

STEEL TUBES FOR STRUCTURAL PURPOSES CONFORMING TO IS : 1161 : 1998

IS: 1161



N.B.	Series	Outside Diameter	Thickness	Nominal Weight		Calculated Nominal Weight	
				Black Tube		Galvanized Tubes	
				Plain End		Plain End	
		MM	MM	Kg/M	Meters/Tonne	Kg/M	Meters/Tonne
15	L	21.30	2.00	0.947	1058	1.00	1003
	M		2.60	1.21	826	1.26	794
	H		3.20	1.44	694	1.49	671
20	L	26.90	2.30	1.38	725	1.43	699
	M		2.60	1.56	641	1.61	221
	H		3.20	1.87	535	1.92	521
25	L	33.70	2.60	1.98	5050	2.03	493
	M		3.20	2.41	415	2.46	407
	H		4.00	2.93	341	2.98	336
32	L	42.40	2.60	1.54	394	2.62	382
	M		3.20	3.10	323	3.18	314
	H		4.00	3.79	6264	3.87	258
40	L	48.30	2.90	3.23	310	3.34	29
	M		3.20	3.56	281	3.67	272
	H		4.00	4.37	229	4.48	223
50	L	60.30	2.90	4.08	245	4.20	238
	M		3.20	5.03	199	5.15	194
	H		4.00	6.19	162	6.31	158
65	L	76.10	3.20	5.71	175	5.86	171
	M		3.60	6.42	156	6.57	152
	H		4.50	7.93	126	8.10	123
80	L	88.90	3.20	6.72	149	6.90	145
	M		4.00	8.36	120	8.54	117
	H		4.80	9.90	101	10.08	99
100	L	114.30	3.60	9.75	103	9.97	100
	M		4.50	12.20	82	12.42	81
	H		5.40	14.50	69	14.72	68
125	L	139.70	4.50	15.00	67	15.25	66
	M		4.80	15.90	63	16.15	62
	H		5.40	17.90	56	18.15	55
150	L	165.10	4.50	17.80	56	18.20	55
	M		4.80	18.90	52	19.80	51
	H		5.40	21.30	47	21.70	46

TENSILE PROPERTIES :

Grade	Y.S.(min)	T.S.(min)	%Elongation
	MPA	MPA	
	(kg/mm ²)	(kg/mm ²)	
YST-210	210(21.42)	330(33.66)	20
YST-240	240(24.48)	410(41.82)	17
YST-310	610(31.62)	450(45.90)	14

WEIGHT
SINGLE TUBE
1.LIGHT CLSS
2.MEDIUM & HEAVY CLASS

TOLERANCES

+10%/-8%
+/-10%

TOLERANCES :

- ON OUTSIDE DIAMETER UP TO & INCLUDING 48.3 MM = +0.4MM/ -0.8MM
- OVER 48.3MM = +/- 1%

THICKNESS:
FOR ALL SIZE
WELDED TUBES

TOLERANCES
+NOT LIMITED
-10+

- 10 TON LOT
- LIGHT CLASS
 - MEDIUM & HEAVY CLASS

+/-5%
+/-7.5%