



RECTANGULAR HOLLOW SECTION(RHS) IS 4923:1997/ EN 10219/ASTM A500

S. no.	Designation/Size	Thickne ss	Weight	Area of Section	Moment of Inertia about		Radius of Gyration about		Elastic Modulus about		Plastic Modulus about	
	mm	mm	kg/m	cm ²	X-X	Y-Y	X-X	Y-Y	X-X	Y-Y	X-X	Y-Y
					cm ⁴	cm ⁴	cm	cm	cm ³	cm ³	cm ³	cm ³
1	40 x 20 x 1.2	1.2	1.06	1.35	2.73	0.92	1.42	0.83	1.36	0.92	1.71	1.05
2	40 x 20 x 1.6	1.6	1.37	1.75	3.43	1.15	1.40	0.81	1.72	1.15	2.18	1.34
3	40 x 20 x 1.8	1.8	1.53	1.95	3.75	1.25	1.39	0.80	1.88	1.25	2.40	1.47
4	40 x 20 x 2.0	2.0	1.68	2.14	4.05	1.34	1.38	0.79	2.02	1.34	2.61	1.60
5	40 x 20 x 2.3	2.3	1.89	2.41	4.45	1.47	1.36	0.78	2.23	1.47	2.91	1.77
6	50 x 25 x 1.6	1.6	1.75	2.23	7.02	2.37	1.77	1.03	2.81	1.90	3.53	2.17
7	50 x 25 x 1.8	1.8	1.95	2.49	7.72	2.60	1.76	1.02	3.09	2.08	3.90	2.40
8	50 x 25 x 2.0	2.0	2.15	2.74	8.38	2.81	1.75	1.01	3.35	2.25	4.26	2.62
9	50 x 25 x 2.3	2.3	2.44	3.10	9.31	3.10	1.73	1.00	3.72	2.48	4.78	2.92
10	50 x 25 x 2.6	2.6	2.71	3.46	10.16	3.36	1.71	0.99	4.06	2.69	5.26	3.21
11	50 x 25 x 2.9	2.9	2.98	3.80	10.93	3.60	1.70	0.97	4.37	2.88	5.72	3.48
12	50 x 25 x 3.2	3.2	3.24	4.13	11.63	3.80	1.68	0.96	4.65	3.04	6.14	3.73
13	60 x 40 x 1.8	1.8	2.66	3.39	16.85	9.01	2.23	1.63	5.62	4.50	6.81	5.15
14	60 x 40 x 2.0	2.0	2.93	3.74	18.41	9.83	2.22	1.62	6.14	4.92	7.47	5.65
15	60 x 40 x 2.6	2.6	3.73	4.76	22.76	12.09	2.19	1.59	7.59	6.05	9.36	7.07
16	60 x 40 x 2.9	2.9	4.12	5.25	24.74	13.11	2.17	1.58	8.25	6.56	10.24	7.73
17	60 x 40 x 3.2	3.2	4.50	5.73	26.60	14.07	2.16	1.57	8.87	7.03	11.09	8.36
18	60 x 40 x 3.6	3.6	4.98	6.35	28.90	15.23	2.13	1.55	9.63	7.62	12.16	9.15
19	60 x 40 x 4.0	4.0	5.45	6.95	30.98	16.28	2.11	1.53	10.33	8.14	13.16	9.89
20	80 x 40 x 2.0	2.0	3.56	4.54	37.35	12.72	2.87	1.67	9.34	6.36	11.61	7.17
21	80 x 40 x 2.3	2.3	4.06	5.17	42.08	14.27	2.85	1.66	10.52	7.14	13.15	8.11
22	80 x 40 x 2.6	2.6	4.55	5.80	46.58	15.73	2.84	1.65	11.64	7.87	14.63	9.01
23	80 x 40 x 2.9	2.9	5.03	6.41	50.86	17.11	2.82	1.63	12.72	8.56	16.07	9.88
24	80 x 40 x 3.2	3.2	5.50	7.01	54.94	18.41	2.80	1.62	13.73	9.21	17.46	10.71
25	80 x 40 x 3.6	3.6	6.11	7.79	60.04	20.02	2.78	1.60	15.01	10.01	19.23	11.77
26	80 x 40 x 4.0	4.0	6.71	8.55	64.78	21.48	2.75	1.59	16.20	10.74	20.91	12.77
27	80 x 40 x 4.5	4.5	7.43	9.47	70.21	23.14	2.72	1.56	17.55	11.57	22.89	13.94
28	96 x 48 x 2.6	2.6	5.53	7.04	82.95	28.19	3.43	2.00	17.28	11.74	21.55	13.30
29	96 x 48 x 2.9	2.9	6.12	7.80	90.93	30.79	3.41	1.99	18.94	12.83	23.73	14.63
30	96 x 48 x 3.2	3.2	6.71	8.54	98.60	33.28	3.40	1.97	20.54	13.87	25.85	15.91
31	96 x 48 x 3.6	3.6	7.47	9.52	108.34	36.40	3.37	1.96	22.57	15.17	28.58	17.56
32	96 x 48 x 4.0	4.0	8.22	10.47	117.53	39.32	3.35	1.94	24.49	16.38	31.20	19.14
33	96 x 48 x 4.5	4.5	9.13	11.63	128.28	42.68	3.32	1.92	26.73	17.78	34.33	21.01
34	96 x 48 x 4.8	4.8	9.66	12.31	134.34	44.55	3.30	1.90	27.99	18.56	36.13	22.07
35	100 x 50 x 2.6	2.6	5.77	7.36	94.32	32.09	3.58	2.09	18.86	12.83	23.48	14.51
36	100 x 50 x 2.9	2.9	6.40	8.15	103.47	35.09	3.56	2.08	20.69	14.03	25.87	15.96
37	100 x 50 x 3.2	3.2	7.01	8.93	112.28	37.95	3.55	2.06	22.46	15.18	28.20	17.37
38	100 x 50 x 3.6	3.6	7.81	9.95	123.50	41.56	3.52	2.04	24.70	16.63	31.20	19.19
39	100 x 50 x 4.0	4.0	8.59	10.95	134.12	44.95	3.50	2.03	26.82	17.98	34.10	20.93
40	100 x 50 x 4.5	4.5	9.55	12.17	146.59	48.87	3.47	2.00	29.32	19.55	37.55	23.00
41	100 x 50 x 4.8	4.8	10.11	12.88	153.64	51.06	3.45	1.99	30.73	20.42	39.54	24.18
42	122 x 61 x 2.6	2.6	7.12	9.07	175.74	60.09	4.40	2.57	28.81	19.70	35.62	22.05
43	122 x 61 x 2.9	2.9	7.90	10.06	193.40	65.95	4.38	2.56	31.70	21.62	39.34	24.32
44	122 x 61 x 3.2	3.2	8.66	11.04	210.54	71.60	4.37	2.55	34.51	23.48	42.98	26.55
45	122 x 61 x 3.6	3.6	9.67	12.32	232.59	78.82	4.34	2.53	38.13	25.84	47.71	29.42
46	122 x 61 x 4.0	4.0	10.67	13.59	253.74	85.69	4.32	2.51	41.60	28.09	52.30	32.21
47	122 x 61 x 4.5	4.5	11.88	15.14	278.91	93.78	4.29	2.49	45.72	30.75	57.84	35.55
48	122 x 61 x 4.8	4.8	12.60	16.05	293.36	98.38	4.28	2.48	48.09	32.25	61.07	37.49
49	122 x 61 x 5.4	5.4	14.01	17.85	320.80	107.02	4.24	2.45	52.59	35.09	67.28	41.22
50	122 x 61 x 5.6	5.6	14.47	18.43	329.51	109.74	4.23	2.44	54.02	35.98	69.29	42.41
51	122 x 61 x 6.0	6.0	15.38	19.59	346.32	114.94	4.20	2.42	56.77	37.69	73.20	44.74
52	145 x 82 x 3.2	3.2	10.88	13.85	392.20	162.88	5.32	3.43	54.10	39.73	66.05	44.64

53	145 × 82 × 3.6	3.6	12.16	15.49	434.93	180.22	5.30	3.41	59.99	43.96	73.52	49.65
54	145 × 82 × 4.0	4.0	13.43	17.11	476.32	196.93	5.28	3.39	65.70	48.03	80.82	54.53
55	145 × 82 × 4.5	4.5	14.99	19.10	526.19	216.94	5.25	3.37	72.58	52.91	89.72	60.46
56	145 × 82 × 4.8	4.8	15.92	20.28	555.12	228.49	5.23	3.36	76.57	55.73	94.93	63.93
57	145 × 82 × 5.4	5.4	17.74	22.60	610.80	250.58	5.20	3.33	84.25	61.12	105.06	70.66
58	145 × 82 × 6.0	6.0	19.52	24.87	663.60	271.35	5.17	3.30	91.53	66.18	114.83	77.12
59	172 × 92 × 3.6	3.6	14.25	18.16	713.91	271.80	6.27	3.87	83.01	59.09	101.81	66.17
60	172 × 92 × 4.0	4.0	15.75	20.07	783.50	297.65	6.25	3.85	91.10	64.71	112.10	72.79
61	172 × 92 × 4.8	4.8	18.70	23.83	917.06	346.89	6.20	3.82	106.64	75.41	132.07	85.61
62	172 × 92 × 5.4	5.4	20.88	26.59	1012.39	381.72	6.17	3.79	117.72	82.98	146.54	94.85
63	172 × 92 × 6.0	6.0	23.01	29.31	1103.63	414.80	6.14	3.76	128.33	90.17	160.55	103.79
64	200 × 100 × 3.6	3.6	16.29	20.75	1091.42	374.53	7.25	4.25	109.14	74.91	134.29	83.26
65	200 × 100 × 4.0	4.0	18.01	22.95	1199.64	410.76	7.23	4.23	119.96	82.15	148.03	91.70
66	200 × 100 × 4.5	4.5	20.15	25.67	1331.36	454.63	7.20	4.21	133.14	90.93	164.88	102.01
67	200 × 100 × 5.0	5.0	22.26	28.36	1459.16	496.92	7.17	4.19	145.92	99.38	181.36	112.09
68	200 × 100 × 5.6	5.6	24.76	31.54	1607.41	545.63	7.14	4.16	160.74	109.13	200.67	123.85
69	200 × 100 × 6.0	6.0	26.40	33.63	1703.17	576.89	7.12	4.14	170.32	115.38	213.25	131.49
70	200 × 100 × 7.1	7.1	30.84	39.28	1954.07	657.98	7.05	4.09	195.41	131.60	246.68	151.73
71	200 × 100 × 8.0	8.0	34.37	43.79	2146.00	719.15	7.00	4.05	214.60	143.83	272.76	167.42
72	250 × 150 × 5.0	5.0	30.11	38.36	3304.02	1507.90	9.28	6.27	264.32	201.05	319.75	225.47
73	250 × 150 × 5.4	5.4	32.41	41.28	3539.64	1613.63	9.26	6.25	283.17	215.15	343.28	241.96
74	250 × 150 × 6.0	6.0	35.82	45.63	3885.34	1768.28	9.23	6.23	310.83	235.77	378.03	266.27
75	250 × 150 × 7.1	7.1	41.98	53.48	4495.35	2039.68	9.17	6.18	359.63	271.96	439.99	309.54
76	250 × 150 × 8.0	8.0	46.93	59.79	4971.87	2250.31	9.12	6.13	397.75	300.04	489.04	343.69
77	250 × 150 × 9.0	9.0	52.34	66.67	5477.90	2472.57	9.06	6.09	438.23	329.68	541.80	380.34
78	250 × 150 × 10	10.0	57.63	73.42	5959.66	2682.73	9.01	6.04	476.77	357.70	592.74	415.64
79	250 × 150 × 11	11.0	62.83	80.04	6417.55	2881.09	8.95	6.00	513.40	384.14	641.90	449.61
80	250 × 150 × 12	12.0	67.92	86.52	6851.98	3067.93	8.90	5.95	548.16	409.06	689.27	482.24
81	250 × 150 × 12.7	12.7	71.42	90.99	7142.33	3192.04	8.86	5.92	571.39	425.60	721.38	504.31
82	300 × 150 × 5.0	5.0	34.03	43.36	5152.90	1770.82	10.90	6.39	343.53	236.11	421.89	261.72
83	300 × 150 × 5.4	5.4	36.64	46.68	5525.32	1896.04	10.88	6.37	368.35	252.80	453.24	281.00
84	300 × 150 × 5.6	5.6	37.94	48.34	5709.37	1957.77	10.87	6.36	380.62	261.04	468.78	290.55
85	300 × 150 × 6.0	6.0	40.53	51.63	6073.18	2079.50	10.85	6.35	404.88	277.27	499.61	309.47
86	300 × 150 × 7.1	7.1	47.56	60.58	7044.38	2402.44	10.78	6.30	469.63	320.32	582.58	360.27
87	300 × 150 × 8.0	8.0	53.21	67.79	7807.40	2654.01	10.73	6.26	520.49	353.87	648.51	400.49
88	300 × 150 × 9.0	9.0	59.40	75.67	8622.32	2920.50	10.67	6.21	574.82	389.40	719.72	443.79
89	300 × 150 × 10	10.0	65.48	83.42	9403.09	3173.56	10.62	6.17	626.87	423.14	788.79	485.64
90	300 × 150 × 11	11.0	71.46	91.04	10150.19	3413.52	10.56	6.12	676.68	455.14	855.74	526.06
91	300 × 150 × 12	12.0	77.34	98.52	10864.10	3640.69	10.50	6.08	724.27	485.43	920.58	565.04
92	300 × 150 × 12.7	12.7	81.39	103.69	11344.35	3792.27	10.46	6.05	756.29	505.64	964.72	591.50
93	300 × 200 × 5.0	5.0	37.96	48.36	6240.82	3360.82	11.36	8.34	416.05	336.08	495.64	376.36
94	300 × 200 × 5.4	5.4	40.88	52.08	6697.10	3604.07	11.34	8.32	446.47	360.41	532.78	404.46
95	300 × 200 × 6.0	6.0	45.24	57.63	7369.90	3962.05	11.31	8.29	491.33	396.21	587.81	446.05
96	300 × 200 × 7.1	7.1	53.13	67.68	8567.46	4597.21	11.25	8.24	571.16	459.72	686.56	520.60
97	300 × 200 × 8.0	8.0	59.49	75.79	9513.11	5096.82	11.20	8.20	634.21	509.68	765.31	579.96
98	300 × 200 × 9.0	9.0	66.47	84.67	10528.25	5631.16	11.15	8.16	701.88	563.12	850.67	644.22
99	300 × 200 × 9.3	9.3	68.54	87.31	10825.56	5787.25	11.14	8.14	721.70	578.72	875.84	663.15
100	300 × 200 × 10	10.0	73.33	93.42	11506.42	6143.99	11.10	8.11	767.09	614.40	933.79	706.69
101	300 × 200 × 11	11.0	80.10	102.04	12448.13	6635.71	11.05	8.06	829.88	663.57	1014.69	767.40
102	300 × 200 × 12	12.0	86.76	110.52	13353.86	7106.70	10.99	8.02	890.26	710.67	1093.38	826.36
103	300 × 200 × 12.7	12.7	91.36	116.39	13966.74	7424.27	10.95	7.99	931.12	742.43	1147.16	866.59