Axail Capacity: Brute Force Method

Beginner's Guide to the Steel Construction Manual

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Input Data

Required P_n	800	kips
F_y	50	ksi
(KL)x	30	ft
(KL)y	6	ft
Slenderness limit	300	

Computed Constants

$.44F_y$ =	22	ksi

Local Buckling Criteria: SCM B5, E7	
Case 3, λp	13.49
Case 10, λp	35.88

Sections sorted by weight: Lightest to Heaviest

Section	Summary Req'd/Act	Section Properties Area (in^2)	T_w (in)	$b_f/2t_f$	h/t_w	r_x (in)	r_y (in)	Compact	General Slenderness Ratios (KL/r)x	(KL/r)y	Control
W6X8.5	27.76	2.52	0.170	10.1	29.1	2.43	0.890	Not Slender	148.15	80.90	148.15
W6X9	25.26	2.68	0.170	9.16	29.2	2.47	0.905	Not Slender	145.75	79.56	145.75
W8X10	13.48	2.96	0.170	9.61	40.5	3.22	0.841	Slender	111.80	85.61	111.80
W10X12	8.43	3.54	0.190	9.43	46.6	3.90	0.785	Slender	92.31	91.72	92.31
W6X12	18.77	3.55	0.230	7.14	21.6	2.49	0.918	Not Slender	144.58	78.43	144.58
W4X13	36.45	3.83	0.280	5.88	10.6	1.72	1.00	Not Slender	209.30	72.00	209.30
W8X13	10.45	3.84	0.230	7.84	29.9	3.21	0.843	Not Slender	112.15	85.41	112.15
W12X14	8.77	4.16	0.200	8.82	54.3	4.62	0.753	Slender	77.92	95.62	95.62
W10X15	6.66	4.41	0.230	7.41	38.5	3.95	0.810	Slender	91.14	88.89	91.14
W6X15	14.23	4.43	0.230	11.5	21.2	2.56	1.45	Not Slender	140.63	49.66	140.63
W8X15	8.65	4.44	0.245	6.37	28.1	3.29	0.876	Not Slender	109.42	82.19	109.42
W12X16	7.21	4.71	0.220	7.53	49.4	4.67	0.773	Slender	77.09	93.14	93.14
W5X16	19.33	4.71	0.240	6.94	15.4	2.13	1.26	Not Slender	169.01	57.14	169.01
W6X16	12.89	4.74	0.260	4.98	19.1	2.60	0.967	Not Slender	138.46	74.46	138.46
W10X17	5.71	4.99	0.240	6.08	36.9	4.05	0.845	Slender	88.89	85.21	88.89
W8X18	6.81	5.26	0.230	7.95	29.9	3.43	1.23	Not Slender	104.96	58.54	104.96
W5X19	15.78	5.56	0.270	5.85	13.7	2.17	1.28	Not Slender	165.90	56.25	165.90
W12X19	5.03	5.57	0.235	5.72	46.2	4.82	0.822	Slender	74.69	87.59	87.59
W10X19	4.95	5.62	0.250	5.09	35.4	4.14	0.874	Not Slender	86.96	82.38	86.96
W6X20	9.94	5.87	0.260	8.25	18.7	2.66	1.50	Not Slender	135.34	48.00	135.34
W8X21	5.65	6.16	0.250	6.59	27.5	3.49	1.26	Not Slender	103.15	57.14	103.15
W12X22	4.18	6.48	0.260	4.74	41.8	4.91	0.848	Slender	73.32	84.91	84.91
W10X22	4.15	6.49	0.240	7.99	36.9	4.27	1.33	Slender	84.31	54.14	84.31
W14X22	3.96	6.49	0.230	7.46	53.3	5.54	1.04	Slender	64.98	69.23	69.23
W8X24	5.08	7.08	0.245	8.12	25.9	3.42	1.61	Not Slender	105.26	44.72	105.26
W6X25	7.72	7.34	0.320	6.68	15.5	2.70	1.52	Not Slender	133.33	47.37	133.33
W10X26	3.47	7.61	0.260	6.56	34.0	4.35	1.36	Not Slender	82.76	52.94	82.76
W12X26	3.18	7.65	0.230	8.54	47.2	5.17	1.51	Slender	69.63	47.68	69.63
W16X26	3.28	7.68	0.250	7.97	56.8	6.26	1.12	Slender	57.51	64.29	64.29
W14X26	3.14	7.69	0.255	5.98	48.1	5.65	1.08	Slender	63.72	66.67	66.67
W8X28	4.30	8.24	0.285	7.03	22.3	3.45	1.62	Not Slender	104.35	44.44	104.35
W12X30	2.58	8.79	0.260	7.41	41.8	5.21	1.52	Slender	69.10	47.37	69.10
W10X30	2.97	8.84	0.300	5.70	29.5	4.38	1.37	Not Slender	82.19	52.55	82.19
W14X30	2.57	8.85	0.270	8.74	45.4	5.73	1.49	Slender	62.83	48.32	62.83
W8X31	3.85	9.12	0.285	9.19	22.3	3.47	2.02	Not Slender	103.75	35.64	103.75
W16X31	2.58	9.13	0.275	6.28	51.6	6.41	1.17	Slender	56.16	61.54	61.54
W10X33	2.83	9.71	0.290	9.15	27.1	4.19	1.94	Not Slender	85.92	37.11	85.92
W14X34	2.22	10.0	0.285	7.41	43.1	5.83	1.53	Slender	61.75	47.06	61.75
W12X35	2.19	10.3	0.300	6.31	36.2	5.25	1.54	Slender	68.57	46.75	68.57
W18X35	2.29	10.3	0.300	7.06	53.5	7.04	1.22	Slender	51.14	59.02	59.02
W8X35	3.35	10.3	0.310	8.10	20.5	3.51	2.03	Not Slender	102.56	35.47	102.56
W16X36	2.05	10.6	0.295	8.12	48.1	6.51	1.52	Slender	55.30	47.37	55.30
W14X38	1.88	11.2	0.310	6.57	39.6	5.87	1.55	Slender	61.33	46.45	61.33
W10X39	2.34	11.5	0.315	7.53	25.0	4.27	1.98	Not Slender	84.31	36.36	84.31
W12X40	1.96	11.7	0.295	7.77	33.6	5.13	1.94	Not Slender	70.18	37.11	70.18
W8X40	2.93	11.7	0.360	7.21	17.6	3.53	2.04	Not Slender	101.98	35.29	101.98
W16X40	1.80	11.8	0.305	6.93	46.5	6.63	1.57	Slender	54.30	45.86	54.30
W18X40	1.91	11.8	0.315	5.73	50.9	7.21	1.27	Slender	49.93	56.69	56.69
W14X43	1.68	12.6	0.305	7.54	37.4	5.82	1.89	Slender	61.86	38.10	61.86
W21X44	1.81	13.0	0.350	7.22	53.6	8.06	1.26	Slender	44.67	57.14	57.14
W12X45	1.75	13.1	0.335	7.00	29.6	5.15	1.95	Not Slender	69.90	36.92	69.90
W10X45	2.00	13.3	0.350	6.47	22.5	4.32	2.01	Not Slender	83.33	35.82	83.33
W16X45	1.55	13.3	0.345	6.23	41.1	6.65	1.57	Slender	54.14	45.86	54.14
W18X46	1.59	13.5	0.360	5.01	44.6	7.25	1.29	Slender	49.66	55.81	55.81
W14X48	1.50	14.1	0.340	6.75	33.6	5.85	1.91	Not Slender	61.54	37.70	61.54
W21X48	1.49	14.1	0.350	9.47	53.6	8.24	1.66	Slender	43.69	43.37	43.69
W8X48	2.35	14.1	0.400	5.92	15.9	3.61	2.08	Not Slender	99.72	34.62	99.72
W10X49	1.83	14.4	0.340	8.93	23.1	4.35	2.54	Not Slender	82.76	28.35	82.76
W12X50	1.56	14.6	0.370	6.31	26.8	5.18	1.96	Not Slender	69.50	36.73	69.50
W16X50	1.35	14.7	0.380	5.61	37.4	6.68	1.59	Slender	53.89	45.28	53.89
W18X50	1.38	14.7	0.355	6.57	45.2	7.38	1.65	Slender	48.78	43.64	48.78
W21X50	1.52	14.7	0.380	6.10	49.4	8.18	1.30	Slender	44.01	55.38	55.38
W12X53	1.45	15.6	0.345	8.69	28.1	5.23	2.48	Not Slender	68.83	29.03	68.83
W14X53	1.35	15.6	0.370	6.11	30.9	5.89	1.92	Not Slender	61.12	37.50	61.12
W10X54	1.66	15.8	0.370	8.15	21.2	4.37	2.56	Not Slender	82.38	28.13	82.38
W18X55	1.22	16.2	0.390	5.98	41.1	7.41	1.67	Slender	48.58	43.11	48.58
W21X55	1.25	16.2	0.375	7.87	50.0	8.40	1.73	Slender	42.86	41.62	42.86
W24X55	1.43	16.2	0.395	6.94	54.6	9.11	1.34	Slender	39.52	53.73	53.73
W21X57	1.28	16.7	0.405	5.04	46.3	8.36	1.35	Slender	43.06	53.33	53.33
W16X57	1.17	16.8	0.430	4.98	33.0	6.72	1.60	Not Slender	53.57	45.00	53.57
W12X58	1.32	17.0	0.360	7.82	27.0	5.28	2.51	Not Slender	68.18	28.69	68.18
W8X58	1.91	17.1	0.510	5.07	12.4	3.65	2.10	Not Slender	98.63	34.29	98.63
W10X60	1.49	17.6	0.420	7.41	18.7	4.39	2.57	Not Slender	82.00	28.02	82.00
W18X60	1.08	17.6	0.415	5.44	38.7	7.47	1.68	Slender	48.19	42.86	48.19
W14X61	1.17	17.9	0.375	7.75	30.4	5.98	2.45	Not Slender	60.20	29.39	60.20
W24X62	1.21	18.2	0.430	5.97	50.1	9.23	1.38	Slender	39.00	52.17	52.17
W21X62	1.08	18.3	0.400	6.70	46.9	8.54	1.77	Slender	42.15	40.68	42.15
W12X65	1.18	19.1	0.390	9.92	24.9	5.28	3.02	Not Slender	68.18	23.84	68.18
W18X65	0.99	19.1	0.450	5.06	35.7	7.49	1.69	Not Slender	48.06	42.60	48.06
W16X67	0.99	19.7	0.395	7.70	35.9	6.96	2.46	Slender	51.72	29.27	51.72
W8X67	1.61	19.7	0.570	4.43	11.1	3.72	2.12	Not Slender	96.77	33.96	96.77
W10X68	1.29	20.0	0.470	6.58	16.7	4.44	2.59	Not Slender	81.08	27.80	81.08
W14X68	1.04	20.0	0.415	6.97	27.5	6.01	2.46	Not Slender	59.90	29.27	59.90
W21X68	0.96	20.0	0.430	6.04	43.6	8.60	1.80	Slender	41.86	40.00	41.86

Section	Unstiffened Act/limit	Q_s	Stiffened Act/limit	F_e (ksi)	f (ksi)	1.49sqrt(..	b (in)	b_{eff} (in)	A_{eff} (in^2)	Q_a	Q	QF_y (ksi)
W6X8.5	0.75	1	0.81	13.04	11.44	75.03	4.95	4.95	2.52	1.000	1.000	50.0
W6X9	0.68	1	0.81	13.47	11.82	73.81	4.96	4.96	2.68	1.000	1.000	50.0
W8X10	0.71	1	1.13	22.90	20.05	56.67	6.89	6.89	2.96	1.000	1.000	50.0
W10X12	0.70	1	1.30	33.59	26.82	49.00	8.85	8.85	3.54	1.000	1.000	50.0
W6X12	0.53	1	0.60	13.69	12.01	73.22	4.97	4.97	3.55	1.000	1.000	50.0
W4X13	0.44	1	0.30	6.53	5.73	106.00	2.97	2.97	3.83	1.000	1.000	50.0
W8X13	0.58	1	0.83	22.76	19.93	56.83	6.88	6.88	3.84	1.000	1.000	50.0
W12X14	0.65	1	1.51	31.31	25.62	50.13	10.86	7.85	3.56	0.855	0.855	42.8
W10X15	0.55	1	1.07	34.46	27.24	48.62	8.86	8.86	4.41	1.000	1.000	50.0
W6X15	0.85	1	0.59	14.47	12.69	71.22	4.88	4.88	4.43	1.000	1.000	50.0
W8X15	0.47	1	0.78	23.90	20.83	55.59	6.88	6.88	4.44	1.000	1.000	50.0
W12X16	0.56	1	1.38	32.99	26.51	49.28	10.87	8.49	4.19	0.889	0.889	44.4
W5X16	0.51	1	0.43	10.02	8.79	85.60	3.70	3.70	4.71	1.000	1.000	50.0
W6X16	0.37	1	0.53	14.93	13.09	70.12	4.97	4.97	4.74	1.000	1.000	50.0
W10X17	0.45	1	1.03	36.22	28.06	47.90	8.86	8.86	4.99	1.000	1.000	50.0
W8X18	0.59	1	0.83	25.98	22.34	53.68	6.88	6.88	5.26	1.000	1.000	50.0
W5X19	0.43	1	0.38	10.40	9.12	84.02	3.70	3.70	5.56	1.000	1.000	50.0
W12X19	0.42	1	1.29	37.31	28.53	47.50	10.86	10.86	5.57	1.000	1.000	50.0
W10X19	0.38	1	0.99	37.85	28.76	47.31	8.85	8.85	5.62	1.000	1.000	50.0
W6X20	0.61	1	0.52	15.63	13.70	68.54	4.86	4.86	5.87	1.000	1.000	50.0
W8X21	0.49	1	0.77	26.90	22.97	52.95	6.88	6.88	6.16	1.000	1.000	50.0
W12X22	0.35	1	1.16	39.70	29.52	46.70	10.87	10.87	6.48	1.000	1.000	50.0
W10X22	0.59	1	1.03	40.27	29.73	46.53	8.86	8.86	6.49	1.000	1.000	50.0
W14X22	0.55	1	1.49	59.72	35.22	42.76	12.26	9.00	5.74	0.885	0.885	44.2
W8X24	0.60	1	0.72	25.83	22.24	53.81	6.35	6.35	7.08	1.000	1.000	50.0
W6X25	0.50	1	0.43	16.10	14.12	67.53	4.96	4.96	7.34	1.000	1.000	50.0
W10X26	0.49	1	0.95	41.79	30.30	46.09	8.84	8.84	7.61	1.000	1.000	50.0
W12X26	0.63	1	1.32	59.03	35.08	42.84	10.86	8.79	7.17	0.938	0.938	46.9
W16X26	0.59	1	1.58	69.26	36.96	41.74	14.20	9.89	6.60	0.860	0.860	43.0
W14X26	0.44	1	1.34	64.40	36.13	42.21	12.27	9.78	7.06	0.918	0.918	45.9
W8X28	0.52	1	0.62	26.29	22.55	53.43	6.36	6.36	8.24	1.000	1.000	50.0
W12X30	0.55	1	1.16	59.95	35.27	42.73	10.87	10.87	8.79	1.000	1.000	50.0
W10X30	0.42	1	0.82	42.37	30.51	45.94	8.85	8.85	8.84	1.000	1.000	50.0
W14X30	0.65	1	1.27	72.51	37.47	41.45	12.26	10.23	8.30	0.938	0.938	46.9
W8X31	0.68	1	0.62	26.59	22.76	53.19	6.36	6.36	9.12	1.000	1.000	50.0
W16X31	0.47	1	1.44	75.58	37.91	41.21	14.19	10.70	8.17	0.895	0.895	44.7
W10X33	0.68	1	0.76	38.77	29.14	47.00	7.86	7.86	9.71	1.000	1.000	50.0
W14X34	0.55	1	1.20	75.06	37.83	41.25	12.28	10.67	9.54	0.954	0.954	47.7
W12X35	0.47	1	1.01	60.87	35.45	42.61	10.86	10.86	10.30	1.000	1.000	50.0
W18X35	0.52	1	1.49	82.18	38.76	40.76	16.05	11.75	9.01	0.875	0.875	43.7
W8X35	0.60	1	0.57	27.21	23.17	52.71	6.36	6.36	10.30	1.000	1.000	50.0
W16X36	0.60	1	1.34	93.60	39.98	40.13	14.19	11.32	9.75	0.920	0.920	46.0
W14X38	0.49	1	1.10	76.10	37.98	41.17	12.28	12.28	11.20	1.000	1.000	50.0
W10X39	0.56	1	0.70	40.27	29.73	46.53	7.88	7.88	11.50	1.000	1.000	50.0
W12X40	0.58	1	0.94	58.12	34.88	42.96	9.91	9.91	11.70	1.000	1.000	50.0
W8X40	0.53	1	0.49	27.52	23.37	52.48	6.34	6.34	11.70	1.000	1.000	50.0
W16X40	0.51	1	1.30	97.08	40.30	39.97	14.18	11.62	11.02	0.934	0.934	46.7
W18X40	0.42	1	1.42	89.05	39.53	40.36	16.03	12.22	10.60	0.898	0.898	44.9
W14X43	0.56	1	1.04	74.81	37.80	41.27	11.41	11.41	12.60	1.000	1.000	50.0
W21X44	0.54	1	1.49	87.65	39.38	40.43	18.76	13.71	11.23	0.864	0.864	43.2
W12X45	0.52	1	0.82	58.57	34.98	42.90	9.92	9.92	13.10	1.000	1.000	50.0
W10X45	0.48	1	0.63	41.22	30.09	46.26	7.88	7.88	13.30	1.000	1.000	50.0
W16X45	0.46	1	1.15	97.66	40.36	39.94	14.18	12.77	12.82	0.964	0.964	48.2
W18X46	0.37	1	1.24	91.88	39.82	40.21	16.06	13.59	12.61	0.934	0.934	46.7
W14X48	0.50	1	0.94	75.58	37.91	41.21	11.42	11.42	14.10	1.000	1.000	50.0
W21X48	0.70	1	1.49	149.95	43.49	38.48	18.76	13.71	12.33	0.875	0.875	43.7
W8X48	0.44	1	0.44	28.78	24.16	51.62	6.36	6.36	14.10	1.000	1.000	50.0
W10X49	0.66	1	0.64	41.79	30.30	46.09	7.85	7.85	14.40	1.000	1.000	50.0
W12X50	0.47	1	0.75	59.26	35.12	42.81	9.92	9.92	14.60	1.000	1.000	50.0
W16X50	0.42	1	1.04	98.55	40.43	39.90	14.21	14.21	14.70	1.000	1.000	50.0
W18X50	0.49	1	1.26	120.28	42.02	39.15	16.05	13.44	13.78	0.937	0.937	46.9
W21X50	0.45	1	1.38	93.31	39.95	40.14	18.77	14.66	13.14	0.894	0.894	44.7
W12X53	0.64	1	0.78	60.41	35.36	42.67	9.69	9.69	15.60	1.000	1.000	50.0
W14X53	0.45	1	0.86	76.62	38.05	41.14	11.43	11.43	15.60	1.000	1.000	50.0
W10X54	0.60	1	0.59	42.18	30.44	45.99	7.84	7.84	15.80	1.000	1.000	50.0
W18X55	0.44	1	1.15	121.26	42.07	39.12	16.03	14.44	15.58	0.962	0.962	48.1
W21X55	0.58	1	1.39	155.83	43.72	38.38	18.75	14.50	14.61	0.902	0.902	45.1
W24X55	0.51	1	1.52	99.14	40.48	39.88	21.57	15.53	13.81	0.853	0.853	42.6
W21X57	0.37	1	1.29	100.62	40.61	39.82	18.75	15.42	15.35	0.919	0.919	46.0
W16X57	0.37	1	0.92	99.73	40.54	39.85	14.19	14.19	16.80	1.000	1.000	50.0
W12X58	0.58	1	0.75	61.57	35.59	42.53	9.72	9.72	17.00	1.000	1.000	50.0
W8X58	0.38	1	0.35	29.42	24.55	51.21	6.32	6.32	17.10	1.000	1.000	50.0
W10X60	0.55	1	0.52	42.56	30.58	45.88	7.85	7.85	17.60	1.000	1.000	50.0
W18X60	0.40	1	1.08	123.23	42.19	39.06	16.06	16.06	17.60	1.000	1.000	50.0
W14X61	0.57	1	0.85	78.98	38.36	40.97	11.40	11.40	17.90	1.000	1.000	50.0
W24X62	0.44	1	1.40	105.15	40.98	39.64	21.54	16.63	16.09	0.884	0.884	44.2
W21X62	0.50	1	1.31	161.07	43.91	38.29	18.76	15.27	16.90	0.924	0.924	46.2
W12X65	0.74	1	0.69	61.57	35.59	42.53	9.71	9.71	19.10	1.000	1.000	50.0
W18X65	0.38	1	0.99	123.90	42.23	39.05	16.07	16.07	19.10	1.000	1.000	50.0
W16X67	0.57	1	1.00	106.98	41.12	39.57	14.18	14.18	19.70	1.000	1.000	50.0
W8X67	0.33	1	0.31	30.56	25.21	50.54	6.33	6.33	19.70	1.000	1.000	50.0
W10X68	0.49	1	0.47	43.54	30.92	45.63	7.85	7.85	20.00	1.000	1.000	50.0
W14X68	0.52	1	0.77	79.77	38.46	40.91	11.41	11.41	20.00	1.000	1.000	50.0
W21X68	0.45	1	1.22	163.34	43.99	38.26	18.75	16.15	18.88	0.944	0.944	47.2

Section	Slenderness Act/Limit	Compressive Strength: SCM E3, E7 F_e (ksi)	$.44QF_y$ (ksi)	$F_e/.44QF_y$	F_{cr} (ksi)	P_n (kips)	Req'd/Act	
W6X8.5	0.49	13.04	22.00	0.593	11.44	28.82	27.76	No Good
W6X9	0.49	13.47	22.00	0.612	11.82	31.67	25.26	No Good
W8X10	0.37	22.90	22.00	1.041	20.05	59.34	13.48	No Good
W10X12	0.31	33.59	22.00	1.527	26.82	94.93	8.43	No Good
W6X12	0.48	13.69	22.00	0.622	12.01	42.63	18.77	No Good
W4X13	0.70	6.53	22.00	0.297	5.73	21.95	36.45	No Good
W8X13	0.37	22.76	22.00	1.034	19.93	76.54	10.45	No Good
W12X14	0.32	31.31	18.82	1.663	21.92	91.19	8.77	No Good
W10X15	0.30	34.46	22.00	1.566	27.24	120.13	6.66	No Good
W6X15	0.47	14.47	22.00	0.658	12.69	56.23	14.23	No Good
W8X15	0.36	23.90	22.00	1.087	20.83	92.50	8.65	No Good
W12X16	0.31	32.99	19.55	1.687	23.56	110.99	7.21	No Good
W5X16	0.56	10.02	22.00	0.455	8.79	41.39	19.33	No Good
W6X16	0.46	14.93	22.00	0.679	13.09	62.06	12.89	No Good
W10X17	0.30	36.22	22.00	1.647	28.06	140.01	5.71	No Good
W8X18	0.35	25.98	22.00	1.181	22.34	117.53	6.81	No Good
W5X19	0.55	10.40	22.00	0.473	9.12	50.71	15.78	No Good
W12X19	0.29	37.31	22.00	1.696	28.53	158.93	5.03	No Good
W10X19	0.29	37.85	22.00	1.721	28.76	161.66	4.95	No Good
W6X20	0.45	15.63	22.00	0.710	13.70	80.44	9.94	No Good
W8X21	0.34	26.90	22.00	1.223	22.97	141.47	5.65	No Good
W12X22	0.28	39.70	22.00	1.805	29.52	191.26	4.18	No Good
W10X22	0.28	40.27	22.00	1.830	29.73	192.98	4.15	No Good
W14X22	0.23	59.72	19.46	3.069	31.15	202.18	3.96	No Good
W8X24	0.35	25.83	22.00	1.174	22.24	157.45	5.08	No Good
W6X25	0.44	16.10	22.00	0.732	14.12	103.64	7.72	No Good
W10X26	0.28	41.79	22.00	1.900	30.30	230.61	3.47	No Good
W12X26	0.23	59.03	20.63	2.861	32.90	251.66	3.18	No Good
W16X26	0.21	69.26	18.92	3.661	31.78	244.06	3.28	No Good
W14X26	0.22	64.40	20.19	3.190	33.15	254.96	3.14	No Good
W8X28	0.35	26.29	22.00	1.195	22.55	185.84	4.30	No Good
W12X30	0.23	59.95	22.00	2.725	35.27	309.99	2.58	No Good
W10X30	0.27	42.37	22.00	1.926	30.51	269.72	2.97	No Good
W14X30	0.21	72.51	20.64	3.513	35.15	311.08	2.57	No Good
W8X31	0.35	26.59	22.00	1.209	22.76	207.58	3.85	No Good
W16X31	0.21	75.58	19.69	3.839	33.92	309.69	2.58	No Good
W10X33	0.29	38.77	22.00	1.762	29.14	282.99	2.83	No Good
W14X34	0.21	75.06	20.99	3.576	36.10	361.00	2.22	No Good
W12X35	0.23	60.87	22.00	2.767	35.45	365.17	2.19	No Good
W18X35	0.20	82.18	19.24	4.270	33.90	349.20	2.29	No Good
W8X35	0.34	27.21	22.00	1.237	23.17	238.65	3.35	No Good
W16X36	0.18	93.60	20.24	4.624	36.79	389.95	2.05	No Good
W14X38	0.20	76.10	22.00	3.459	37.98	425.36	1.88	No Good
W10X39	0.28	40.27	22.00	1.830	29.73	341.95	2.34	No Good
W12X40	0.23	58.12	22.00	2.642	34.88	408.11	1.96	No Good
W8X40	0.34	27.52	22.00	1.251	23.37	273.46	2.93	No Good
W16X40	0.18	97.08	20.54	4.726	37.63	444.08	1.80	No Good
W18X40	0.19	89.05	19.76	4.506	35.51	418.98	1.91	No Good
W14X43	0.21	74.81	22.00	3.400	37.80	476.26	1.68	No Good
W21X44	0.19	87.65	19.01	4.611	34.03	442.36	1.81	No Good
W12X45	0.23	58.57	22.00	2.662	34.98	458.22	1.75	No Good
W10X45	0.28	41.22	22.00	1.873	30.09	400.23	2.00	No Good
W16X45	0.18	97.66	21.20	4.607	38.89	517.17	1.55	No Good
W18X46	0.19	91.88	20.55	4.470	37.20	502.16	1.59	No Good
W14X48	0.21	75.58	22.00	3.435	37.91	534.49	1.50	No Good
W21X48	0.15	149.95	19.24	7.792	38.04	536.33	1.49	No Good
W8X48	0.33	28.78	22.00	1.308	24.16	340.72	2.35	No Good
W10X49	0.28	41.79	22.00	1.900	30.30	436.36	1.83	No Good
W12X50	0.23	59.26	22.00	2.694	35.12	512.80	1.56	No Good
W16X50	0.18	98.55	22.00	4.479	40.43	594.38	1.35	No Good
W18X50	0.16	120.28	20.62	5.834	39.37	578.78	1.38	No Good
W21X50	0.18	93.31	19.66	4.746	35.71	524.88	1.52	No Good
W12X53	0.23	60.41	22.00	2.746	35.36	551.62	1.45	No Good
W14X53	0.20	76.62	22.00	3.483	38.05	593.57	1.35	No Good
W10X54	0.27	42.18	22.00	1.917	30.44	480.98	1.66	No Good
W18X55	0.16	121.26	21.16	5.731	40.47	655.55	1.22	No Good
W21X55	0.14	155.83	19.84	7.856	39.42	638.54	1.25	No Good
W24X55	0.18	99.14	18.76	5.285	34.52	559.24	1.43	No Good
W21X57	0.18	100.62	20.22	4.976	37.33	623.33	1.28	No Good
W16X57	0.18	99.73	22.00	4.533	40.54	681.00	1.17	No Good
W12X58	0.23	61.57	22.00	2.799	35.59	605.06	1.32	No Good
W8X58	0.33	29.42	22.00	1.337	24.55	419.82	1.91	No Good
W10X60	0.27	42.56	22.00	1.935	30.58	538.20	1.49	No Good
W18X60	0.16	123.23	22.00	5.602	42.19	742.56	1.08	No Good
W14X61	0.20	78.98	22.00	3.590	38.36	686.66	1.17	No Good
W24X62	0.17	105.15	19.45	5.406	36.22	659.26	1.21	No Good
W21X62	0.14	161.07	20.32	7.926	40.56	742.16	1.08	No Good
W12X65	0.23	61.57	22.00	2.799	35.59	679.81	1.18	No Good
W18X65	0.16	123.90	22.00	5.632	42.23	806.58	0.99	Good
W16X67	0.17	106.98	22.00	4.863	41.12	809.99	0.99	Good
W8X67	0.32	30.56	22.00	1.389	25.21	496.65	1.61	No Good
W10X68	0.27	43.54	22.00	1.979	30.92	618.36	1.29	No Good
W14X68	0.20	79.77	22.00	3.626	38.46	769.24	1.04	No Good
W21X68	0.14	163.34	20.77	7.864	41.53	830.59	0.96	Good

W24X68	1.00	20.1	0.415	7.66	52.0	9.55	1.87	Slender	37.70	38.50	38.50	0.57	1	1.45	193.07	44.86	37.88	21.58	16.17	17.85	0.888	0.888	44.4	0.13	193.07	19.54	9.880	39.85	800.99	1.00	Good
W18X71	0.91	20.8	0.495	4.71	32.4	7.50	1.70	Not Slender	48.00	42.35	48.00	0.35	1	0.90	124.23	42.25	39.04	16.04	16.04	20.80	1.000	1.000	50.0	0.16	124.23	22.00	5.647	42.25	878.76	0.91	Good
W12X72	1.06	21.1	0.430	8.99	22.6	5.31	3.04	Not Slender	67.80	23.68	67.80	0.67	1	0.63	62.27	35.73	42.45	9.72	9.72	21.10	1.000	1.000	50.0	0.23	62.27	22.00	2.830	35.73	753.87	1.06	No Good
W21X73	0.88	21.5	0.455	5.60	41.2	8.64	1.81	Slender	41.67	39.78	41.67	0.42	1	1.15	164.86	44.04	38.24	18.75	16.86	20.64	0.960	0.960	48.0	0.14	164.86	21.12	7.806	42.28	909.01	0.88	Good
W14X74	0.95	21.8	0.450	6.41	25.4	6.04	2.48	Not Slender	59.60	29.03	59.60	0.48	1	0.71	80.57	38.56	40.86	11.43	11.43	21.80	1.000	1.000	50.0	0.20	80.57	22.00	3.662	38.56	840.66	0.95	Good
W18X76	0.84	22.3	0.425	8.11	37.8	7.73	2.61	Slender	46.57	27.59	46.57	0.60	1	1.05	131.96	42.67	38.85	16.07	16.07	22.30	1.000	1.000	50.0	0.16	131.96	22.00	5.998	42.67	951.48	0.84	Good
W24X76	0.87	22.4	0.440	6.61	49.0	9.69	1.92	Slender	37.15	37.50	37.50	0.49	1	1.37	203.53	45.11	37.78	21.56	16.95	20.37	0.909	0.909	45.5	0.13	203.53	20.01	10.174	41.03	918.97	0.87	Good
W10X77	1.13	22.6	0.530	5.86	14.8	4.49	2.60	Not Slender	80.18	27.69	80.18	0.43	1	0.41	44.52	31.25	45.39	7.84	7.84	22.60	1.000	1.000	50.0	0.27	44.52	22.00	2.024	31.25	706.23	1.13	No Good
W16X77	0.86	22.6	0.455	6.77	31.2	7.00	2.47	Not Slender	51.43	29.15	51.43	0.50	1	0.87	108.22	41.21	39.53	14.20	14.20	22.60	1.000	1.000	50.0	0.17	108.22	22.00	4.919	41.21	931.30	0.86	Good
W12X79	0.96	23.2	0.470	8.22	20.7	5.34	3.05	Not Slender	67.42	23.61	67.42	0.61	1	0.58	62.98	35.86	42.37	9.73	9.73	23.20	1.000	1.000	50.0	0.22	62.98	22.00	2.863	35.86	832.03	0.96	Good
W14X82	0.86	24.0	0.510	5.92	22.4	6.05	2.48	Not Slender	59.50	29.03	59.50	0.44	1	0.62	80.84	38.60	40.84	11.42	11.42	24.00	1.000	1.000	50.0	0.20	80.84	22.00	3.674	38.60	926.29	0.86	Good
W21X83	0.75	24.3	0.515	5.00	36.4	8.67	1.83	Slender	41.52	39.34	41.52	0.37	1	1.01	166.01	44.08	38.22	18.75	18.75	24.30	1.000	1.000	50.0	0.14	166.01	22.00	7.546	44.08	1071.09	0.75	Good
W24X84	0.77	24.7	0.470	5.86	45.9	9.79	1.95	Slender	36.77	36.92	36.92	0.43	1	1.28	209.94	45.26	37.72	21.57	17.86	22.95	0.929	0.929	46.5	0.12	209.94	20.44	10.269	42.06	1038.76	0.77	Good
W27X84	0.80	24.8	0.460	7.78	52.7	10.7	2.07	Slender	33.64	34.78	34.78	0.58	1	1.47	236.58	45.77	37.51	24.24	17.97	21.91	0.884	0.884	44.2	0.12	236.58	19.44	12.170	40.44	1002.88	0.80	Good
W18X86	0.74	25.3	0.480	7.20	33.4	7.77	2.63	Not Slender	46.33	27.38	46.33	0.53	1	0.93	133.33	42.74	38.81	16.03	16.03	25.30	1.000	1.000	50.0	0.15	133.33	22.00	6.061	42.74	1081.25	0.74	Good
W12X87	0.87	25.6	0.515	7.48	18.9	5.38	3.07	Not Slender	66.91	23.45	66.91	0.55	1	0.53	63.92	36.04	42.27	9.73	9.73	25.60	1.000	1.000	50.0	0.22	63.92	22.00	2.906	36.04	922.63	0.87	Good
W10X88	0.98	25.9	0.605	5.18	13.0	4.54	2.63	Not Slender	79.30	27.38	79.30	0.38	1	0.36	45.52	31.57	45.16	7.87	7.87	25.90	1.000	1.000	50.0	0.26	45.52	22.00	2.069	31.57	817.72	0.98	Good
W16X89	0.74	26.2	0.525	5.92	27.0	7.05	2.49	Not Slender	51.06	28.92	51.06	0.44	1	0.75	109.77	41.32	39.47	14.18	14.18	26.20	1.000	1.000	50.0	0.17	109.77	22.00	4.989	41.32	1082.61	0.74	Good
W30X90	0.78	26.4	0.470	8.52	57.5	11.7	2.09	Slender	30.77	34.45	34.45	0.63	1	1.60	241.17	45.84	37.48	27.03	18.64	22.46	0.851	0.851	42.5	0.11	241.17	18.72	12.886	39.00	1029.57	0.78	Good
W14X90	0.78	26.5	0.440	10.2	25.9	6.14	3.70	Not Slender	58.63	19.46	58.63	0.76	1	0.72	83.26	38.89	40.69	11.40	11.40	26.50	1.000	1.000	50.0	0.20	83.26	22.00	3.784	38.89	1030.51	0.78	Good
W21X93	0.66	27.3	0.580	4.53	32.3	8.70	1.84	Not Slender	41.38	39.13	41.38	0.34	1	0.90	167.16	44.12	38.20	18.73	18.73	27.30	1.000	1.000	50.0	0.14	167.16	22.00	7.598	44.12	1204.37	0.66	Good
W24X94	0.67	27.7	0.515	5.18	41.9	9.87	1.98	Slender	36.47	36.36	36.47	0.38	1	1.17	215.14	45.37	37.67	21.58	19.16	26.45	0.955	0.955	47.8	0.12	215.14	21.01	10.240	43.33	1200.11	0.67	Good
W27X94	0.69	27.7	0.490	6.70	49.5	10.9	2.12	Slender	33.03	33.96	33.96	0.50	1	1.38	248.14	45.96	37.43	24.26	18.91	25.08	0.905	0.905	45.3	0.11	248.14	19.92	12.457	41.61	1152.61	0.69	Good
W12X96	0.78	28.2	0.550	6.76	17.7	5.44	3.09	Not Slender	66.18	23.30	66.18	0.50	1	0.49	65.36	36.30	42.11	9.74	9.74	28.20	1.000	1.000	50.0	0.22	65.36	22.00	2.971	36.30	1023.66	0.78	Good
W18X97	0.66	28.5	0.535	6.41	30.0	7.82	2.65	Not Slender	46.04	27.17	46.04	0.48	1	0.84	135.05	42.82	38.77	16.05	16.05	28.50	1.000	1.000	50.0	0.15	135.05	22.00	6.139	42.82	1220.44	0.66	Good
W14X99	0.71	29.1	0.485	9.34	23.5	6.17	3.71	Not Slender	58.35	19.41	58.35	0.69	1	0.65	84.07	38.98	40.64	11.40	11.40	29.10	1.000	1.000	50.0	0.19	84.07	22.00	3.822	38.98	1134.38	0.71	Good
W30X99	0.68	29.1	0.520	7.80	51.9	11.7	2.10	Slender	30.77	34.29	34.29	0.58	1	1.45	243.48	45.88	37.46	26.99	20.25	25.60	0.880	0.880	44.0	0.11	243.48	19.35	12.582	40.36	1174.43	0.68	Good
W10X100	0.85	29.4	0.680	4.62	11.6	4.60	2.65	Not Slender	78.26	27.17	78.26	0.34	1	0.32	46.73	31.95	44.89	7.89	7.89	29.40	1.000	1.000	50.0	0.26	46.73	22.00	2.124	31.95	939.35	0.85	Good
W16X100	0.65	29.5	0.585	5.29	24.3	7.10	2.51	Not Slender	50.70	28.69	50.70	0.39	1	0.68	111.33	41.43	39.42	14.22	14.22	29.50	1.000	1.000	50.0	0.17	111.33	22.00	5.060	41.43	1222.23	0.65	Good
W21X101	0.60	29.8	0.500	7.68	37.5	9.02	2.89	Slender	39.91	24.91	39.91	0.57	1	1.05	179.68	44.50	38.04	18.75	18.75	29.80	1.000	1.000	50.0	0.13	179.68	22.00	8.167	44.50	1326.19	0.60	Good
W27X102	0.63	30.0	0.515	6.03	47.1	11.0	2.15	Slender	32.73	33.49	33.49	0.45	1	1.31	255.22	46.06	37.39	24.26	19.67	27.64	0.921	0.921	46.1	0.11	255.22	20.27	12.591	42.44	1273.19	0.63	Good
W24X103	0.60	30.3	0.550	4.59	39.2	10.0	1.99	Slender	36.00	36.18	36.18	0.34	1	1.09	218.64	45.44	37.64	21.56	20.12	29.51	0.974	0.974	48.7	0.12	218.64	21.42	10.205	44.25	1340.72	0.60	Good
W24X104	0.60	30.6	0.500	8.50	43.1	10.1	2.91	Slender	35.64	24.74	35.64	0.63	1	1.20	225.29	45.56	37.59	21.55	18.73	29.19	0.954	0.954	47.7	0.12	225.29	20.99	10.735	43.46	1329.97	0.60	Good
W18X106	0.60	31.1	0.590	5.96	27.2	7.84	2.66	Not Slender	45.92	27.07	45.92	0.44	1	0.76	135.75	42.86	38.76	16.05	16.05	31.10	1.000	1.000	50.0	0.15	135.75	22.00	6.170	42.86	1332.83	0.60	Good
W12X106	0.70	31.2	0.610	6.17	15.9	5.47	3.11	Not Slender	65.81	23.15	65.81	0.46	1	0.44	66.08	36.43	42.04	9.70	9.70	31.20	1.000	1.000	50.0	0.22	66.08	22.00	3.004	36.43	1136.54	0.70	Good
W30X108	0.61	31.7	0.545	6.89	49.6	11.9	2.15	Slender	30.25	33.49	33.49	0.51	1	1.38	255.22	46.06	37.39	27.03	21.04	28.43	0.897	0.897	44.8	0.11	255.22	19.73	12.933	41.32	1309.80	0.61	Good
W14X109	0.64	32.0	0.525	8.49	21.7	6.22	3.73	Not Slender	57.88	19.30	57.88	0.63	1	0.60	85.44	39.14	40.56	11.39	11.39	32.00	1.000	1.000	50.0	0.19	85.44	22.00	3.884	39.14	1252.41	0.64	Good
W21X111	0.55	32.7	0.550	7.05	34.1	9.05	2.90	Not Slender	39.78	24.83	39.78	0.52	1	0.95	180.88	44.54	38.02	18.76	18.76	32.70	1.000	1.000	50.0	0.13	180.88	22.00	8.222	44.54	1456.37	0.55	Good
W10X112	0.75	32.9	0.755	4.17	10.4	4.66	2.68	Not Slender	77.25	26.87	77.25	0.31	1	0.29	47.96	32.32	44.63	7.85	7.85	32.90	1.000	1.000	50.0	0.26	47.96	22.00	2.180	32.32	1063.29	0.75	Good
W27X114	0.54	33.5	0.570	5.41	42.5	11.0	2.18	Slender	32.73	33.03	33.03	0.40	1	1.18	262.39	46.17	37.34	24.23	21.28	31.82	0.950	0.950	47.5	0.11	262.39	20.90	12.556	43.85	1469.06	0.54	Good
W30X116	0.56	34.2	0.565	6.17	47.8	12.0	2.19	Slender	30.00	32.88	32.88	0.46	1	1.33	264.80	46.20	37.33	27.01	21.65	31.17	0.912	0.912	45.6	0.11	264.80	20.05	13.205	42.11	1440.23	0.56	Good
W24X117	0.52	34.4	0.550	7.53	39.2	10.1	2.94	Slender	35.64	24.49	35.64	0.56	1	1.09	225.29	45.56	37.59	21.56	20.12	33.61	0.977	0.977	48.8	0.12	225.29	21.49	10.482	44.52	1531.32	0.52	Good
W33X118	0.57	34.7	0.550	7.76	54.5	13.0	2.32	Slender	27.69	31.03	31.03	0.58	1	1.52	297.17	46.60	37.17	29.98	21.61	30.10	0.867	0.867	43.4	0.10	297.17	19.08	15.572	40.42	1402.65	0.57	Good
W18X119	0.53	35.1	0.655	5.31	24.5	7.90	2.69	Not Slender	45.57	26.77	45.57	0.39	1	0.68	137.83	42.96	38.71	16.05	16.05	35.10	1.000	1.000	50.0	0.15	137.83	22.00	6.265	42.96	1507.77	0.53	Good
W12X120	0.62	35.3	0.710	5.57	13.7	5.51	3.13	Not Slender	65.34	23.00	65.34	0.41	1	0.38	67.05	36.59	41.94	9.73	9.73	35.30	1.000	1.000	50.0	0.22	67.05	22.00	3.048	36.59	1291.79	0.62	Good
W14X120	0.58	35.3	0.590	7.80	19.3	6.24	3.74	Not Slender	57.69	19.25	57.69	0.58	1	0.54	85.99	39.20	40.53	11.39	11.39	35.30	1.000	1.000	50.0	0.19	85.99	22.00	3.909	39.20	1383.74	0.58	Good
W21X122	0.50	35.9	0.600	6.45	31.3	9.09	2.92	Not Slender	39.60	24.66	39.60	0.48	1	0.87	182.48	44.58	38.00	18.78	18.78	35.90	1.000	1.000	50.0	0.13	182.48	22.00	8.295	44.58	1600.51	0.50	Good
W30X124	0.51	36.5	0.585	5.65	46.2	12.1	2.23	Slender	29.75	32.29	32.29	0.42	1	1.29	274.56	46.33	37.28	27.03	22.26	33.71	0.924	0.924	46.2	0.11	274.56	20.32	13.513	42.79	1561.75	0.51	Good
W27X129	0.47	37.8	0.610	4.55	39.7	11.2	2.21	Slender	32.14	32.58	32.58	0.34	1	1.11	269.66	46.27	37.30	24.22	22.39	36.68	0.970	0.970	48.5	0.11	269.66	21.35	12.630	44.90	1697.27	0.47	Good
W18X130	0.49	38.2	0.670	4.65	23.9	8.03	2.70	Not Slender	44.83	26.67	44.83	0.34	1	0.67	142.40	43.17	38.62	16.01	16.01	38.20	1.000	1.000	50.0	0.15	142.40	22.00	6.473	43.17	1648.96	0.49	Good
W33X130	0.50	38.3	0.580	6.73	51.7	13.2	2.39	Slender	27.27	30.13	30.13	0.50	1	1.44	315.38	46.79	37.09	29.99	22.57	34.00	0.888	0.888	44.4	0.10	315.38	19.53	16.148	41.54	1590.83	0.50	Good
W24X131	0.46	38.5	0.605	6.70	35.6	10.2	2.97	Not Slender	35.29	24.24	35.29	0.50	1	0.99	229.77	45.65	37.56	21.54	21.54	38.50	1.000	1.000	50.0	0.12	229.77	22.00	10.444	45.65	1757.42	0.46	Good
W14X132	0.52	38.8	0.645	7.15	17.7	6.28	3.76	Not Slender	57.32	19.15	57.32	0.53	1	0.49	87.10	39.32	40.46	11.42	11.42	38.80	1.000	1.000	50.0	0.19	87.10	22.00	3.959	39.32	1525.64	0.52	Good
W21X132	0.46	38.8	0.650	6.01	28.9	9.12	2.93	Not Slender	39.47	24.57	39.47	0.45	1	0.81	183.69	44.62	37.99	18.79	18.79	38.80	1.000	1.000	50.0	0.13	183.69	22.00	8.349	44.62	1731.10	0.46	Good
W30X132	0.47	38.9	0.615	5.27	43.9	12.2	2.25	Slender	29.51	32.00	32.00	0.39	1	1.22	279.51	46.39	37.25	27.00	23.13	36.52	0.939	0.939	46.9	0.11	279.51	20.66	13.532	43.56	1694.41	0.47	Good
W36X135	0.50	39.7	0.600	7.56	54.1	14.0	2.38	Slender	25.71	30.25	30.25	0.56	1	1.51	312.74	46.76	37.10	32.46	23.54	34.35	0.865	0.865	43.3	0.10	312.74	19.04	16.429	40.46	1606.37	0.50	Good
W12X136	0.54	39.9	0.790	4.96	12.3	5.58	3.16	Not Slender	64.52	22.78	64.52	0.37	1	0.34	68.76	36.88	41.78	9.72	9.72	39.90	1.000	1.000	50.0	0.22	68.76	22.00	3.126	36.88	1471.53	0.54	Good
W33X141	0.45	41.6	0.605	6.01	49.6	13.4	2.43	Slender	26.87	29.63	29.63	0.45	1	1.38	326.02	46.89	37.05	30.01	23.36	37.58	0.903	0.903	45.2	0.10	326.02	19.87	16.406	42.36	1761.99	0.45	Good
W18X143	0.44	42.1	0.730	4.25	22.0	8.09	2.72	Not Slender	44.50	26.47	44.50	0.32	1	0.61	144.54	43.26	38.58	16.06	16.06	42.10	1.000	1.000	50.0	0.15	144.54	22.00	6.570	43.26	1821.26	0.44	Good
W14X145	0.47	42.7	0.680	7.11	16.8	6.33	3.98	Not Slender	56.87	18.09	56.87	0.53	1	0.47	88.49	39.47	40.39	11.42	11.42	42.70	1.000	1.000	50.0	0.19	88.49	22.00	4.022	39.47	1685.35	0.47	Good
W24X146	0.41	43.0	0.650	5.92	33.2	10.3	3.01	Not Slender	34.95	23.92	34.95	0.44	1	0.93	234.30	45.73	37.52	21.58	21.58	43.00	1.000	1.000	50.0	0.12	234.30	22.00	10.650	45.73	1966.29	0.41	Good
W27X146	0.41	43.1	0.605	7.16	39.4	11.5	3.20	Slender	31.30	22.50	31.30	0.53	1	1.10	292.07	46.54	37.19	23.84	22.16	42.09	0.976	0.976	48.8	0.10	292.07	21.48	13.596	45.45	1958.80	0.41	Good
W21X147	0.41	43.2	0.720	5.44	26.1	9.17	2.95	Not Slender	39.26	24.41	39.26	0.40	1	0.73	185.71	44.67	37.96	18.79	18.79	43.20	1.000	1.000	50.0	0.13	185.71	22.00	8.441	44.67	1929.80	0.41	Good
W30X148	0.41	43.5	0.650	4.44	41.6	12.4	2.28	Slender	29.03	31.58	31.58	0.33	1	1.16	287.01	46.48	37.22	27.04	24.14	41.61	0.957	0.957	47.8	0.11	287.01	21.05	13.637	44.47	1934.43	0.41	Good
W40X149	0.45	43.8	0.630	7.11	54.3	15.0	2.29	Slender	24.00	31.44	31.44	0.53	1	1.51	289.54	46.51	37.20	34.21	24.74	37.83	0.864	0.864	43.2	0.10	289.54	19.00	15.236	40.18	1759.76	0.45	Good
W36X150	0.44	44.2	0.625	6.37	51.9	14.3	2.47	Slender	25.17	29.15	29.15	0.47	1	1.45	336.84	46.99	37.02	32.44	24.34	39.14	0.886	0.886	44.3	0.10	336.84	19.48	17.291	41.61	1839.08	0.44	Good
W12X152	0.48	44.7	0.870	4.46	11.2	5.66	3.19	Not Slender	63.60	22.57	63.60	0.33	1	0.31	70.75	37.20	41.60	9.74	9.74	44.70	1.000	1.000	50.0	0.21	70.75	22.00	3.216	37.20	1662.70	0.48	Good
W33X152	0.41	44.8	0.635	5.48	47.2	13.5	2.47	Slender	26.67	29.15	29.15	0.41	1	1.32	336.84	46.99	37.02	29.97	24.27	41.18	0.919	0.919	46.0	0.10	336.84	20.22	16.658	43.19	1934.89	0.41	Good
W18X158	0.40	46.3	0.810	3.92	19.8	8.12	2.74	Not Slender	44.33	26.28	44.33	0.29	1	0.55	145.61	43.31	38.56	16.04	16.04	46.30	1.000	1.000	50.0	0.15	145.61	22.00	6.619	43.31	2005.09	0.40	Good
W14X159	0.43	46.7	0.745	6.54	15.3	6.38	4.00	Not Slender	56.43	18.00	56.43	0.48	1	0.43	89.89	39.62	40.31	11.40	11.40	46.70	1.000	1.000	50.0	0.19	89.89	22.00	4.086	39.62	1850.05	0.43	Good
W36X160	0.40	47.0	0.650	5.88	49.9	14.4	2.50	Slender	25.00	28.80	28.80	0.44	1	1.39	345.07	47.06	36.99	32.44	25.12	42.25	0.899	0.899	44.9	0.10	345.07	19.78	17.450	42.30	1988.09	0.40	Good
W27X161	0.36	47.6	0.660	6.49	36.1	11.5	3.23	Slender	31.30	22.29	31.30	0.48	1	1.01	292.07	46.54	37.19	23.83	23.83	47.60	1.000	1.000	50.0	0.10	292.07	22.00	13.276	46.54	2215.43	0.36	Good
W24X162	0.37	47.7	0.705	5.31	30.6	10.4	3.05	Not Slender	34.62	23.61	34.62	0.39	1	0.85	238.87	45.81	37.49	21.57	21.57	47.70	1.000	1.000	50.0	0.12	238.87	22.00	10.858	45.81	2184.94	0.37	Good
W21X166	0.37	48.8	0.750	4.57	25.0	9.36	2.99	Not Slender	38.46	24.08	38.46	0.34	1	0.70	193.48	44.87	37.88	18.75	18.75	48.80	1.000	1.000	50.0	0.13	193.48	22.00	8.795	44.87	2189.86	0.37	Good
W40X167	0.39	49.2	0.650	5.76	52.6	15.3	2.40	Slender	23.53	30.00	30.00	0.43	1	1.47	318.02	46.82	37.08	34.19	25.38	43.47	0.884	0.884	44.2	0.10	318.02	19.44	16.360	41.36	2035.15	0.39	Good
W33X169	0.37	49.5	0.670	4.71	44.7	13.7	2.50	Slender	26.28	28.80	28.80	0.35	1	1.25	345.07	47.06	36.99	29.95	25.31	46.39	0.937	0.937	46.9	0.10	345.07	20.62	16.737	44.10	2182.96	0.37	Good
W12X170	0.43	50.0	0.960	4.03	10.1	5.74	3.22	Not Slender	62.72	22.36	62.72	0.30	1	0.28	72.76	37.50	41.43	9.70	9.70	50.00	1.000	1.000	50.0	0.21	72.76	22.00	3.307	37.50	1875.14	0.43	Good
W36X170	0.37	50.1	0.680	5.47	47.7	14.5	2.53	Slender	24.83	28.46	28.46	0.41	1	1.33	353.41	47.13	36.96	32.44	26.05	45.75	0.913	0.913	45.7	0.09	353.41	20.09	17.590	43.04	2156.18	0.37	Good
W30X173	0.34	51.0	0.655	7.04	40.8	12.7	3.42	Slender	28.35	21.05	28.35	0.52	1	1.14	356.21	47.15	36.95	26.72	24.21	49.35	0.968	0.968	48.4	0.09	356.21	21.29	16.732	45.62	2326.82	0.34	Good
W18X175	0.36	51.3	0.890	3.58	18.0	8.20	2.76	Not Slender	43.90	26.09	43.90	0.27	1	0.50	148.50	43.43	38.50	16.02	16.02	51.30	1.000	1.000	50.0	0.15	148.50	22.00	6.750	43.43	2227.84	0.36	Good
W24X176	0.34	51.7	0.750	4.81	28.7	10.5	3.04	Not Slender	34.29	23.68	34.29	0.36	1	0.80	243.48	45.88	37.46	21.53	21.53	51.70	1.000	1.000	50.0	0.11	243.48	22.00	11.067	45.88	2372.10	0.34	Good
W14X176	0.39	51.8	0.830	5.97	13.7	6.43	4.02	Not Slender	55.99	17.91	55.99	0.44	1	0.38	91.31	39.76	40.24	11.37	11.37	51.80	1.000	1.000	50.0	0.19	91.31	22.00	4.150	39.76	2059.50	0.39	Good
W27X178	0.33	52.5	0.725	5.92	32.9	11.6	3.25	Not Slender	31.03	22.15	31.03	0.44	1	0.92	297.17	46.60	37.17	23.85	23.85	52.50	1.000	1.000	50.0	0.10	297.17	22.00	13.508	46.60	2446.50	0.33	Good
W40X183	0.36	53.3	0.650	4.92	52.6	15.7	2.49	Slender	22.93	28.92	28.92	0.36	1	1.47	342.32	47.03	37.00	34.19	25.38	47.57	0.893	0.893	44.6	0.10	342.32	19.64	17.434	41.98	2237.52	0.36	Good
W21X182	0.33	53.6	0.830	4.22	22.6	9.40	3.00	Not Slender	38.30	24.00	38.30	0.31	1	0.63	195.14	44.92	37.86	18.76	18.76	53.60	1.000	1.000	50.0	0.13	195.14	22.00	8.870	44.92	2407.46	0.33	Good
W36X182	0.34	53.6	0.725	5.12	44.8	14.5	2.55	Slender	24.83	28.24	28.24	0.38	1	1.25	359.02	47.17	36.95	32.48	27.40	49.91	0.931	0.931	46.6	0.09	359.02	20.49	17.524	43.93	2354.40	0.34	Good
W12X190	0.38	55.8	1.06	3.65	9.16	5.82	3.25	Not Slender	61.86	22.15	61.86	0.27	1	0.26	74.81	37.80	41.27	9.71	9.71	55.80	1.000	1.000	50.0	0.21	74.81	22.00	3.400	37.80	2109.15	0.38	Good
W24X192	0.31	56.3	0.810	4.43	26.6	10.5	3.07	Not Slender	34.29	23.45	34.29	0.33	1	0.74	243.48	45.88	37.46	21.55	21.55	56.30	1.000	1.000	50.0	0.11	243.48	22.00	11.067	45.88	2583.16	0.31	Good
W30X191	0.31	56.3	0.710	6.35	37.7	12.8	3.46	Slender	28.13	20.81	28.13	0.47	1	1.05	361.84	47.19	36.94	26.77	25.70	55.54	0.987	0.987	49.3	0.09	361.84	21.70	16.672	46.55	2621.05	0.31	Good
W18x192	0.33	56.4	0.960	3.27	16.7	8.28	2.79	Not Slender	43.48	25.81	43.48	0.24	1	0.47	151.41	43.55	38.45	16.03	16.03	56.40	1.000	1.000	50.0	0.14	151.41	22.00	6.882	43.55	2455.96	0.33	Good
W14X193	0.35	56.8	0.890	5.45	12.8	6.50	4.05	Not Slender	55.38	17.78	55.38	0.40	1	0.36	93.31	39.95	40.14	11.39	11.39	56.80	1.000	1.000	50.0	0.18	93.31	22.00	4.241	39.95	2269.41	0.35	Good
W36X194	0.31	57.0	0.765	4.81	42.4	14.6	2.56	Slender	24.66	28.13	28.13	0.36	1	1.18	361.84	47.19	36.94	32.44	28.54	54.02	0.948	0.948	47.4	0.09	361.84	20.85	17.354	44.72	2549.27	0.31	Good
W27X194	0.30	57.2	0.750	5.24	31.8	11.7	3.29	Not Slender	30.77	21.88	30.77	0.39	1	0.89	302.32	46.66	37.15	23.85	23.85	57.20	1.000	1.000	50.0	0.10	302.32	22.00	13.742	46.66	2668.72	0.30	Good
W40X199	0.31	58.5	0.650	7.39	52.6	16.0	3.45	Slender	22.50	20.87	22.50	0.55	1	1.47	565.37	48.18	36.55	34.19	25.38	52.77	0.902	0.902	45.1	0.08	565.37	19.85	28.488	43.46	2542.69	0.31	Good
W21X201	0.30	59.2	0.910	3.86	20.6	9.47	3.02	Not Slender	38.01	23.84	38.01	0.29	1	0.57	198.06	44.99	37.83	18.75	18.75	59.20	1.000	1.000	50.0	0.13	198.06	22.00	9.003	44.99	2663.19	0.30	Good
W33X201	0.30	59.2	0.715	6.85	41.7	14.0	3.56	Slender	25.71	20.22	25.71	0.51	1	1.16	432.86	47.64	36.76	29.82	26.57	56.88	0.961	0.961	48.0	0.09	432.86	21.14	20.478	45.77	2709.73	0.30	Good
W24X207	0.29	60.7	0.870	4.14	24.8	10.6	3.08	Not Slender	33.96	23.38	33.96	0.31	1	0.69	248.14	45.96	37.43	21.58	21.58	60.70	1.000	1.000	50.0	0.11	248.14	22.00	11.279	45.96	2789.54	0.29	Good
W12X210	0.34	61.8	1.18	3.37	8.23	5.89	3.28	Not Slender	61.12	21.95	61.12	0.25	1	0.23	76.62	38.05	41.14	9.71	9.71	61.80	1.000	1.000	50.0	0.20	76.62	22.00	3.483	38.05	2351.43	0.34	Good
W36X210	0.28	61.8	0.830	4.48	39.1	14.6	2.58	Slender	24.66	27.91	27.91	0.33	1	1.09	367.51	47.23	36.92	32.45	30.34	60.05	0.972	0.972	48.6	0.09	367.51	21.38	17.193	45.89	2836.19	0.28	Good
W14X211	0.32	62.0	0.980	5.06	11.6	6.55	4.07	Not Slender	54.96	17.69	54.96	0.38	1	0.32	94.75	40.09	40.07	11.37	11.37	62.00	1.000	1.000	50.0	0.18	94.75	22.00	4.307	40.09	2485.64	0.32	Good
W40X211	0.29	62.0	0.750	4.17	45.6	15.8	2.51	Slender	22.78	28.69	28.69	0.31	1	1.27	347.84	47.08	36.98	34.20	28.45	57.69	0.930	0.930	46.5	0.10	347.84	20.47	16.992	43.81	2716.04	0.29	Good
W18x211	0.30	62.1	1.06	3.02	15.1	8.35	2.82	Not Slender	43.11	25.53	43.11	0.22	1	0.42	153.98	43.65	38.41	16.01	16.01	62.10	1.000	1.000	50.0	0.14	153.98	22.00	6.999	43.65	2710.42	0.30	Good
W30X211	0.27	62.2	0.775	5.74	34.5	12.9	3.49	Not Slender	27.91	20.63	27.91	0.43	1	0.96	367.51	47.23	36.92	26.74	26.74	62.20	1.000	1.000	50.0	0.09	367.51	22.00	16.705	47.23	2937.85	0.27	Good

W40X215	0.29	63.4	0.650	6.45	52.6	16.2	3.54	Slender	22.22	20.34	22.22	0.48	1	1.47	579.59	48.23	36.54	34.19	25.38	57.67	0.910	0.910	45.5	0.07	579.59	20.01	28.962	43.87	2781.32	0.29	Good
W27X217	0.27	64.0	0.830	4.71	28.7	11.8	3.32	Not Slender	30.51	21.69	30.51	0.35	1	0.80	307.51	46.71	37.13	23.82	23.82	64.00	1.000	1.000	50.0	0.10	307.51	22.00	13.978	46.71	2989.47	0.27	Good
W33X221	0.26	65.2	0.775	6.20	38.5	14.1	3.59	Slender	25.53	20.06	25.53	0.46	1	1.07	439.07	47.67	36.75	29.84	28.21	63.94	0.981	0.981	49.0	0.09	439.07	21.58	20.350	46.75	3048.28	0.26	Good
W24X229	0.26	67.2	0.960	3.79	22.5	10.7	3.11	Not Slender	33.64	23.15	33.64	0.28	1	0.63	252.85	46.03	37.40	21.60	21.60	67.20	1.000	1.000	50.0	0.11	252.85	22.00	11.493	46.03	3093.10	0.26	Good
W12X230	0.31	67.7	1.29	3.11	7.56	5.97	3.31	Not Slender	60.30	21.75	60.30	0.23	1	0.21	78.71	38.33	40.99	9.75	9.75	67.70	1.000	1.000	50.0	0.20	78.71	22.00	3.578	38.33	2594.72	0.31	Good
W44X230	0.28	67.7	0.710	6.45	54.8	17.5	3.43	Slender	20.57	20.99	20.99	0.48	1	1.53	649.56	48.41	36.47	38.91	27.92	59.90	0.885	0.885	44.2	0.07	649.56	19.47	33.369	42.84	2900.13	0.28	Good
W36X231	0.26	68.1	0.760	6.54	42.2	15.1	3.71	Slender	23.84	19.41	23.84	0.48	1	1.18	503.55	47.96	36.64	32.07	28.32	65.25	0.958	0.958	47.9	0.08	503.55	21.08	23.888	45.96	3129.74	0.26	Good
W36X232	0.25	68.1	0.870	3.86	37.3	14.8	2.62	Slender	24.32	27.48	27.48	0.29	1	1.04	379.00	47.31	36.89	32.45	31.40	67.18	0.987	0.987	49.3	0.09	379.00	21.70	17.462	46.68	3178.71	0.25	Good
W14X233	0.29	68.5	1.07	4.62	10.7	6.63	4.10	Not Slender	54.30	17.56	54.30	0.34	1	0.30	97.08	40.30	39.97	11.45	11.45	68.50	1.000	1.000	50.0	0.18	97.08	22.00	4.413	40.30	2760.82	0.29	Good
W18x234	0.27	68.8	1.16	2.76	16.8	8.44	2.85	Not Slender	42.65	25.26	42.65	0.20	1	0.47	157.32	43.77	38.35	19.49	19.49	68.80	1.000	1.000	50.0	0.14	157.32	22.00	7.151	43.77	3011.52	0.27	Good
W40X235	0.26	69.0	0.830	3.77	41.2	15.9	2.54	Slender	22.64	28.35	28.35	0.28	1	1.15	356.21	47.15	36.95	34.20	30.75	66.14	0.959	0.959	47.9	0.09	356.21	21.09	16.891	45.19	3118.35	0.26	Good
W30X235	0.24	69.2	0.830	5.02	32.2	13.0	3.51	Not Slender	27.69	20.51	27.69	0.37	1	0.90	373.23	47.27	36.90	26.73	26.73	69.20	1.000	1.000	50.0	0.09	373.23	22.00	16.965	47.27	3271.33	0.24	Good
W27X235	0.25	69.4	0.910	4.41	26.2	11.8	3.33	Not Slender	30.51	21.62	30.51	0.33	1	0.73	307.51	46.71	37.13	23.84	23.84	69.40	1.000	1.000	50.0	0.10	307.51	22.00	13.978	46.71	3241.71	0.25	Good
W33X241	0.24	71.0	0.830	5.66	35.9	14.1	3.62	Slender	25.53	19.89	25.53	0.42	1	1.00	439.07	47.67	36.75	29.80	29.80	71.00	1.000	1.000	50.0	0.09	439.07	22.00	19.958	47.67	3384.76	0.24	Good
W36X247	0.24	72.5	0.800	6.11	40.1	15.2	3.74	Slender	23.68	19.25	23.68	0.45	1	1.12	510.25	47.99	36.63	32.08	29.44	70.39	0.971	0.971	48.5	0.08	510.25	21.36	23.889	46.59	3377.90	0.24	Good
W40X249	0.24	73.3	0.750	5.55	45.6	16.3	3.55	Slender	22.09	20.28	22.09	0.41	1	1.27	586.77	48.25	36.53	34.20	28.45	68.99	0.941	0.941	47.1	0.07	586.77	20.71	28.338	45.41	3328.61	0.24	Good
W24X250	0.24	73.5	1.04	3.49	20.7	10.7	3.14	Not Slender	33.64	22.93	33.64	0.26	1	0.58	252.85	46.03	37.40	21.53	21.53	73.50	1.000	1.000	50.0	0.11	252.85	22.00	11.493	46.03	3383.08	0.24	Good
W12X252	0.28	74.0	1.40	2.89	6.96	6.06	3.34	Not Slender	59.41	21.56	59.41	0.21	1	0.19	81.10	38.63	40.83	9.74	9.74	74.00	1.000	1.000	50.0	0.20	81.10	22.00	3.687	38.63	2858.50	0.28	Good
W36X256	0.22	75.4	0.960	3.53	33.8	14.9	2.65	Not Slender	24.16	27.17	27.17	0.26	1	0.94	387.73	47.37	36.87	32.45	32.45	75.40	1.000	1.000	50.0	0.09	387.73	22.00	17.624	47.37	3571.91	0.22	Good
W14X257	0.26	75.6	1.18	4.23	9.71	6.71	4.13	Not Slender	53.65	17.43	53.65	0.31	1	0.27	99.43	40.51	39.87	11.46	11.46	75.60	1.000	1.000	50.0	0.18	99.43	22.00	4.520	40.51	3062.58	0.26	Good
W18x258	0.24	75.9	1.28	2.56	12.5	8.53	2.88	Not Slender	42.20	25.00	42.20	0.19	1	0.35	160.69	43.89	38.30	16.00	16.00	75.90	1.000	1.000	50.0	0.14	160.69	22.00	7.304	43.89	3331.59	0.24	Good
W27X258	0.23	76.0	0.980	4.03	24.4	11.9	3.36	Not Slender	30.25	21.43	30.25	0.30	1	0.68	312.74	46.76	37.10	23.91	23.91	76.00	1.000	1.000	50.0	0.10	312.74	22.00	14.216	46.76	3554.04	0.23	Good
W30X261	0.22	76.9	0.930	4.59	28.7	13.1	3.53	Not Slender	27.48	20.40	27.48	0.34	1	0.80	379.00	47.31	36.89	26.69	26.69	76.90	1.000	1.000	50.0	0.09	379.00	22.00	17.227	47.31	3638.44	0.22	Good
W44X262	0.24	76.9	0.785	5.57	49.6	17.7	3.47	Slender	20.34	20.75	20.75	0.41	1	1.38	664.80	48.45	36.45	38.94	30.31	70.13	0.912	0.912	45.6	0.07	664.80	20.06	33.138	44.18	3397.61	0.24	Good
W36X262	0.22	77.0	0.840	5.75	38.2	15.3	3.76	Slender	23.53	19.15	23.53	0.43	1	1.06	516.98	48.02	36.62	32.09	30.52	75.68	0.983	0.983	49.1	0.08	516.98	21.62	23.909	47.19	3633.84	0.22	Good
W33X263	0.22	77.5	0.870	5.03	34.3	14.3	3.66	Not Slender	25.17	19.67	25.17	0.37	1	0.96	451.61	47.74	36.73	29.84	29.84	77.50	1.000	1.000	50.0	0.08	451.61	22.00	20.528	47.74	3699.53	0.22	Good
W40X264	0.22	77.6	0.960	3.45	35.6	15.8	2.52	Not Slender	22.78	28.57	28.57	0.26	1	0.99	350.62	47.10	36.97	34.18	34.18	77.60	1.000	1.000	50.0	0.10	350.62	22.00	15.937	47.10	3655.19	0.22	Good
W40X277	0.21	81.4	0.830	5.03	41.2	16.4	3.58	Slender	21.95	20.11	21.95	0.37	1	1.15	593.99	48.27	36.52	34.20	30.75	78.54	0.965	0.965	48.2	0.07	593.99	21.23	27.982	46.57	3791.10	0.21	Good
W12X279	0.25	81.9	1.53	2.66	6.35	6.16	3.38	Not Slender	58.44	21.30	58.44	0.20	1	0.18	83.80	38.95	40.66	9.72	9.72	81.90	1.000	1.000	50.0	0.19	83.80	22.00	3.809	38.95	3190.06	0.25	Good
W24X279	0.21	82.0	1.16	3.18	18.6	10.8	3.17	Not Slender	33.33	22.71	33.33	0.24	1	0.52	257.60	46.10	37.37	21.58	21.58	82.00	1.000	1.000	50.0	0.11	257.60	22.00	11.709	46.10	3780.08	0.21	Good
W40X278	0.21	82.0	1.03	3.31	33.3	15.8	2.52	Not Slender	22.78	28.57	28.57	0.25	1	0.93	350.62	47.10	36.97	34.30	34.30	82.00	1.000	1.000	50.0	0.10	350.62	22.00	15.937	47.10	3862.44	0.21	Good
W27X281	0.21	82.9	1.06	3.72	22.5	12.0	3.39	Not Slender	30.00	21.24	30.00	0.28	1	0.63	318.02	46.82	37.08	23.85	23.85	82.90	1.000	1.000	50.0	0.10	318.02	22.00	14.455	46.82	3881.02	0.21	Good
W36X282	0.20	82.9	0.885	5.29	36.2	15.4	3.80	Slender	23.38	18.95	23.38	0.39	1	1.01	523.76	48.04	36.61	32.04	32.04	82.90	1.000	1.000	50.0	0.08	523.76	22.00	23.807	48.04	3982.65	0.20	Good
W14X283	0.24	83.3	1.29	3.89	8.84	6.79	4.17	Not Slender	53.02	17.27	53.02	0.29	1	0.25	101.82	40.71	39.77	11.40	11.40	83.30	1.000	1.000	50.0	0.18	101.82	22.00	4.628	40.71	3391.19	0.24	Good
W18x283	0.22	83.3	1.40	2.38	11.3	8.61	2.91	Not Slender	41.81	24.74	41.81	0.18	1	0.31	163.72	44.00	38.25	15.82	15.82	83.30	1.000	1.000	50.0	0.14	163.72	22.00	7.442	44.00	3665.23	0.22	Good
W44X290	0.21	85.4	0.865	5.02	45.0	17.8	3.49	Slender	20.22	20.63	20.63	0.37	1	1.25	672.49	48.47	36.45	38.93	32.72	80.03	0.937	0.937	46.9	0.07	672.49	20.62	32.618	45.42	3879.00	0.21	Good
W33X291	0.20	85.7	0.960	4.60	31.0	14.4	3.68	Not Slender	25.00	19.57	25.00	0.34	1	0.86	457.95	47.77	36.71	29.76	29.76	85.70	1.000	1.000	50.0	0.08	457.95	22.00	20.816	47.77	4093.59	0.20	Good
W30X292	0.20	85.9	1.02	4.12	26.2	13.2	3.58	Not Slender	27.27	20.11	27.27	0.31	1	0.73	384.80	47.35	36.87	26.72	26.72	85.90	1.000	1.000	50.0	0.09	384.80	22.00	17.491	47.35	4067.66	0.20	Good
W40X294	0.20	86.3	1.06	3.11	32.2	15.9	2.55	Not Slender	22.64	28.24	28.24	0.23	1	0.90	359.02	47.17	36.95	34.13	34.13	86.30	1.000	1.000	50.0	0.09	359.02	22.00	16.319	47.17	4070.66	0.20	Good
W40X297	0.19	87.4	0.930	4.80	36.8	16.3	3.54	Slender	22.09	20.34	22.09	0.36	1	1.03	586.77	48.25	36.53	34.22	33.43	86.67	0.992	0.992	49.6	0.07	586.77	21.82	26.897	47.84	4181.46	0.19	Good
W36X302	0.19	88.8	0.945	4.96	33.9	15.4	3.82	Not Slender	23.38	18.85	23.38	0.37	1	0.94	523.76	48.04	36.61	32.04	32.04	88.80	1.000	1.000	50.0	0.08	523.76	22.00	23.807	48.04	4266.09	0.19	Good
W12X305	0.23	89.6	1.63	2.45	5.98	6.29	3.42	Not Slender	57.23	21.05	57.23	0.18	1	0.17	87.38	39.35	40.45	9.75	9.75	89.60	1.000	1.000	50.0	0.19	87.38	22.00	3.972	39.35	3525.82	0.23	Good
W24X306	0.19	89.8	1.26	2.94	17.1	10.9	3.20	Not Slender	33.03	22.50	33.03	0.22	1	0.48	262.39	46.17	37.34	21.55	21.55	89.80	1.000	1.000	50.0	0.11	262.39	22.00	11.927	46.17	4145.80	0.19	Good
W27X307	0.19	90.4	1.16	3.46	20.6	12.0	3.41	Not Slender	30.00	21.11	30.00	0.26	1	0.57	318.02	46.82	37.08	23.90	23.90	90.40	1.000	1.000	50.0	0.10	318.02	22.00	14.455	46.82	4232.13	0.19	Good
W14X311	0.21	91.4	1.41	3.59	8.09	6.88	4.20	Not Slender	52.33	17.14	52.33	0.27	1	0.23	104.54	40.93	39.66	11.41	11.41	91.40	1.000	1.000	50.0	0.17	104.54	22.00	4.752	40.93	3740.88	0.21	Good
W18x311	0.20	91.6	1.52	2.19	10.4	8.72	2.95	Not Slender	41.28	24.41	41.28	0.16	1	0.29	167.93	44.14	38.19	15.81	15.81	91.60	1.000	1.000	50.0	0.14	167.93	22.00	7.633	44.14	4043.37	0.20	Good
W33X318	0.18	93.6	1.04	4.23	28.7	14.5	3.71	Not Slender	24.83	19.41	24.83	0.31	1	0.80	464.33	47.80	36.70	29.85	29.85	93.60	1.000	1.000	50.0	0.08	464.33	22.00	21.106	47.80	4473.75	0.18	Good
W40X324	0.17	95.3	1.00	4.40	34.2	16.4	3.58	Not Slender	21.95	20.11	21.95	0.33	1	0.95	593.99	48.27	36.52	34.20	34.20	95.30	1.000	1.000	50.0	0.07	593.99	22.00	27.000	48.27	4600.04	0.17	Good
W30X326	0.18	95.8	1.14	3.75	23.4	13.2	3.60	Not Slender	27.27	20.00	27.27	0.28	1	0.65	384.80	47.35	36.87	26.68	26.68	95.80	1.000	1.000	50.0	0.09	384.80	22.00	17.491	47.35	4536.45	0.18	Good
W40X327	0.18	96.0	1.18	2.85	29.0	16.0	2.58	Not Slender	22.50	27.91	27.91	0.21	1	0.81	367.51	47.23	36.92	34.22	34.22	96.00	1.000	1.000	50.0	0.09	367.51	22.00	16.705	47.23	4534.31	0.18	Good
W36X330	0.17	97.0	1.02	4.49	31.4	15.5	3.83	Not Slender	23.23	18.80	23.23	0.33	1	0.88	530.59	48.07	36.60	32.03	32.03	97.00	1.000	1.000	50.0	0.08	530.59	22.00	24.118	48.07	4662.43	0.17	Good
W40X331	0.17	97.5	1.22	2.86	28.0	15.9	2.57	Not Slender	22.64	28.02	28.02	0.21	1	0.78	364.67	47.21	36.93	34.16	34.16	97.50	1.000	1.000	50.0	0.09	364.67	22.00	16.576	47.21	4603.11	0.17	Good
W24X335	0.18	98.4	1.38	2.73	15.6	11.0	3.23	Not Slender	32.73	22.29	32.73	0.20	1	0.43	267.23	46.23	37.32	21.53	21.53	98.40	1.000	1.000	50.0	0.11	267.23	22.00	12.147	46.23	4549.40	0.18	Good
W44X335	0.17	98.5	1.03	4.50	38.0	17.8	3.49	Slender	20.22	20.63	20.63	0.33	1	1.06	672.49	48.47	36.45	39.14	37.36	96.67	0.981	0.981	49.1	0.07	672.49	21.59	31.146	47.57	4685.45	0.17	Good
W12X336	0.20	98.8	1.78	2.26	5.47	6.41	3.47	Not Slender	56.16	20.75	56.16	0.17	1	0.15	90.74	39.70	40.27	9.74	9.74	98.80	1.000	1.000	50.0	0.19	90.74	22.00	4.125	39.70	3922.54	0.20	Good
W27X336	0.17	98.9	1.26	3.19	18.9	12.1	3.45	Not Slender	29.75	20.87	29.75	0.24	1	0.53	323.34	46.87	37.06	23.81	23.81	98.90	1.000	1.000	50.0	0.10	323.34	22.00	14.697	46.87	4635.09	0.17	Good
W14X342	0.19	101	1.54	3.31	7.41	6.98	4.24	Not Slender	51.58	16.98	51.58	0.25	1	0.21	107.60	41.16	39.55	11.41	11.41	101.00	1.000	1.000	50.0	0.17	107.60	22.00	4.891	41.16	4157.40	0.19	Good
W33X354	0.16	104	1.16	3.85	25.7	14.5	3.74	Not Slender	24.83	19.25	24.83	0.29	1	0.72	464.33	47.80	36.70	29.81	29.81	104.00	1.000	1.000	50.0	0.08	464.33	22.00	21.106	47.80	4970.84	0.16	Good
W30X357	0.16	105	1.24	3.45	21.6	13.3	3.64	Not Slender	27.07	19.78	27.07	0.26	1	0.60	390.66	47.39	36.86	26.78	26.78	105.00	1.000	1.000	50.0	0.09	390.66	22.00	17.757	47.39	4976.16	0.16	Good
W36X361	0.16	106	1.12	4.16	28.6	15.6	3.85	Not Slender	23.08	18.70	23.08	0.31	1	0.80	537.45	48.09	36.59	32.03	32.03	106.00	1.000	1.000	50.0	0.08	537.45	22.00	24.430	48.09	5097.59	0.16	Good
W40X362	0.15	107	1.12	3.99	30.5	16.5	3.60	Not Slender	21.82	20.00	21.82	0.30	1	0.85	601.26	48.29	36.51	34.16	34.16	107.00	1.000	1.000	50.0	0.07	601.26	22.00	27.330	48.29	5166.99	0.15	Good
W27X368	0.16	108	1.38	2.96	17.3	12.2	3.48	Not Slender	29.51	20.69	29.51	0.22	1	0.48	328.71	46.92	37.04	23.87	23.87	108.00	1.000	1.000	50.0	0.10	328.71	22.00	14.941	46.92	5066.92	0.16	Good
W14X370	0.18	109	1.66	3.10	6.89	7.07	4.27	Not Slender	50.92	16.86	50.92	0.23	1	0.19	110.39	41.37	39.45	11.44	11.44	109.00	1.000	1.000	50.0	0.17	110.39	22.00	5.018	41.37	4508.83	0.18	Good
W24X370	0.16	109	1.52	2.51	14.2	11.1	3.27	Not Slender	32.43	22.02	32.43	0.19	1	0.40	272.11	46.30	37.29	21.58	21.58	109.00	1.000	1.000	50.0	0.11	272.11	22.00	12.368	46.30	5046.56	0.16	Good
W40X372	0.15	109	1.16	3.93	29.5	16.5	3.60	Not Slender	21.82	20.00	21.82	0.29	1	0.82	601.26	48.29	36.51	34.22	34.22	109.00	1.000	1.000	50.0	0.07	601.26	22.00	27.330	48.29	5263.57	0.15	Good
W33X387	0.15	114	1.26	3.55	23.7	14.6	3.77	Not Slender	24.66	19.10	24.66	0.26	1	0.66	470.76	47.83	36.69	29.86	29.86	114.00	1.000	1.000	50.0	0.08	470.76	22.00	21.398	47.83	5452.16	0.15	Good
W30X391	0.15	115	1.36	3.19	19.7	13.4	3.67	Not Slender	26.87	19.62	26.87	0.24	1	0.55	396.55	47.43	36.84	26.79	26.79	115.00	1.000	1.000	50.0	0.09	396.55	22.00	18.025	47.43	5454.42	0.15	Good
W40X392	0.15	115	1.42	2.45	24.1	16.1	2.64	Not Slender	22.36	27.27	27.27	0.18	1	0.67	384.80	47.35	36.87	34.22	34.22	115.00	1.000	1.000	50.0	0.09	384.80	22.00	17.491	47.35	5445.64	0.15	Good
W36X395	0.14	116	1.22	3.83	26.3	15.7	3.88	Not Slender	22.93	18.56	22.93	0.28	1	0.73	544.37	48.11	36.58	32.09	32.09	116.00	1.000	1.000	50.0	0.08	544.37	22.00	24.744	48.11	5581.26	0.14	Good
W14X398	0.16	117	1.77	2.92	6.44	7.16	4.31	Not Slender	50.28	16.71	50.28	0.22	1	0.18	113.22	41.56	39.36	11.40	11.40	117.00	1.000	1.000	50.0	0.17	113.22	22.00	5.146	41.56	4862.73	0.16	Good
W40X397	0.14	117	1.22	3.66	28.0	16.6	3.64	Not Slender	21.69	19.78	21.69	0.27	1	0.78	608.57	48.31	36.51	34.16	34.16	117.00	1.000	1.000	50.0	0.07	608.57	22.00	27.662	48.31	5652.25	0.14	Good
W14X426	0.15	125	1.88	2.75	6.08	7.26	4.34	Not Slender	49.59	16.59	49.59	0.20	1	0.17	116.40	41.77	39.26	11.43	11.43	125.00	1.000	1.000	50.0	0.17	116.40	22.00	5.291	41.77	5221.57	0.15	Good
W40X431	0.13	127	1.34	3.44	25.5	16.6	3.65	Not Slender	21.69	19.73	21.69	0.26	1	0.71	608.57	48.31	36.51	34.17	34.17	127.00	1.000	1.000	50.0	0.07	608.57	22.00	27.662	48.31	6135.35	0.13	Good
W36X441	0.13	130	1.36	3.48	23.6	15.7	3.92	Not Slender	22.93	18.37	22.93	0.26	1	0.66	544.37	48.11	36.58	32.10	32.10	130.00	1.000	1.000	50.0	0.08	544.37	22.00	24.744	48.11	6254.86	0.13	Good
W14X455	0.14	134	2.02	2.62	5.66	7.33	4.38	Not Slender	49.11	16.44	49.11	0.19	1	0.16	118.66	41.92	39.19	11.43	11.43	134.00	1.000	1.000	50.0	0.16	118.66	22.00	5.394	41.92	5616.68	0.14	Good
W36X487	0.12	143	1.50	3.19	21.4	15.8	3.96	Not Slender	22.78	18.18	22.78	0.24	1	0.60	551.32	48.14	36.57	32.10	32.10	143.00	1.000	1.000	50.0	0.08	551.32	22.00	25.060	48.14	6883.68	0.12	Good
W14X500	0.13	147	2.19	2.43	5.21	7.48	4.43	Not Slender	48.13	16.25	48.13	0.18	1	0.15	123.57	42.21	39.06	11.41	11.41	147.00	1.000	1.000	50.0	0.16	123.57	22.00	5.617	42.21	6204.88	0.13	Good
W40X503	0.11	148	1.54	2.98	22.3	16.8	3.72	Not Slender	21.43	19.35	21.43	0.22	1	0.62	623.32	48.35	36.49	34.34	34.34	148.00	1.000	1.000	50.0	0.07	623.32	22.00	28.333	48.35	7155.67	0.11	Good
W36X529	0.11	156	1.61	2.96	19.9	16.0	4.00	Not Slender	22.50	18.00	22.50	0.22	1	0.55	565.37	48.18	36.55	32.04	32.04	156.00	1.000	1.000	50.0	0.08	565.37	22.00	25.699	48.18	7516.56	0.11	Good
W27X539	0.11	159	1.97	2.15	12.1	12.7	3.65	Not Slender	28.35	19.73	28.35	0.16	1	0.34	356.21	47.15	36.95	23.84	23.84	159.00	1.000	1.000	50.0	0.09	356.21	22.00	16.191	47.15	7496.38	0.11	Good
W14X550	0.12	162	2.38	2.25	4.79	7.63	4.49	Not Slender	47.18	16.04	47.18	0.17	1	0.13	128.57	42.49	38.93	11.40	11.40	162.00	1.000	1.000	50.0	0.16	128.57	22.00	5.844	42.49	6883.27	0.12	Good
W40X593	0.10	174	1.79	2.58	19.1	17.0	3.80	Not Slender	21.18	18.95	21.18	0.19	1	0.53	638.25	48.39	36.48	34.19	34.19	174.00	1.000	1.000	50.0	0.07	638.25	22.00	29.011	48.39	8419.36	0.10	Good
W14X605	0.11	178	2.60	2.09	4.39	7.80	4.55	Not Slender	46.15	15.82	46.15	0.15	1	0.12	134.36	42.79	38.79	11.41	11.41	178.00	1.000	1.000	50.0	0.15	134.36	22.00	6.107	42.79	7616.36	0.11	Good
W36X652	0.09	192	1.97	2.48	16.3	16.2	4.10	Not Slender	22.22	17.56	22.22	0.18	1	0.45	579.59	48.23	36.54	32.11	32.11	192.00	1.000	1.000	50.0	0.07	579.59	22.00	26.345	48.23	9259.55	0.09	Good
W14X665	0.09	196	2.83	1.95	4.03	7.98	4.62	Not Slender	45.11	15.58	45.11	0.14	1	0.11	140.64	43.09	38.66	11.40	11.40	196.00	1.000	1.000	50.0	0.15	140.64	22.00	6.393	43.09	8445.02	0.09	Good
W14X730	0.09	215	3.07	1.82	3.71	8.17	4.69	Not Slender	44.06	15.35	44.06	0.13	1	0.10	147.41	43.38	38.52	11.39	11.39	215.00	1.000	1.000	50.0	0.15	147.41	22.00	6.701	43.38	9327.26	0.09	Good
W36X800	0.07	236	2.38	2.10	13.5	16.6	4.22	Not Slender	21.69	17.06	21.69	0.16	1	0.38	608.57	48.31	36.51	32.13	32.13	236.00	1.000	1.000	50.0	0.07	608.57	22.00	27.662	48.31	11401.12	0.07	Good