

Single Angle Conversion Factors



Member Size (Inches)	W/D Value	Metric Designation (millimeters)	M/D Value	Hp/A Value	Square Ft. / Lin. Foot	Square M. / Lin. Meter
L 8 x 8 x 1-1/8	1.80	203 x 203 x 29	106.2	73.3	2.64	0.80
x 1	1.62	x 25	95.6	81.5	2.64	0.80
x 7/8	1.43	x 22	84.4	92.3	2.64	0.80
x 3/4	1.24	x 19	73.2	106.5	2.64	0.80
x 5/8	1.04	x 16	61.4	126.9	2.64	0.80
x 9/16	0.94	x 14	55.5	140.4	2.64	0.80
x 1/2	0.84	x 13	49.6	157.1	2.64	0.80
L8 x 6 x 1	1.60	203 x 152 x 25	94.4	82.5	2.32	0.71
x 7/8	1.41	x 22	83.2	93.6	2.32	0.71
x 3/4	1.22	x 19	72.0	108.2	2.32	0.71
x 5/8	1.03	x 16	60.8	128.2	2.32	0.71
x 9/16	0.93	x 14	54.9	141.9	2.32	0.71
x 1/2	0.83	x 13	49.0	159.0	2.32	0.71
x 7/16	0.73	x 11	43.1	180.8	2.32	0.71
L8 x 4 x 1	1.58	203 x 102 x 25	93.2	83.5	1.98	0.60
x 7/8	1.40	x 22	82.6	94.3	1.98	0.60
x 3/4	1.21	x 19	71.4	109.1	1.98	0.60
x 5/8	1.03	x 16	60.8	128.2	1.98	0.60
x 9/16	0.92	x 14	54.3	143.5	1.98	0.60
x 1/2	0.82	x 13	48.4	161.0	1.98	0.60
x 7/16	0.73	x 11	43.1	180.8	1.98	0.60
L7 x 4 x 3/4	1.20	178 x x102 x 19	70.8	110.0	1.82	0.55
x 5/8	1.01	x 16	59.6	130.7	1.82	0.55
x 1/2	0.82	x 13	48.4	161.0	1.82	0.55
x 7/16	0.72	x 11	42.5	183.3	1.82	0.55
x 3/8	0.62	x 9.5	36.6	212.9	1.82	0.55
L6 x 6 x 1	1.58	152 x 152 x 25	93.2	83.5	1.98	0.60
x 7/8	1.39	x 22	82.0	95.0	1.98	0.60
x 3/4	1.21	x 19	71.4	109.1	1.98	0.60
x 5/8	1.02	x 16	60.2	129.4	1.98	0.60
x 9/16	0.92	x 14	54.3	143.5	1.98	0.60
x 1/2	0.82	x 13	48.4	161.0	1.98	0.60
x 7/16	0.72	x 11	42.5	183.3	1.98	0.60
x 3/8	0.62	x 9.5	36.6	212.9	1.98	0.60
x 5/16	0.52	x 7.9	30.7	253.8	1.98	0.60
L6 x 4 x 7/8	1.37	152 x 102 x 22	80.8	96.4	1.65	0.50
x 3/4	1.19	x 19	70.2	110.9	1.65	0.50
x 5/8	1.00	x 16	59.0	132.0	1.65	0.50
x 9/16	0.90	x 14	53.1	146.7	1.65	0.50
x 1/2	0.80	x 13	47.2	165.0	1.65	0.50
x 7/16	0.71	x 11	41.9	185.9	1.65	0.50
x 3/8	0.61	x 9.5	36.0	216.4	1.65	0.50
x 5/16	0.51	x 7.9	30.1	258.8	1.65	0.50
L6 x 3.5 x 1/2	0.81	152 x 89 x 13	47.8	163.0	1.57	0.48
x 3/8	0.61	x 9.5	36.0	216.4	1.57	0.48
x 5/16	0.51	x 7.9	30.1	258.8	1.57	0.48

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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L5 x 5 x 7/8	1.38	127 x 127 x 22	81.4	95.7	1.65	0.50
x 3/4	1.20	x 19	70.8	110.0	1.65	0.50
x 5/8	1.02	x 16	60.2	129.4	1.65	0.50
x 1/2	0.82	x 13	48.4	161.0	1.65	0.50
x 7/16	0.72	x 11	42.5	183.3	1.65	0.50
x 3/8	0.62	x 9.5	36.6	212.9	1.65	0.50
x 5/16	0.52	x 7.9	30.7	253.8	1.65	0.50
L5 x 3.5 x 3/4	1.18	127 x 89 x 19	69.6	111.9	1.40	0.43
x 5/8	1.00	x 16	59.0	132.0	1.40	0.43
x 1/2	0.81	x 13	47.8	163.0	1.40	0.43
x 3/8	0.61	x 9.5	36.0	216.4	1.40	0.43
x 5/16	0.51	x 7.9	30.1	258.8	1.40	0.43
x 1/4	0.41	x 6.4	24.2	322.0	1.40	0.43
L5 x 3 x 1/2	0.81	127 x 76 x 13	47.8	163.0	1.32	0.40
x 7/16	0.71	x 11	41.9	185.9	1.32	0.40
x 3/8	0.61	x 9.5	36.0	216.4	1.32	0.40
x 5/16	0.51	x 7.9	30.1	258.8	1.32	0.40
x 1/4	0.41	x 6.4	24.2	322.0	1.32	0.40
L4 x 4 x 3/4	1.17	102 x 102 x 19	69.0	112.8	1.32	0.40
x 5/8	0.99	x 16	58.6	132.8	1.32	0.40
x 1/2	0.80	x 13	47.2	165.0	1.32	0.40
x 7/16	0.70	x 11	41.3	188.6	1.32	0.40
x 3/8	0.61	x 9.5	36.0	216.4	1.32	0.40
x 5/16	0.51	x 7.9	30.1	258.8	1.32	0.40
x 1/4	0.41	x 6.4	24.2	322.0	1.32	0.40
L4 x 3.5 x 1/2	0.79	109 x 89 x 13	46.6	167.1	1.25	0.38
x 3/8	0.60	x 9.5	35.4	220.0	1.25	0.38
x 5/16	0.51	x 7.9	30.1	258.8	1.25	0.38
x 1/4	0.41	x 6.4	24.2	322.0	1.25	0.38
L4 x 3 x 5/8	0.97	102 x 76 x 16	57.2	136.1	1.17	0.36
x 1/2	0.79	x 13	46.6	167.1	1.17	0.36
x 3/8	0.60	x 9.8	35.4	220.0	1.17	0.36
x 5/16	0.50	x 7.9	29.5	264.0	1.17	0.36
x 1/4	0.41	x 6.4	24.2	322.0	1.17	0.36
L3.5 x 3.5 x 1/2	0.80	89 x 89 x 13	47.2	165.0	1.15	0.35
x 7/16	0.71	x 11	41.9	185.9	1.15	0.35
x 3/8	0.61	x 9.5	36.0	216.4	1.15	0.35
x 5/16	0.51	x 7.9	30.1	258.8	1.15	0.35
x 1/4	0.42	x 6.4	24.8	314.3	1.15	0.35
L3.5 x 3 x 1/2	0.80	89 x 76 x 13	47.2	165.0	1.07	0.33
x 7/16	0.71	x 11	41.9	185.9	1.07	0.33
x 3/8	0.61	x 9.5	36.0	216.4	1.07	0.33
x 5/16	0.52	x 7.9	30.7	253.8	1.07	0.33
x 1/4	0.42	x 6.4	24.8	314.3	1.07	0.33

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L3.5 x 2.5 x 1/2	0.80	89 x 64 x 13	47.2	165.0	0.983	0.30
x 3/8	0.61		36.0	216.4	0.983	0.30
x 5/16	0.51	x 7.9	30.1	258.8	0.983	0.30
x 1/4	0.41	x 6.4	24.2	322.0	0.983	0.30
L3 x 3 x 1/2	0.79	76 x 76 x 13	46.6	167.1	0.983	0.30
x 7/16	0.70	x 11	41.3	188.6	0.983	0.30
x 3/8	0.60	x 9.5	35.4	220.0	0.983	0.30
x 5/16	0.51	x 7.9	30.1	258.8	0.983	0.30
x 1/4	0.41	x 6.4	24.2	322.0	0.983	0.30
L3 x 2.5 x 1/2	0.79	76 x 64 x 13	46.6	167.1	0.90	0.27
x 7/16	0.70	x 11	41.3	188.6	0.90	0.27
x 3/8	0.60	x 9.5	35.4	220.0	0.90	0.27
x 5/16	0.51	x 7.9	30.1	258.8	0.90	0.27
x 1/4	0.41	x 6.4	24.2	322.0	0.90	0.27
L3 x 2 x 1/2	0.78	76 x 51 x 13	46.0	169.2	0.823	0.25
x 3/8	0.60	x 9.5	35.4	220.0	0.823	0.25
x 5/16	0.51	x 7.9	30.1	258.8	0.823	0.25
x 1/4	0.41	x 6.4	24.2	322.0	0.823	0.25
L2.5 x 2.5 x 1/2	0.77	64 x 64 x 13	45.4	171.4	0.824	0.25
x 3/8	0.59	x 9.5	34.8	223.7	0.824	0.25
x 5/16	0.50	x 7.9	29.5	264.0	0.824	0.25
x 1/4	0.40	x 6.4	23.6	330.0	0.824	0.25
L2.5 x 2 x 3/8	0.59	64 x 51 x 9.5	34.8	223.7	0.741	0.23
x 5/16	0.50	x 7.9	29.5	264.0	0.741	0.23
x 1/4	0.41	x 6.4	24.2	322.0	0.741	0.23
L2 x 2 x 3/8	0.58	51 x 51 x 9.5	34.2	227.6	0.658	0.20
x 5/16	0.49	x 7.9	28.9	269.4	0.658	0.20
x 1/4	0.40	x 6.4	23.6	330.0	0.658	0.20

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