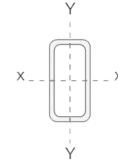


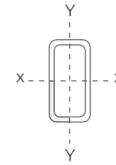
Rectangular Hollow Sections



ASTM A - 500

Nominal Size		t Wall Thickness	Calculated Weight		Sectional Area	Moment of Inertia		Section Modulus		Radius of Gyration		Plastic Modulus	
mm	in	mm	kg/m	kg/6m	cm ²	I _x cm ⁴	I _y cm ⁴	Z _x cm ³	Z _y cm ³	i _x cm	i _y cm	S _x cm ³	S _y cm ³
30 x 60		1.6	2.129	12.774	2.71	12.49	4.25	4.16	2.83	2.15	1.25	5.38	3.30
		1.9	2.498	14.988	3.18	14.43	4.88	4.81	3.25	2.13	1.24	6.31	3.86
		2.3	2.977	17.862	3.79	16.82	5.65	5.61	3.76	2.11	1.22	7.51	4.56
		3.0	3.774	22.644	4.81	20.50	6.80	6.83	4.53	2.06	1.19	9.50	5.72
30 x 80		1.6	2.631	15.786	3.35	25.79	5.54	6.45	3.69	2.77	1.29	8.48	4.21
		1.9	3.095	18.570	3.94	29.94	6.38	7.48	4.25	2.76	1.27	9.97	4.92
		2.3	3.699	22.194	4.71	35.13	7.42	8.78	4.94	2.73	1.25	11.90	5.84
		3.0	4.716	28.296	6.01	43.35	8.99	10.84	6.00	2.69	1.22	15.14	7.34
38 x 19	1 1/2 x 3/4	1.6	1.330	7.980	1.700	3.060	1.010	1.610	1.060	1.340	0.771	2.080	1.260
38 x 25	1 1/2 x 1	1.6	1.490	8.940	1.89	3.70	1.91	1.95	1.53	1.40	1.01	2.42	1.80
40 x 80		1.6	2.882	17.292	3.67	30.71	10.52	7.68	5.26	2.89	1.69	9.74	6.00
		1.9	3.393	20.358	4.32	35.73	12.19	8.93	6.09	2.88	1.68	11.45	7.04
		2.3	4.060	24.360	5.17	42.08	14.27	10.52	7.14	2.85	1.66	13.69	8.38
		3.0	5.187	31.122	6.61	52.25	17.56	13.06	8.78	2.81	1.63	17.45	10.61
		4.0	6.710	40.260	8.55	64.79	21.49	16.20	10.74	2.75	1.59	22.53	13.57
50 x 25	2 x 1	1.6	1.790	10.740	2.28	7.29	2.44	2.91	1.95	1.79	1.03	3.69	2.25
		2.3	2.510	15.060	3.19	9.86	3.23	3.94	2.59	1.76	1.01	5.11	3.09
		3.0	3.190	19.140	4.06	12.10	3.89	4.84	3.11	1.73	0.98	6.43	3.84
65 x 35	2 1/2 x 1 3/8	1.6	2.380	14.280	3.03	16.87	6.47	5.19	3.70	2.36	1.46	6.39	4.17
		1.9	2.797	16.782	3.56	19.54	7.46	6.01	4.26	2.34	1.45	7.46	4.85
		2.3	3.338	20.028	4.25	22.88	8.69	7.04	4.96	2.32	1.43	8.81	5.72
		3.0	4.246	25.476	5.41	28.11	10.57	8.65	6.04	2.28	1.40	10.99	7.11
65 x 38	2 1/2 x 1 1/2	1.6	2.490	14.940	3.17	18.30	7.94	5.63	4.18	2.40	1.58	6.91	4.75
		1.9	2.880	17.280	3.67	21.02	9.12	6.46	4.80	2.35	1.56	8.14	5.58
		2.3	3.520	21.120	4.48	25.20	10.80	7.74	5.69	2.37	1.55	9.68	6.62
		3.0	4.390	26.340	5.29	29.80	12.80	9.18	6.75	2.31	1.51	12.30	8.36
		3.2	4.650	27.900	5.92	31.30	13.40	9.63	7.05	2.30	1.51	13.00	8.84
75 x 25	3 x 1	1.6	2.380	14.280	3.03	20.10	3.51	5.35	2.81	2.55	1.07	7.12	3.21
		1.9	2.800	16.800	3.56	3.30	4.03	6.22	3.22	2.53	1.05	8.37	3.75
		2.3	3.340	20.040	4.25	27.40	4.67	7.31	3.74	2.51	1.04	10.01	4.44
		3.0	4.250	25.500	5.40	33.90	5.66	9.04	4.52	2.47	1.01	12.62	5.52
		4.0	5.450	32.700	6.95	41.94	6.77	11.18	5.42	2.42	0.97	16.23	6.94
75 x 38	3 x 1 1/2	1.6	2.710	16.260	3.45	25.30	8.85	6.76	4.66	2.71	1.60	8.59	5.34
		1.9	3.180	19.080	4.06	29.40	10.20	7.85	5.39	2.69	1.59	10.10	6.26
		2.3	3.810	22.860	4.85	34.60	12.00	9.23	6.30	2.67	1.57	12.10	7.44
		3.0	4.860	29.160	6.19	42.80	14.70	11.40	7.72	2.63	1.54	15.30	9.41
		3.2	5.150	30.900	6.56	45.00	15.40	12.00	8.09	2.62	1.53	16.30	9.95
75 x 50	3 x 2	1.6	3.008	18.048	3.83	30.51	16.39	8.14	6.56	2.82	2.07	9.75	7.40
		1.9	3.540	21.240	4.51	35.50	19.10	9.48	7.62	2.81	2.05	11.80	8.88
		2.3	4.240	25.440	5.40	41.90	22.40	11.20	8.96	2.79	2.04	14.10	10.60
		3.0	5.420	32.520	6.91	52.20	27.80	13.90	11.10	2.75	2.00	17.90	13.50
		4.0	7.020	42.120	8.95	65.00	34.30	17.30	13.70	2.69	1.96	23.20	17.30
		4.5	7.790	46.740	9.92	70.60	37.20	18.80	14.90	2.67	1.94	25.70	19.10
		5.0	8.530	51.180	10.86	75.60	39.70	20.20	15.90	2.64	1.91	28.10	20.90
6.0	9.920	59.520	12.63	84.40	44.10	22.50	17.60	2.58	1.87	32.60	24.10		
100 x 50	4 x 2	1.6	3.636	21.816	4.63	61.30	21.08	12.26	8.43	3.64	2.13	15.04	9.33
		1.9	4.290	25.740	5.46	71.6	24.5	14.3	9.8	3.62	2.12	18.1	11.2
		2.3	5.140	30.840	6.55	84.8	29.0	17.0	11.6	3.60	2.10	21.7	13.3
		3.0	6.600	39.600	8.41	106.0	36.1	21.3	14.4	3.56	2.07	27.8	17.0
		4.0	8.600	51.600	10.95	134.0	44.9	26.8	18.0	3.50	2.03	36.1	21.9
		4.5	9.550	57.300	12.17	147.0	48.9	29.3	19.5	3.47	2.00	40.1	24.3
		5.0	10.500	63.000	13.36	158.0	52.5	31.6	21.0	3.44	1.98	44.0	26.5
6.0	12.300	73.800	15.63	179.0	58.7	35.7	23.5	3.38	1.94	51.4	30.7		
100 x 75	4 x 3	2.3	6.046	36.276	7.70	112.3	72.3	22.5	19.3	3.82	3.06	26.6	21.9
		3.0	7.780	46.680	9.91	142.0	91.1	28.4	24.3	3.78	3.03	35.1	28.7
		4.0	10.200	61.200	12.95	180.0	115.0	36.0	30.8	3.73	2.99	45.7	37.4
		4.5	11.300	67.800	14.42	198.0	127.0	39.6	33.7	3.71	2.96	50.9	41.5
		5.0	12.500	75.000	15.86	215.0	137.0	42.9	36.5	3.68	2.94	55.9	45.6
		6.0	14.600	87.600	18.63	245.0	156.0	49.0	41.6	3.63	2.89	65.5	53.3
120 x 60	-	3.0	8.013	48.078	10.21	189.1	64.4	31.5	21.5	4.30	2.51	39.2	24.2
		4.0	10.479	62.874	13.35	240.8	81.3	40.1	27.1	4.25	2.47	50.5	31.1
		4.5	11.672	70.032	14.87	264.5	88.9	44.1	29.6	4.22	2.44	55.8	34.3
		5.0	12.840	77.040	16.36	287.0	90.0	47.8	32.0	4.19	2.42	61.0	37.4
		6.0	15.099	90.594	19.23	328.0	108.8	54.7	36.3	4.13	2.38	70.6	43.1
120 x 80	-	3.0	8.956	53.736	11.41	230.2	123.4	38.4	30.9	4.49	3.29	46.2	35.0
		4.0	11.735	70.410	14.95	294.6	157.3	49.1	39.3	4.44	3.24	59.8	45.2
		4.5	13.085	78.510	16.67	324.6	173.0	54.1	43.2	4.41	3.22	66.2	50.1
		5.0	14.410	86.460	18.36	353.2	187.8	58.9	46.9	4.39	3.20	72.5	54.7
		6.0	16.983	101.898	21.63	406.1	215.0	67.7	53.8	4.33	3.15	84.3	63.6

Rectangular Hollow Sections

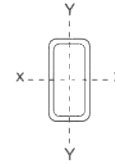


ASTM A - 500

Nominal Size		t Wall Thickness	Calculated Weight		Sectional Area	Moment of Inertia		Section Modulus		Radius of Gyration		Plastic Modulus	
mm	in		kg/m	kg/6m		cm ²	I _x cm ⁴	I _y cm ⁴	Z _x cm ³	Z _y cm ³	i _x cm	i _y cm	S _x cm ³
125 x 50	5 x 2	2.3	6.046	36.276	7.70	148.2	35.5	23.7	14.2	4.39	2.15	29.9	15.7
		3.0	7.780	46.680	9.91	187.0	44.4	29.9	17.7	4.34	2.12	39.5	20.5
		4.0	10.200	61.200	12.95	238.0	55.6	38.0	22.2	4.28	2.07	51.6	26.5
		4.5	11.300	67.800	14.42	261.0	60.6	41.7	24.2	4.25	2.05	67.4	29.4
		5.0	12.500	75.000	15.86	282.0	65.2	45.2	26.1	4.22	2.03	63.1	32.1
		6.0	14.600	87.600	18.63	322.0	73.3	51.5	29.3	4.16	1.98	74.0	37.3
125 x 75	5 x 3	2.3	6.949	41.694	8.85	191.5	87.5	30.6	23.3	4.65	3.14	37.0	26.1
		3.0	8.960	53.760	11.41	243.0	111.0	38.9	29.5	4.61	3.12	48.7	34.1
		4.0	11.700	70.200	14.95	311.0	141.0	49.7	37.5	4.56	3.07	63.7	44.5
		4.5	13.100	78.600	16.67	342.0	155.0	54.8	41.2	4.53	3.04	70.9	49.5
		5.0	14.400	86.400	18.36	373.0	168.0	59.6	44.7	4.50	3.02	78.1	54.3
		6.0	17.000	102.000	21.63	428.0	192.0	68.5	51.1	4.45	2.98	91.9	63.7
9.0	24.100	144.600	31.23	626.0	269.0	98.5	70.6	4.47	2.94	126.3	86.5		
150 x 50	6 x 2	2.3	6.949	41.694	8.85	235.7	42.0	31.4	16.8	5.16	2.18	40.3	18.5
		3.0	8.960	53.760	11.41	299.0	52.6	39.8	21.1	5.12	2.15	53.2	24.1
		4.0	11.700	70.200	14.95	381.0	66.2	50.9	26.5	5.05	2.10	69.5	31.1
		4.5	13.100	78.600	16.67	420.0	72.2	56.0	28.9	5.02	2.08	77.5	34.5
		5.0	14.400	86.400	18.36	456.0	77.9	60.8	31.1	4.99	2.06	85.3	37.8
		6.0	17.000	102.000	21.63	523.0	87.9	69.8	35.2	4.92	2.02	100.0	43.9
150 x 75	6 x 3	2.3	7.852	47.112	10.00	298.4	102.7	39.8	27.4	5.46	3.20	48.8	30.3
		3.0	10.100	60.600	12.91	380.0	130.0	50.6	34.7	5.42	3.17	64.2	39.5
		4.0	13.300	79.800	16.95	488.0	166.0	65.1	44.2	5.37	3.13	84.1	51.6
		4.5	14.900	89.400	18.92	539.0	183.0	71.9	48.7	5.34	3.11	93.8	57.4
		5.0	16.400	98.400	20.86	588.0	198.0	78.4	52.9	5.31	3.08	103.0	63.1
		6.0	19.300	115.800	24.63	679.0	228.0	90.5	60.7	5.25	3.04	122.0	74.0
9.0	27.600	165.600	35.17	905.0	297.0	121.0	79.2	5.07	2.91	172.0	105.0		
150 x 100	6 x 4	3.0	11.311	67.866	14.41	460.7	247.6	61.4	49.5	5.65	4.15	73.5	55.8
		4.0	14.900	89.400	18.95	595.0	319.0	79.3	63.7	5.60	4.10	98.7	74.5
		4.5	16.600	99.600	21.17	658.0	352.0	87.7	70.4	5.58	4.08	110.0	83.1
		5.0	18.300	109.800	23.36	719.0	384.0	95.9	76.8	5.55	4.05	122.0	91.5
		6.0	21.700	130.200	27.63	835.0	444.0	111.1	88.8	5.50	4.01	144.0	108.0
		9.0	31.100	186.600	39.67	1129.0	595.0	150.5	119.0	5.33	3.87	190.0	143.0
160 x 80	-	* 12.0	39.672	238.032	50.54	1350.0	705.1	180.0	141.0	5.17	3.74	233.9	175.4
		* 3.0	10.840	65.040	13.81	463.8	159.0	58.0	39.8	5.80	3.39	71.4	44.3
		* 3.2	11.529	69.174	14.69	491.4	168.3	61.4	42.1	5.78	3.38	75.8	47.0
		* 4.0	14.247	85.482	18.15	597.7	203.6	74.7	50.9	5.74	3.35	92.9	57.4
		* 4.5	15.911	95.466	20.27	661.0	224.3	82.6	56.1	5.71	3.33	103.2	63.7
		* 5.0	17.550	105.300	22.36	721.7	244.1	90.2	61.0	5.68	3.30	113.2	69.7
		* 6.0	20.751	124.505	26.43	836.1	280.9	104.5	70.2	5.62	3.25	132.3	81.3
		* 9.0	29.734	178.404	37.88	1123.7	370.2	140.5	92.6	5.45	3.13	183.1	111.6

* Please check with manufacturer the availability of the highlighted sizes.

Rectangular Hollow Sections



ASTM A - 500

Nominal Size		t Wall Thickness	Calculated Weight		Sectional Area	Moment of Inertia		Section Modulus		Radius of Gyration		Plastic Modulus	
						ix	ly	Zx	Zy	ix	iy	Sx	Sy
mm	in	mm	kg/m	kg/6m	cm ²	cm ⁴	cm ⁴	cm ³	cm ³	cm	cm	cm ³	cm ³
200 x 100	8 x 4	4.0	18.000	108.000	22.95	1200.0	411.0	120.0	82.2	7.23	4.23	152.0	93.7
		4.5	20.200	121.200	25.67	1331.0	455.0	133.0	90.9	7.20	4.21	170.0	105.0
		5.0	22.300	133.800	28.36	1459.0	497.0	146.0	99.4	7.17	4.19	188.0	115.0
		6.0	26.400	158.400	33.63	1703.0	577.0	170.0	115.0	7.12	4.14	222.0	136.0
		9.0	38.200	229.200	48.00	2280.0	764.0	228.0	153.0	6.89	3.99	293.0	180.0
		12.0	49.092	294.552	62.54	2860.4	938.8	286.0	187.8	6.76	3.87	375.3	228.2
200 x 150	8 x 6	4.0	21.155	126.930	26.95	1584.0	1021.1	158.4	136.1	7.67	6.16	187.2	154.1
		4.5	23.683	142.098	30.17	1761.6	1134.6	176.2	151.3	7.64	6.13	208.9	171.8
		5.0	26.185	157.110	33.36	1934.7	1245.1	193.5	166.0	7.62	6.11	230.1	189.2
		6.0	31.113	186.678	39.63	2268.1	1457.2	226.8	194.3	7.56	6.06	271.5	223.1
		9.0	45.277	271.662	57.68	3167.3	2024.9	316.7	270.0	7.41	5.93	386.4	316.9
		12.0	58.512	351.072	74.54	3167.3	2024.9	316.7	270.0	7.41	5.93	386.4	316.9
250 x 150	10 x 6	4.0	24.295	145.770	30.95	2697.0	1234.3	215.8	164.6	9.34	6.32	259.6	183.3
		4.5	27.215	163.290	34.67	3003.9	1372.8	240.3	183.0	9.31	6.29	289.9	204.6
		5.0	30.110	180.660	38.36	3304.3	1508.0	264.3	201.1	9.28	6.27	319.8	225.5
		6.0	35.823	214.938	45.63	3768.4	1768.4	310.9	235.8	9.23	6.23	378.1	266.3
		9.0	52.342	314.052	66.68	4728.8	2472.8	438.3	329.7	9.06	6.09	541.9	380.4
		10.0	57.641	345.846	73.43	5068.0	2683.0	476.8	357.7	9.01	6.04	592.8	415.7
		12.0	67.932	407.592	86.54	5683.3	3068.3	548.3	409.1	8.90	5.95	689.4	482.3
		16.0	87.274	523.644	111.18	7306.5	4065.0	669.2	494.2	8.67	5.77	861.5	600.0
300 x 200	12 x 8	4.5	34.280	205.680	43.67	5662.0	3051.7	377.5	305.2	11.39	8.36	448.7	340.8
		5.0	37.960	227.760	48.36	6241.2	3361.0	416.1	336.1	11.36	8.34	495.7	376.4
		6.0	45.243	271.458	57.63	7370.5	3962.3	491.4	396.2	11.31	8.29	587.8	446.1
		9.0	66.472	398.832	84.68	10529.5	5631.6	702.0	563.2	11.15	8.16	850.8	644.3
		10.0	73.341	440.046	93.43	11507.9	6144.5	767.2	614.5	11.10	8.11	933.9	706.8
		12.0	86.772	520.632	110.54	13355.8	7107.4	890.4	710.7	10.99	8.02	1093.5	826.5
		16.0	112.394	674.364	143.18	16630.1	8792.2	1108.7	879.2	10.78	7.84	1386.6	1045.1
400 x 200	16 x 8	4.5	41.345	248.070	52.67	11315.9	3911.8	565.8	391.2	14.66	8.62	689.6	428.8
		5.0	45.810	274.860	58.36	12490.2	4311.8	624.5	431.2	14.63	8.60	762.5	473.9
		6.0	54.663	327.978	69.63	14789.8	5091.7	739.5	509.2	14.57	8.55	906.0	562.5
		9.0	80.602	483.612	102.68	21304.0	7274.5	1065.2	727.4	14.40	8.42	1319.1	816.2
		10.0	89.041	534.246	113.43	23349.3	7951.2	1167.5	795.1	14.35	8.37	1451.0	896.8
		12.0	105.612	633.672	134.54	27254.6	9231.0	1362.7	923.1	14.23	8.28	1706.2	1052.1
		16.0	137.514	825.084	175.18	34342.2	11507.5	1717.1	1150.7	14.00	8.10	2182.5	1339.5
400 x 300	16 x 12	9.0	94.732	568.392	120.68	28184.9	18153.2	1409.2	1210.2	15.28	12.26	1671.0	1374.6
		10.0	104.741	628.446	133.43	30956.0	19921.2	1547.8	1328.1	15.23	12.22	1841.0	1513.9
		12.0	124.452	746.712	158.54	36290.2	23314.9	1814.5	1554.3	15.13	12.13	2171.8	1784.7
		16.0	162.634	975.804	207.18	46145.5	29548.7	2307.3	1969.9	14.92	11.94	2796.9	2295.4