

Miscellaneous Channel Conversion Factors



Member Size	Weight	W/D Value	Metric Designation	M/D Value	Hp/A Value	Square Ft. / Lin. Foot	Square M. / Lin. Meter
MC18 x	58	1.13	460 x 86	66.7	116.8	4.27	1.30
	51.9	1.02	x 77	60.2	129.4	4.23	1.29
	45.8	0.90	x 68	53.1	146.7	4.21	1.28
	42.7	0.84	x 64	49.6	157.1	4.19	1.28
MC13 x	50	1.19	330 x 74	70.2	110.9	3.50	1.07
	40	0.97	x 60	57.2	136.1	3.43	1.05
	35	0.86	x 52	50.7	153.5	3.39	1.03
	31.8	0.78	x 47	46.0	169.2	3.38	1.03
MC12 x	50	1.28	310 x 74	75.5	103.1	3.26	0.99
	45	1.17	x 67	69.0	112.8	3.22	0.98
	40	1.05	x 60	62.0	125.7	3.18	0.97
	35	0.92	x 52	54.3	143.5	3.14	0.96
	31	0.82	x 46	48.4	161.0	3.12	0.95
	10.6	0.36	x 16	21.2	366.7	2.44	0.74
MC10 x	41.1	1.15	250 x 61	67.9	114.8	2.98	0.91
	33.6	0.96	x 50	56.6	137.5	2.91	0.89
	28.5	0.83	x 42	49.0	159.0	2.86	0.87
	25	0.77	x 37	45.4	171.4	2.69	0.82
	22	0.68	x 33	40.1	194.1	2.67	0.81
	8.4	0.33	x 12	19.5	400.0	2.11	0.64
MC9 x	25.4	0.82	230 x 38	48.4	161.0	2.56	0.78
	23.9	0.78	x 36	46.0	169.2	2.54	0.77
MC8 x	22.8	0.79	200 x 34	46.6	167.1	2.39	0.73
	21.4	0.75	x 32	44.3	176.0	2.38	0.73
	20	0.74	x 30	43.7	178.4	2.25	0.69
	18.7	0.69	x 28	40.7	191.3	2.23	0.68
	8.5	0.37	x 13	21.8	356.8	1.89	0.58
MC7 x	22.7	0.83	180 x 34	49.0	159.0	2.26	0.69
	19.1	0.72	x 28	42.5	183.3	2.21	0.67
MC6 x	18	0.72	150 x 27	42.5	183.3	2.06	0.63
	16.3	0.71	x 24	41.9	185.9	1.91	0.58
	15.3	0.61	x 23	36.0	216.4	2.07	0.63
	15.1	0.66	x 22	38.9	200.0	1.88	0.57
	12	0.56	x 18	33.0	235.7	1.76	0.54

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.