

STEEL TUBES FOR STRUCTURAL PURPOSES CONFORMING TO IS:1161/1998 EQUIVALENT TO BS 1775/1964

A. PHYSICAL PROPERTIES

Grade	Y-S (min) MPa(kg/mm ²)	T.S. (min) MPa(kg/mm ²)	%age Elongation
YST-210	210(21.42)	330(33.66)	20

Note: For tube sizes upto and including 25 mm NB, elongation of 12% shall be permissible.

B. TOLERANCES

(i)	Outside diameter Upto & including 48.3mm	+0.4mm -0.8mm
	Over 48.3 mm	+1.0%
(ii)	Thickness	+Not limited -10%
(iii)	Weight Single Tube (Light Class)	+10% -8%
	Single Tube (Medium & Heavy)	+10%
	For quantities per load of 10 Tonnes Min. (Light)	+5%
	For quantities per load of 10 Tonnes Min. (Medium & Heavy)	+7.5%

N.B. and Series		Outside Dimeter	Thickness	Nominal Weight Black & Galvanised Plain Eng	
(mm)		(mm)	(mm)	(mm)	(mm)
15	L	21.30	2.00	0.947	1056
	M		2.60	1.21	826
	H		3.20	1.44	694
20	L	26.90	2.30	1.38	725
	M		2.60	1.56	641
	H		3.20	1.87	535
25	L	33.70	2.60	1.98	505
	M		3.20	2.41	415
	H		4.00	2.93	341
32	L	42.40	2.60	2.54	394
	M		3.20	3.10	323
	H		4.00	3.79	264
40	L	48.30	2.90	3.23	310
	M		3.20	3.56	281
	H		4.00	4.37	229
50	L	60.30	2.90	4.08	245
	M		3.60	5.03	199
	H		4.50	6.19	162
65	L	76.10	3.20	5.71	175
	M		3.60	6.42	156
	H		4.50	7.93	126
80	L	88.90	3.20	6.72	149
	M		4.00	8.36	120
	H		4.80	9.90	101
100	L	114.30	3.60	9.75	103
	M		4.50	12.20	82
	H		5.40	14.50	69
125	L	139.70	4.50	15.00	67
	M		4.80	15.90	63
	H		5.40	17.90	56
150	L	165.10	4.50	17.80	56
	M		4.80	18.90	53
	H		5.40	21.30	47