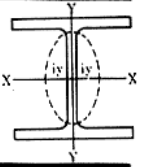


Metric Units

Section Size	Unit weight		Web thickness		Flange thickness		Radius Root		Toe		Section Area	
	M		t		T		r <sub>1</sub>		r <sub>2</sub>		A	
mm (inch)	kg/m	lb/ft	mm	in	mm	in	mm	in	mm	in	cm <sup>2</sup>	in <sup>2</sup>
76 x 51 (3 x 2)	6.71	4.5	3.81	0.15	5.69	0.224	6.90	0.27	2.4	0.094	8.5	1.32
102 x 64 (4 x 2½)	9.65	6.5	4.09	0.161	6.63	0.261	6.90	0.27	2.4	0.094	12.3	1.91
102 x 76 (4 x 3)	14.90	10	6.10	0.24	8.81	0.347	9.40	0.37	4.6	0.18	18.9	2.94
127 x 76 (5 x 3)	13.36	9	4.52	0.178	7.62	0.30	7.90	0.31	2.4	0.094	17.0	2.64
152 x 76 (6 x 3)	17.88	12	5.84	0.23	9.57	0.377	9.40	0.37	4.6	0.18	22.8	3.53
152 x 89 (6 x 3½)	17.09	11.5	4.93	0.194	8.28	0.326	7.90	0.31	2.4	0.094	21.8	3.38
152 x 127 (6 x 5)	37.25	25	10.41	0.41	13.21	0.520	13.50	0.53	6.6	0.26	47.5	7.37
178 x 102 (7 x 4)	21.54	14.5	5.33	0.21	9.07	0.357	9.40	0.37	3.2	0.13	27.4	4.26
178 x 102 (7 x 4)	23.84	16	6.35	0.25	9.83	0.387	11.40	0.45	5.6	0.22	30.6	4.75
203 x 102 (8 x 4)	25.33	17	5.84	0.23	10.36	0.408	9.40	0.37	3.2	0.13	32.3	5.00
203 x 102 (8 x 4)	26.82	18	7.11	0.28	10.11	0.398	11.40	0.45	5.6	0.22	34.2	5.30
203 x 152 (8 x 6)	52.16	35	8.89	0.35	16.46	0.648	15.50	0.61	7.6	0.30	66.5	10.30
228 x 102 (9 x 4)	31.29	21	7.62	0.30	11.61	0.457	11.40	0.45	5.6	0.22	39.9	6.18
254 x 127 (10 x 5)	44.71	30	9.14	0.36	14.02	0.552	13.50	0.53	6.6	0.26	57.1	8.85
254 x 152 (10 x 6)	59.61	40	9.14	0.36	18.01	0.709	15.50	0.61	7.6	0.30	75.9	11.77
254 x 203 (10 x 8)	81.97	55	10.16	0.40	19.89	0.783	19.60	0.77	9.7	0.38	104.4	16.18
305 x 127 (12 x 5)	47.69	32	8.89	0.35	11.61	0.550	13.50	0.53	6.6	0.26	60.9	9.45
305 x 152 (12 x 6)	65.57	44	10.16	0.40	18.21	0.717	15.50	0.61	7.6	0.30	83.9	13.00



Section size	Moment of inertia				Radius of gyration				Modulus of section			
	$I_x$		$I_y$		$i_x$		$i_y$		$Z_x$		$Z_y$	
mm (inch)	cm <sup>4</sup>	in <sup>4</sup>	cm <sup>4</sup>	in <sup>4</sup>	cm	in	cm	in	cm <sup>3</sup>	in <sup>3</sup>	cm <sup>3</sup>	in <sup>3</sup>
76 x 51 (3 x 2)	83	2.0	11.1	0.27	3.12	1.23	1.14	0.45	21.67	1.33	4.37	0.27
102 x 64 (4 x 2½)	218	5.2	25.3	0.61	4.21	1.66	1.43	0.57	42.84	2.62	7.97	0.49
102 x 76 (4 x 3)	325	7.8	55.4	1.33	4.14	1.63	1.70	0.67	63.7	3.89	14.4	0.88
127 x 76 (5 x 3)	476	11.5	50.2	1.21	5.29	2.08	1.72	0.68	74.9	4.58	13.17	0.81
152 x 76 (6 x 3)	874	21.5	60.8	1.46	6.20	2.44	1.63	0.64	114.7	7.00	15.9	0.97
152 x 89 (6 x 3½)	881	21.7	86.0	2.07	6.36	2.51	1.99	0.78	115.6	7.07	19.34	1.18
152 x 127 (6 x 5)	1,819	43.7	378.7	9.10	6.20	2.44	2.82	1.11	239.1	14.56	59.6	3.64
178 x 102 (7 x 4)	1,519	36.6	139.2	3.36	7.44	2.93	2.25	0.89	170.9	10.45	27.41	1.68
178 x 102 (7 x 4)	1,644	39.5	140.3	3.37	7.34	2.89	2.13	0.84	185.0	11.29	27.7	1.69
203 x 102 (8 x 4)	2,294	55.1	162.6	3.91	8.43	3.32	2.25	0.88	225.8	13.78	32.02	1.95
203 x 102 (8 x 4)	2,314	55.6	146.1	3.51	8.23	3.24	2.06	0.81	227.9	13.91	28.7	1.75
203 x 152 (8 x 6)	4,790	115.1	813.3	19.54	8.48	3.34	3.51	1.38	471.3	28.76	106.7	6.51
228 x 102 (9 x 4)	3,375	81.1	172.7	4.15	9.19	3.62	2.08	0.82	295.5	18.03	33.9	2.07
254 x 127 (10 x 5)	6,085	146.2	405.0	9.73	10.31	4.06	2.67	1.05	479.3	29.25	63.7	3.89
254 x 152 (10 x 6)	8,524	204.8	905.6	21.76	10.59	4.17	3.45	1.36	671.2	40.96	118.8	7.25
254 x 203 (10 x 8)	12,016	288.7	2,278.3	54.74	10.72	4.22	4.67	1.84	946.2	57.74	224.3	13.69
305 x 127 (12 x 5)	9,202	221.1	403.3	9.69	12.29	4.84	2.56	1.01	603.7	36.84	63.6	3.88
305 x 152 (12 x 6)	13,181	316.7	920.6	22.12	12.55	4.94	3.30	1.30	865.1	52.79	120.8	7.37