

Double Angle - Two Unequal Legs - Short Legs Back to Back - 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
L8 x 6 x 1	1.97	203 x 152 x 25.4	116.2	67.0	3.76	1.15
x 7/8	1.74	x 22.2	102.7	75.9	3.76	1.15
x 3/4	1.51	x 19.1	89.1	87.4	3.76	1.15
x 5/8	1.27	x 15.9	74.9	103.9	3.76	1.15
x 9/16	1.15	x 14.3	67.9	114.8	3.76	1.15
x 1/2	1.03	x 12.7	60.8	128.2	3.76	1.15
x 7/16	0.90	x 11.1	53.1	146.7	3.76	1.15
L8 x 4 x 1	1.83	203 x 102 x 25.4	108.0	72.1	3.43	1.05
x 7/8	1.62	x 22.2	95.6	81.5	3.43	1.05
x 3/4	1.41	x 19.1	83.2	93.6	3.43	1.05
x 5/8	1.19	x 15.9	70.2	110.9	3.43	1.05
x 9/16	1.08	x 14.3	63.7	122.2	3.43	1.05
x 1/2	0.95	x 12.7	56.1	138.9	3.43	1.05
x 7/16	0.84	x 11.1	49.6	157.1	3.43	1.05
L7 x 4 x 3/4	1.41	178 x 102 x 19.1	83.2	93.6	3.09	0.94
x 5/8	1.19	x 15.9	70.2	110.9	3.09	0.94
x 1/2	0.96	x 12.7	56.6	137.5	3.09	0.94
x 7/16	0.85	x 11.1	50.2	155.3	3.09	0.94
x 3/8	0.73	x 9.5	43.1	180.8	3.09	0.94
L6 x 4 x 7/8	1.64	152 x 102 x 22.2	96.8	80.5	2.76	0.84
x 3/4	1.42	x 19.1	83.8	93.0	2.76	0.84
x 5/8	1.20	x 15.9	70.8	110.0	2.76	0.84
x 9/16	1.08	x 14.3	63.7	122.2	2.76	0.84
x 1/2	0.96	x 12.7	56.6	137.5	2.76	0.84
x 7/16	0.85	x 11.1	50.2	155.3	2.76	0.84
x 3/8	0.73	x 9.5	43.1	180.8	2.76	0.84
x 5/16	0.61	x 7.9	36.0	216.4	2.76	0.84
L6 x 3.5 x 1/2	0.95	152 x 89 x 12.7	56.1	138.9	2.68	
x 3/8	0.72	x 9.5	42.5	183.3	2.68	0.82
x 5/16	0.60	x 7.9	35.4	220.0	2.68	0.82
L5 x 3.5 x 3/4	1.41	127 x 89 x 19.1	83.2	93.6	2.34	0.71
x 5/8	1.20	x 15.9	70.8	110.0	2.34	0.71
x 1/2	0.96	x 12.7	56.6	137.5	2.34	0.71
x 3/8	0.74	x 9.5	43.7	178.4	2.34	0.71
x 5/16	0.62	x 7.9	36.6	212.9	2.34	0.71
x 1/4	0.50	x 6.4	29.5	264.0	2.34	0.71
L5 x 3 x 1/2	0.94	127 x 76 x 12.7	55.5	140.4	2.26	0.69
x 7/16	0.83	x 11.1	49.0	159.0	2.26	0.69
x 3/8	0.71	x 9.5	41.9	185.9	2.26	0.69
x 5/16	0.60	x 7.9	35.4	220.0	2.26	0.69
x 1/4	0.48	x 6.4	28.3	275.0	2.26	0.69
L4 x 3.5 x 1/2	0.97	102 x 89 x 12.7	57.2	136.1	2.04	0.62
x 3/8	0.74	x 9.5	43.7	178.4	2.04	0.62
x 5/16	0.62	x 7.9	36.6	212.9	2.04	0.62
x 1/4	0.50	x 6.4	29.5	264.0	2.04	0.62

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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L4 x 3 x 5/8	1.16	102 x 76 x 15.9	68.4	113.8	1.96	0.60
x 1/2	0.94	x 12.7	55.5	140.4	1.96	0.60
x 3/8	0.72	x 9.5	42.5	183.3	1.96	0.60
x 5/16	0.60	x 7.9	35.4	220.0	1.96	0.60
x 1/4	0.48	x 6.4	28.3	275.0	1.96	0.60
L3.5 x 3 x 1/2	0.97	89 x 76 x 12.7	57.2	136.1	1.77	0.54
x 7/16	0.85	x 11.1	50.2	155.3	1.77	0.54
x 3/8	0.74	x 9.5	43.7	178.4	1.77	0.54
x 5/16	0.62	x 7.9	36.6	212.9	1.77	0.54
x 1/4	0.50	x 6.4	29.5	264.0	1.77	0.54
L3.5 x 2.5 x 1/2	0.93	89 x 64 x 12.7	54.9	141.9	1.68	0.51
x 3/8	0.71	x 9.5	41.9	185.9	1.68	0.51
x 5/16	0.60	x 7.9	35.4	220.0	1.68	0.51
x 1/4	0.48	x 6.4	28.3	275.0	1.68	0.51
L3 x 2.5 x 1/2	0.93	76 x 64 x 12.7	54.9	141.9	1.52	0.46
x 7/16	0.83	x 11.1	49.0	159.0	1.52	0.46
x 3/8	0.72	x 9.5	42.5	183.3	1.52	0.46
x 5/16	0.60	x 7.9	35.4	220.0	1.52	0.46
x 1/4	0.49	x 6.4	28.9	269.4	1.52	0.46
x 3/16	0.37	x 4.8	21.8	356.8	1.52	0.46
L3 x 2 x 1/2	0.89	76 x 51 x 12.7	52.5	148.3	1.43	0.44
x 3/8	0.69	x 9.5	40.7	191.3	1.43	0.44
x 5/16	0.58	x 7.9	34.2	227.6	1.43	0.44
x 1/4	0.47	x 6.4	27.7	280.9	1.43	0.44
x 3/16	0.36	x 4.8	21.2	366.7	1.43	0.44
L2.5 x 2 x 3/8	0.69	64 x 51 x 9.5	40.7	191.3	1.28	0.39
x 5/16	0.58	x 7.9	34.2	227.6	1.28	0.39
x 1/4	0.47	x 6.4	27.7	280.9	1.28	0.39
x 3/16	0.36	x 4.8	21.2	366.7	1.28	0.39

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