



# STEEL TUBES FOR STRUCTURAL PURPOSE CONFORMING TO IS : 1161 : 1998

N.B and Series	Outside Diameter	Thick-ness	Nominal Weight Black Tubes Plain End		Calculated Nominal Weight Galvanized Tubes Plain End	
			Kg/m	m/tonne	Kg/m	m/tonne
	mm	mm				
15 L	21.3	2.0	0.947	1058	1.00	1003
M		2.6	1.21	826	1.26	794
H		3.2	1.44	694	1.49	671
20 L	26.9	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 L	33.7	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 L	42.4	2.6	2.54	394	2.62	382
M		3.2	3.10	323	3.18	314
H		4.0	3.79	264	3.87	258
40 L	48.3	2.6	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 L	60.3	2.9	4.08	245	4.20	238
M		3.6	5.03	199	5.15	194
H		4.5	6.19	162	6.31	158
65 L	76.1	3.2	5.71	175	5.86	171
M		3.6	6.42	156	6.57	152
H		4.5	7.93	126	8.10	123
80 L	88.9	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 L	101.6	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 L	114.3	3.6	9.75	103	9.97	100
M		4.5	12.20	82	12.42	81
H		5.4	14.50	69	14.72	68
110 L	127.0	4.5	13.60	74	13.90	72
M		4.8	14.50	69	14.80	68
H		5.4	16.20	62	14.80	61
125 L	139.7	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 L	152.4	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	55
150 L	165.1	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 L	168.3	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	41.00	24
175 L	193.7	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 L	219.1	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 H	244.5	5.9	34.70	29	35.36	28
250 H	273.0	5.9	38.90	26	39.68	25
300 H	323.9	6.3	49.30	20	50.28	20
350 H	355.6	8.0	68.60	15	69.58	14

## TENSILE PROPERTIES

GRADE	Y.S. (MIN) Mpa (Kg/mm <sup>2</sup> )	T.S. (MIN) Mpa (Kg/mm <sup>2</sup> )	% age Elongation
YST-210	210 (21.42)	330 (33.66)	20
YST-240	240 (24.48)	410 (41.82)	17

## TOLERANCES

i) On outside diameter up to & Including 48.3 mm

= + 0.4mm / - 0.8mm

ii) Over 48.3mm =  $\pm 1\%$

## THICKNESS

For all Size

Welded Tubes

## WEIGHT

### Single Tube

i) Light Class

ii) Medium & Heavy Class

### 10 Tonne Lot

i) Light Class

ii) Medium & Heavy Class

## TOLERANCES

+ Not limited

-10

## TOLERANCES

+10% / - 8%

$\pm 10\%$

$\pm 5\%$

$\pm 7.5\%$

