

MS SQUARE PIPE

SHS WEIGHT TABLE

SHS B x B MM	B	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
25x25	25	25	2.6	2.16	1.69	1.72	1.72	0.89	0.89	1.38	1.38	3.04	2.12	0.087	590.92
	25	25	3.2	2.53	1.98	1.89	1.89	0.86	0.86	1.51	1.51	3.45	2.34	0.084	504.09
32x32	32	32	2.6	2.88	2.26	4.02	4.02	1.18	1.18	2.51	2.51	6.86	3.82	0.115	441.74
	32	32	3.2	3.42	2.69	4.54	4.54	1.15	1.15	2.84	2.84	7.96	4.34	0.112	372.15
38x38	38	38	2.6	3.51	2.75	7.14	7.14	1.43	1.43	3.76	3.76	11.93	5.69	0.139	363.16
	38	38	3.2	4.19	3.29	8.18	8.18	1.40	1.40	4.30	4.30	14.01	6.55	0.136	303.95
	38	38	4.0	5.03	3.95	9.26	9.26	1.36	1.36	4.87	4.87	16.38	7.48	0.131	253.33
40x40	40	40	2.6	3.72	2.92	8.45	8.45	1.51	1.51	4.22	4.22	14.06	6.39	0.147	342.83
	40	40	3.2	4.45	3.49	9.72	9.72	1.48	1.48	4.86	4.86	16.55	7.39	0.144	286.45
	40	40	4.0	5.35	4.20	11.07	11.07	1.44	1.44	5.54	5.54	19.44	8.48	0.139	238.17
50x50	50	50	2.6	4.76	3.73	17.47	17.47	1.92	1.92	6.99	6.99	28.48	10.54	0.187	267.86
	50	50	2.9	5.25	4.12	18.98	18.98	1.90	1.90	7.59	7.59	31.24	11.47	0.185	242.77
	50	50	3.6	6.35	4.98	22.15	22.15	1.87	1.87	8.86	8.86	37.25	13.43	0.181	200.66
	50	50	4.5	7.67	6.02	25.50	25.50	1.82	1.82	10.20	10.20	44.09	15.56	0.177	166.10
60x60	60	60	2.6	5.80	4.55	31.33	31.33	2.33	2.33	10.44	10.44	50.38	15.72	0.227	219.80
	60	60	3.2	7.01	5.50	36.94	36.94	2.30	2.30	12.31	12.31	60.34	18.57	0.224	181.80
	60	60	4.0	8.55	6.71	43.55	43.55	2.26	2.26	14.52	14.52	72.64	21.97	0.219	149.02
	60	60	4.8	10.01	7.85	49.22	49.22	2.22	2.22	16.41	16.41	83.81	24.94	0.215	127.31
72X72	72	72	3.2	8.54	6.71	66.32	66.32	2.79	2.79	18.42	18.42	106.82	27.74	0.272	149.11
	72	72	4.0	10.47	8.22	79.03	79.03	2.75	2.75	21.95	21.95	129.54	33.13	0.267	121.69
	72	72	4.8	12.31	9.66	90.31	90.31	2.71	2.71	25.09	25.09	150.63	37.97	0.263	103.48
	72	72	6.0	14.91	11.71	104.71	104.71	2.65	2.65	29.08	29.08	179.20	44.26	0.257	85.41
	72	72	8.0	18.83	14.78	122.48	122.48	2.55	2.55	34.02	34.02	218.52	52.34	0.247	67.64
80x80	80	80	2.9	8.73	6.85	85.36	85.36	3.13	3.13	21.34	21.34	135.71	32.08	0.305	145.96
	80	80	3.2	9.57	7.51	92.71	92.71	3.11	3.11	23.18	23.18	148.28	34.87	0.304	133.15
	80	80	4.0	11.75	9.22	111.04	111.04	3.07	3.07	27.76	27.76	180.43	41.84	0.299	108.43
	80	80	4.8	13.85	10.87	127.58	127.58	3.04	3.04	31.89	31.89	210.59	48.19	0.295	92.00
	80	80	6.0	16.83	13.21	149.18	149.18	2.98	2.98	37.29	37.29	252.06	56.59	0.289	75.67
	80	80	8.0	21.39	16.79	177.19	177.19	2.88	2.88	44.30	44.30	311.00	67.84	0.279	59.54
91.5X91.5	91.5	91.5	2.6	9.07	7.12	118.32	118.32	3.61	3.61	25.86	25.86	185.77	38.84	0.353	140.42
	91.5	91.5	3.2	11.04	8.67	141.69	141.69	3.58	3.58	30.97	30.97	224.80	46.55	0.350	115.40
	91.5	91.5	3.6	12.32	9.67	156.49	156.49	3.56	3.56	34.21	34.21	250.02	51.45	0.347	103.36
	91.5	91.5	4.5	15.14	11.88	187.57	187.57	3.52	3.52	41.00	41.00	304.39	61.79	0.343	84.14
	91.5	91.5	5.4	17.85	14.01	215.68	215.68	3.48	3.48	47.14	47.14	355.46	71.21	0.338	71.38
	91.5	91.5	6.0	19.59	15.38	232.81	232.81	3.45	3.45	50.89	50.89	387.66	77.00	0.335	65.01
	91.5	91.5	8.0	25.07	19.68	281.18	281.18	3.35	3.35	61.46	61.46	484.25	93.66	0.325	50.80
100X100	100	100	2.6	9.96	7.82	156.01	156.01	3.96	3.96	31.20	31.20	243.99	46.85	0.387	127.95
	100	100	3.2	12.13	9.52	187.28	187.28	3.93	3.93	37.46	37.46	295.72	56.28	0.384	105.04
	100	100	4.0	14.95	11.73	226.35	226.35	3.89	3.89	45.27	45.27	362.00	68.10	0.379	85.22
	100	100	5.0	18.36	14.41	271.10	271.10	3.84	3.84	54.22	54.22	440.50	81.72	0.374	69.39
	100	100	6.0	21.63	16.98	311.47	311.47	3.79	3.79	62.29	62.29	514.14	94.12	0.369	58.88
	100	100	8.0	27.79	21.82	379.77	379.77	3.70	3.70	75.95	75.95	646.66	115.45	0.359	45.83
113.5x113.5	113.5	113.5	4.0	17.11	13.43	337.67	337.67	4.44	4.44	59.50	59.50	535.95	89.44	0.433	74.46
	113.5	113.5	4.8	20.28	15.92	393.30	393.30	4.40	4.40	69.30	69.30	631.30	104.30	0.429	62.82
	113.5	113.5	5.4	22.60	17.74	432.58	432.58	4.38	4.38	76.23	76.23	700.20	114.83	0.426	56.37
	113.5	113.5	6.0	24.87	19.53	469.81	469.81	4.35	4.35	82.79	82.79	766.84	124.86	0.423	51.21
	113.5	113.5	8.0	32.11	25.21	579.66	579.66	4.25	4.25	102.14	102.14	972.60	154.78	0.413	39.67

132X132	132	132	4.0	20.07	15.75	542.25	542.25	5.20	5.20	82.16	82.16	853.91	123.42	0.507	63.48
	132	132	4.8	23.83	18.71	634.39	634.39	5.16	5.16	96.12	96.12	1008.71	144.51	0.503	53.46
	132	132	5.4	26.60	20.88	700.11	700.11	5.13	5.13	106.08	106.08	1121.29	159.60	0.500	47.90
	132	132	6.0	29.31	23.01	762.98	762.98	5.10	5.10	115.60	115.60	1230.84	174.08	0.497	43.46
	132	132	8.0	38.03	29.86	952.64	952.64	5.00	5.00	144.34	144.34	1573.97	218.11	0.487	33.49
	132	132	10.0	46.23	36.29	1113.05	1113.05	4.91	4.91	168.64	168.64	1882.91	255.97	0.476	27.56
150X150	150	150	4.0	22.95	18.01	807.82	807.82	5.93	5.93	107.71	107.71	1264.73	161.73	0.579	55.51
	150	150	5.0	28.36	22.26	982.12	982.12	5.89	5.89	130.95	130.95	1554.09	196.79	0.574	44.92
	150	150	6.0	33.63	26.40	1145.91	1145.91	5.84	5.84	152.79	152.79	1832.63	229.84	0.569	37.87
	150	150	8.0	43.79	34.38	1443.00	1443.00	5.74	5.74	192.40	192.40	2357.04	290.22	0.559	29.09
	150	150	10.0	53.43	41.94	1701.21	1701.21	5.64	5.64	226.83	226.83	2837.55	343.33	0.548	23.84
180X180	180	180	4.0	27.75	21.78	1421.74	1421.74	7.16	7.16	157.97	157.97	2210.12	237.10	0.699	45.91
	180	180	5.0	34.36	26.97	1736.87	1736.87	7.11	7.11	192.99	192.99	2724.10	289.81	0.694	37.08
	180	180	6.0	40.83	32.05	2036.52	2036.52	7.06	7.06	226.28	226.28	3222.56	340.05	0.689	31.20
	180	180	8.0	53.39	41.91	2590.73	2590.73	6.97	6.97	287.86	287.86	4172.68	433.39	0.679	23.86
	180	180	10.0	65.43	51.36	3086.93	3086.93	6.87	6.87	342.99	342.99	5059.98	517.64	0.668	19.47
200x200	200	200	4.0	30.95	24.29	1968.13	1968.13	7.97	7.97	196.81	196.81	3048.60	295.34	0.779	41.16
	200	200	5.4	41.28	32.41	2581.45	2581.45	7.91	7.91	258.14	258.14	4043.71	387.62	0.772	30.86
	200	200	6.0	45.63	35.82	2832.75	2832.75	7.88	7.88	283.27	283.27	4458.70	425.51	0.769	27.92
	200	200	8.0	59.79	46.94	3621.63	3621.63	7.78	7.78	362.16	362.16	5792.01	544.81	0.759	21.30
	200	200	10.0	73.43	57.64	4337.63	4337.63	7.69	7.69	433.76	433.76	7048.03	653.80	0.748	17.35
220x220	220	220	5.0	42.36	33.25	3238.02	3238.02	8.74	8.74	294.37	294.37	5037.62	441.83	0.854	30.07
	220	220	6.0	50.43	39.59	3813.36	3813.36	8.70	8.70	346.67	346.67	5976.05	520.57	0.849	25.26
	220	220	8.0	66.19	51.96	4894.99	4894.99	8.60	8.60	445.00	445.00	7783.28	669.03	0.839	19.24
	220	220	10.0	81.43	63.92	5887.19	5887.19	8.50	8.50	535.20	535.20	9497.22	805.93	0.828	15.64
	220	220	12.0	96.14	75.47	6793.08	6793.08	8.41	8.41	617.55	617.55	11117.25	931.78	0.818	13.25
250X250	250	250	5.0	48.36	37.96	4805.01	4805.01	9.97	9.97	384.40	384.40	7442.88	576.84	0.974	26.34
	250	250	6.0	57.63	45.24	5672.00	5672.00	9.92	9.92	453.76	453.76	8842.34	681.15	0.969	22.10
	250	250	8.0	75.79	59.50	7315.65	7315.65	9.82	9.82	585.25	585.25	11551.56	879.34	0.959	16.81
	250	250	10.0	93.43	73.34	8841.86	8841.86	9.73	9.73	707.35	707.35	14140.66	1064.09	0.948	13.63
	250	250	12.0	110.54	86.77	10254.21	10254.21	9.63	9.63	820.34	820.34	16608.97	1235.94	0.938	11.52
300x300	300	300	6.0	69.63	54.66	9963.67	9963.67	11.96	11.96	664.24	664.24	15433.55	996.78	1.169	18.29
	300	300	8.0	91.79	72.06	12925.07	12925.07	11.87	11.87	861.67	861.67	20235.69	1293.82	1.159	13.88
	300	300	10.0	113.43	89.04	15713.90	15713.90	11.77	11.77	1047.6	1047.6	24865.45	1574.29	1.148	11.23
	300	300	12.0	134.54	105.61	18334.49	18334.49	11.67	11.67	1222.3	1222.3	29322.07	1838.74	1.138	9.47
	300	300	14.0	155.12	121.77	20791.11	20791.11	11.58	11.58	1386.1	1386.1	33604.76	2087.72	1.128	8.21
	300	300	16.0	175.18	137.51	23088.02	23088.02	11.48	11.48	1539.2	1539.2	37712.69	2321.72	1.118	7.27
400x400	400	400	8.0	123.79	97.18	31490.11	31490.11	15.95	15.95	1574.51	1574.51	48777.65	2362.73	1.559	10.29
	400	400	10.0	153.43	120.44	38561.41	38561.41	15.85	15.85	1928.07	1928.07	60211.46	2894.55	1.548	8.30
	400	400	12.0	182.54	143.29	45323.97	45323.97	15.76	15.76	2266.2	2266.2	71339.17	3404.07	1.538	6.98
	400	400	14.0	211.12	165.73	51783.59	51783.59	15.66	15.66	2589.2	2589.2	82159.77	3891.87	1.528	6.03
	400	400	16.0	239.18	187.75	57946.03	57946.03	15.57	15.57	2897.3	2897.3	92672.23	4358.51	1.518	5.33

