

GALVANISED & BLACK Pipes for Water, Gas & Air

TECHNICAL DATA OF BLACK & GALVANISED PIPES
SPECIFICATION IS:1239(PART-1):2004 - DIN 2439, DIN 2440, DIN 2441
(EQUIVALENT BS:1387:1985/EN-10255:2004*/EN 10240 : 1998/ DIN 2444)

NB (mm)	SERIES	OUTSIDE DIAMETER		WALL THICKNESS		NOMINAL WEIGHT GALVANISED & BLACK TUBES				SOCKETS		Tolerances
						PLAIN END		SCREWED & SOCKETED		OD in mm	Length in mm	
		MIN. (mm)	MAX. (mm)	MM	SWG	Kg/M	Mtrs/Ton	Kg/M	Mtrs/Ton			
15	Light	21.0	21.4	2.0	14	0.95	1052	0.96	1046	27	37	a) Thickness Light Tubes : + Not limited - 8 % Medium & Heavy Tubes : + Not limited - 10 % b) Weight Light Series Single Tube : + 10% / - 8 % For Quantities per Load of 10 Tonnes Minimum : +7.5%, -5% Medium & Heavy Series Single Tube : ± 10% For Quantities per Load of 10 Tonnes Minimum : ±7.5% c) Length Normal : 6 mtr + 0.03 mtr Random Length 4 to 7 Mtrs Or as specified by Customer d) Hydro Test Each pipe is tested for leak proof test at 51 kgs/cm ² e) End condition A) PLAIN END B) BEVEL END C) SCREWED & SOCKETED D) SCREWED WITHOUT SOCKET OR AS PER CUSTOMER SPECIFICATION
	Medium	21.0	21.8	2.6	12	1.21	826	1.22	820			
	Heavy	21.0	21.8	3.2	10	1.44	694	1.45	690			
20	Light	26.4	26.9	2.3	13	1.38	725	1.39	719	32.5	39	
	Medium	26.5	27.3	2.6	12	1.56	641	1.57	637			
	Heavy	26.5	27.3	3.2	10	1.87	535	1.88	532			
25	Light	33.2	33.8	2.6	12	1.98	505	2.00	500	39.5	46	
	Medium	33.3	34.2	3.2	10	2.41	415	2.43	412			
	Heavy	33.3	34.2	4.0	8	2.93	341	2.95	339			
32	Light	41.9	42.5	2.6	12	2.54	394	2.57	389	49	51	
	Medium	42.0	42.9	3.2	10	3.10	322	3.13	319			
	Heavy	42.0	42.9	4.0	8	3.79	264	3.82	262			
40	Light	47.8	48.4	2.9	11	3.23	310	3.27	306	56	51	
	Medium	47.8	48.8	3.2	10	3.56	281	3.60	278			
	Heavy	47.9	48.8	4.0	8	4.37	229	4.41	227			
50	Light	59.6	60.2	2.9	11	4.08	245	4.15	241	68	60	
	Medium	59.7	60.8	3.6	9	5.03	199	5.10	196			
	Heavy	59.7	60.8	4.5	7	6.19	161	6.26	160			
65	Light	75.2	76.0	3.2	10	5.74	175	5.83	172	84	69	
	Medium	75.3	76.6	3.6	9	6.42	156	6.54	153			
	Heavy	75.3	76.6	4.5	7	7.93	126	8.05	124			
80	Light	87.9	88.7	3.2	10	6.72	149	6.89	145	98	75	
	Medium	88.0	89.5	4.0	8	8.36	120	8.53	117			
	Heavy	88.0	89.5	4.8	6	9.90	101	10.10	96			
100	Light	113.0	113.9	3.6	9	9.75	102	10.00	100	124	87	
	Medium	113.1	115.0	4.5	7	12.20	82	12.50	80			
	Heavy	113.1	115.0	5.4	5	14.50	69	14.80	68			
125	Medium	138.5	140.8	4.8	6	15.90	63	16.40	61	151	96	
	Heavy	138.5	140.8	5.4	5	17.90	56	18.40	54			
150	Medium	163.9	166.5	4.8	6	18.90	53	19.50	51	178	96	
	Heavy	163.9	166.5	5.4	5	21.30	47	21.90	46			

*This specification conforms to CE Mark conferred by Det Norske Veritas

STEEL TUBES FOR MECHANICAL & GENERAL ENGINEERING PURPOSES
SPECIFICATION IS:3601:2006

NB (mm)	OUTSIDE DIAMETER	WALL THICKNESS	NOMINAL WEIGHT OF BLACK TUBES	
			PLAIN END	
	MIN. (mm)	mm	Kg/Mtr	Mtrs/Ton
15	21.3	1.8	0.866	1155
		2.0	0.952	1050
		2.6	1.21	826
		3.2	1.43	699
		4.0	1.71	585
20	26.9	1.8	1.11	901
		2.0	1.23	813
		2.3	1.38	725
		2.6	1.56	641
		3.2	1.87	535
		4.0	2.26	442
25	33.7	2.0	1.56	641
		2.3	1.78	562
		2.6	1.99	503
		3.2	2.41	415
32	42.4	4.0	2.93	341
		2.3	2.27	441
		2.6	2.54	394
		3.2	3.10	323
		3.6	3.44	291
40	48.3	4.0	3.79	264
		2.3	2.27	441
		2.6	2.55	392
		2.9	3.23	310
		3.2	3.56	281
50	60.3	4.0	4.37	229
		2.3	3.29	304
		2.6	3.70	270
		2.9	4.08	245
		3.6	5.03	199
		4.0	5.55	180
65	76.1	4.5	6.19	162
		2.6	5.24	191
		2.9	5.75	174
		3.2	5.71	175
		3.6	6.42	156
80	88.9	4.5	7.93	126
		2.9	6.15	163
		3.2	6.72	149
		4.0	8.38	119
		5.0	10.30	97

NB (mm)	OUTSIDE DIAMETER	WALL THICKNESS	NOMINAL WEIGHT OF BLACK TUBES	
			PLAIN END	
	MIN. (mm)	mm	Kg/Mtr	Mtrs/Ton
100	114.3	3.2	8.77	114
		3.6	9.75	103
		4.5	12.20	82
		5.4	14.50	69
		6.3	16.80	60
110	127.0	4.5	13.60	74
		5.0	15.00	67
		5.4	16.20	62
125	139.7	3.6	12.10	83
		4.0	13.40	75
		4.5	15.00	67
		5.0	15.90	63
150	165.1	5.4	17.90	56
		6.3	20.70	48
		4.5	17.80	56
		5.0	19.70	51
150	168.3	5.4	21.20	47
		6.3	24.80	40
		4.0	16.20	62
		4.5	18.20	55
175	193.7	5.0	19.40	52
		5.4	21.70	46
		6.3	25.20	40
		7.1	28.20	35
		5.0	23.30	43
200	219.1	5.4	25.10	40
		5.9	27.30	37
		6.3	29.10	34
		4.5	23.80	42
250	273.0	5.0	26.40	38
		5.6	29.50	34
		6.3	33.10	30
		8.0	41.60	24
300	323.9	5.0	33.00	30
		6.3	41.40	24
		7.1	46.60	21
		10.0	64.90	15
		5.6	44.00	23
		7.1	55.50	18
		8.0	62.30	16
		10.0	77.40	13

MECHANICAL PROPERTIES

Tube Designation	T. S. (Min.) Mpa	Y.S. (Min) MPA	Elongation % age	
			<1"	>1"
WT 160	310	160	15	22
WT 210	330	210	12	20
WT 240	410	240	10	15
WT 310	450	310	6	10

NOTE:

These are preferred OD & Thickness. Other Sizes not included may be supplied as per Customer Specification