + B22	Shear22 Ratio	Shear33 Ratio
STORY5	B11	2IPE18E9PL140X20	0.665 = 0.000 + 0.665 + 0.000	0.254	0.000
STORY4	B11	2IPE24E12PL200X20	0.563 = 0.000 + 0.563 + 0.000	0.223	0.000
STORY3	B11	2IPE24E12PL200X20	0.629 = 0.000 + 0.629 + 0.000	0.234	0.000
STORY2	B11	2IPE24E12PL220X25	0.642 = 0.000 + 0.642 + 0.000	0.268	0.000
STORY1	B11	2IPE27E13PL260X30	0.662 = 0.000 + 0.662 + 0.000	0.307	0.000
ROOF	B12	2IPE18E20PL250X15	0.357 = 0.000 + 0.357 + 0.000	0.168	0.000
STORY5	B12	2IPE18E20PL250X15	0.524 = 0.000 + 0.524 + 0.000	0.198	0.000
STORY4	B12	2IPE24E12PL200X20	0.537 = 0.000 + 0.537 + 0.000	0.192	0.000
STORY3	B12	2IPE24E12PL220X25	0.558 = 0.000 + 0.558 + 0.000	0.218	0.000
STORY2	B12	2IPE24E12PL220X25	0.616 = 0.000 + 0.616 + 0.000	0.237	0.000
STORY1	B12	2IPE27E13PL260X30	0.644 = 0.000 + 0.644 + 0.000	0.283	0.000
ROOF	B13	IPE300	0.484 = 0.000 + 0.484 + 0.000	0.148	0.000
STORY5	B13	2IPE18E20PL250X15	0.473 = 0.000 + 0.473 + 0.000	0.138	0.000
STORY4	B13	2IPE24E12PL200X20	0.517 = 0.000 + 0.517 + 0.000	0.159	0.000
STORY3	B13	2IPE24E12PL220X25	0.551 = 0.000 + 0.551 + 0.000	0.188	0.000
STORY2	B13	2IPE24E12PL220X25	0.592 = 0.000 + 0.592 + 0.000	0.202	0.000
STORY1	B13	2IPE27E13PL260X30	0.633 = 0.000 + 0.633 + 0.000	0.255	0.000
ROOF	B14	IPE200	0.779 = 0.000 + 0.779 + 0.000	0.173	0.000
STORY5	B14	IPE240	0.753 = 0.000 + 0.753 + 0.000	0.210	0.000
STORY4	B14	2IPE22E11PL180X10	0.326 = 0.000 + 0.326 + 0.000	0.116	0.000
STORY3	B14	2IPE22E11PL180X10	0.326 = 0.000 + 0.326 + 0.000	0.116	0.000
STORY2	B14	2IPE22E11PL180X20	0.234 = 0.000 + 0.234 + 0.000	0.109	0.000
STORY1	B14	2IPE24E12PL200X20	0.188 = 0.000 + 0.188 + 0.000	0.096	0.000
ROOF	B15	IPE270	0.487 = 0.000 + 0.487 + 0.000	0.102	0.000
STORY5	B15	IPE300	0.704 = 0.000 + 0.704 + 0.000	0.163	0.000
STORY4	B15	2IPE22E11PL180X20	0.516 = 0.000 + 0.516 + 0.000	0.157	0.000
STORY3	B15	2IPE24E12PL200X20	0.532 = 0.000 + 0.532 + 0.000	0.159	0.000
STORY2	B15	2IPE24E12PL200X20	0.564 = 0.000 + 0.564 + 0.000	0.168	0.000
STORY1	B15	2IPE27E13PL240X25	0.567 = 0.000 + 0.567 + 0.000	0.190	0.000
ROOF	B16	IPE270	1.116 = 0.000 + 1.116 + 0.000	0.436	0.000
STORY5	B16	IPE300	0.875 = 0.000 + 0.875 + 0.000	0.375	0.000
STORY4	B16	2IPE22E11PL180X20	0.439 = 0.000 + 0.439 + 0.000	0.263	0.000
STORY3	B16	2IPE22E11PL180X20	0.441 = 0.000 + 0.441 + 0.000	0.264	0.000
STORY2	B16	2IPE22E11PL180X20	0.441 = 0.000 + 0.441 + 0.000	0.264	0.000
STORY1	B16	2IPE24E12PL200X20	0.327 = 0.000 + 0.327 + 0.000	0.216	0.000
ROOF	B17	IPE180	0.008 = 0.000 + 0.008 + 0.000	0.003	0.000
STORY5	B17	IPE160	0.008 = 0.000 + 0.008 + 0.000	0.003	0.000
STORY4	B17	2IPE22E11PL180X20	0.006 = 0.000 + 0.006 + 0.000	0.005	0.000
STORY3	B17	2IPE22E11PL180X20	0.006 = 0.000 + 0.006 + 0.000	0.005	0.000
STORY2	B17	2IPE22E11PL180X20	0.006 = 0.000 + 0.006 + 0.000	0.005	0.000
STORY1	B17	2IPE24E12PL200X20	0.005 = 0.000 + 0.005 + 0.000	0.005	0.000
ROOF	B18	IPE220	0.391 = 0.000 + 0.391 + 0.000	0.176	0.000
STORY5	B18	IPE200	0.505 = 0.000 + 0.505 + 0.000	0.204	0.000
STORY4	B18	2IPE22E11PL180X20	0.093 = 0.000 + 0.093 + 0.000	0.078	0.000
STORY3	B18	2IPE22E11PL180X20	0.093 = 0.000 + 0.093 + 0.000	0.078	0.000
STORY2	B18	2IPE22E11PL180X20	0.093 = 0.000 + 0.093 + 0.000	0.078	0.000
STORY1	B18	2IPE24E12PL200X20	0.076 = 0.000 + 0.076 + 0.000	0.070	0.000
ROOF	B19	IPE160	0.009 = 0.000 + 0.009 + 0.000	0.003	0.000

Steel Beam Design - Capacity Check Output

Story Level	Beam Bay	Section Name	Moment Interaction Check Ratio = AXL + B33 + B22	Shear22 Ratio	Shear33 Ratio
STORY5	B19	IPE160	0.008 = 0.000 + 0.008 + 0.000	0.003	0.000
STORY4	B19	2IPE22E11PL180X20	0.006 = 0.000 + 0.006 + 0.000	0.005	0.000
STORY3	B19	2IPE22E11PL180X20	0.006 = 0.000 + 0.006 + 0.000	0.005	0.000
STORY2	B19	2IPE22E11PL180X20	0.006 = 0.000 + 0.006 + 0.000	0.005	0.000
STORY1	B19	2IPE24E12PL200X20	0.005 = 0.000 + 0.005 + 0.000	0.005	0.000
ROOF	B20	IPE160	4.847 = 0.000 + 4.847 + 0.000	1.023	0.000
STORY5	B20	IPE160	4.886 = 0.000 + 4.886 + 0.000	1.046	0.000
STORY4	B20	2IPE22E11PL180X20	0.482 = 0.000 + 0.482 + 0.000	0.278	0.000
STORY3	B20	2IPE22E11PL180X20	0.488 = 0.000 + 0.488 + 0.000	0.279	0.000
STORY2	B20	2IPE22E11PL180X20	0.488 = 0.000 + 0.488 + 0.000	0.279	0.000
STORY1	B20	2IPE24E12PL200X20	0.362 = 0.000 + 0.362 + 0.000	0.229	0.000
ROOF	B21	2IPE18E9PL140X20	0.000 = 0.000 + 0.000 + 0.000	0.001	0.000
STORY5	B21	IPE240	0.000 = 0.000 + 0.000 + 0.000	0.001	0.000
STORY4	B21	2IPE22E11PL180X20	0.000 = 0.000 + 0.000 + 0.000	0.001	0.000
STORY3	B21	2IPE22E11PL180X20	0.000 = 0.000 + 0.000 + 0.000	0.001	0.000
STORY2	B21	2IPE22E11PL180X20	0.000 = 0.000 + 0.000 + 0.000	0.001	0.000
STORY1	B21	2IPE24E12PL200X20	0.000 = 0.000 + 0.000 + 0.000	0.001	0.000
ROOF	B22	IPE270	0.468 = 0.000 + 0.468 + 0.000	0.101	0.000
STORY5	B22	IPE300	0.681 = 0.000 + 0.681 + 0.000	0.162	0.000
STORY4	B22	2IPE22E11PL180X20	0.499 = 0.000 + 0.499 + 0.000	0.153	0.000
STORY3	B22	2IPE22E11PL180X20	0.544 = 0.000 + 0.544 + 0.000	0.161	0.000
STORY2	B22	2IPE24E12PL200X20	0.553 = 0.000 + 0.553 + 0.000	0.163	0.000
STORY1	B22	2IPE27E13PL240X25	0.548 = 0.000 + 0.548 + 0.000	0.180	0.000
ROOF	B23	IPE300	0.520 = 0.000 + 0.520 + 0.000	0.173	0.000
STORY5	B23	2IPE18E20PL250X15	0.545 = 0.000 + 0.545 + 0.000	0.199	0.000
STORY4	B23	2IPE24E12PL200X20	0.554 = 0.000 + 0.554 + 0.000	0.188	0.000
STORY3	B23	2IPE24E12PL220X25	0.567 = 0.000 + 0.567 + 0.000	0.211	0.000
STORY2	B23	2IPE24E12PL220X25	0.617 = 0.000 + 0.617 + 0.000	0.228	0.000
STORY1	B23	2IPE27E13PL260X30	0.638 = 0.000 + 0.638 + 0.000	0.265	0.000
ROOF	B24	IPE300	0.499 = 0.000 + 0.499 + 0.000	0.171	0.000
STORY5	B24	2IPE18E20PL250X15	0.535 = 0.000 + 0.535 + 0.000	0.198	0.000
STORY4	B24	2IPE24E12PL200X20	0.545 = 0.000 + 0.545 + 0.000	0.185	0.000
STORY3	B24	2IPE24E12PL220X25	0.564 = 0.000 + 0.564 + 0.000	0.212	0.000
STORY2	B24	2IPE24E12PL220X25	0.610 = 0.000 + 0.610 + 0.000	0.225	0.000
STORY1	B24	2IPE27E13PL260X30	0.633 = 0.000 + 0.633 + 0.000	0.265	0.000
ROOF	B25	IPE300	0.491 = 0.000 + 0.491 + 0.000	0.170	0.000
STORY5	B25	2IPE18E20PL250X15	0.530 = 0.000 + 0.530 + 0.000	0.198	0.000
STORY4	B25	2IPE24E12PL200X20	0.533 = 0.000 + 0.533 + 0.000	0.182	0.000
STORY3	B25	2IPE24E12PL220X25	0.554 = 0.000 + 0.554 + 0.000	0.210	0.000
STORY2	B25	2IPE24E12PL220X25	0.602 = 0.000 + 0.602 + 0.000	0.223	0.000
STORY1	B25	2IPE27E13PL260X30	0.628 = 0.000 + 0.628 + 0.000	0.263	0.000
ROOF	B26	2IPE18E20PL250X15	0.362 = 0.000 + 0.362 + 0.000	0.171	0.000
STORY5	B26	2IPE18E20PL250X20	0.511 = 0.000 + 0.511 + 0.000	0.199	0.000
STORY4	B26	2IPE24E12PL200X20	0.538 = 0.000 + 0.538 + 0.000	0.184	0.000
STORY3	B26	2IPE24E12PL220X25	0.551 = 0.000 + 0.551 + 0.000	0.207	0.000
STORY2	B26	2IPE24E12PL220X25	0.605 = 0.000 + 0.605 + 0.000	0.224	0.000
STORY1	B26	2IPE27E13PL260X30	0.630 = 0.000 + 0.630 + 0.000	0.263	0.000
ROOF	B27	IPE300	0.455 = 0.000 + 0.455 + 0.000	0.144	0.000

Steel Beam Design - Capacity Check Output

Story Level	Beam Bay	Section Name	Moment Interaction Check Ratio = AXL + B33 + B22	Shear22 Ratio	Shear33 Ratio
STORY5	B27	2IPE18E20PL250X15	0.468 = 0.000 + 0.468 + 0.000	0.132	0.000
STORY4	B27	2IPE24E12PL200X20	0.512 = 0.000 + 0.512 + 0.000	0.150	0.000
STORY3	B27	2IPE24E12PL220X25	0.536 = 0.000 + 0.536 + 0.000	0.175	0.000
STORY2	B27	2IPE24E12PL220X25	0.575 = 0.000 + 0.575 + 0.000	0.187	0.000
STORY1	B27	2IPE27E13PL260X30	0.616 = 0.000 + 0.616 + 0.000	0.236	0.000
ROOF	B28	IPE200	0.872 = 0.000 + 0.872 + 0.000	0.183	0.000
STORY5	B28	IPE240	0.843 = 0.000 + 0.843 + 0.000	0.222	0.000
STORY4	B28	2IPE22E11PL180X10	0.365 = 0.000 + 0.365 + 0.000	0.123	0.000
STORY3	B28	2IPE22E11PL180X10	0.365 = 0.000 + 0.365 + 0.000	0.123	0.000
STORY2	B28	2IPE22E11PL180X20	0.262 = 0.000 + 0.262 + 0.000	0.115	0.000
STORY1	B28	2IPE24E12PL200X20	0.210 = 0.000 + 0.210 + 0.000	0.101	0.000
ROOF	B29	IPE270	0.453 = 0.000 + 0.453 + 0.000	0.197	0.000
STORY5	B29	IPE300	0.563 = 0.000 + 0.563 + 0.000	0.246	0.000
STORY4	B29	2IPE22E11PL180X10	0.558 = 0.000 + 0.558 + 0.000	0.214	0.000
STORY3	B29	2IPE22E11PL180X10	0.590 = 0.000 + 0.590 + 0.000	0.221	0.000
STORY2	B29	2IPE22E11PL180X20	0.496 = 0.000 + 0.496 + 0.000	0.229	0.000
STORY1	B29	2IPE24E12PL200X20	0.539 = 0.000 + 0.539 + 0.000	0.250	0.000
ROOF	B30	IPE160	1.357 = 0.000 + 1.357 + 0.000	0.421	0.000
STORY5	B30	IPE160	1.579 = 0.000 + 1.579 + 0.000	0.495	0.000
STORY4	B30	2IPE22E11PL180X20	0.155 = 0.000 + 0.155 + 0.000	0.132	0.000
STORY3	B30	2IPE22E11PL180X20	0.155 = 0.000 + 0.155 + 0.000	0.132	0.000
STORY2	B30	2IPE22E11PL180X20	0.155 = 0.000 + 0.155 + 0.000	0.132	0.000
STORY1	B30	2IPE24E12PL200X20	0.117 = 0.000 + 0.117 + 0.000	0.110	0.000
ROOF	B31	IPE180	0.153 = 0.000 + 0.153 + 0.000	0.056	0.000
STORY5	B31	IPE200	0.221 = 0.000 + 0.221 + 0.000	0.092	0.000
STORY4	B31	2IPE22E11PL180X20	0.042 = 0.000 + 0.042 + 0.000	0.037	0.000
STORY3	B31	2IPE22E11PL180X20	0.042 = 0.000 + 0.042 + 0.000	0.037	0.000
STORY2	B31	2IPE22E11PL180X20	0.042 = 0.000 + 0.042 + 0.000	0.037	0.000
STORY1	B31	2IPE24E12PL200X20	0.034 = 0.000 + 0.034 + 0.000	0.033	0.000
ROOF	B32	IPE140	1.554 = 0.000 + 1.554 + 0.000	0.462	0.000
STORY5	B32	IPE160	1.285 = 0.000 + 1.285 + 0.000	0.446	0.000
STORY4	B32	2IPE22E11PL180X20	0.126 = 0.000 + 0.126 + 0.000	0.119	0.000
STORY3	B32	2IPE22E11PL180X20	0.126 = 0.000 + 0.126 + 0.000	0.119	0.000
STORY2	B32	2IPE22E11PL180X20	0.126 = 0.000 + 0.126 + 0.000	0.119	0.000
STORY1	B32	2IPE24E12PL200X20	0.094 = 0.000 + 0.094 + 0.000	0.099	0.000
ROOF	B33	IPE180	0.153 = 0.000 + 0.153 + 0.000	0.056	0.000
STORY5	B33	IPE200	0.221 = 0.000 + 0.221 + 0.000	0.092	0.000
STORY4	B33	2IPE22E11PL180X20	0.042 = 0.000 + 0.042 + 0.000	0.037	0.000
STORY3	B33	2IPE22E11PL180X20	0.042 = 0.000 + 0.042 + 0.000	0.037	0.000
STORY2	B33	2IPE22E11PL180X20	0.042 = 0.000 + 0.042 + 0.000	0.037	0.000
STORY1	B33	2IPE24E12PL200X20	0.034 = 0.000 + 0.034 + 0.000	0.033	0.000
ROOF	B34	IPE140	4.185 = 0.000 + 4.185 + 0.000	0.762	0.000
STORY5	B34	IPE160	3.492 = 0.000 + 3.492 + 0.000	0.740	0.000
STORY4	B34	2IPE22E11PL180X20	0.346 = 0.000 + 0.346 + 0.000	0.198	0.000
STORY3	B34	2IPE22E11PL180X20	0.346 = 0.000 + 0.346 + 0.000	0.198	0.000
STORY2	B34	2IPE22E11PL180X20	0.346 = 0.000 + 0.346 + 0.000	0.198	0.000
STORY1	B34	2IPE24E12PL200X20	0.262 = 0.000 + 0.262 + 0.000	0.166	0.000
ROOF	B35	2IPE18E9PL140X20	0.002 = 0.000 + 0.002 + 0.000	0.007	0.000

Steel Beam Design - Capacity Check Output

Story Level	Beam Bay	Section Name	Moment Interaction Check Ratio = AXL + B33 + B22	Shear22 Ratio	Shear33 Ratio
STORY5	B35	IPE200	0.013 = 0.000 + 0.013 + 0.000	0.023	0.000
STORY4	B35	2IPE22E11PL180X20	0.002 = 0.000 + 0.002 + 0.000	0.009	0.000
STORY3	B35	2IPE22E11PL180X20	0.002 = 0.000 + 0.002 + 0.000	0.009	0.000
STORY2	B35	2IPE22E11PL180X20	0.002 = 0.000 + 0.002 + 0.000	0.009	0.000
STORY1	B35	2IPE24E12PL200X20	0.002 = 0.000 + 0.002 + 0.000	0.008	0.000
SHARP-R OOF	B36	IPE200	0.076 = 0.000 + 0.076 + 0.000	0.031	0.000

Steel Beam Design - Special Seismic Requirements

Steel Beam Design - Special Seismic Requirements

Story Level	Beam Bay	Section Name	Section Class	Connection Shear End-I	Connection Shear End-J
ROOF	B1	IPE120	Seismic	-3082.25	3082.25
STORY5	B1	IPE140	Seismic	-3656.20	3656.20
STORY4	B1	2IPE22E11PL180X20	Non-Compact	-3727.98	3727.98
STORY3	B1	2IPE22E11PL180X20	Non-Compact	-3774.25	3774.25
STORY2	B1	2IPE22E11PL180X20	Non-Compact	-3727.98	3727.98
STORY1	B1	2IPE24E12PL200X20	Non-Compact	-3528.22	3528.22
ROOF	B2	IPE140	Seismic	-505.78	505.78
STORY5	B2	IPE140	Seismic	-979.38	979.38
STORY4	B2	2IPE22E11PL180X20	Non-Compact	-1094.79	1094.79
STORY3	B2	2IPE22E11PL180X20	Non-Compact	-1094.79	1094.79
STORY2	B2	2IPE22E11PL180X20	Non-Compact	-1094.79	1094.79
STORY1	B2	2IPE24E12PL200X20	Non-Compact	-1102.96	1102.96
ROOF	B3	IPE180	Seismic	-486.24	486.24
STORY5	B3	IPE160	Seismic	-925.93	925.93
STORY4	B3	2IPE22E11PL180X20	Non-Compact	-1029.92	1029.92
STORY3	B3	2IPE22E11PL180X20	Non-Compact	-1029.92	1029.92
STORY2	B3	2IPE22E11PL180X20	Non-Compact	-1029.92	1029.92
STORY1	B3	2IPE24E12PL200X20	Non-Compact	-1036.86	1036.86
ROOF	B4	IPE140	Seismic	-505.78	505.78
STORY5	B4	IPE140	Seismic	-979.38	979.38
STORY4	B4	2IPE22E11PL180X20	Non-Compact	-1094.79	1094.79
STORY3	B4	2IPE22E11PL180X20	Non-Compact	-1094.79	1094.79
STORY2	B4	2IPE22E11PL180X20	Non-Compact	-1094.79	1094.79
STORY1	B4	2IPE24E12PL200X20	Non-Compact	-1102.96	1102.96
ROOF	B5	IPE140	Seismic	-4572.87	4572.87
STORY5	B5	IPE160	Seismic	-5465.04	5465.04
STORY4	B5	2IPE22E11PL180X20	Non-Compact	-5605.19	5605.19
STORY3	B5	2IPE22E11PL180X20	Non-Compact	-5605.19	5605.19
STORY2	B5	2IPE22E11PL180X20	Non-Compact	-5605.19	5605.19
STORY1	B5	2IPE24E12PL200X20	Non-Compact	-5323.94	5323.94
ROOF	B6	2IPE18E9PL140X20	Non-Compact	-143.80	
STORY5	B6	IPE200	Seismic	-244.48	
STORY4	B6	2IPE22E11PL180X20	Non-Compact	-263.56	
STORY3	B6	2IPE22E11PL180X20	Non-Compact	-263.56	
STORY2	B6	2IPE22E11PL180X20	Non-Compact	-263.56	
STORY1	B6	2IPE24E12PL200X20	Non-Compact	-262.31	

Steel Beam Design - Special Seismic Requirements

Story Level	Beam Bay	Section Name	Section Class	Connection Shear End-I	Connection Shear End-J
ROOF	B7	IPE270	Seismic		3220.07
STORY5	B7	IPE300	Seismic		4899.43
STORY4	B7	2IPE22E11PL180X10	Non-Compact		5722.36
STORY3	B7	2IPE22E11PL180X10	Non-Compact		6237.42
STORY2	B7	2IPE22E11PL180X20	Non-Compact		6745.12
STORY1	B7	2IPE24E12PL200X20	Non-Compact		8611.86
ROOF	B8	IPE240	Seismic	-2201.98	2201.98
STORY5	B8	2IPE18E9PL140X20	Non-Compact	-2274.11	2274.11
STORY4	B8	2IPE22E11PL180X20	Non-Compact	-2313.12	2313.12
STORY3	B8	2IPE22E11PL180X20	Non-Compact	-2313.12	2313.12
STORY2	B8	2IPE22E11PL180X20	Non-Compact	-2313.12	2313.12
STORY1	B8	2IPE24E12PL200X20	Non-Compact	-2334.75	2334.75
ROOF	B9	IPE300	Seismic	-3500.92	3199.01
STORY5	B9	2IPE18E20PL250X15	Non-Compact	-4442.44	4365.46
STORY4	B9	2IPE24E12PL200X20	Non-Compact	-6513.89	6471.64
STORY3	B9	2IPE24E12PL220X25	Non-Compact	-7750.20	7668.06
STORY2	B9	2IPE24E12PL220X25	Non-Compact	-8407.57	8371.45
STORY1	B9	2IPE27E13PL260X30	Non-Compact	-12142.29	12020.07
SHARP-ROOF	B10	IPE120	Seismic	-129.36	325.24
ROOF	B10	IPE300	Seismic	-3856.50	4660.76
STORY5	B10	2IPE18E20PL250X15	Non-Compact	-4809.58	5933.71
STORY4	B10	2IPE24E12PL200X20	Non-Compact	-6713.32	7512.24
STORY3	B10	2IPE24E12PL200X20	Non-Compact	-7102.26	7877.21
STORY2	B10	2IPE24E12PL220X25	Non-Compact	-8601.93	9439.15
STORY1	B10	2IPE27E13PL260X30	Non-Compact	-12388.96	13126.64
SHARP-ROOF	B11	IPE120	Seismic	-128.36	323.84
ROOF	B11	IPE300	Seismic	-3825.99	4626.68
STORY5	B11	2IPE18E9PL140X20	Non-Compact	-4534.68	5694.05
STORY4	B11	2IPE24E12PL200X20	Non-Compact	-6602.68	7430.80
STORY3	B11	2IPE24E12PL200X20	Non-Compact	-7028.82	7798.63
STORY2	B11	2IPE24E12PL220X25	Non-Compact	-8527.17	9355.82
STORY1	B11	2IPE27E13PL260X30	Non-Compact	-12316.51	13045.46
ROOF	B12	2IPE18E20PL250X15	Non-Compact	-3701.99	3299.56
STORY5	B12	2IPE18E20PL250X15	Non-Compact	-4357.00	4264.13
STORY4	B12	2IPE24E12PL200X20	Non-Compact	-6384.56	6330.90
STORY3	B12	2IPE24E12PL220X25	Non-Compact	-7622.16	7522.25
STORY2	B12	2IPE24E12PL220X25	Non-Compact	-8300.44	8240.91
STORY1	B12	2IPE27E13PL260X30	Non-Compact	-12038.22	11893.50
ROOF	B13	IPE300	Seismic	-3020.09	2842.94
STORY5	B13	2IPE18E20PL250X15	Non-Compact	-2943.02	3041.22
STORY4	B13	2IPE24E12PL200X20	Non-Compact	-5184.85	5312.96
STORY3	B13	2IPE24E12PL220X25	Non-Compact	-6429.14	6578.17
STORY2	B13	2IPE24E12PL220X25	Non-Compact	-6959.58	7045.97
STORY1	B13	2IPE27E13PL260X30	Non-Compact	-10865.50	10870.61
ROOF	B14	IPE200	Seismic		
STORY5	B14	IPE240	Seismic		
STORY4	B14	2IPE22E11PL180X10	Non-Compact		

Steel Beam Design - Special Seismic Requirements

Story Level	Beam Bay	Section Name	Section Class	Connection Shear End-I	Connection Shear End-J
STORY3	B14	2IPE22E11PL180X10	Non-Compact		
STORY2	B14	2IPE22E11PL180X20	Non-Compact		
STORY1	B14	2IPE24E12PL200X20	Non-Compact		
ROOF	B15	IPE270	Seismic	-1745.48	
STORY5	B15	IPE300	Seismic	-3325.59	
STORY4	B15	2IPE22E11PL180X20	Non-Compact	-4626.02	
STORY3	B15	2IPE24E12PL200X20	Non-Compact	-5311.36	
STORY2	B15	2IPE24E12PL200X20	Non-Compact	-5582.51	
STORY1	B15	2IPE27E13PL240X25	Non-Compact	-7734.99	
ROOF	B16	IPE270	Seismic	-7191.04	7465.46
STORY5	B16	IPE300	Seismic	-7397.62	7674.55
STORY4	B16	2IPE22E11PL180X20	Non-Compact	-7485.23	7752.55
STORY3	B16	2IPE22E11PL180X20	Non-Compact	-7504.56	7772.03
STORY2	B16	2IPE22E11PL180X20	Non-Compact	-7504.56	7772.03
STORY1	B16	2IPE24E12PL200X20	Non-Compact	-6971.66	7213.45
ROOF	B17	IPE180	Seismic	-25.89	25.89
STORY5	B17	IPE160	Seismic	-21.30	21.30
STORY4	B17	2IPE22E11PL180X20	Non-Compact	-146.00	146.00
STORY3	B17	2IPE22E11PL180X20	Non-Compact	-147.09	147.09
STORY2	B17	2IPE22E11PL180X20	Non-Compact	-147.09	147.09
STORY1	B17	2IPE24E12PL200X20	Non-Compact	-165.79	165.79
ROOF	B18	IPE220	Seismic		
STORY5	B18	IPE200	Seismic		
STORY4	B18	2IPE22E11PL180X20	Non-Compact		
STORY3	B18	2IPE22E11PL180X20	Non-Compact		
STORY2	B18	2IPE22E11PL180X20	Non-Compact		
STORY1	B18	2IPE24E12PL200X20	Non-Compact		
ROOF	B19	IPE160	Seismic	-21.77	21.77
STORY5	B19	IPE160	Seismic	-21.30	21.30
STORY4	B19	2IPE22E11PL180X20	Non-Compact	-146.00	146.00
STORY3	B19	2IPE22E11PL180X20	Non-Compact	-147.09	147.09
STORY2	B19	2IPE22E11PL180X20	Non-Compact	-147.09	147.09
STORY1	B19	2IPE24E12PL200X20	Non-Compact	-165.79	165.79
ROOF	B20	IPE160	Seismic	-7855.62	7855.62
STORY5	B20	IPE160	Seismic	-8029.56	8029.56
STORY4	B20	2IPE22E11PL180X20	Non-Compact	-8178.59	8178.59
STORY3	B20	2IPE22E11PL180X20	Non-Compact	-8227.10	8227.10
STORY2	B20	2IPE22E11PL180X20	Non-Compact	-8227.10	8227.10
STORY1	B20	2IPE24E12PL200X20	Non-Compact	-7637.86	7637.86
ROOF	B21	2IPE18E9PL140X20	Non-Compact	-27.91	
STORY5	B21	IPE240	Seismic	-9.98	
STORY4	B21	2IPE22E11PL180X20	Non-Compact	-34.59	
STORY3	B21	2IPE22E11PL180X20	Non-Compact	-35.41	
STORY2	B21	2IPE22E11PL180X20	Non-Compact	-35.41	
STORY1	B21	2IPE24E12PL200X20	Non-Compact	-39.43	
ROOF	B22	IPE270	Seismic		1726.66
STORY5	B22	IPE300	Seismic		3305.44
STORY4	B22	2IPE22E11PL180X20	Non-Compact		4501.99

Steel Beam Design - Special Seismic Requirements

Story Level	Beam Bay	Section Name	Section Class	Connection Shear End-I	Connection Shear End-J
STORY3	B22	2IPE22E11PL180X20	Non-Compact		4732.52
STORY2	B22	2IPE24E12PL200X20	Non-Compact		5433.44
STORY1	B22	2IPE27E13PL240X25	Non-Compact		7351.68
ROOF	B23	IPE300	Seismic	-3317.68	3530.53
STORY5	B23	2IPE18E20PL250X15	Non-Compact	-4380.89	4352.57
STORY4	B23	2IPE24E12PL200X20	Non-Compact	-6267.39	6175.38
STORY3	B23	2IPE24E12PL220X25	Non-Compact	-7357.69	7338.77
STORY2	B23	2IPE24E12PL220X25	Non-Compact	-7951.22	7902.26
STORY1	B23	2IPE27E13PL260X30	Non-Compact	-11290.09	11291.23
ROOF	B24	IPE300	Seismic	-3295.53	3492.97
STORY5	B24	2IPE18E20PL250X15	Non-Compact	-4314.93	4351.74
STORY4	B24	2IPE24E12PL200X20	Non-Compact	-6177.74	6147.49
STORY3	B24	2IPE24E12PL220X25	Non-Compact	-7372.16	7416.45
STORY2	B24	2IPE24E12PL220X25	Non-Compact	-7869.11	7865.71
STORY1	B24	2IPE27E13PL260X30	Non-Compact	-11204.22	11255.76
ROOF	B25	IPE300	Seismic	-3269.48	3473.80
STORY5	B25	2IPE18E20PL250X15	Non-Compact	-4304.31	4347.59
STORY4	B25	2IPE24E12PL200X20	Non-Compact	-6076.98	6069.52
STORY3	B25	2IPE24E12PL220X25	Non-Compact	-7273.09	7336.22
STORY2	B25	2IPE24E12PL220X25	Non-Compact	-7791.19	7797.98
STORY1	B25	2IPE27E13PL260X30	Non-Compact	-11129.27	11189.03
ROOF	B26	2IPE18E20PL250X15	Non-Compact	-3441.99	3752.06
STORY5	B26	2IPE18E20PL250X20	Non-Compact	-4586.32	4613.48
STORY4	B26	2IPE24E12PL200X20	Non-Compact	-6132.48	6104.16
STORY3	B26	2IPE24E12PL220X25	Non-Compact	-7195.49	7231.50
STORY2	B26	2IPE24E12PL220X25	Non-Compact	-7828.56	7808.27
STORY1	B26	2IPE27E13PL260X30	Non-Compact	-11173.84	11197.41
ROOF	B27	IPE300	Seismic	-2764.65	2935.68
STORY5	B27	2IPE18E20PL250X15	Non-Compact	-2905.04	2783.49
STORY4	B27	2IPE24E12PL200X20	Non-Compact	-5000.06	4843.81
STORY3	B27	2IPE24E12PL220X25	Non-Compact	-6107.31	5953.12
STORY2	B27	2IPE24E12PL220X25	Non-Compact	-6527.57	6390.56
STORY1	B27	2IPE27E13PL260X30	Non-Compact	-10051.74	9950.87
ROOF	B28	IPE200	Seismic		
STORY5	B28	IPE240	Seismic		
STORY4	B28	2IPE22E11PL180X10	Non-Compact		
STORY3	B28	2IPE22E11PL180X10	Non-Compact		
STORY2	B28	2IPE22E11PL180X20	Non-Compact		
STORY1	B28	2IPE24E12PL200X20	Non-Compact		
ROOF	B29	IPE270	Seismic		3376.10
STORY5	B29	IPE300	Seismic		5022.57
STORY4	B29	2IPE22E11PL180X10	Non-Compact		5758.92
STORY3	B29	2IPE22E11PL180X10	Non-Compact		5940.52
STORY2	B29	2IPE22E11PL180X20	Non-Compact		6734.48
STORY1	B29	2IPE24E12PL200X20	Non-Compact		8344.78
ROOF	B30	IPE160	Seismic	-3232.14	3232.14
STORY5	B30	IPE160	Seismic	-3798.84	3798.84
STORY4	B30	2IPE22E11PL180X20	Non-Compact	-3877.09	3877.09

Steel Beam Design - Special Seismic Requirements

Story Level	Beam Bay	Section Name	Section Class	Connection Shear End-I	Connection Shear End-J
STORY3	B30	2IPE22E11PL180X20	Non-Compact	-3877.09	3877.09
STORY2	B30	2IPE22E11PL180X20	Non-Compact	-3877.09	3877.09
STORY1	B30	2IPE24E12PL200X20	Non-Compact	-3665.27	3665.27
ROOF	B31	IPE180	Seismic	-512.12	512.12
STORY5	B31	IPE200	Seismic	-992.39	992.39
STORY4	B31	2IPE22E11PL180X20	Non-Compact	-1094.79	1094.79
STORY3	B31	2IPE22E11PL180X20	Non-Compact	-1094.79	1094.79
STORY2	B31	2IPE22E11PL180X20	Non-Compact	-1094.79	1094.79
STORY1	B31	2IPE24E12PL200X20	Non-Compact	-1102.96	1102.96
ROOF	B32	IPE140	Seismic	-2915.21	2915.21
STORY5	B32	IPE160	Seismic	-3426.92	3426.92
STORY4	B32	2IPE22E11PL180X20	Non-Compact	-3492.13	3492.13
STORY3	B32	2IPE22E11PL180X20	Non-Compact	-3492.13	3492.13
STORY2	B32	2IPE22E11PL180X20	Non-Compact	-3492.13	3492.13
STORY1	B32	2IPE24E12PL200X20	Non-Compact	-3297.43	3297.43
ROOF	B33	IPE180	Seismic	-512.12	512.12
STORY5	B33	IPE200	Seismic	-992.39	992.39
STORY4	B33	2IPE22E11PL180X20	Non-Compact	-1094.79	1094.79
STORY3	B33	2IPE22E11PL180X20	Non-Compact	-1094.79	1094.79
STORY2	B33	2IPE22E11PL180X20	Non-Compact	-1094.79	1094.79
STORY1	B33	2IPE24E12PL200X20	Non-Compact	-1102.96	1102.96
ROOF	B34	IPE140	Seismic	-4814.00	4814.00
STORY5	B34	IPE160	Seismic	-5684.97	5684.97
STORY4	B34	2IPE22E11PL180X20	Non-Compact	-5829.38	5829.38
STORY3	B34	2IPE22E11PL180X20	Non-Compact	-5829.38	5829.38
STORY2	B34	2IPE22E11PL180X20	Non-Compact	-5829.38	5829.38
STORY1	B34	2IPE24E12PL200X20	Non-Compact	-5530.75	5530.75
ROOF	B35	2IPE18E9PL140X20	Non-Compact	-148.13	
STORY5	B35	IPE200	Seismic	-242.66	
STORY4	B35	2IPE22E11PL180X20	Non-Compact	-263.56	
STORY3	B35	2IPE22E11PL180X20	Non-Compact	-263.56	
STORY2	B35	2IPE22E11PL180X20	Non-Compact	-263.56	
STORY1	B35	2IPE24E12PL200X20	Non-Compact	-262.31	
SHARP-ROOF	B36	IPE200	Seismic	-326.99	334.80

Steel Brace Design - Capacity Check Output

Steel Brace Design - Capacity Check Output

Story Level	Brace Bay	Section Name	Moment Interaction Check Ratio = AXL + B33 + B22	Shear22 Ratio	Shear33 Ratio
ROOF	D1	2UNP80PL120X10	0.102 = 0.079 + 0.014 + 0.009	0.001	0.000
STORY5	D1	2UNP80PL120X10	0.167 = 0.152 + 0.013 + 0.002	0.001	0.000
STORY4	D1	2UNP100PL140X10	0.179 = 0.168 + 0.010 + 0.002	0.002	0.000
STORY3	D1	2UNP120PL160X10	0.262 = 0.254 + 0.007 + 0.001	0.002	0.000
STORY2	D1	2UNP140PL180X10	0.220 = 0.214 + 0.005 + 0.001	0.002	0.000
STORY1	D1	2UNP160PL200X10	0.183 = 0.178 + 0.005 + 0.000	0.002	0.000
ROOF	D2	2UNP80PL120X10	0.144 = 0.126 + 0.014 + 0.004	0.001	0.000
STORY5	D2	2UNP80PL120X10	0.225 = 0.212 + 0.012 + 0.002	0.001	0.000

Steel Brace Design - Capacity Check Output

Story Level	Brace Bay	Section Name	Moment Interaction Check Ratio = AXL + B33 + B22	Shear22 Ratio	Shear33 Ratio
STORY4	D2	2UNP100PL140X10	0.245 = 0.234 + 0.009 + 0.002	0.001	0.000
STORY3	D2	2UNP120PL160X10	0.254 = 0.245 + 0.007 + 0.002	0.002	0.000
STORY2	D2	2UNP140PL180X10	0.215 = 0.210 + 0.004 + 0.001	0.002	0.000
STORY1	D2	2UNP160PL200X10	0.186 = 0.180 + 0.006 + 0.000	0.002	0.000
ROOF	D3	2UNP80PL120X10	0.114 = 0.097 + 0.013 + 0.004	0.001	0.000
STORY5	D3	2UNP80PL120X10	0.196 = 0.183 + 0.011 + 0.003	0.001	0.000
STORY4	D3	2UNP100PL140X10	0.213 = 0.203 + 0.008 + 0.002	0.001	0.000
STORY3	D3	2UNP120PL160X10	0.211 = 0.204 + 0.005 + 0.002	0.001	0.000
STORY2	D3	2UNP140PL180X10	0.190 = 0.187 + 0.003 + 0.000	0.002	0.000
STORY1	D3	2UNP160PL200X10	0.172 = 0.165 + 0.006 + 0.000	0.002	0.000
ROOF	D4	2UNP80PL120X10	0.128 = 0.111 + 0.013 + 0.004	0.001	0.000
STORY5	D4	2UNP80PL120X10	0.198 = 0.185 + 0.011 + 0.002	0.001	0.000
STORY4	D4	2UNP100PL140X10	0.207 = 0.198 + 0.008 + 0.002	0.001	0.000
STORY3	D4	2UNP120PL160X10	0.217 = 0.211 + 0.004 + 0.002	0.001	0.000
STORY2	D4	2UNP140PL180X10	0.199 = 0.196 + 0.003 + 0.000	0.002	0.000
STORY1	D4	2UNP160PL200X10	0.177 = 0.170 + 0.007 + 0.000	0.002	0.000
ROOF	D5	2UNP100PL140X10	0.204 = 0.186 + 0.015 + 0.002	0.002	0.000
STORY5	D5	2UNP120PL160X10	0.273 = 0.255 + 0.015 + 0.003	0.002	0.000
STORY4	D5	2UNP120PL160X10	0.316 = 0.299 + 0.015 + 0.002	0.002	0.000
STORY3	D5	2UNP140PL180X10	0.290 = 0.277 + 0.011 + 0.002	0.002	0.000
STORY2	D5	2UNP140PL180X10	0.266 = 0.254 + 0.011 + 0.001	0.002	0.000
STORY1	D5	2UNP160PL200X10	0.204 = 0.194 + 0.009 + 0.000	0.002	0.000
ROOF	D6	2UNP100PL140X10	0.189 = 0.171 + 0.015 + 0.002	0.002	0.000
STORY5	D6	2UNP120PL160X10	0.253 = 0.236 + 0.015 + 0.002	0.002	0.000
STORY4	D6	2UNP120PL160X10	0.294 = 0.278 + 0.014 + 0.002	0.002	0.000
STORY3	D6	2UNP140PL180X10	0.286 = 0.274 + 0.011 + 0.001	0.002	0.000
STORY2	D6	2UNP140PL180X10	0.270 = 0.259 + 0.011 + 0.001	0.002	0.000
STORY1	D6	2UNP160PL200X10	0.207 = 0.198 + 0.009 + 0.000	0.002	0.000
ROOF	D7	2UNP80PL120X10	0.119 = 0.101 + 0.014 + 0.004	0.001	0.000
STORY5	D7	2UNP80PL120X10	0.200 = 0.185 + 0.013 + 0.002	0.001	0.000
STORY4	D7	2UNP100PL140X10	0.220 = 0.209 + 0.009 + 0.002	0.001	0.000
STORY3	D7	2UNP120PL160X10	0.231 = 0.223 + 0.006 + 0.002	0.002	0.000
STORY2	D7	2UNP140PL180X10	0.210 = 0.204 + 0.004 + 0.001	0.002	0.000
STORY1	D7	2UNP160PL200X10	0.184 = 0.179 + 0.005 + 0.000	0.002	0.000
ROOF	D8	2UNP80PL120X10	0.145 = 0.127 + 0.014 + 0.004	0.001	0.000
STORY5	D8	2UNP80PL120X10	0.231 = 0.216 + 0.013 + 0.002	0.001	0.000
STORY4	D8	2UNP100PL140X10	0.241 = 0.230 + 0.009 + 0.002	0.001	0.000
STORY3	D8	2UNP120PL160X10	0.244 = 0.236 + 0.006 + 0.002	0.002	0.000
STORY2	D8	2UNP140PL180X10	0.222 = 0.216 + 0.004 + 0.001	0.002	0.000
STORY1	D8	2UNP160PL200X10	0.190 = 0.184 + 0.006 + 0.000	0.002	0.000
ROOF	D9	2UNP80PL120X10	0.107 = 0.091 + 0.012 + 0.003	0.001	0.000
STORY5	D9	2UNP80PL120X10	0.181 = 0.169 + 0.011 + 0.002	0.001	0.000
STORY4	D9	2UNP100PL140X10	0.202 = 0.192 + 0.008 + 0.002	0.001	0.000
STORY3	D9	2UNP120PL160X10	0.214 = 0.208 + 0.005 + 0.001	0.001	0.000
STORY2	D9	2UNP140PL180X10	0.197 = 0.194 + 0.003 + 0.000	0.002	0.000
STORY1	D9	2UNP160PL200X10	0.178 = 0.172 + 0.007 + 0.000	0.002	0.000
ROOF	D10	2UNP80PL120X10	0.115 = 0.100 + 0.012 + 0.003	0.001	0.000
STORY5	D10	2UNP80PL120X10	0.196 = 0.183 + 0.011 + 0.002	0.001	0.000

Steel Brace Design - Capacity Check Output

Story Level	Brace Bay	Section Name	Moment Interaction Check Ratio = AXL + B33 + B22	Shear22 Ratio	Shear33 Ratio
STORY4	D10	2UNP100PL140X10	0.211 = 0.201 + 0.008 + 0.002	0.001	0.000
STORY3	D10	2UNP120PL160X10	0.218 = 0.212 + 0.005 + 0.001	0.001	0.000
STORY2	D10	2UNP140PL180X10	0.204 = 0.201 + 0.003 + 0.000	0.002	0.000
STORY1	D10	2UNP160PL200X10	0.182 = 0.175 + 0.007 + 0.000	0.002	0.000
ROOF	D11	2UNP80PL120X10	0.265 = 0.241 + 0.021 + 0.003	0.002	0.000
STORY5	D11	2UNP120PL160X10	0.264 = 0.246 + 0.015 + 0.002	0.002	0.000
STORY4	D11	2UNP120PL160X10	0.305 = 0.289 + 0.015 + 0.002	0.002	0.000
STORY3	D11	2UNP140PL180X10	0.293 = 0.280 + 0.012 + 0.002	0.002	0.000
STORY2	D11	2UNP140PL180X10	0.273 = 0.261 + 0.011 + 0.001	0.002	0.000
STORY1	D11	2UNP160PL200X10	0.209 = 0.199 + 0.009 + 0.001	0.002	0.000
ROOF	D12	2UNP80PL120X10	0.243 = 0.220 + 0.021 + 0.003	0.002	0.000
STORY5	D12	2UNP120PL160X10	0.259 = 0.242 + 0.015 + 0.002	0.002	0.000
STORY4	D12	2UNP120PL160X10	0.300 = 0.283 + 0.014 + 0.002	0.002	0.000
STORY3	D12	2UNP140PL180X10	0.287 = 0.274 + 0.011 + 0.001	0.002	0.000
STORY2	D12	2UNP140PL180X10	0.274 = 0.262 + 0.011 + 0.001	0.002	0.000
STORY1	D12	2UNP160PL200X10	0.209 = 0.200 + 0.009 + 0.000	0.002	0.000

Steel Brace Design - Special Seismic Requirements

Steel Brace Design - Special Seismic Requirements

Story Level	Brace Bay	Section Name	Section Class	Connection Force End-I	Connection Force End-J
ROOF	D1	2UNP80PL120X10	Non-Compact	-5993.02	-5855.41
STORY5	D1	2UNP80PL120X10	Non-Compact	-10832.08	-10693.22
STORY4	D1	2UNP100PL140X10	Non-Compact	-16426.94	-16254.19
STORY3	D1	2UNP120PL160X10	Non-Compact	-27926.80	-27679.12
STORY2	D1	2UNP140PL180X10	Non-Compact	-31330.74	-31052.43
STORY1	D1	2UNP160PL200X10	Non-Compact	-30229.57	-29871.89
ROOF	D2	2UNP80PL120X10	Non-Compact	-6926.08	-6788.37
STORY5	D2	2UNP80PL120X10	Non-Compact	-12465.84	-12325.41
STORY4	D2	2UNP100PL140X10	Non-Compact	-18579.90	-18405.83
STORY3	D2	2UNP120PL160X10	Non-Compact	-23972.38	-23735.28
STORY2	D2	2UNP140PL180X10	Non-Compact	-30957.40	-30676.10
STORY1	D2	2UNP160PL200X10	Non-Compact	-30352.97	-29991.43
ROOF	D3	2UNP80PL120X10	Non-Compact	-6245.05	-6115.79
STORY5	D3	2UNP80PL120X10	Non-Compact	-11971.40	-11838.80
STORY4	D3	2UNP100PL140X10	Non-Compact	-18404.95	-18238.56
STORY3	D3	2UNP120PL160X10	Non-Compact	-23794.01	-23567.77
STORY2	D3	2UNP140PL180X10	Non-Compact	-28290.39	-28010.81
STORY1	D3	2UNP160PL200X10	Non-Compact	-28947.73	-28578.20
ROOF	D4	2UNP80PL120X10	Non-Compact	-6540.87	-6411.49
STORY5	D4	2UNP80PL120X10	Non-Compact	-11943.22	-11810.49
STORY4	D4	2UNP100PL140X10	Non-Compact	-18138.44	-17972.03
STORY3	D4	2UNP120PL160X10	Non-Compact	-24028.74	-23802.38
STORY2	D4	2UNP140PL180X10	Non-Compact	-28820.78	-28540.66
STORY1	D4	2UNP160PL200X10	Non-Compact	-29309.20	-28938.44
ROOF	D5	2UNP100PL140X10	Non-Compact	-13001.04	-12767.93
STORY5	D5	2UNP120PL160X10	Non-Compact	-24237.17	-23947.90

Steel Brace Design - Special Seismic Requirements

Story Level	Brace Bay	Section Name	Section Class	Connection Force End-I	Connection Force End-J
STORY4	D5	2UNP120PL160X10	Non-Compact	-29178.22	-28887.24
STORY3	D5	2UNP140PL180X10	Non-Compact	-34736.87	-34384.27
STORY2	D5	2UNP140PL180X10	Non-Compact	-32859.01	-32509.09
STORY1	D5	2UNP160PL200X10	Non-Compact	-29914.04	-29498.43
ROOF	D6	2UNP100PL140X10	Non-Compact	-12703.13	-12470.10
STORY5	D6	2UNP120PL160X10	Non-Compact	-23812.30	-23522.53
STORY4	D6	2UNP120PL160X10	Non-Compact	-28497.82	-28206.85
STORY3	D6	2UNP140PL180X10	Non-Compact	-34649.35	-34296.47
STORY2	D6	2UNP140PL180X10	Non-Compact	-33146.60	-32796.26
STORY1	D6	2UNP160PL200X10	Non-Compact	-30103.78	-29687.41
ROOF	D7	2UNP80PL120X10	Non-Compact	-7097.89	-6960.14
STORY5	D7	2UNP80PL120X10	Non-Compact	-12326.85	-12186.30
STORY4	D7	2UNP100PL140X10	Non-Compact	-19020.47	-18846.22
STORY3	D7	2UNP120PL160X10	Non-Compact	-25312.57	-25081.80
STORY2	D7	2UNP140PL180X10	Non-Compact	-30342.23	-30060.27
STORY1	D7	2UNP160PL200X10	Non-Compact	-30236.81	-29874.58
ROOF	D8	2UNP80PL120X10	Non-Compact	-7493.20	-7355.35
STORY5	D8	2UNP80PL120X10	Non-Compact	-12868.48	-12727.79
STORY4	D8	2UNP100PL140X10	Non-Compact	-19509.63	-19335.12
STORY3	D8	2UNP120PL160X10	Non-Compact	-25696.02	-25464.72
STORY2	D8	2UNP140PL180X10	Non-Compact	-30904.07	-30621.45
STORY1	D8	2UNP160PL200X10	Non-Compact	-30572.95	-30209.77
ROOF	D9	2UNP80PL120X10	Non-Compact	-6127.94	-5998.68
STORY5	D9	2UNP80PL120X10	Non-Compact	-11241.50	-11108.93
STORY4	D9	2UNP100PL140X10	Non-Compact	-17638.89	-17472.94
STORY3	D9	2UNP120PL160X10	Non-Compact	-23782.95	-23557.86
STORY2	D9	2UNP140PL180X10	Non-Compact	-28976.11	-28697.46
STORY1	D9	2UNP160PL200X10	Non-Compact	-29591.72	-29222.89
ROOF	D10	2UNP80PL120X10	Non-Compact	-6292.49	-6163.17
STORY5	D10	2UNP80PL120X10	Non-Compact	-11555.62	-11422.86
STORY4	D10	2UNP100PL140X10	Non-Compact	-17899.13	-17732.81
STORY3	D10	2UNP120PL160X10	Non-Compact	-23947.36	-23721.49
STORY2	D10	2UNP140PL180X10	Non-Compact	-29356.14	-29076.43
STORY1	D10	2UNP160PL200X10	Non-Compact	-29806.45	-29435.85
ROOF	D11	2UNP80PL120X10	Non-Compact	-11526.85	-11333.27
STORY5	D11	2UNP120PL160X10	Non-Compact	-23817.63	-23528.90
STORY4	D11	2UNP120PL160X10	Non-Compact	-28470.96	-28180.42
STORY3	D11	2UNP140PL180X10	Non-Compact	-34781.74	-34429.82
STORY2	D11	2UNP140PL180X10	Non-Compact	-33511.87	-33162.30
STORY1	D11	2UNP160PL200X10	Non-Compact	-30437.82	-30022.60
ROOF	D12	2UNP80PL120X10	Non-Compact	-11327.27	-11133.62
STORY5	D12	2UNP120PL160X10	Non-Compact	-23846.93	-23557.89
STORY4	D12	2UNP120PL160X10	Non-Compact	-28439.23	-28148.40
STORY3	D12	2UNP140PL180X10	Non-Compact	-34646.11	-34293.59
STORY2	D12	2UNP140PL180X10	Non-Compact	-33659.51	-33309.39
STORY1	D12	2UNP160PL200X10	Non-Compact	-30496.74	-30080.56