

WT Column Conversion Factors



Member Size	W/D Value	Metric Designation	M/D Value	Hp/A Value	Square Ft. / Lin. Foot	Square M. / Lin. Meter
WT22 x 167.5	2.22	WT560 x 249	131.0	60.4	6.28	1.91
145	1.95	216	115.1	68.7	6.21	1.89
131	1.76	195	103.8	76.1	6.19	1.89
115	1.56	171	92.0	85.9	6.16	1.88
WT20 x 296.5	3.94	WT500 x 441.5	232.5	34.0	6.28	1.91
251.5	3.41	374	201.2	39.3	6.14	1.87
196	3.00	206	177.0	44.7	5.44	1.66
215.5	2.97	321	175.2	45.1	6.04	1.84
198.5	2.75	296	162.3	48.7	6.01	1.83
186	2.59	292	152.8	51.7	5.98	1.82
181	2.53	277	149.3	53.0	5.96	1.82
165.5	2.58	197	152.2	51.9	5.34	1.63
163.5	2.56	186	151.0	52.3	5.33	1.62
162	2.28	270	134.5	58.8	5.91	1.80
148.5	2.11	247	124.5	63.5	5.86	1.79
139	2.20	175	129.8	60.9	5.26	1.60
132	2.11	161	124.5	63.5	5.23	1.59
138.5	1.98	244	116.8	67.7	5.84	1.78
124.5	1.78	241	105.0	75.3	5.83	1.78
117.5	1.89	157	111.5	70.9	5.19	1.58
107.5	1.55	221	91.5	86.4	5.79	1.76
105.5	1.70	148	100.3	78.8	5.16	1.57
99.5	1.44	207	85.0	93.0	5.76	1.76
91.5	1.49	136	87.9	89.9	5.13	1.56
83.5	1.37	124.5	80.8	97.8	5.09	1.55
74.5	1.23	111	72.6	108.9	5.06	1.54
WT18 x 399	5.19	WT460 x 594	306.2	25.8	6.41	1.95
325	4.36	483.5	257.2	30.7	6.21	1.89
263.5	3.63	392	214.2	36.9	6.04	1.84
219.5	3.09	326.5	182.3	43.4	5.93	1.81
196.5	2.80	292.5	165.2	47.9	5.86	1.79
179.5	2.58	267	152.2	51.9	5.81	1.77
164	2.37	244	139.8	56.5	5.76	1.76
128	2.10	172.5	123.9	63.8	5.08	1.55
150	2.17	223	128.0	61.7	5.76	1.76
140	2.04	208.5	120.4	65.7	5.73	1.75
116	1.91	171	112.7	70.1	5.06	1.54
130	1.90	193.5	112.1	70.5	5.69	1.73
122.5	1.80	190.5	106.2	74.4	5.66	1.73
105	1.74	156.5	102.7	77.0	5.02	1.53
115	1.69	182.5	99.7	79.3	5.66	1.73
97	1.62	144.5	95.6	82.7	4.98	1.52
91	1.52	135.5	89.7	88.1	4.98	1.52
85	1.43	126.5	84.4	93.7	4.95	1.51
80	1.35	119	79.7	99.2	4.93	1.50
75	1.27	111.5	74.9	105.5	4.92	1.50
67.5	1.15	100.5	67.9	116.5	4.90	1.49

The W/D ratios and Square foot factors herein were obtained from the AISC Manual of Steel Construction – Load and Resistance Factor Design – Third Edition.

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Member Size	W/D Value	Metric Designation	M/D Value	Hp/A Value	Square Ft. / Lin. Foot	Square M. / Lin. Meter
VT16.5 x 193.5	2.86	WT420 x 288	168.7	46.8	5.63	1.72
	177 2.64	263.5	155.8	50.8	5.59	1.70
	159 2.39	236.5	141.0	56.1	5.54	1.69
	145.5 2.21	216.5	130.4	60.6	5.48	1.67
	131.5 2.01	196	118.6	66.7	5.46	1.66
	120.5 1.85	179.5	109.2	72.4	5.44	1.66
	110.5 1.70	164.5	100.3	78.8	5.41	1.65
	100.5 1.56	149.5	92.0	85.9	5.36	1.63
	76 1.36	113	80.2	98.5	4.65	1.42
	70.5 1.27	105	74.9	105.5	4.64	1.41
	84.5 1.21	125.5	71.4	110.7	4.67	1.42
	65 1.18	96.5	69.6	113.5	4.60	1.40
	59 1.07	88	63.1	125.2	4.58	1.40
	WT15 x 195.5	3.07	WT380 x 291	181.1	43.6	5.30
178.5 2.83		265.5	167.0	47.3	5.25	1.60
163 2.61		242	154.0	51.3	5.20	1.58
146 2.36		217	139.2	56.8	5.15	1.57
130.5 2.13		194.5	125.7	62.9	5.10	1.55
117.5 1.93		175	113.9	69.4	5.07	1.55
105.5 1.75		157	103.3	76.6	5.03	1.53
95.5 1.59		142	93.8	84.3	4.99	1.52
74 1.46		110	86.1	91.8	4.23	1.29
86.5 1.45		128.5	85.6	92.4	4.97	1.51
62 1.23		92.5	72.6	108.9	4.20	1.28
66 1.30		98	76.7	103.1	4.22	1.29
58 1.16		86.5	68.4	115.5	4.18	1.27
54 1.08		80.5	63.7	124.1	4.17	1.27
49.5 0.99	73.5	58.6	134.8	4.15	1.26	
45 0.91	67	53.5	147.7	4.13	1.26	
VT13.5 x 296.5	4.32	WT345 x 401	254.9	31.0	5.20	1.58
	184 3.12	274	184.1	42.9	4.92	1.50
	168 2.88	250	169.9	46.5	4.87	1.48
	153.5 2.66	228.5	156.9	50.4	4.80	1.46
	140.5 2.46	209	145.1	54.5	4.77	1.45
	129 2.27	192	133.9	59.0	4.73	1.44
	117.5 2.09	175	123.3	64.1	4.68	1.43
	108.5 1.94	161.5	114.5	69.1	4.65	1.42
	97 1.75	144.5	103.3	76.6	4.62	1.41
	89 1.61	132.5	95.0	83.2	4.61	1.41
	80.5 1.47	120	86.7	91.1	4.57	1.39
	64.5 1.38	96	81.4	97.1	3.90	1.19
	73 1.34	108.5	79.1	100.0	4.55	1.39
	57 1.22	85	72.0	109.8	3.88	1.18
51 1.10	76	64.9	121.8	3.85	1.17	
47 1.02	70	60.2	131.4	3.85	1.17	

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Member Size	W/D Value	Metric Designation	M/D Value	Hp/A Value	Square Ft. / Lin. Foot	Square M. / Lin. Meter
WT13.5 x 42	0.92	WT345 x 62.5	54.0	146.4	3.83	1.17
WT12 x 185	3.39	WT305 x 275.5	200.0	39.5	4.55	1.39
167.5	3.11	249	183.5	43.1	4.48	1.37
153	2.88	227.5	169.9	46.5	4.43	1.35
139.5	2.65	207.5	156.4	50.6	4.38	1.34
125	2.40	186	141.6	55.8	4.33	1.32
114.5	2.23	170.5	131.6	60.1	4.28	1.30
103.5	2.03	153.5	119.8	66.0	4.25	1.30
96	1.90	142.5	112.1	70.5	4.22	1.29
88	1.75	131	103.3	76.6	4.18	1.27
81	1.61	120.5	95.0	83.2	4.18	1.27
73	1.47	108.5	86.7	91.1	4.15	1.26
65.5	1.33	97.5	78.5	100.7	4.12	1.26
51.5	1.23	76.5	72.6	108.9	3.48	1.06
58.5	1.19	87	70.2	112.6	4.08	1.24
47	1.12	70	66.1	119.6	3.48	1.06
52	1.07	77.5	63.1	125.2	4.07	1.24
42	1.01	62.5	59.6	132.7	3.46	1.05
38	0.92	56.5	54.4	145.3	3.43	1.05
31	0.84	46	49.6	159.5	3.09	0.94
34	0.83	50.5	48.9	161.6	3.42	1.04
27.5	0.75	41	44.1	179.4	3.07	0.94
WT10.5 x 100.5	2.12	WT265 x 150	125.1	63.2	3.96	1.21
91	1.94	136	114.5	69.1	3.92	1.19
83	1.79	124	105.6	74.9	3.87	1.18
73.5	1.59	109.5	93.8	84.3	3.86	1.18
66	1.44	98	85.0	93.0	3.82	1.16
61	1.33	91	78.5	100.7	3.81	1.16
46.5	1.23	69	72.6	108.9	3.15	0.96
55.5	1.22	82.5	72.0	109.8	3.78	1.15
50.5	1.12	75	66.1	119.6	3.77	1.15
41.5	1.11	61.5	65.5	120.7	3.13	0.95
36.5	0.98	54.5	57.9	136.6	3.10	0.94
34	0.91	50.5	53.9	146.8	3.09	0.94
28.5	0.85	37	50.0	158.0	2.80	0.85
31	0.84	46	49.6	159.5	3.08	0.94
25	0.75	36	44.4	177.9	2.77	0.84
27.5	0.75	42.5	44.2	178.9	3.06	0.93
22	0.67	33	39.4	200.9	2.75	0.84
24	0.66	41	39.0	202.7	3.03	0.92
WT9 x 87.5	2.08	WT230 x 130	122.7	64.4	3.51	1.07
79	1.90	117.5	112.1	70.5	1.90	0.58
71.5	1.74	106.5	102.7	77.0	3.43	1.05
65	1.59	96.5	93.8	84.3	3.41	1.04
59.5	1.46	88.5	86.1	91.8	3.40	1.04

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WT9 x 53	1.31	WT230 x 79	77.3	102.3	3.37	1.03
48.5	1.21	72	71.4	110.7	3.33	1.01
43	1.08	64	63.7	124.1	3.33	1.01
35.5	1.07	53	63.1	125.2	2.76	0.84
32.5	0.99	48.5	58.3	135.6	2.74	0.84
38	0.96	56.5	56.8	139.3	3.29	1.00
30	0.92	44.5	54.0	146.4	2.73	0.83
27.5	0.84	41	49.8	158.7	2.72	0.83
25	0.77	37	45.5	173.6	2.70	0.82
23	0.78	34	45.8	172.4	2.47	0.75
20	0.68	30	40.1	197.0	2.45	0.75
17.5	0.60	26	35.5	222.9	2.43	0.74
WT8 x 50	1.35	WT205 x 74.5	79.7	99.2	3.08	0.94
44.5	1.21	66	71.4	110.7	3.07	0.94
38.5	1.06	57	62.5	126.4	3.03	0.92
28.5	0.95	42.5	55.9	141.5	2.51	0.77
33.5	0.93	50	55.0	143.6	2.99	0.91
25	0.84	37	49.6	159.5	2.48	0.76
22.5	0.76	33.5	44.8	176.3	2.47	0.75
20	0.68	30	40.1	197.0	2.45	0.75
18	0.62	26.5	36.3	217.5	2.43	0.74
15.5	0.59	23	34.6	228.3	2.20	0.67
13	0.50	19.5	29.4	269.0	2.18	0.66
WT7 x 404	6.86	WT180 x 601	404.7	19.5	4.91	1.50
365	6.39	543	377.0	21.0	4.76	1.45
332.5	5.95	495	351.1	22.5	4.66	1.42
302.5	5.53	450	326.3	24.2	4.56	1.39
275	5.14	409	303.3	26.1	4.46	1.36
250	4.76	372	280.8	28.1	4.38	1.34
227.5	4.42	338.5	260.8	30.3	4.29	1.31
213	4.18	317	246.6	32.1	4.25	1.30
199	3.95	296	233.1	33.9	4.20	1.28
185	3.71	275.5	218.9	36.1	4.15	1.26
171	3.21	254.5	189.4	41.7	4.10	1.25
155.5	2.96	231.5	174.6	45.3	4.03	1.23
141.5	2.72	210.5	160.5	49.3	3.98	1.21
128.5	2.49	191	146.9	53.8	3.94	1.20
116.5	2.28	173.5	134.5	58.8	3.89	1.19
105.5	2.11	157	124.5	63.5	3.85	1.17
96.5	1.93	143.5	113.9	69.4	3.82	1.16
88	1.76	131	103.8	76.1	3.79	1.16
79.5	1.62	118.5	95.6	82.7	3.76	1.15
72.5	1.53	108	90.3	87.6	3.73	1.14
66	1.40	98	82.6	95.7	3.58	1.09
60	1.29	89.5	76.1	103.9	3.57	1.09
41	1.21	61	71.4	110.7	2.82	0.86
54.5	1.17	81	69.0	114.5	3.53	1.08

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WT7 x 37	1.10	WT180 x 55	64.9	121.8	2.81	0.86
49.5	1.07	73.5	63.1	125.2	3.53	1.08
45	1.07	67	63.1	125.2	3.49	1.06
34	1.02	50.5	60.2	131.4	2.78	0.85
30.5	0.92	45.5	54.3	145.5	2.76	0.84
26.5	0.90	39.5	53.3	148.2	2.44	0.74
24	0.83	36	48.7	162.4	2.43	0.74
21.5	0.74	32	43.9	180.1	2.41	0.73
19	0.70	28.5	41.5	190.3	2.25	0.69
17	0.63	25.5	37.3	212.0	2.24	0.68
15	0.56	22.5	33.2	238.4	2.23	0.68
13	0.56	19.5	32.8	241.0	1.95	0.59
11	0.48	16.5	28.1	281.5	1.93	0.59
WT6 x 168	3.93	WT155 x 250	231.9	34.1	3.57	1.09
152.5	3.64	227	214.8	36.8	3.49	1.06
139.5	3.38	207.5	199.4	39.6	3.44	1.05
126	3.10	187.5	182.9	43.2	3.39	1.03
115	2.87	171	169.3	46.7	3.34	1.02
105	2.66	156.5	156.9	50.4	3.29	1.00
95	2.44	141.5	144.0	54.9	3.25	0.99
85	2.21	126.5	130.4	60.6	3.21	0.98
76	2.01	112.5	118.6	66.7	3.16	0.96
68	1.81	101	106.8	74.0	3.13	0.95
60	1.62	89.5	95.6	82.7	3.08	0.94
53	1.45	79	85.6	92.4	3.04	0.93
48	1.32	71.5	77.9	101.5	3.03	0.92
43.5	1.21	64.5	71.4	110.7	3.00	0.91
39.5	1.10	58.5	64.9	121.8	2.98	0.91
36	1.01	53.5	59.6	132.7	2.96	0.90
29	0.92	43	54.3	145.5	2.63	0.80
32.5	0.92	48.5	54.2	146.0	2.95	0.90
25	0.91	37	53.5	147.9	2.30	0.70
26.5	0.84	39.5	49.8	158.7	2.62	0.80
22.5	0.82	33.5	48.3	163.8	2.29	0.70
20	0.74	30	43.4	182.3	2.27	0.69
17.5	0.70	26	41.3	191.4	2.08	0.63
15	0.61	22.5	35.7	221.5	2.07	0.63
13	0.53	19.5	31.2	253.8	2.05	0.62
11	0.55	16.5	32.6	242.3	1.66	0.51
9.5	0.48	14	28.4	278.0	1.64	0.50
8	0.41	12	24.2	326.8	1.63	0.50
7	0.36	10.5	21.3	371.1	1.62	0.49
WT5 x 56	1.77	WT125 x 83.5	104.4	75.7	2.63	0.80
50	1.61	74.5	95.0	83.2	2.59	0.79
44	1.43	65.5	84.4	93.7	2.57	0.78
38.5	1.27	57.5	74.9	105.5	2.53	0.77
34	1.13	50.5	66.7	118.6	2.50	0.76

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WT5 x 30	1.01	WT125 x 44.5	59.6	132.7	2.48	0.76
27	0.92	40	54.0	146.4	2.46	0.75
22.5	0.88	33.5	52.0	151.9	2.13	0.65
24.5	0.83	36.5	49.1	160.8	2.45	0.75
19.5	0.77	29	45.5	173.8	2.11	0.64
15	0.69	22.5	40.9	193.1	1.80	0.55
16.5	0.66	24.5	38.8	203.9	2.09	0.64
13	0.61	19.5	36.0	219.6	1.78	0.54
9.5	0.53	14	31.5	250.9	1.48	0.45
11	0.52	16.5	30.6	258.2	1.77	0.54
8.5	0.48	12.5	28.3	279.1	1.48	0.45
7.5	0.43	11	25.3	312.3	1.46	0.45
6	0.35	9	20.5	386.1	1.44	0.44
WT4 x 33.5	1.34	WT100 x 50	79.1	100.0	2.08	0.63
29	1.18	43	69.6	113.5	2.05	0.62
24	1.00	35.5	58.8	134.5	2.01	0.61
20	0.84	29.5	49.6	159.5	1.98	0.60
17.5	0.74	26	43.8	180.6	1.97	0.60
14	0.68	21	39.9	198.2	1.73	0.53
15.5	0.66	23	39.1	202.4	1.95	0.59
12	0.59	18	34.5	229.0	1.71	0.52
10.5	0.57	15.5	33.7	234.6	1.53	0.47
9	0.50	13.5	29.2	270.7	1.52	0.46
7.5	0.48	11	28.2	280.3	1.31	0.40
6.5	0.42	9.5	24.6	321.3	1.30	0.40
WT3 x 12.5	0.69	WT75 x 18.5	40.8	193.9	1.51	0.46
8	0.58	11	34.0	232.6	1.16	0.35
10	0.56	15	33.1	238.8	1.48	0.45
6	0.44	9	26.0	303.8	1.13	0.34
7.5	0.43	12	25.1	314.5	1.47	0.45
4.5	0.34	7	19.8	398.8	1.12	0.34
WT2.5 x 9.5	0.64	WT65 x 14	37.6	210.0	1.24	0.38
8	0.54	12	32.1	246.3	1.23	0.37
WT2 x 6.5	0.55	WT50 x 9.5	32.2	245.4	1.23	0.37

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