

RECTANGULAR HOLLOW SECTION



Rectangular Size Range
26mm X 13mm to 600mm X 400mm

Thickness
1mm to 20mm

RECTANGULAR HOLLOW SECTION (RHS) IS : 4923 : 2017/EN 10219-1 : 2006*/ASTM A-500												
Dimension	Weight	Area	Moment of Inertia		Radius of Gyration		Elastic Modulus		Plastic Modulus		Torsional Constants	
			I _{xx}	I _{yy}	R _{xx}	R _{yy}	Z _{xx}	Z _{yy}	S _{xx}	S _{yy}	J	C
mm	kg/m	cm ²	cm ⁴	cm ⁴	cm	cm	cm ³	cm ³	cm ³	cm ³	cm ⁴	cm ³
26 X 13 X 1.6	0.85	1.08	0.83	0.27	0.88	0.50	0.64	0.42	0.84	0.51	0.63	0.66
26 X 13 X 2.0	1.02	1.30	0.94	0.30	0.85	0.48	0.73	0.47	0.98	0.59	0.64	0.67
30 X 20 X 1.6	1.12	1.43	1.66	0.88	1.08	0.78	1.11	0.88	1.39	1.05	1.85	1.38
30 X 20 X 2.0	1.37	1.74	1.94	1.02	1.06	0.77	1.30	1.02	1.65	1.24	2.08	1.55
30 X 20 X 2.2	1.48	1.88	2.05	1.08	1.04	0.76	1.37	1.08	1.76	1.32	2.15	1.60
40 X 10 X 1.6	1.12	1.43	2.25	0.22	1.25	0.39	1.13	0.44	1.57	0.54	0.65	0.76
40 X 10 X 2.0	1.37	1.74	2.60	0.25	1.22	0.38	1.30	0.50	1.85	0.63	0.65	0.78
40 X 20 X 1.6	1.37	1.75	3.43	1.15	1.40	0.81	1.72	1.15	2.18	1.34	2.83	1.92
40 X 20 X 2.0	1.68	2.14	4.05	1.34	1.38	0.79	2.03	1.34	2.61	1.60	3.25	2.19
40 X 20 X 2.2	1.82	2.32	4.32	1.43	1.36	0.79	2.16	1.43	2.81	1.71	3.40	2.29
40 X 20 X 2.5	2.03	2.59	4.69	1.54	1.35	0.77	2.35	1.54	3.09	1.88	3.55	2.40
40 X 25 X 1.6	1.50	1.91	4.02	1.93	1.45	1.01	2.01	1.55	2.49	1.80	4.25	2.51
40 X 25 X 2.0	1.84	2.34	4.77	2.28	1.43	0.99	2.39	1.83	2.99	2.16	4.99	2.91
40 X 25 X 2.2	1.99	2.54	5.11	2.43	1.42	0.98	2.56	1.95	3.23	2.32	5.28	3.07
40 X 25 X 2.5	2.23	2.84	5.57	2.64	1.40	0.96	2.79	2.12	3.56	2.56	5.64	3.27
50 X 25 X 1.6	1.75	2.23	7.02	2.37	1.77	1.03	2.81	1.90	3.53	2.17	5.83	3.21
50 X 25 X 2.0	2.15	2.74	8.38	2.81	1.75	1.01	3.36	2.25	4.26	2.62	6.90	3.76
50 X 25 X 2.2	2.34	2.98	9.01	3.01	1.74	1.01	3.61	2.41	4.61	2.82	7.35	3.99
50 X 25 X 2.5	2.62	3.34	9.89	3.28	1.72	0.99	3.96	2.63	5.11	3.12	7.93	4.29
50 X 30 X 1.6	1.88	2.39	7.96	3.60	1.82	1.23	3.19	2.40	3.91	2.75	8.07	3.96
50 X 30 X 2.0	2.31	2.94	9.54	4.29	1.80	1.21	3.82	2.86	4.74	3.33	9.65	4.67
50 X 30 X 2.2	2.51	3.20	10.27	4.61	1.79	1.20	4.11	3.08	5.14	3.60	10.35	4.99
50 X 30 X 2.5	2.82	3.59	11.30	5.05	1.77	1.19	4.52	3.37	5.70	3.98	11.28	5.40
50 X 30 X 2.8	3.11	3.96	12.24	5.45	1.76	1.17	4.90	3.64	6.23	4.35	12.05	5.75
50 X 30 X 3.2	3.49	4.45	13.38	5.93	1.73	1.15	5.36	3.96	6.89	4.80	12.81	6.11
50 X 30 X 3.6	3.85	4.91	14.38	6.34	1.71	1.14	5.76	4.23	7.50	5.21	13.25	6.33
50 X 30 X 4.0	4.20	5.35	15.25	6.69	1.69	1.12	6.10	4.46	8.05	5.58	13.33	6.42
50 X 30 X 4.5	4.61	5.87	16.16	7.05	1.66	1.10	6.47	4.70	8.67	5.99	12.94	6.35
50 X 30 X 5.0	4.99	6.36	16.87	7.33	1.63	1.07	6.75	4.89	9.20	6.34	12.00	6.06
50 X 30 X 6.0	5.68	7.23	17.77	7.65	1.57	1.03	7.11	5.10	10.04	6.89	8.67	4.86
50 X 30 X 8.0	6.74	8.59	17.66	7.57	1.43	0.94	7.07	5.05	10.83	7.36	1.34	1.45
60 X 40 X 1.6	2.38	3.03	15.22	8.16	2.24	1.64	5.08	4.08	6.12	4.64	17.10	6.63
60 X 40 X 2.0	2.94	3.74	18.41	9.83	2.22	1.62	6.14	4.92	7.47	5.65	20.77	7.96
60 X 40 X 2.2	3.20	4.08	19.92	10.62	2.21	1.61	6.64	5.31	8.12	6.14	22.49	8.56
60 X 40 X 2.5	3.60	4.59	22.07	11.74	2.19	1.60	7.36	5.87	9.06	6.84	24.89	9.41
60 X 40 X 2.8	3.99	5.08	24.10	12.78	2.18	1.59	8.04	6.39	9.95	7.51	27.08	10.17
60 X 40 X 3.2	4.50	5.73	26.61	14.07	2.15	1.57	8.87	7.04	11.09	8.36	29.63	11.05
60 X 40 X 3.6	4.98	6.35	28.90	15.23	2.13	1.55	9.64	7.62	12.16	9.15	31.72	11.79
60 X 40 X 4.0	5.46	6.95	30.99	16.28	2.11	1.53	10.33	8.14	13.16	9.89	33.31	12.36
60 X 40 X 4.5	6.02	7.67	33.31	17.44	2.08	1.51	11.11	8.72	14.32	10.75	34.57	12.85
60 X 40 X 5.0	6.56	8.36	35.33	18.43	2.06	1.48	11.78	9.22	15.38	11.52	34.95	13.08
60 X 40 X 6.0	7.56	9.63	38.50	19.95	2.00	1.44	12.84	9.98	17.20	12.84	33.01	12.74

RECTANGULAR SIZE RANGE

RECTANGULAR HOLLOW SECTION (RHS) IS : 4923 : 2017/EN 10219-1 : 2006*/ASTM A-500

Dimension mm	Weight kg/m	Area cm ²	Moment of Inertia		Radius of Gyration		Elastic Modulus		Plastic Modulus		Torsional Constants	
			I _{xx}	I _{yy}	R _{xx}	R _{yy}	Z _{xx}	Z _{yy}	S _{xx}	S _{yy}	J	C
			cm ⁴	cm ⁴	cm	cm	cm ³	cm ³	cm ³	cm ³	cm ⁴	cm ³
300 X 200 X 14.0	99.78	127.11	15060.82	7988.55	10.89	7.93	1004.06	798.86	1244.30	939.14	16924.33	1271.23
400 X 200 X 14.0	121.76	155.11	30915.01	10414.85	14.12	8.19	1545.76	1041.49	1949.87	1199.54	25616.52	1755.81
400 X 300 X 6.0	64.08	81.63	19446.79	12557.11	15.43	12.40	972.34	837.15	1142.39	940.63	23929.98	1338.20
400 X 300 X 8.0	84.62	107.79	25342.70	16336.49	15.33	12.31	1267.14	1089.10	1497.91	1232.55	31464.16	1738.28
400 X 300 X 10.0	104.73	133.42	30954.74	19920.57	15.23	12.22	1547.74	1328.04	1840.98	1513.86	38709.68	2114.80
400 X 300 X 12.0	124.45	158.53	36288.45	23314.01	15.13	12.13	1814.43	1554.27	2171.73	1784.67	45625.84	2467.39
400 X 300 X 14.0	143.74	183.11	41349.30	26521.41	15.03	12.03	2067.47	1768.10	2490.27	2045.10	52172.04	2795.60
400 X 300 X 16.0	162.63	207.17	46142.73	29547.33	14.92	11.94	2307.14	1969.83	2796.72	2295.29	58308.01	3098.98
400 X 300 X 18.0	181.10	230.70	50674.11	32396.29	14.82	11.85	2533.71	2159.76	3091.21	2535.33	63994.05	3377.06
400 X 300 X 20.0	199.15	253.70	54948.80	35072.75	14.72	11.76	2747.44	2338.19	3373.85	2765.36	69191.33	3629.36
500 X 200 X 6.0	64.08	81.63	25690.13	6221.07	17.74	8.73	1027.61	622.11	1284.16	678.87	16353.70	1098.63
500 X 200 X 8.0	84.62	107.79	33466.50	8047.87	17.62	8.64	1338.66	804.79	1683.27	887.19	21366.48	1419.28
500 X 200 X 10.0	104.73	133.42	40860.16	9757.63	17.50	8.55	1634.41	975.77	2068.10	1086.73	26105.40	1716.72
500 X 200 X 12.0	124.45	158.53	47877.48	11354.15	17.38	8.46	1915.10	1135.42	2438.78	1277.61	30538.24	1990.64
500 X 200 X 14.0	143.74	183.11	54524.82	12841.14	17.26	8.37	2181.00	1284.12	2795.43	1459.94	34633.43	2240.67
500 X 200 X 16.0	162.63	207.17	60808.49	14222.30	17.13	8.29	2432.34	1422.23	3138.16	1633.85	38360.40	2466.45
500 X 300 X 8.0	97.18	123.79	43149.92	19747.90	18.67	12.63	1726.00	1316.53	2076.87	1466.15	43143.80	2192.97
500 X 300 X 10.0	120.43	153.42	52866.82	24127.24	18.56	12.54	2114.68	1608.49	2558.10	1803.86	53167.39	2675.40
500 X 300 X 12.0	143.29	182.53	62169.00	28293.53	18.46	12.45	2486.76	1886.24	3024.38	2130.27	62797.85	3130.85
500 X 300 X 14.0	165.72	211.11	71063.12	32251.70	18.35	12.36	2842.53	2150.12	3475.83	2445.50	71991.13	3558.92
500 X 300 X 16.0	187.75	239.17	79555.80	36006.64	18.24	12.27	3182.24	2400.45	3912.56	2749.69	80703.46	3959.20
500 X 300 X 18.0	209.36	266.70	87653.63	39563.17	18.13	12.18	3506.15	2637.55	4334.69	3042.93	88891.60	4331.25
500 X 300 X 20.0	230.55	293.70	95363.14	42926.09	18.02	12.09	3814.53	2861.74	4742.35	3325.36	96513.06	4674.62
600 X 200 X 6.0	73.50	93.63	40672.54	7350.51	20.84	8.86	1355.76	735.06	1722.32	795.27	20598.47	1324.49
600 X 200 X 8.0	97.18	123.79	53127.31	9523.28	20.72	8.77	1770.92	952.33	2262.23	1040.79	26928.52	1714.30
600 X 200 X 10.0	120.43	153.42	65043.47	11564.30	20.59	8.68	2168.12	1156.43	2785.23	1276.73	32934.16	2077.94
600 X 200 X 12.0	143.29	182.53	76428.61	13477.67	20.46	8.59	2547.63	1347.77	3291.44	1503.21	38582.25	2415.16
600 X 200 X 14.0	165.72	211.11	87290.27	15267.43	20.33	8.50	2909.68	1526.75	3780.99	1720.34	43840.48	2725.67
600 X 200 X 16.0	187.75	239.17	97635.94	16937.61	20.20	8.42	3254.54	1693.77	4254.00	1928.25	48677.53	3009.14
600 X 300 X 8.0	109.74	139.79	67146.73	23159.31	21.92	12.87	2238.23	1543.96	2735.83	1699.75	55282.51	2647.72
600 X 300 X 10.0	136.13	173.42	82450.14	28333.90	21.80	12.78	2748.34	1888.93	3375.23	2093.86	68185.35	3236.10
600 X 300 X 12.0	162.13	206.53	97176.13	33273.05	21.69	12.69	3239.21	2218.21	3997.04	2475.87	80627.77	3794.47
600 X 300 X 14.0	187.70	239.11	111332.56	37981.99	21.58	12.60	3711.09	2532.14	4601.39	2845.90	92563.22	4322.49
600 X 300 X 16.0	212.87	271.17	124927.25	42465.94	21.46	12.51	4164.25	2831.07	5188.40	3204.09	103945.54	4819.77
600 X 300 X 18.0	237.62	302.70	137967.96	46730.05	21.35	12.42	4598.94	3115.34	5758.17	3550.53	114729.07	5285.92
600 X 300 X 20.0	261.95	333.70	150462.43	50779.42	21.23	12.34	5015.42	3385.30	6310.84	3885.36	124868.90	5720.52
600 X 400 X 8.0	122.30	155.79	81166.14	43784.94	22.83	16.76	2705.54	2189.25	3209.43	2438.71	89433.21	3581.75
600 X 400 X 10.0	151.83	193.42	99856.81	53774.74	22.72	16.67	3328.57	2688.74	3965.23	3010.98	110706.68	4395.41
600 X 400 X 12.0	180.97	230.53	117923.65	63395.01	22.62	16.58	3930.79	3169.76	4702.64	3568.53	131433.38	5175.73
600 X 400 X 14.0	209.68	267.11	135374.85	72652.18	22.51	16.49	4512.50	3632.61	5421.79	4111.47	151556.54	5922.35
600 X 400 X 16.0	237.99	303.17	152218.55	81552.65	22.41	16.40	5073.96	4077.64	6122.80	4639.92	171019.37	6634.88
600 X 400 X 18.0	265.88	338.70	168462.84	90102.75	22.30	16.31	5615.43	4505.14	6805.77	5154.01	189765.23	7312.91
600 X 400 X 20.0	293.35	373.70	184115.76	98308.80	22.20	16.22	6137.20	4915.44	7470.84	5653.85	207737.81	7956.01

RECTANGULAR SIZE RANGE



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