



M/s. Chhaganlal Dharamchand Shah

SQUARE HOLLOW SECTIONS SPECIFICATION : IS : 4923

SHS DXB MM	Thickness T MM	Sec. Area A cm ²	Unit wt. W kg/m	Moment of Inertia		Radius of Gyration		Elastic Modulus		Torsional Constants		Outer surf area per m
				Ixx	Iyy	Rxx	Ryy	Zxx	Zyy	J	B	
				cm ⁴	cm ⁴	cm	cm	cm ³	cm ³	cm ³	cm ³	
25 X 25	1.6	1.43	1.12	1.28	1.28	0.94	0.94	1.02	1.02	1.96	1.46	0.092
	2	1.74	1.36	1.48	1.48	0.92	0.92	1.19	1.19	2.29	1.68	0.09
	2.6	2.16	1.69	1.72	1.72	0.89	0.89	1.38	1.38	2.68	1.92	0.087
	3.2	2.53	1.98	1.89	1.89	0.86	0.86	1.51	1.51	2.96	2.07	0.084
32 X 32	2	2.3	1.8	3.36	3.36	1.21	1.21	2.1	2.1	5.3	3.05	0.118
	2.6	2.88	2.26	4.02	4.02	1.18	1.18	2.25	2.25	6.45	3.63	0.115
	3.2	3.42	2.69	4.54	4.54	1.15	1.15	2.84	2.84	7.41	4.07	0.112
38 X 38	2	2.78	2.18	5.88	5.88	1.46	1.46	3.1	3.1	9.31	4.54	0.142
	2.6	3.51	2.75	7.14	7.14	1.43	1.43	3.76	3.76	11.51	5.49	0.139
	3.2	4.19	3.29	8.18	8.18	1.4	1.4	4.3	4.3	13.45	6.28	0.136
	4	5.03	3.95	9.26	9.26	1.36	1.36	4.87	4.87	15.67	7.12	0.131
40 X 40	2.6	3.72	2.92	8.45	8.45	1.51	1.51	4.22	4.22	13.63	6.2	0.147
	2.9	4.09	3.21	9.11	9.11	1.49	1.49	4.56	4.56	14.85	6.68	0.145
	3.2	4.45	3.49	9.72	9.72	1.48	1.48	4.86	4.86	16	7.12	0.144
	4	5.35	4.2	11.07	11.07	1.44	1.44	5.54	5.54	18.75	8.12	0.139
50X 50	2.6	4.76	3.74	17.47	17.47	1.92	1.92	6.99	6.99	28.53	10.37	0.187
	2.9	5.25	4.12	18.99	18.99	1.9	1.9	7.6	7.6	31.15	11.23	0.185
	3.9	6.35	4.98	22.15	22.15	1.87	1.87	8.86	8.86	36.58	12.98	0.181
	4.5	7.67	6.02	22.5	22.5	1.82	1.82	10.2	10.2	41.99	14.68	0.177
60 X 60	2.6	5.8	4.55	31.33	31.33	2.33	2.33	10.44	10.44	50.08	15.22	0.227
	2.9	6.41	5.03	34.21	34.21	2.31	2.31	11.4	11.4	56.12	16.95	0.225
	3.2	7.01	5.5	36.94	36.94	2.3	2.3	12.31	12.31	60.02	18.31	0.224
	4	8.55	6.71	43.55	43.55	2.26	2.26	14.52	14.52	72.41	21.62	0.219
	4.8	10.01	7.85	49.22	49.22	2.22	2.22	16.41	16.41	83.86	24.51	0.215
72 X 72	3.2	8.54	6.71	66.32	66.32	2.79	2.79	18.42	18.42	106.81	27.47	0.272
	4	10.47	8.22	79.03	79.03	2.75	2.75	21.95	21.95	129.85	32.78	0.267
	4.8	12.31	9.66	90.31	90.31	2.71	2.71	25.09	25.09	151.55	37.55	0.263

80 X 80	3.2	9.57	7.51	92.71	92.71	3.11	3.11	23.18	23.18	148.55	34.6	0.304
	4	11.75	9.22	111.04	111.04	3.07	3.07	27.76	27.76	181.22	41.49	0.299
	4.8	13.85	10.87	127.58	127.58	3.04	3.04	31.89	31.89	212.26	47.77	0.295
91.5 X 91.5	3.6	12.32	9.67	156.49	156.49	3.56	3.56	34.21	34.21	251.17	51.14	0.347
	4.5	15.14	11.88	187.57	187.57	3.52	3.52	41	41	306.78	61.4	0.343
	5.4	17.85	14.01	215.68	215.68	3.48	3.48	47.14	47.14	359.76	70.77	0.338
100 X 100	4	14.95	11.73	226.35	226.35	3.89	3.89	45.27	45.27	364.75	67.5	0.379
	5	18.36	14.41	271.1	271.1	3.84	3.84	54.22	54.22	441.84	80.54	0.374
	6	21.63	16.98	311.47	311.47	3.79	3.79	62.29	62.29	511.8	92.06	0.369
114 X 114	4.8	20.28	15.92	393.3	393.3	4.4	4.4	69.3	69.3	637.45	103.89	0.429
	5.4	22.6	17.74	432.58	432.58	4.38	4.38	76.23	76.23	708.69	114.41	0.426
132 X 132	4.8	23.83	18.71	634.39	634.39	5.16	5.16	96.12	96.12	1018.3	144.11	0.503
	5.4	26.59	20.88	700.11	700.11	5.13	5.13	106.08	106.08	1134.25	159.18	0.5
140 X 140	4.8	25.36	19.91	763.46	763.46	54.86	54.86	109.07	109.07	-	-	0.56
	5.4	28.32	22.23	843.53	843.53	54.58	54.58	120.51	120.51	-	-	0.56
	6	31.23	24.52	920.37	920.37	54.29	54.29	131.48	131.48	-	-	0.56
	8	40.59	31.86	1153.83	1153.83	53.32	53.32	161.83	161.83	-	-	0.56
150 X 150	4	22.95	18.01	807.82	807.82	5.93	5.93	107.71	107.71	1273.46	161.38	0.579
	5	28.36	22.26	982.12	982.12	5.89	5.89	130.95	130.95	1569.09	196.38	0.574
	6	33.63	26.4	1145.91	1145.91	5.84	5.84	152.79	152.79	1856.18	229.44	0.569
	7	38.78	30.44	1299.44	1299.44	5.79	5.79	173.26	173.26	2134.99	260.65	0.564
	8	43.79	34.38	1443	1443	5.74	5.74	192.4	192.4	2405.78	290.12	0.559
180 X 180	4	27.75	21.78	1421.74	1421.74	7.16	7.16	157.97	157.97	2224.31	236.76	0.699
	5	34.36	26.97	1736.87	1736.87	7.11	7.11	192.99	192.99	2747.93	289.4	0.694
	6	40.83	32.05	2036.52	2036.52	7.06	7.06	226.28	226.28	3259.23	339.65	0.689
	7	47.18	37.03	2321.04	2321.04	7.01	7.01	257.89	257.89	3758.53	387.59	0.684
	8	53.39	41.91	2590.73	2590.73	6.97	6.97	287.86	287.86	4246.16	433.32	0.679
220 X 220	4	34.15	26.61	2639.14	2639.14	8.79	8.79	239.92	239.92	4099.49	359.65	0.859
	5	42.36	33.25	3238.02	3238.02	8.74	8.74	294.37	294.37	5076.22	441.43	0.854
	6	50.43	39.59	3813.36	3813.36	8.7	8.7	346.67	346.67	6034.53	520.18	0.849
	7	58.38	45.83	4365.55	4365.55	8.65	8.65	396.67	396.67	6974.82	596	0.844
	8	66.19	51.96	4894.99	4894.99	8.6	8.6	445	445	7897.48	668.99	0.839
250 X 250	4	38.95	30.57	3907.3	3907.3	10.02	10.02	312.58	312.58	6045.4	468.61	0.979
	5	48.36	37.96	4805.01	4805.01	9.97	9.97	384.4	384.4	7494.83	576.44	0.974
	6	57.63	45.24	5672	5672	9.92	9.92	453.76	453.76	8920.44	680.77	0.969
	7	66.78	52.42	6508.73	6508.73	9.87	9.87	520.7	520.7	10322.7	781.69	0.964
	8	75.79	59.5	7315.65	7315.65	9.82	9.82	585.25	585.25	11702.07	879.31	0.959