



## RECTANGULAR CARBON STEEL TUBE

Dimensions and Properties



TIS 107-2553



Side Length D x D		Thickness (mm.)	Calculate Weight (kg/m.)	Calculate Weight (kg/6m.)	Informative Reference						
					Cross Sectional Area (cm <sup>2</sup> )	Geometrical Moment of Inertia (cm <sup>4</sup> )		Modulus of Section (cm <sup>3</sup> )		Radius of Gyration (cm.)	
in.	mm.	T	W		A	I <sub>x</sub> , I <sub>y</sub>		Z <sub>x</sub> , Z <sub>y</sub>		i <sub>x</sub> , i <sub>y</sub>	
2 x 1	50 x 25	1.20	1.34	8.04	1.71	5.49	1.87	2.19	1.50	1.79	1.05
		1.40	1.55	9.30	1.97	6.26	2.13	2.50	1.70	1.78	1.04
		1.70	1.85	11.10	2.36	7.34	2.49	2.94	1.99	1.76	1.03
		2.00	2.15	12.90	2.74	8.34	2.83	3.34	2.26	1.75	1.02
3 x 1 1/2	75 x 38	1.70	2.87	17.22	3.65	26.66	9.31	7.11	4.90	2.70	1.60
		2.00	3.34	20.04	4.26	30.66	10.67	8.18	5.62	2.68	1.58
		2.30	3.81	22.86	4.85	34.47	11.97	9.19	6.30	2.67	1.57
		2.50	4.11	24.66	5.24	36.90	12.80	9.84	6.74	2.65	1.56
		2.80	4.56	27.36	5.81	40.39	14.00	10.77	7.37	2.64	1.55
		3.00	4.86	29.16	6.19	42.62	14.77	11.37	7.78	2.62	1.55
3 x 2	75 x 50	3.20	5.15	30.90	6.56	44.78	15.53	11.94	8.17	2.61	1.54
		2.30	4.24	25.44	5.40	41.77	22.36	11.14	8.94	2.78	2.03
		3.20	5.75	34.50	7.33	54.68	29.22	14.58	11.69	2.73	2.00
		4 x 2	100 x 50	1.70	3.85	23.10	4.91	64.67	22.22	12.93	8.89
2.00	4.50			27.00	5.74	74.81	25.63	14.96	10.25	3.61	2.11
2.30	5.14			30.84	6.55	84.60	28.91	16.92	11.56	3.59	2.10
2.50	5.56			33.36	7.09	90.92	31.02	18.18	12.41	3.58	2.09
2.80	6.19			37.14	7.88	100.11	34.08	20.02	13.63	3.56	2.08
3.00	6.60			39.60	8.41	106.04	36.06	21.21	14.42	3.55	2.07
5 x 3	125 x 75	3.20	7.01	42.06	8.93	111.82	37.99	22.36	15.20	3.54	2.06
		2.80	8.39	50.34	10.68	227.97	103.92	36.48	27.71	4.62	3.12
		3.00	8.96	53.76	11.41	242.22	110.31	38.75	29.42	4.61	3.11
		3.20	9.52	57.12	12.13	256.20	116.59	40.99	31.09	4.60	3.10
		4.00	11.70	70.20	14.95	311.00	141.00	49.70	37.50	4.56	3.07
		4.50	13.08	78.48	16.67	340.99	154.57	54.56	41.22	4.52	3.05
6 x 2	150 x 50	1.80	5.48	32.88	6.99	188.10	33.83	25.08	13.53	5.19	2.20
		2.00	6.07	36.42	7.74	207.24	37.16	27.63	14.86	5.18	2.19
		2.50	7.53	45.18	9.59	253.55	45.13	33.81	18.05	5.14	2.17
		2.80	8.39	50.34	10.68	280.30	49.70	37.37	19.88	5.12	2.16
		3.00	8.96	53.76	11.41	297.71	52.65	39.69	21.06	5.11	2.15