

APPLICATIONS

- Oil & Gas Transportation
- General Engineering
- Agriculture & Irrigation
- Concealed Piping
- Cold Storage
- Fire Fighting System
- Construction Scaffolding
- Water Lines
- Structural Purposes
- CNG Gas Pipe Lines



GALVANISED & BLACK PIPES FOR WATER, GAS & AIR



TECHNICAL DATA OF BLACK & GALVANISED PIPES

SPECIFICATION IS:1239(PART-1):2004 - DIN 2440, DIN 2441

(EQUIVALENT BS:1387:1990/EN-10255:2004*/DIN EN 10240 : 1998)

NB (mm)	SERIES	OUTSIDE DIAMETER		WALL THICKNESS		NOMINAL WEIGHT GALVANISED & BLACK TUBES				SOCKETS	
		MIN. (mm)	MAX. (mm)	MM	SWG	PLAIN END		SCREWED & SOCKETED		OD in mm	Length in mm
						Kg/M	Mtrs/Ton	Kg/M	Mtrs/Ton		
8	Light	13.2	13.6	1.8	15	0.515	1948	0.519	1927	18.5	27
	Medium	13.2	14.0	2.3	13	0.641	1560	0.645	1550		
	Heavy	13.2	14.0	2.9	11	0.765	1307	0.769	1300		
10	Light	16.7	17.1	1.8	15	0.670	1493	0.676	1479	22	28
	Medium	16.7	17.5	2.3	13	0.839	1192	0.845	1183		
	Heavy	16.7	17.5	2.9	11	1.02	980	1.03	971		
15	Light	21.0	21.4	2.0	14	0.95	1052	0.96	1046	27	37
	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		

Tolerances

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/cm²

e) End condition

A) PLAIN END

B) BEVEL END

C) SCREWED & SOCKETED

D) SCREWED END TUBE

E) AS PER CUSTOMER SPECIFICATION

*This specification conforms to CE Mark conferred by Det Norske Veritas 13315-2018-CE-IND-DNV

JINDAL-HISSAR MANUFACTURES PIPE SIZE 8mm NB to 150mm NB,

BOTH BLACK & GI. BIS LICENCE NO. CM/L - 0458956



ERW STEEL TUBES FOR WATER & SEWAGE PURPOSE

CONFORMING TO IS: 3589 : 2001

Grade Fe 330 and Fe 410/ EN 10224

NB (mm)	OUTSIDE DIAMETER (mm)	WALL THICKNESS (mm)	WEIGHT (PLAIN END)	MTR/TON
150	168.3	2.6	10.6	94
		3.2	13.0	77
		4.0	16.2	62
		4.5	18.2	55
175	193.7	2.6	12.3	81
		3.6	16.9	59
		4.5	21.0	48
		6.3	29.1	34
200	219.1	2.6	13.9	72
		3.6	19.1	52
		4.5	23.8	42
		6.3	33.1	30
250	273.0	3.6	23.9	42
		4.0	26.5	38
		5.0	33.0	30
		6.3	41.1	24
300	323.9	4.0	31.8	31
		4.5	35.4	28
		5.6	44.0	23
		7.1	55.5	18

TOLERANCES	
OUTSIDE DIAMETER OF PIPE	± 0.75%
OVALITY	1% Max.
THICKNESS	± 10%
LENGTH	
Unless other specified, length are in Single Random Length of 4 to 7 Mtr.	
WEIGHT : Mass per Truck Load of 10 Tons or above	± 7.5%

PHYSICAL PROPERTIES			
GRADE	Y.S. (MIN)	T.S. (MIN)	%Elongation (MIN)
Fe 330	195	330	20
Fe 410	235	410	18
Fe 450	275	450	15

Note:

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

JINDAL-HISSAR MANUFACTURES PIPE SIZE 150mm NB to 400mm NB, BOTH BLACK & GI.
BIS LICENCE NO. CM/L - 9402267





ERW STEEL TUBES FOR WATER & SEWAGE PURPOSE

CONFORMING TO IS: 3589 : 2001

Grade Fe 330 and Fe 410/ EN 10224

NB (mm)	OUTSIDE DIAMETER (mm)	WALL THICKNESS (mm)	WEIGHT (PLAIN END)	MTR/TON
350	355.6	4.0	34.7	28.82
		5.0	43.2	23.15
		5.6	48.3	20.70
		8.0	68.6	14.58
400	406.4	4.0	39.7	25.19
		5.0	49.5	20.20
		6.3	62.2	16.08
		8.8	86.3	11.59

TOLERANCES	
OUTSIDE DIAMETER OF PIPE	± 0.75%
OVALITY	As Agreed
THICKNESS	± 10%
LENGTH	
Unless other specified, length are in Single Random Length of 4 to 7 Mtr.	Otherwise as agreed
WEIGHT : Mass per Truck Load of 10 Tons or above	± 7.5%

PHYSICAL PROPERTIES			
GRADE	YIELD STRENGTH (MIN) MPa	TENSILE STRENGTH (MIN) MPa	% ELONGATION (MIN)
Fe 330	195	330	20
Fe 410	235	410	18
Fe 450	275	450	15

ERW STEEL TUBES FOR WATER WELLS

CONFORMING TO IS: 4270 : 2001

PLAIN END CASING PIPES Grade Fe 410 and Fe 450

NB (mm)	OUTSIDE DIAMETER (mm)	WALL THICKNESS (mm)	WEIGHT (PLAIN END)	MTR/TON
350	355.6	8.0	68.6	14.58
		10.0	85.22	11.73
		12.0	101.67	9.83
		14.0	117.93	8.48
400	406.4	8.0	78.6	12.72
		10.0	97.75	10.23
		12.0	116.71	8.56

TOLERANCES	
OUTSIDE DIAMETER OF PIPE	± 1.0%
OVALITY	As Agreed
THICKNESS – Upto OD 406.4	+15% -12.5%
LENGTH	
Unless other specified, length are in Single Random Length of 4 to 7M tr.	Otherwise as agreed
WEIGHT- Mass of Single Tube	+10%, -8%

PHYSICAL PROPERTIES			
GRADE	Yield Strength (min) MPa	Tensile Strength (min) MPa	% Elongation (min)
Fe 410	235	410	15
Fe 450	275	450	15

SPECIAL DIAMETER PIPES

OD (mm)	12.70	13.50	17.20	19.05	25.40	31.75	38.0	50.80	63.50	127.0
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ASTM - A53 Grade A & B

Dimensions, weights (masses) per unit Length, and Test pressures for plain end pipe

DN Designator	Specified wall, thickness in (mm)	Nominal, weight (mass) per Unit length, Plain end, lb/(kg/m ²)	Weight Class	Schedule No.	Test Pressure PSI (kpa.)	
					Grade A	Grade B
350	5.33	46.04	...	...	540 (3700)	630 (4300)
	5.56	47.99	...	...	560 (3900)	660 (4500)
	6.35	54.69	...	10	640 (4400)	750 (5200)
	7.14	61.35	...	...	720 (5000)	840 (5800)
	7.92	67.90	...	20	800 (5500)	940 (6500)
	8.74	74.76	...	...	880 (6100)	1030 (7100)
	9.52	81.25	STD	30	960 (6600)	1120 (7700)
	11.13	94.55	...	40	1130 (7800)	1310 (9000)
	11.91	100.94	...	...	1210 (8300)	1410 (9700)
	12.70	107.39	XS	...	1290 (8900)	1500 (10 300)
400	5.56	54.96	...	...	490 (3400)	570 (3900)
	6.35	62.64	...	10	560 (3900)	660 (4500)
	7.14	70.30	...	...	630 (4300)	740 (5100)
	7.92	77.83	...	20	700 (4800)	820 (5700)
	8.74	85.71	...	...	770 (5300)	900 (6200)
	9.52	93.17	STD	30	840 (5800)	980 (6800)
	11.13	108.49	...	...	990 (6800)	1150 (7900)
	11.91	115.86	...	...	1060 (7300)	1230 (8500)
	12.70	123.30	XS	40	1120 (7700)	1310 (9000)

Tolerance - Pipe Size : DN : +/-1% Thickness : -12.5% (max) Weight : +/-10%



ERW STEEL TUBES FOR WATER WELLS CONFORMING



TO IS: 4270 : 2001

PLAIN END CASING PIPES

NB (mm)	OUTSIDE DIAMETER (mm)	WALL THICKNESS (mm)	WEIGHT (PLAIN END)	MTR/TON
100	114.3	5	13.48	74
		5.4	14.5	69
125	141.3	5	16.8	60
		5.4	18.1	55
		7.1	23.5	43
150	168.3	5	20.13	50
		5.4	21.6	46
		7.1	28.2	35
175	193.7	5.4	25.1	40
		6.4	29.6	34
		8	36.6	27
200	219.1	5.4	28.46	35
		6.7	33.6	30
		8	41.6	24
250	273.1	7.1	46.57	21
		8	52.3	19
		10	64.9	15
300	323.9	7.1	55.47	18
		8	62.3	16
		10	77.4	13

TOLERANCES	
OUTSIDE DIAMETER OF PIPE	± 1%
THICKNESS	
Upto 406.4mm OD	+15, -12.5%
LENGTH	
Unless other specified, length are in Single Random Length of 4 to 7 Mtr.	
WEIGHT : Single Tube	+10%, -8%

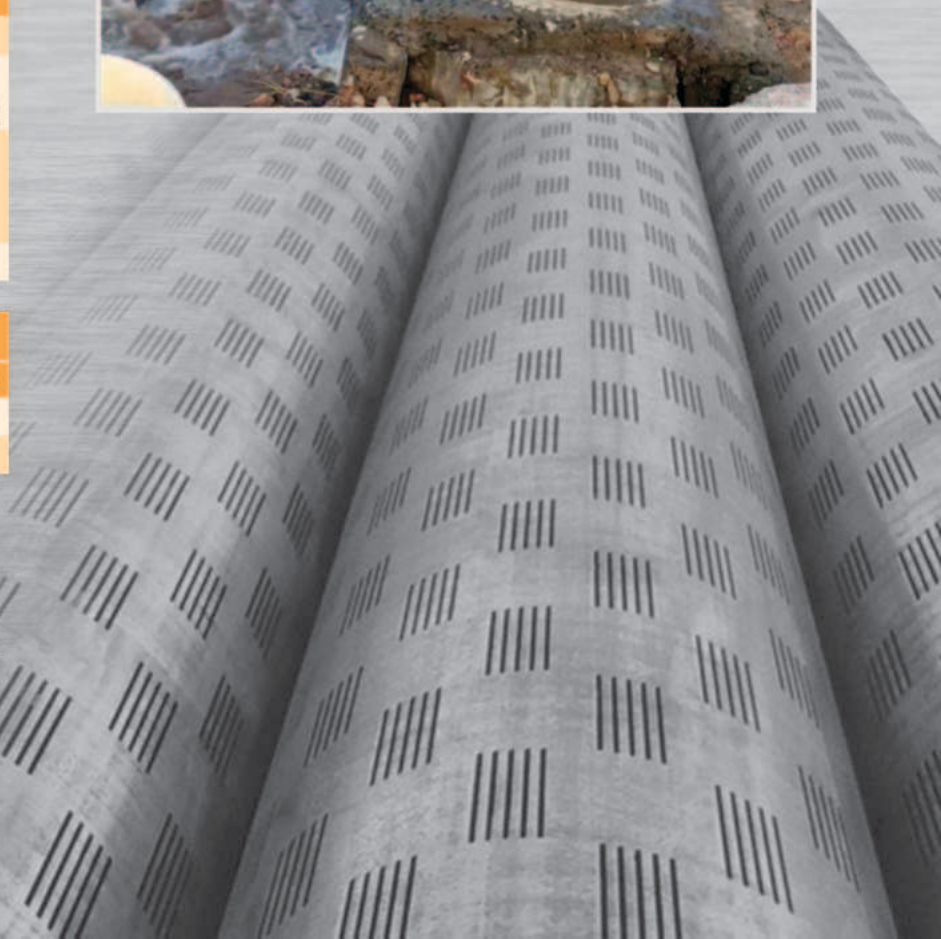
PHYSICAL PROPERTIES			
GRADE	Y.S. (min)	T.S. (min)	%Elongation (MIN)
Fe 410	235	410	15
Fe 450	275	450	13

Note:

Higher Thickness other than the Specified may also be manufactured as per Customer requirement.

JINDAL-HISSAR MANUFACTURES PIPE SIZE 100mm NB to 300mm NB, BOTH BLACK & GI, BIS LICENCE NO. CM/L - 9517082

Slotting of pipes can be done as per customer requirement



STEEL TUBES FOR STRUCTURAL PURPOSES

TECHNICAL DATA OF BLACK & GALVANISED PIPES
SPECIFICATION IS:1161: 2014

NB (mm)	OUTSIDE DIAMETER (mm)	WALL THICKNESS (mm)	NOMINAL WEIGHT GALVANISED & BLACK TUBES	
			PLAIN END	
			Kg/M	Mtr/Ton
15	21.3	2.0	0.95	1053
		2.6	1.20	833
		3.2	1.43	699
20	26.9	2.3	1.40	714
		2.6	1.56	641
		3.2	1.87	535
25	33.7	2.6	1.99	503
		3.2	2.41	415
		4.0	2.93	341
32	42.4	2.6	2.55	392
		3.2	3.09	324
		4.0	3.79	264
40	48.3	2.9	3.25	308
		3.2	3.56	281
		4.0	4.37	229
50	60.3	2.9	4.11	243
		3.6	5.03	199
		4.5	6.19	162
65	76.1	2.9	5.24	191
		3.6	6.44	155
		4.5	7.95	126
80	88.9	3.2	6.76	148
		4.0	8.38	119
		4.8	9.96	100
90	101.6	3.6	8.70	115
		4.0	9.63	104
		4.8	11.46	87
100	114.3	3.6	9.83	102
		4.5	12.19	82
		5.4	14.50	69
125	139.7	4.5	15.0	67
		4.8	15.97	63
		5.4	17.89	56
150	165.1	4.5	17.82	56
		4.8	18.98	53
		5.4	21.27	47
		5.9	23.20	43
		6.3	24.67	41

NB (mm)	OUTSIDE DIAMETER (mm)	WALL THICKNESS (mm)	NOMINAL WEIGHT GALVANISED & BLACK TUBES	
			PLAIN END	
			Kg/M	Mtr/Ton
150	168.3	4.5	18.18	55
		4.8	19.35	52
		5.4	21.69	46
		6.3	25.17	40
175	193.7	4.8	22.36	45
		5.4	25.08	40
		5.9	27.33	37
		6.3	29.12	34
200	219.1	8.0	36.64	27
		4.8	25.37	39
		5.6	29.49	34
		5.9	31.02	32
		6.3	33.06	30
250	273	8.0	41.65	24
		10.0	51.57	19
		5.9	38.86	26
		6.3	41.44	24
		8.0	52.28	19
300	323.9	10.0	64.86	15
		6.3	49.34	20
		8.0	62.32	16
350	355.6	10.0	77.41	13
		8.0	87.36	11
		10.0	108.57	9

GRADE	Y.S. (min) MPa	T.S. (min) MPa	%Elongation
YST – 210	210	330	20
YST – 240	240	410	17
YST – 310	310	450	14
YST – 355	355	490	10

Outside Diameter	Upto & Including 48.3mm = +0.4mm, -0.8 mm Over 48.3 mm = ±1%
Thickness	± 10% (For All Sizes)
Weight	Single Tubes: ± 10 % 10 Ton lots : ± 7.5 %

STEEL TUBES FOR MECHANICAL AND GENERAL ENGINEERING PURPOSES



TECHNICAL DATA OF BLACK & GALVANISED PIPES SPECIFICATION IS:3601: 2006

OUTSIDE DIAMETER (mm)	WALL THICKNESS (mm)	NOMINAL WEIGHT GALVANISED & BLACK TUBES	
		PLAIN END	
		Kg/M	Mtr/Ton
21.3	1.8	0.866	1155
	2.0	0.952	1053
	2.6	1.20	833
	3.2	1.43	699
	4.0	1.71	585
26.9	1.8	1.11	901
	2.0	1.23	813
	2.3	1.40	714
	2.6	1.56	641
	3.2	1.87	535
33.7	4.0	2.26	442
	2.0	1.56	641
	2.3	1.78	562
	2.6	1.99	503
	3.2	2.41	415
42.4	4.0	2.93	341
	4.5	3.24	309
	2.3	2.27	441
	2.6	2.55	392
	3.2	3.09	324
48.3	3.6	3.44	291
	4.0	3.79	264
	2.3	2.61	383
	2.6	2.93	341
	2.9	3.25	308
60.3	3.2	3.56	281
	3.6	3.97	252
	4.0	4.37	229
	2.3	3.29	304
	2.6	3.70	270
76.1	2.9	4.11	243
	3.2	4.51	222
	3.6	5.03	199
	4.0	5.55	180
	4.5	6.19	162
88.9	2.6	5.24	191
	2.9	5.75	174
	3.2	6.44	155
	3.6	7.11	141
	4.5	7.95	126
101.6	5.0	8.77	114
	2.9	6.15	163
	3.2	6.76	148
	4.0	8.38	119
	5.0	10.3	97
114.3	3.6	8.70	115
	4.0	9.63	104
	5.0	11.90	84
114.3	3.2	8.77	114
	3.6	9.83	102
	4.5	12.2	82
	5.4	14.5	69
114.3	6.3	16.8	60

OUTSIDE DIAMETER (mm)	WALL THICKNESS (mm)	NOMINAL WEIGHT GALVANISED & BLACK TUBES	
		PLAIN END	
		Kg/M	Mtr/Ton
127	4.5	13.6	74
	5.0	15.0	67
	5.4	16.2	62
139.7	3.6	12.1	83
	4.0	13.4	75
	4.5	15.0	67
	5.0	16.6	60
165.1	5.4	17.9	56
	6.3	20.7	48
	4.5	17.8	56
	5.0	19.7	51
168.3	5.4	21.2	47
	6.3	24.8	40
	4.0	16.2	62
	4.5	18.2	55
193.7	5.0	20.1	50
	5.4	21.7	46
	6.3	25.2	40
	7.1	28.2	35
219.1	4.8	22.36	45
	5.4	25.08	40
	5.9	27.33	37
	6.3	29.12	34
273	8.0	36.64	27
	4.5	23.82	42
	5.0	26.04	38
	5.6	29.48	34
323.9	6.3	33.06	30
	8.0	41.65	24
	10.0	51.57	19
	5.0	33.00	30
355.6	6.3	41.04	24
	7.1	46.60	21
	10.0	64.90	15
	5.6	44.00	23
406.4	7.1	55.50	18
	8.0	62.30	16
	10.0	77.40	13
	5.6	48.3	21
406.4	8.0	68.6	15
	10.0	85.2	12
	6.3	62.2	16
	8.8	86.3	12
406.4	10.0	97.8	10

GRADE	Y.S. (min)	T.S. (min)	%Elongation (min)	
			<33.7mm OD	>33.7mm OD
WT 160	160	310	15	22
WT 210	210	330	12	20
WT 240	240	410	10	15
WT 310	310	450	06	10

ERW (INCLUDING HFIW) STEEL TUBES FOR IDLERS FOR BELT CONVEYORS

TECHNICAL DATA OF PIPES SPECIFICATION AS PER IS:9295 – 1983 DIMENSIONS & NOMINAL MASSES

OUTSIDE DIAMETER (mm)	THICKNESS (mm)	Mass Kg/m
63.5	3.65	5.39
	4.50	6.55
76.1	3.65	6.52
	4.50	7.95
88.9	4.05	8.47
	4.85	10.05
	6.30	12.83
101.6	4.05	9.74
	4.85	11.57
	6.30	14.81
108.0	4.05	10.38
	4.85	12.34
	6.30	15.80
114.3	4.50	12.19
	5.40	14.50
	6.30	16.78
139.7	4.50	15.00
	4.85	16.13
	5.40	17.89
	6.30	20.73
165.1	4.50	17.80
	4.85	19.17
	5.40	21.27
	6.30	24.67

OUTSIDE DIAMETER (mm)	THICKNESS (mm)	Mass Kg/m
168.3	4.50	18.20
	4.85	19.55
	5.40	21.69
	6.30	25.17
193.7	5.40	25.10
	6.30	29.12
	7.10	32.67
219.1	5.40	28.50
	6.30	33.06
	7.10	37.12

TOLERANCES	
DIMENSION	
Outside Diameter	± 0.8%
Ovality Below 168.3mm OD	0.5mm
Ovality Above 168.3mm OD	1.0mm
Thickness	± 10%
MASS	
Weight Kg/Mtrs – Single Tube	± 10%
For Truck Load of 10 Tons	± 7.5%

GRADE	Y.S. (min) MPa	T.S. (min) MPa	%Elongation
YST – 210	210	330	20
YST – 240	240	410	18
YST – 310	310	450	15

JINDAL-HISSAR Manufactures Pipe Size from 63.5mm to 219.1mm OD, Both Black & GI Licence No. CM/L 9200109912

