



**SQUARE TUBES FOR GENERAL, STRUCTURAL AND ENGINEERING PURPOSES
(EXTRACTS FROM ASTM A 500 BS 6363)**

Size Area	Thickness	Unit Weight	Sectional Area	Moment of Inertia	Radius of Gyration	Elastic Modulus	Plastic Modulus	Torsional Constants	
								Moment of Inertia J	Modulus C
D X B	t	M	A	I _{xx} =I _{yy}	r	Z _{xx} =Z _{yy}	S _{xx} =S _{yy}		
mm	mm	kg/m	Cm ²	Cm ⁴	cm	Cm ³	Cm ³	Cm ⁴	Cm ³
25 X 25	2.0	1.43	1.70	1.43	0.92	1.14	1.42	2.52	1.78
	2.5	1.74	2.04	1.61	0.89	1.29	1.65	2.93	2.03
	3.0	2.04	2.33	1.72	0.86	1.38	1.82	3.24	2.21
	3.2	2.15	2.44	1.75	0.85	1.40	1.87	3.34	2.26
32 X 32	2.0	1.91	2.30	3.37	1.21	2.10	2.54	7.42	5.32
	2.65	2.49	2.93	4.07	1.18	2.54	3.15	7.86	5.91
	3.25	3.00	3.47	4.57	1.15	2.86	3.63	8.08	6.59
	4.05	3.67	4.11	5.04	1.11	3.15	4.14	8.92	6.97
40 X 40	2.0	2.28	2.90	6.80	1.53	3.40	4.06	11.30	5.21
	2.6	2.87	3.66	8.22	1.50	4.11	5.01	14.10	6.35
	3.2	3.42	4.36	9.37	1.47	4.68	5.83	16.50	7.31
50 X 50	2.0	2.91	3.70	13.90	1.94	5.57	6.58	22.70	8.49
	2.6	3.69	4.70	17.10	1.91	6.84	8.20	28.60	10.50
	3.2	4.43	5.64	19.80	1.88	7.94	9.66	33.90	12.30
	5.0	6.39	8.14	25.70	1.78	10.30	13.20	46.90	16.30
60 X 60	2.0	3.53	4.50	24.80	2.35	8.28	9.69	39.90	12.60
	2.6	4.50	5.74	30.80	2.32	10.30	12.20	50.60	15.70
	3.2	5.43	6.92	36.10	2.29	12.00	14.50	60.50	18.50
	5.0	7.96	10.10	48.60	2.19	16.20	20.20	86.00	25.30
80 X 80	2.0	4.79	6.10	61.10	3.17	15.30	17.70	96.70	23.10
	2.6	6.14	7.82	76.80	3.13	19.20	22.50	123.00	29.20
	3.2	7.44	9.48	91.30	3.10	22.80	26.90	149.00	34.80
	5.0	11.10	14.10	128.00	3.01	32.00	38.90	218.00	49.40
100 X 100	2.6	7.71	9.90	155.00	3.95	30.90	35.90	245.00	46.80
	3.2	9.45	12.00	185.00	3.92	37.00	43.20	297.00	56.20
	5.0	14.20	18.10	266.00	3.83	53.10	63.50	442.00	81.40
	6.3	17.50	22.20	314.00	3.76	62.80	76.40	536.00	97.00
125 X 125	4.0	15.33	18.95	457.21	4.91	73.51	85.33	753.00	112.00
	4.85	18.46	27.70	538.74	4.87	86.20	101.34	866.00	138.00
	5.4	20.48	25.08	588.73	4.85	94.20	111.32	961.00	146.00
	6.3	23.76	28.89	665.97	4.80	106.56	126.00	1293.00	169.00
150 X 150	4.0	17.90	22.80	800.00	5.92	107.00	124.00	1269.00	162.00
	5.0	22.10	28.10	970.00	5.87	129.00	151.00	1560.00	197.00
	6.3	27.40	34.80	1174.00	5.80	156.00	185.00	1922.00	239.00
180 X 180	4.0	21.70	27.60	1411.00	7.15	157.00	181.00	2218.00	237.00
	5.0	26.80	34.10	1719.00	7.10	191.00	222.00	2735.00	290.00
	6.3	33.30	42.40	2096.00	7.03	233.00	273.00	3383.00	354.00

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