

Structural Tubes Conforming to IS:1161:1998							
NB	OD (MM)	Series	Thickness	Nominal Weight		Nominal Weight	
				Black Tubes		Galvanized Tubes	
			MM	KG/M	Mtr/Ton	KG/M	Mtr/Ton
15 mm	21.3	L	2.0	0.95	1052	1.00	1003
		M	2.6	1.21	826	1.26	794
		H	3.2	1.44	694	1.49	671
20 mm	26.9	L	2.3	1.38	725	1.43	699
		M	2.6	1.56	641	1.61	621
		H	3.2	1.87	535	1.92	521
25 mm	33.7	L	2.6	1.98	505	2.03	493
		M	3.2	2.41	415	2.46	407
		H	4.0	2.93	341	2.98	336
32 mm	42.4	L	2.6	2.55	394	2.62	382
		M	3.2	3.10	322	3.18	314
		H	4.0	3.79	264	3.87	258
40 mm	48.3	L	2.9	3.23	310	3.34	299
		M	3.2	3.56	281	3.67	272
		H	4.0	4.37	229	4.48	223
50 mm	60.3	L	2.9	4.08	245	4.20	238
		M	3.6	5.03	199	5.15	194
		H	4.5	6.19	161	6.31	158
65 mm	76.1	L	3.2	5.74	175	5.86	171
		M	3.6	6.42	156	6.57	152
		H	4.5	7.93	126	8.10	123
80 mm	88.9	L	3.2	6.72	149	6.90	145
		M	4.0	8.36	120	8.54	117
		H	4.8	9.90	101	10.08	99
90 mm	101.6	L	3.6	8.70	115	8.97	111
		M	4.0	9.63	144	7.20	139
		H	4.8	11.50	87	11.77	85
100 mm	114.3	L	3.6	9.75	102	9.97	100
		M	4.5	12.20	82	12.42	81
		H	5.4	14.50	69	14.72	68
110 mm	127.0	L	4.5	13.60	74	13.90	72
		M	4.8	14.50	69	14.80	68
		H	5.4	16.10	62	16.40	61
125 mm	139.7	L	4.5	15.00	67	15.25	66
		M	4.8	15.90	63	16.15	62
		H	5.4	17.90	56	18.15	55
135 mm	152.4	L	4.5	16.40	61	16.78	60
		M	4.8	17.50	57	17.88	56
		H	5.4	19.60	51	19.98	50
150 mm	165.1	L	4.5	17.80	56	18.20	55
		M	4.8	18.90	52	19.80	51
		H	5.4	21.30	47	21.70	46

150 mm	168.3	L	4.5	18.20	55	18.66	54
		M	4.8	19.40	52	19.88	50
		H1	5.4	21.70	46	22.24	45
		H2	6.3	25.20	40	25.83	39
175 mm	193.7	L	4.8	22.40	45	22.94	44
		M	5.4	25.10	40	25.64	39
		H	5.9	27.30	37	27.84	36
200 mm	219.1	L	4.8	25.40	39	25.95	39
		M	5.6	29.50	34	30.05	33
		H	5.9	31.00	32	31.55	32
225 mm	244.5	H	5.9	34.70	29	35.36	28
250 mm	273.0	H	5.9	38.90	26	39.68	25
300 mm	323.9	H	6.3	49.30	20	50.28	20
350 mm	355.6	H	8.0	68.60	15	69.28	14

Tolerance			
A. Outside Diameter			
i. Upto and Including 48.30 mm		+ 0.4 mm - 0.8 mm	
ii. Over 48.30 mm		+ - 1%	
B. Thickness			
For All Sizes		+ Not Limited - 10%	
C. Weight			
i. Single Tube Light Series		+ 10% - 8%	
ii. Singe Tube Medium & Heavy Series		+ - 10%	
iii. Load of Min 10 M.Ton Light Series		+ - 5%	
iv. Load of Min 10 M.Ton Med & Heavy		+ - 7.5%	
D. Physical Properties			
Grade	Tensile Strength (Min) Mpa	Yield Stress (Min) Mpa	Elongation (Min) %
YST 210	330	210	20
YST 240	410	240	17
YST 310	450	310	14