

RHS WEIGHT TABLE

RHS D x B MM	D	B	T	Sec Area	Weight	Moment of Inertia		Radius of Gyration		Elastic Modulus		Torsional Constants		Outer Surface Area	Nominal Length per tonne
	MM	MM	MM	CM^2	Kg/Mtr	Ixx CM^4	Iyy CM^4	Rxx CM	Ryy CM	Zxx CM^3	Zyy CM^3	J Cm^4	B Cm^3	Sq.Mtr / Mtr	M
50x25	50	25	2.6	3.46	2.71	10.16	3.36	1.71	0.99	4.06	2.69	8.68	4.72	0.137	368.63
	50	25	3.2	4.13	3.24	11.63	3.80	1.68	0.96	4.65	3.04	10.08	5.38	0.134	308.66
	50	25	4.0	4.95	3.88	13.13	4.23	1.63	0.92	5.25	3.38	11.57	6.05	0.129	257.42
60x40	60	40	2.6	4.76	3.73	22.76	12.09	2.19	1.59	7.59	6.05	25.99	10.02	0.187	267.86
	60	40	2.9	5.25	4.12	24.74	13.11	2.17	1.58	8.25	6.56	28.48	10.90	0.185	242.77
	60	40	3.6	6.35	4.98	28.90	15.23	2.13	1.55	9.63	7.62	33.86	12.73	0.181	200.66
	60	40	4.5	7.67	6.02	33.31	17.44	2.08	1.51	11.10	8.72	39.91	14.69	0.177	166.10
66x33	66	33	2.6	4.70	3.69	25.15	8.43	2.31	1.34	7.62	5.11	21.17	8.91	0.185	270.82
	66	33	2.9	5.19	4.07	27.33	9.12	2.29	1.33	8.28	5.53	23.13	9.66	0.183	245.48
	66	33	3.6	6.28	4.93	31.87	10.52	2.25	1.29	9.66	6.37	27.32	11.21	0.179	202.97
	66	33	4.5	7.58	5.95	36.64	11.93	2.20	1.25	11.10	7.23	31.90	12.84	0.175	168.07
	66	33	4.8	7.99	6.27	37.98	12.31	2.18	1.24	11.51	7.46	33.22	13.29	0.173	159.44
80x40	80	40	2.6	5.80	4.55	46.58	15.74	2.84	1.65	11.65	7.87	38.87	13.66	0.227	219.80
	80	40	3.2	7.01	5.50	54.94	18.41	2.80	1.62	13.74	9.21	46.28	16.05	0.224	181.80
	80	40	4.0	8.55	6.71	64.79	21.49	2.75	1.59	16.20	10.74	55.24	18.84	0.219	149.02
	80	40	4.8	10.01	7.85	73.22	24.03	2.71	1.55	18.30	12.02	63.16	21.21	0.215	127.31
96x48	96	48	2.6	7.04	5.53	82.96	28.19	3.43	2.00	17.28	11.74	68.76	20.34	0.275	180.85
	96	48	3.2	8.54	6.71	98.61	33.28	3.40	1.97	20.54	13.87	82.38	24.09	0.272	149.11
	96	48	4.0	10.47	8.22	117.54	39.32	3.35	1.94	24.49	16.38	99.22	28.59	0.267	121.69
	96	48	4.8	12.31	9.66	134.35	44.55	3.30	1.90	27.99	18.56	114.55	32.56	0.263	103.48
	96	48	6.0	14.91	11.71	155.75	51.00	3.23	1.85	32.45	21.25	134.73	37.57	0.257	85.41
122x61	122	61	2.6	9.07	7.12	175.75	60.09	4.40	2.57	28.81	19.70	144.59	34.03	0.353	140.42
	122	61	3.2	11.04	8.67	210.55	71.61	4.37	2.55	34.52	23.48	174.32	40.64	0.350	115.40
	122	61	3.6	12.32	9.67	232.61	78.83	4.34	2.53	38.13	25.84	193.39	44.81	0.347	103.36
	122	61	4.5	15.14	11.88	278.94	93.78	4.29	2.49	45.73	30.75	234.06	53.52	0.343	84.14
	122	61	5.4	17.85	14.01	320.83	107.03	4.24	2.45	52.60	35.09	271.66	61.34	0.338	71.38
145x82	145	82	3.2	13.86	10.88	392.22	162.88	5.32	3.43	54.10	39.73	368.28	67.30	0.438	91.94
	145	82	4.0	17.11	13.43	476.35	196.94	5.28	3.39	65.70	48.03	450.85	81.55	0.433	74.46
	145	82	4.8	20.28	15.92	555.16	228.50	5.23	3.36	76.57	55.73	529.61	94.86	0.429	62.82
	145	82	5.4	22.60	17.74	610.85	250.59	5.20	3.33	84.26	61.12	586.17	104.24	0.426	56.37
	145	82	6.0	24.87	19.53	663.66	271.37	5.17	3.30	91.54	66.19	640.57	113.12	0.423	51.21
172x92	172	92	3.6	18.16	14.25	713.94	271.81	6.27	3.87	83.02	59.09	631.40	100.97	0.509	70.16
	172	92	4.0	20.07	15.75	783.54	297.66	6.25	3.85	91.11	64.71	695.19	110.68	0.507	63.48
	172	92	4.8	23.83	18.71	917.13	346.91	6.20	3.82	106.64	75.41	818.93	129.26	0.503	53.46
	172	92	5.4	26.60	20.88	1012.47	381.74	6.17	3.79	117.73	82.99	908.38	142.47	0.500	47.90
	172	92	6.0	29.31	23.01	1103.73	414.82	6.14	3.76	128.34	90.18	994.95	155.08	0.497	43.46
200x100	200	100	4.0	22.95	18.01	1199.71	410.78	7.23	4.23	119.97	82.16	985.36	141.81	0.579	55.51
	200	100	5.0	28.36	22.26	1459.25	496.94	7.17	4.19	145.93	99.39	1206.26	171.94	0.574	44.92
	200	100	6.0	33.63	26.40	1703.31	576.91	7.12	4.14	170.33	115.38	1416.98	200.10	0.569	37.87
	200	100	8.0	43.79	34.38	2146.21	719.19	7.00	4.05	214.62	143.84	1807.84	250.80	0.559	29.09
	200	100	10.0	53.43	41.94	2530.97	839.27	6.88	3.96	253.10	167.85	2157.87	294.43	0.548	23.84
240x120	240	120	4.0	27.75	21.78	2110.72	725.35	8.72	5.11	175.89	120.89	1726.13	208.38	0.699	45.91
	240	120	5.0	34.36	26.97	2579.67	882.47	8.67	5.07	214.97	147.08	2121.05	253.96	0.694	37.08
	240	120	6.0	40.83	32.05	3025.91	1030.45	8.61	5.02	252.16	171.74	2501.31	297.11	0.689	31.20

	240	120	8.0	53.39	41.91	3851.84	1299.95	8.49	4.93	320.99	216.66	3217.82	376.38	0.679	23.86
300x150	300	150	5.0	43.36	34.04	5153.13	1770.87	10.90	6.39	343.54	236.12	4214.17	406.99	0.874	29.38
	300	150	6.0	51.63	40.53	6073.51	2079.57	10.85	6.35	404.90	277.28	4988.36	478.60	0.869	24.67
	300	150	8.0	67.79	53.22	7807.95	2654.12	10.73	6.26	520.53	353.88	6468.03	612.69	0.859	18.79
	300	150	10.0	83.43	65.49	9403.90	3173.71	10.62	6.17	626.93	423.16	7856.00	735.12	0.848	15.27
	300	200	5.0	48.36	37.96	6241.05	3360.92	11.36	8.34	416.07	336.09	6835.66	551.89	0.974	26.34
300x200	300	200	6.0	57.63	45.24	7370.23	3962.19	11.31	8.29	491.35	396.22	8115.07	651.24	0.969	22.10
	300	200	8.0	75.79	59.50	9513.66	5097.04	11.20	8.20	634.24	509.70	10585.74	839.54	0.959	16.81
	300	200	10.0	93.43	73.34	11507.24	6144.30	11.10	8.11	767.15	614.43	12938.52	1014.48	0.948	13.63
	300	200	12.0	110.54	86.77	13354.97	7107.11	10.99	8.02	890.33	710.71	15172.94	1176.60	0.938	11.52
	400.0	200.0	6.0	69.6	54.7	14789.4	5091.6	14.6	8.6	739.5	509.2	12068.3	877.0	1.2	18.3
400x200	400.0	200.0	8.0	91.8	72.1	19195.3	6572.5	14.5	8.5	959.8	657.2	15765.7	1134.5	1.2	13.9
	400.0	200.0	10.0	113.4	89.0	23348.1	7951.0	14.3	8.4	1167.4	795.1	19300.2	1375.5	1.1	11.2
	400.0	200.0	12.0	134.5	105.6	27252.9	9230.6	14.2	8.3	1362.6	923.1	22671.7	1600.8	1.1	9.5
	400	200	14.0	155.12	121.77	30915.01	10414.85	14.12	8.19	1545.75	1041.48	25880.20	1810.90	1.128	8.21

ASTM RHS Weight Table

RHS D x B MM	D	B	T	Sec Area	Weight	Moment of Inertia		Radius of Gyration		Elastic Modulus		Torsional Constants		Outer Surface Area	Nominal Length per tonne
	MM	MM	MM	CM^2	Kg/Mtr	Ixx CM^4	Iyy CM^4	Rxx CM	Ryy CM	Zxx CM^3	Zyy CM^3	J Cm^4	B Cm^3	Sq.Mtr / Mtr	M
80x60	80	60	3.2	8.29	6.51	73.83	47.28	2.98	2.39	18.46	15.76	93.49	25.45	0.264	153.72
	80	60	4.0	10.15	7.97	87.92	56.12	2.94	2.35	21.98	18.71	113.12	30.32	0.259	125.52
	80	60	6.0	14.43	11.33	116.25	73.63	2.84	2.26	29.06	24.54	155.55	40.25	0.249	88.25
	80	60	8.0	18.19	14.28	135.55	85.28	2.73	2.17	33.89	28.43	188.32	47.27	0.239	70.02
90x50	90	50	3.2	8.29	6.51	86.27	34.44	3.23	2.04	19.17	13.78	81.05	23.55	0.264	153.72
	90	50	4.0	10.15	7.97	102.71	40.71	3.18	2.00	22.82	16.28	97.70	27.96	0.259	125.52
	90	50	6.0	14.43	11.33	135.66	52.83	3.07	1.91	30.15	21.13	132.94	36.77	0.249	88.25
	90	50	8.0	18.19	14.28	157.85	60.51	2.95	1.82	35.08	24.20	159.02	42.75	0.239	70.02
90x70	90	70	3.2	9.57	7.51	110.39	74.91	3.40	2.80	24.53	21.40	143.28	34.23	0.304	133.15
	90	70	4.0	11.75	9.22	132.32	89.57	3.36	2.76	29.40	25.59	174.22	41.05	0.299	108.43
	90	70	6.0	16.83	13.21	178.07	119.82	3.25	2.67	39.57	34.23	242.90	55.42	0.289	75.67
	90	70	8.0	21.39	16.79	211.81	141.75	3.15	2.57	47.07	40.50	299.01	66.30	0.279	59.54
100x40	100	40	3.2	8.29	6.51	97.29	22.76	3.43	1.66	19.46	11.38	62.31	20.39	0.264	153.72
	100	40	4.0	10.15	7.97	115.70	26.69	3.38	1.62	23.14	13.35	74.52	24.04	0.259	125.52
	100	40	6.0	14.43	11.33	152.21	33.96	3.25	1.53	30.44	16.98	99.25	31.02	0.249	88.25
	100	40	8.0	18.19	14.28	176.13	38.11	3.11	1.45	35.23	19.06	115.82	35.31	0.239	70.02
100x60	100	60	3.2	9.57	7.51	127.29	57.61	3.65	2.45	25.46	19.20	128.83	32.33	0.304	133.15
	100	60	4.0	11.75	9.22	152.58	68.68	3.60	2.42	30.52	22.89	156.26	38.68	0.299	108.43
	100	60	6.0	16.83	13.21	205.30	91.20	3.49	2.33	41.06	30.40	216.43	51.92	0.289	75.67
	100	60	8.0	21.39	16.79	244.01	107.08	3.38	2.24	48.80	35.69	264.47	61.71	0.279	59.54
100x80	100	80	3.2	10.85	8.51	157.28	111.60	3.81	3.21	31.46	27.90	207.96	44.30	0.344	117.44
	100	80	4.0	13.35	10.48	189.47	134.17	3.77	3.17	37.89	33.54	253.78	53.38	0.339	95.43
	100	80	6.0	19.23	15.10	258.39	182.10	3.67	3.08	51.68	45.53	357.36	72.98	0.329	66.23
	100	80	8.0	24.59	19.31	311.89	218.84	3.56	2.98	62.38	54.71	445.10	88.51	0.319	51.80
110x50	110	50	3.2	9.57	7.51	142.78	41.46	3.86	2.08	25.96	16.58	106.44	29.16	0.304	133.15
	110	50	4.0	11.75	9.22	171.04	49.19	3.82	2.05	31.10	19.68	128.51	34.74	0.299	108.43
	110	50	6.0	16.83	13.21	229.66	64.52	3.69	1.96	41.76	25.81	175.74	46.10	0.289	75.67
	110	50	8.0	21.39	16.79	272.18	74.79	3.57	1.87	49.49	29.92	211.70	54.12	0.279	59.54
110x70	110	70	3.2	10.85	8.51	179.29	89.20	4.07	2.87	32.60	25.49	191.50	42.39	0.344	117.44
	110	70	4.0	13.35	10.48	216.01	107.01	4.02	2.83	39.27	30.57	233.31	51.00	0.339	95.43
	110	70	6.0	19.23	15.10	294.63	144.47	3.91	2.74	53.57	41.28	327.10	69.46	0.329	66.23
	110	70	8.0	24.59	19.31	355.58	172.67	3.80	2.65	64.65	49.34	405.44	83.88	0.319	51.80
110x90	110	90	3.2	12.13	9.52	215.80	158.63	4.22	3.62	39.24	35.25	289.44	55.64	0.384	105.04
	110	90	4.0	14.95	11.73	260.97	191.53	4.18	3.58	47.45	42.56	354.18	67.31	0.379	85.22
	110	90	6.0	21.63	16.98	359.60	262.89	4.08	3.49	65.38	58.42	502.53	92.94	0.369	58.88
	110	90	8.0	27.79	21.82	438.98	319.74	3.97	3.39	79.82	71.05	631.39	113.89	0.359	45.83
130x50	130	50	3.2	10.85	8.51	218.43	48.48	4.49	2.11	33.60	19.39	132.46	34.77	0.344	117.44
	130	50	4.0	13.35	10.48	262.87	57.68	4.44	2.08	40.44	23.07	160.07	41.52	0.339	95.43
	130	50	6.0	19.23	15.10	357.33	76.21	4.31	1.99	54.97	30.48	219.53	55.43	0.329	66.23
	130	50	8.0	24.59	19.31	429.29	89.08	4.18	1.90	66.04	35.63	265.53	65.51	0.319	51.80
130x70	130	70	3.2	12.13	9.52	269.89	103.49	4.72	2.92	41.52	29.57	241.61	50.55	0.384	105.04
	130	70	4.0	14.95	11.73	326.39	124.46	4.67	2.89	50.21	35.56	294.68	60.96	0.379	85.22
	130	70	6.0	21.63	16.98	449.66	169.12	4.56	2.80	69.18	48.32	414.50	83.51	0.369	58.88
	130	70	8.0	27.79	21.82	548.53	203.60	4.44	2.71	84.39	58.17	515.84	101.48	0.359	45.83
130x90	130	90	4.0	16.55	12.99	389.92	221.13	4.85	3.66	59.99	49.14	452.41	80.45	0.419	76.98
	130	90	6.0	24.03	18.87	541.99	305.29	4.75	3.56	83.38	67.84	644.28	111.74	0.409	53.00
	130	90	8.0	30.99	24.33	667.78	373.70	4.64	3.47	102.73	83.04	812.96	137.78	0.399	41.10
	130	90	10.0	37.43	29.38	768.97	427.69	4.53	3.38	118.30	95.04	958.22	158.99	0.388	34.04

140x60	140	60	4.0	14.95	11.73	355.59	93.81	4.88	2.51	50.80	31.27	247.12	55.42	0.379	85.22
	140	60	6.0	21.63	16.98	489.19	126.34	4.76	2.42	69.88	42.11	344.45	75.29	0.369	58.88
	140	60	8.0	27.79	21.82	595.67	150.69	4.63	2.33	85.10	50.23	424.41	90.68	0.359	45.83
	140	60	10.0	33.43	26.24	676.73	167.87	4.50	2.24	96.68	55.96	487.14	102.05	0.348	38.11
140x80	140	80	4.0	16.55	12.99	429.60	180.42	5.10	3.30	61.37	45.10	411.59	76.48	0.419	76.98
	140	80	6.0	24.03	18.87	597.00	247.96	4.98	3.21	85.29	61.99	583.78	105.83	0.409	53.00
	140	80	8.0	30.99	24.33	735.24	302.12	4.87	3.12	105.03	75.53	733.42	129.98	0.399	41.10
	140	80	10.0	37.43	29.38	846.07	344.15	4.75	3.03	120.87	86.04	860.35	149.38	0.388	34.04
150x50	150	50	4.0	14.95	11.73	381.39	66.16	5.05	2.10	50.85	26.47	192.14	48.30	0.379	85.22
	150	50	6.0	21.63	16.98	523.47	87.89	4.92	2.02	69.80	35.16	263.98	64.77	0.369	58.88
	150	50	8.0	27.79	21.82	635.59	103.36	4.78	1.93	84.75	41.34	320.12	76.91	0.359	45.83
	150	50	10.0	33.43	26.24	719.55	113.47	4.64	1.84	95.94	45.39	360.99	85.24	0.348	38.11
150x70	150	70	4.0	16.55	12.99	466.68	141.90	5.31	2.93	62.22	40.54	357.68	70.92	0.419	76.98
	150	70	6.0	24.03	18.87	647.95	193.76	5.19	2.84	86.39	55.36	504.13	97.57	0.409	53.00
	150	70	8.0	30.99	24.33	797.07	234.52	5.07	2.75	106.28	67.01	628.99	119.10	0.399	41.10
	150	70	10.0	37.43	29.38	915.88	265.32	4.95	2.66	122.12	75.81	732.32	135.98	0.388	34.04
150x110	150	110	4.0	19.75	15.50	637.25	395.87	5.68	4.48	84.97	71.98	774.14	116.29	0.499	64.51
	150	110	6.0	28.83	22.63	896.93	554.50	5.58	4.39	119.59	100.82	1113.17	163.61	0.489	44.18
	150	110	8.0	37.39	29.35	1120.04	689.19	5.47	4.29	149.34	125.31	1419.79	204.45	0.479	34.07
	150	110	10.0	45.43	35.66	1308.55	801.57	5.37	4.20	174.47	145.74	1693.71	239.27	0.468	28.04
150x130	150	130	3.6	19.31	15.16	657.92	528.80	5.84	5.23	87.72	81.35	917.73	126.56	0.541	65.98
	150	130	4.0	21.35	16.76	722.53	580.49	5.82	5.21	96.34	89.31	1012.25	139.01	0.539	59.67
	150	130	6.0	31.23	24.52	1021.42	818.97	5.72	5.12	136.19	126.00	1462.28	196.72	0.529	40.78
	150	130	8.0	40.59	31.87	1281.52	1025.51	5.62	5.03	170.87	157.77	1874.44	247.30	0.519	31.38
	150	130	10.0	49.43	38.80	1504.88	1201.97	5.52	4.93	200.65	184.92	2248.36	291.25	0.508	25.77
200x150	200	150	4.0	26.95	21.15	1583.92	1021.03	7.67	6.16	158.39	136.14	1941.99	218.55	0.679	47.27
	200	150	6.0	39.63	31.11	2268.03	1457.13	7.56	6.06	226.80	194.28	2826.12	312.72	0.669	32.14
	200	150	8.0	51.79	40.66	2883.92	1846.71	7.46	5.97	288.39	246.23	3651.84	397.63	0.659	24.60
	200	150	10.0	63.43	49.79	3434.30	2192.05	7.36	5.88	343.43	292.27	4418.76	473.78	0.648	20.08
250x150	250	150	5.0	38.36	30.11	3304.18	1507.95	9.28	6.27	264.33	201.06	3284.47	336.90	0.774	33.21
	250	150	6.0	45.63	35.82	3885.56	1768.35	9.23	6.22	310.84	235.78	3885.71	395.65	0.769	27.92
	250	150	8.0	59.79	46.94	4972.24	2250.41	9.12	6.13	397.78	300.06	5032.28	505.14	0.759	21.30
	250	150	10.0	73.43	57.64	5960.20	2682.88	9.01	6.04	476.82	357.72	6104.06	604.41	0.748	17.35
	250	150	12.0	86.54	67.93	6852.69	3068.13	8.90	5.95	548.22	409.08	7100.75	693.98	0.738	14.72