AAAH CIVIL ENGINEERING HUB

Steel Tube Dimensions and Nominal Mass

IS 1239 (Part 1):2004 · Tables 3, 4 and 5

Values transcribed from the supplied IS 1239 (Part 1):2004, printed pages 3–4. Thickness and mass apply to both black and galvanized tubes (clause 8.1.1); dimensions and mass are subject to the tolerances in clause 9. Check the applicable edition and amendments for your work.

Table 3 · Light series

Nominal bore mm	Outside diameter (mm)		Thickness mm	Mass of tube (kg/m)	
	Maximum	Minimum		Plain end	Screwed and socketed
6	10.1	9.7	1.8	0.360	0.363
8	13.6	13.2	1.8	0.515	0.519
10	17.1	16.7	1.8	0.670	0.676
15	21.4	21.0	2.0	0.947	0.956
20	26.9	26.4	2.3	1.38	1.39
25	33.8	33.2	2.6	1.98	2.00
32	42.5	41.9	2.6	2.54	2.57
40	48.4	47.8	2.9	3.23	3.27
50	60.2	59.6	2.9	4.08	4.15
65	76.0	75.2	3.2	5.71	5.83
80	88.7	87.9	3.2	6.72	6.89
100	113.9	113.0	3.6	9.75	10.0

Table 4 · Medium series

Nominal bore mm	Outside diameter (mm)		Thickness mm	Mass of tube (kg/m)	
	Maximum	Minimum		Plain end	Screwed and socketed
6	10.6	9.8	2.0	0.404	0.407
8	14.0	13.2	2.3	0.641	0.645
10	17.5	16.7	2.3	0.839	0.845
15	21.8	21.0	2.6	1.21	1.22
20	27.3	26.5	2.6	1.56	1.57
25	34.2	33.3	3.2	2.41	2.43
32	42.9	42.0	3.2	3.10	3.13
40	48.8	47.9	3.2	3.56	3.60
50	60.8	59.7	3.6	5.03	5.10
65	76.6	75.3	3.6	6.42	6.54
80	89.5	88.0	4.0	8.36	8.53
100	115.0	113.1	4.5	12.2	12.5
125	140.8	138.5	4.8	15.9	16.4
150	166.5	163.9	4.8	18.9	19.5

Table 5 · Heavy series

Nominal bore mm	Outside diameter (mm)		Thickness mm	Mass of tube (kg/m)	
	Maximum	Minimum		Plain end	Screwed and socketed
6	10.5	9.8	2.6	0.487	0.490
8	14.0	13.2	2.9	0.765	0.769
10	17.5	16.7	2.9	1.02	1.03
15	21.8	21.0	3.2	1.44	1.45
20	27.3	26.5	3.2	1.87	1.88
25	34.2	33.3	4.0	2.93	2.95
32	42.9	42.0	4.0	3.79	3.82
40	48.8	47.9	4.0	4.37	4.41
50	60.8	59.7	4.5	6.19	6.26
65	76.6	75.3	4.5	7.93	8.05
80	89.5	88.0	4.8	9.90	10.1
100	115.0	113.1	5.4	14.5	14.8
125	140.8	138.5	5.4	17.9	18.4
150	166.5	163.9	5.4	21.3	21.9