Eastman Tubes

EASTMAN TUBES PRIVATE LIMITED

About us

Eastman Tubes

Established in 2023, Eastman Tubes Pvt Limited is the well-known steel company with an existing steel production capacity of 60000 MTPA comprising Precision Pipe plant. The company is 'wholly owned Subsidiary of "Eastman International Pvt Limited" a Trading House with impeccable profit record and YOY growth since last five years in succession. With the same vision and dreams the foray into manufacturing was a well thought out PLAN and hence the takeover. It is controlled professionally by first generation businessman Mr Rakesh singal.

Our Products

ERW PIPES

A Hollow Section

Round Hollow Section (RHS)

Square Hollow Section (SHS)

Circular Hollow Section (CHS)

B Precision Tubes

Eastman Tubes

Group of Campany

A mind boggling compounded annual growth of 45% in the last four years, winners of the coveted "Niryat Shree" certificate of excellence, bestowed with Trading House stars by the govt of India, yet we feel the journey has begun.

We are adept of handling an array of products from two wheelers and their components to four-wheeler components, tyres and tubes, fastness, hand tools, agricultural implements, customized forgings, general and builder's hardware, electrical products and electrical hardware's, household products, chemicals to just anything being sourced from China, Thailand, Singapore, Malaysia, Turkey, and various other countries across the globe. Backed by a hardcore sourcing team and led by a marketing work force that ensures you do not have to look elsewhere.

At Eastman International we believe laurels already won are for the history books-It's the future we want to write.

Usage & Applications

Specification	Usage & Applications
IS: 1239	Water Pipe Lines, Plumbing, Water Mains, Sewerage Systems, Fire Fighting System, Ash Handing System etc.
IS: 3601	Steel Tubes for Mechanical and General Engineering Purpose
IS: 4923	Steel Hollow Sections for Structural Use (RHS/SHS/CHS)
IS: 1161	Scaffolding & Structural Purpose, Electrical Poles & Telecome Towers
IS: 3074 (2005)	Steel Tubes for Automotive Purposes [MTD 19: Steel Tubes, Pipes abd Fittings.
IS: 2039-1 to 3 (1991)	Steel Tubes for Bicycle and Cycle Rickshaws [MTD 19: Steel Tubes, Pipes abd Fittings.

ERW Steel Tubes For ordinary uses in Water, Gas and Air Lines Conforming to IS 1239 (Part-1) : 2004

Eastman Tubes

N.B. AND SERIES		OUTSIDE DIAMETER		WALL THICKNESS		NOMINAL WEIGHT BLACK TUBES				NOMINAL WEIGHT GALVANIZED TUBES				SOCKETS	
						PLAIN END		SCREWED & SOCKETED		PLAIN END		SCREWED & SOCKETED		MIN. O.D.	MIN. LENGTH
MM		Minimum mm	Maximum mm	MM	SWS	KG/M	M/ TONNE	KG/M	M/ TONNE	KG/M	M/ TONNE	KG/M	M/ TONNE	MM	MM
15	L	21.00	21.40	2.00	14	0.95	1056.0	0.96	1043	0.99	1010	1.002	998	27.0	37.0
	M	21.00	21.80	2.60	12	1.21	830.0	1.22	822	1.25	801	1.260	794		
	H	21.00	21.80	3.20	10	1.44	696.0	1.45	691	1.48	677	1.489	671		
20	L	26.40	26.90	2.30	13	1.38	726.0	1.39	718	1.43	698	1.448	690	32.5	39.0
	M	26.50	27.30	2.60	12	1.56	642.0	1.57	636	1.61	620	1.628	614		
	H	26.50	27.30	3.20	10	1.87	535.0	1.88	530	1.92	520	1.939	516		
25	L	33.20	33.80	2.60	12	1.98	505.0	2.00	498	2.05	488	2.077	482	39.5	46.0
	M	33.30	34.20	3.20	10	2.41	415.0	2.43	411	2.48	404	2.501	400		
	H	33.30	34.20	4.00	8	1.93	341.0	2.95	338	3.00	334	3.022	331		
32	L	41.90	42.50	2.60	12	2.54	394.0	2.57	388	2.63	380	2.669	375	49.0	51.0
	M	42.00	42.90	3.20	10	3.10	323.0	3.13	319	3.19	314	3.227	310		
	H	42.00	42.90	4.00	8	3.79	264.0	3.82	261	3.88	258	3.920	255		
40	L	47.80	48.40	2.90	11	3.23	309.0	3.27	305	3.33	300	3.383	296	56.0	51.0
	M	47.90	48.80	3.20	10	3.56	281.0	3.60	277	3.66	273	3.709	270		
	H	47.90	48.80	4.00	8	4.37	229.0	4.41	226	4.47	224	4.518	221		
50	L	59.60	60.20	2.90	11	4.08	245.0	4.15	241	4.21	238	4.277	234	68.0	60.0
	M	59.70	60.80	3.60	9	5.03	199.0	5.10	196	5.16	194	5.234	191		
	H	59.70	60.80	4.50	7	6.19	161.0	6.26	160	6.32	158	6.390	156		
65	L	75.20	76.00	3.20	10	5.17	175.0	5.83	172	5.88	170	5.992	167	84.0	69.0
	M	75.30	76.60	3.60	9	6.42	156.0	6.54	153	6.59	152	6.702	149		
	H	75.30	76.60	4.50	7	7.93	126.0	8.05	124	8.09	124	8.206	122		
80	L	87.90	88.70	3.20	10	6.72	149.0	6.89	145	6.89	145	7.081	141	98.0	75.0
	M	88.00	89.50	4.00	8	8.36	120.0	8.53	117	8.53	117	8.725	115		
	H	88.00	89.50	4.80	6	9.90	101.0	10.10	99	10.10	99	10.300	97		
100	L	113.00	113.90	3.60	9	9.75	103.0	10.00	100	10.00	100	10.248	98	124.0	87.0
	M	113.10	115.00	4.50	7	12.20	82.0	12.50	80	12.40	81	12.657	79		
	H	113.10	115.00	5.40	5	14.50	69.0	14.80	68	14.71	68	14.966	67		
125	M	138.50	140.80	4.80	6	15.90	63.0	16.40	61	15.90	61	16.400	61	151.0	96.0
	H	138.50	140.80	5.40	5	17.90	56.0	18.40	54	17.90	54	18.400	54		
150	M	163.9	166.50	4.80	6	18.90	53.0	19.50	51	18.90	51	19.500	51	178.0	96.0
	H	163.9	166.50	5.40	5	21.30	47.0	21.90	46	21.30	45	21.900	45		

TOLERANCES

A. THICKNESS

1. Light Tubes : + Not Limit, - 8%
2. Medium and Heavy Tubes : - 10%, + Not limit

B. WEIGHT

1. Single Tubes Light Series) : + 10%, - 8%
2. Single Tubes (Medium and Heavy Series) : $\pm$ 10%,
3. For quantities per load load of 10 tonnes minimum (Light Series) : + 7.5%, - 5%
4. For quantities per load of load of 10 tonnes minimum (Medium & Heavy Series) : $\pm$ 7.5%,

C. LENGHT

1. Unless otherwise specified 4 to 7 meters

Hollow Steel Sections For Structural Use (SHS), Dimension and Properties of Square Hollow Section IS 4923 : 2017 Grade Yst 210, Yst 240, Yst 310

Eastman Tubes

SHS DXD	DEPTH D	WIDTH D	THICKNESS	WEIGHT	AREA OF SECTION	MOMENT OF INERTIA ABOUT	RADIUS OF GYRATION ABOUT	ELASTIC MODULUS	PLASTIC MODULUS
MM	MM	MM	MM	KG/M	CM	CM	CM	CM	CM
1	2	3	4	5	6	7	8	9	10
20.0*20.0	20.0	20.0	2.0	1.2	1.3	0.6	0.68	0.61	0.61
	20.0	20.0	2.6	1.5	2.2	0.6	0.66	0.66	0.66
25.0*25.0	25.0	25.0	2.6	1.7	2.2	1.7	0.89	1.38	1.76
	25.0	25.0	3.2	2.0	2.5	1.9	0.86	1.51	1.98
32.0*32.0	32.0	32.0	2.6	2.3	2.9	4.0	1.18	2.51	3.11
	32.0	32.0	3.2	2.7	3.4	4.5	1.15	2.84	3.59
	32.0	32.0	4.0	3.2	4.1	5.0	1.11	3.14	4.11
40.0*40.0	40.0	40.0	2.6	2.9	3.7	8.5	1.51	4.22	5.12
	40.0	40.0	3.2	3.5	4.5	9.7	1.48	4.86	6.01
	40.0	40.0	3.6	3.9	4.9	10.5	1.46	5.22	6.53
	40.0	40.0	4.0	4.2	5.4	11.1	1.44	5.54	7.01
49.5*49.5	49.5	49.5	2.9	4.1	5.2	18.4	1.88	7.42	8.93
	49.5	49.5	3.6	4.9	6.3	21.4	1.85	8.66	10.60
	49.5	49.5	4.5	6.0	7.6	24.6	1.80	9.96	12.47
60.0*60.0	60.0	60.0	2.6	4.6	5.8	31.3	2.33	10.44	13.35
	60.0	60.0	3.6	6.1	7.8	40.4	2.28	13.46	16.22
	60.0	60.0	4.5	7.4	9.5	47.2	2.23	15.73	19.32
72.0*72.0	72.0	72.0	3.2	6.7	8.5	66.3	2.79	18.42	21.80
	72.0	72.0	4.0	8.2	10.5	79.0	2.75	21.95	26.32
	72.0	72.0	4.8	9.7	12.3	90.3	2.71	25.09	30.49
80.0*80.0	80.0	80.0	3.2	7.5	9.6	92.7	3.11	27.29	27.92
	80.0	80.0	4.0	9.2	11.8	111.1	3.07	27.76	33.07
	80.0	80.0	4.8	11.0	13.9	127.6	3.04	31.90	38.45
91.5*91.5	91.5	91.5	3.6	9.7	12.32	156.5	3.56	34.21	40.24
	91.5	91.5	4.5	11.9	15.14	187.6	3.52	41.00	48.79
	91.5	91.5	5.4	14.0	17.85	215.7	3.48	47.14	56.77
100.0*100.0	100.0	100.0	4.0	11.7	14.95	226.4	3.89	45.27	53.30
	100.0	100.0	5.0	14.4	18.36	271.1	3.84	54.22	64.59
	100.0	100.0	6.0	17.0	21.63	311.5	3.79	62.29	75.10

TOLERANCES

A. THICKNESS

1. Welded tubes ± 7.50%
2. Outside dimensions of sides ±1% of Length of side to be measured with a minimum of ± 0.50 mm

B. WEIGHT

1. On individual Length : + 10%, - 8%
2. On lots of 10 tonne minimum : ± 7%
3. Squareness of come : 90%, ± 2%

C. LENGHT

1. Exact Length ± 6 mm
2. Random Length this may be obtained by arrangement between purchaser & manufacturer.

ERW Steel Tubes

For Mechanical & General Engineer Purposes IS 3601 : 2006

Eastman Tubes

Outside Diameter	Thickness	Mass	Area of Cross Section	Moment of Inertia	Modules of Sections	Radius of Gyration
mm1	mm2	KG/M3	CM 4	CM 5	CM 6	CM 7
21.3	1.80	0.87	1.10	0.53	0.50	0.69
	2.00	0.95	1.21	0.57	0.54	0.69
	2.60	1.20	1.53	0.68	0.64	0.67
	3.20	1.43	1.82	0.77	0.72	0.65
26.9	1.80	1.11	1.42	1.12	0.83	0.89
	2.00	1.23	1.56	1.22	0.91	0.88
	2.30	1.40	1.78	1.36	1.01	0.87
	2.60	1.56	1.98	1.48	1.10	0.86
	3.20	1.87	2.38	1.70	1.27	0.85
33.7	2.00	1.56	1.99	2.51	1.49	1.12
	2.30	1.78	2.27	2.81	1.67	1.11
	2.60	1.99	2.54	3.09	1.84	1.10
	3.20	2.41	3.07	3.60	2.14	1.08
	4.00	2.93	3.73	4.19	2.49	1.06
42.7	2.30	2.27	2.90	5.85	2.76	1.42
	2.60	2.55	3.25	6.46	3.05	1.41
	3.20	3.09	3.94	7.62	3.59	1.39
	3.60	3.44	4.39	8.33	3.93	1.38
	4.00	3.79	4.83	8.90	4.24	1.36
48.3	2.30	2.61	3.32	8.80	3.64	1.63
	2.60	2.93	3.73	9.77	4.05	1.62
	2.69	3.25	4.14	10.70	4.43	1.61
	3.20	3.56	4.53	11.59	4.80	1.60
	3.60	3.97	5.05	12.69	5.25	1.59
	4.00	4.37	5.57	13.77	5.70	1.57
60.3	2.30	3.29	4.19	17.65	5.85	2.05
	2.60	3.70	4.71	19.64	6.51	2.04
	2.90	4.11	5.23	21.59	7.16	2.03
	3.20	4.51	5.74	23.47	7.78	2.02
	3.60	5.03	6.41	25.87	8.58	2.01
	4.00	5.55	7.07	28.15	9.34	2.00
	4.50	6.19	7.89	30.90	10.20	1.98
76.1	2.60	5.24	6.00	40.57	10.66	2.60
	2.90	5.75	6.67	44.57	11.76	2.59
	3.20	6.44	7.33	48.78	12.80	2.58
	3.60	7.11	8.20	54.01	14.20	2.57
	4.50	7.95	10.10	65.12	17.10	2.54
	5.00	8.77	11.16	70.87	18.63	2.52
88.9	2.90	6.15	7.83	72.47	16.30	3.04
	3.20	6.76	8.62	79.21	17.80	3.03
	4.00	8.38	10.70	96.34	21.70	3.00
	5.00	10.30	13.20	116.40	26.20	2.97
	5.40	11.10	14.00	123.80	27.80	2.97
	5.60	11.50	14.65	127.64	28.72	2.95
101.6	3.60	8.70	11.10	133.20	26.20	3.47
	4.00	9.63	12.30	146.20	28.80	3.45
	5.00	11.90	15.20	177.50	34.90	3.42
114.3	3.20	8.77	11.16	172.33	30.15	3.93
	3.60	9.83	12.50	192.00	33.60	3.92
	4.50	12.20	15.50	234.30	41.00	3.89
	5.40	14.50	18.50	274.50	48.00	3.86
	6.30	16.80	21.20	315.00	55.10	3.83
127.0	4.50	13.60	17.30	325.30	51.2	4.33
	5.00	15.00	19.20	357.10	56.2	4.32
	5.40	16.20	20.60	302.00	60.2	4.3
139.7	3.60	12.10	15.38	356.36	51.02	4.81
	4.00	13.40	17.04	392.57	56.2	4.8
	4.50	15.00	19.10	437.20	62.6	4.78
	5.00	16.60	21.20	480.50	68.8	4.77
	5.40	17.90	22.80	514.50	73.7	4.75
152.4	4.50	16.40	20.90	572.20	75.1	5.23
	5.00	18.20	23.20	629.50	82.6	5.21
	5.40	19.60	24.90	674.50	88.5	5.2

A. PHYSICAL PROPERTIES

Grade	Y.S. Mpa (Min)	T.S. Mpa (Min)	% age Elongation (Min)	
			As welded (Less than or equal to 33.7 mm OD	As welded (More than or equal to 33.7 mm OD
WT 160	160	310	15	22
WT 210	210	330	12	20
WT 240	240	410	10	15
WT 310	310	450	6	10

B. MANUFACTURING TOLERANCE

OVER MM	Up to & Including MM	Tolerance on Outside Diameter MM
	25.4	± 0.15
25.4	25.4 to 51.0	± 0.18
51.0	51.0 to 63.5	± 0.25
63.5	63.5 to 76.1	± 0.25
76.1	76.1 to 88.9	± 0.31
88.9	88.9 to 101.6	± 0.36
101.6	101.6 to 114.3	± 0.43
114.3	114.3 to 152	± 0.58

Hollow Steel Sections For Structura Use (RHS), Dimension and Properties of Properties Properties of Rectangular Hollow Section

IS 4923 : 2017 Grade Yst 210, Yst 240, Yst 310

Eastman Tubes

RHS DXB	DEPTH D	WIDTH B	THICKNESS	WEIGHT	AREA OF SECTION	MOMENT OF INERTIA ABOUT		RADIUS OF GYRATION ABOUT		ELASTIC MODULUS ABOUT		PLASTIC MODULUS ABOUT	
						X-X	Y-Y	X-X	Y-Y	X-X	Y-Y	X-X	Y-Y
MM	MM	MM	MM	KG/M	CM	CM		CM		CM		CM	
1	2	3	4	5	6	7	8	9	10	11	12	13	14
50.0*25.0	50	25	2.9	2.98	3.8	10.93	3.60	1.70	0.97	4.37	2.88	5.72	3.48
	50	25	3.2	3.24	4.13	11.63	3.8	1.68	0.95	4.65	3.04	6.14	3.73
60.0*40.0	60	40	2.9	4.12	5.25	24.74	13.11	2.17	1.58	8.25	6.56	10.25	7.73
66.0*33.0	66	33	2.9	4.07	5.19	27.33	9.12	2.29	1.33	8.28	5.53	10.59	6.49
	66	33	3.6	4.93	6.28	31.87	10.52	2.25		9.66	6.37	12.56	7.66
	66	33	4.5	5.95	7.58	36.64	11.93	2.20	1.25	11.10	7.23	14.77	8.94
75.0*25.0	75	25	2.9	4.12	5.25	29.82	7.72	2.38	1.21	8.52	5.14	11.07	6.04
	75	25	3.2	4.5	5.73	32.04	8.24	2.37	1.20	9.15	5.49	11.98	6.51
	75	25	4.0	5.45	6.95	37.23	9.42	2.31	1.16	10.64	6.28	14.20	7.66
80.0*40.0	80	40	2.9	5.03	6.41	50.87	17.11	2.82	1.63	12.72	8.56	16.07	9.88
	80	40	3.2	5.5	7.01	54.94	18.41	2.80	1.62	13.74	9.21	17.46	10.72
	80	40	4.0	6.71	8.55	64.79	21.49	2.75	1.59	16.20	10.74	20.91	12.77
96.0*48.0	96	48	3.2	6.71	8.54	98.61	33.28	3.40	1.97	20.54	13.87	25.85	15.91
	96	48	4.0	8.22	10.47	117.54	39.32	3.35	1.94	24.49	16.30	31.21	19.14
	96	48	4.8	9.66	12.31	134.35	44.55	3.30	1.90	27.99	18.56	36.13	22.08
100.0*50.0	100	50	3.2	7.01	8.93	112.29	37.95	3.60	2.06	22.46	15.18	28.20	17.37
	100	50	4.0	8.59	10.95	134.14	44.95	3.50	2.03	26.83	17.98	34.10	20.93
122.0*61.0	122	61	3.6	9.67	12.32	232.61	78.83	4.34	2.35	38.13	25.84	47.71	29.42
	122	61	4.5	11.88	15.14	278.94	93.78	4.29	2.49	45.73	30.75	57.85	35.56
	122	61	5.4	14.01	17.85	320.83	107.03	4.24	2.45	52.60	35.09	67.29	41.22

Note :- Size other than specifield above may be supplied as per customer requirement

A. PHYSICAL PROPERTIES

Grade	Y.S. Mpa (Min)	T.S. Mpa (Min)	% ELONGRATION	
			25.4 MM & UNDER	OVER 25.4 MM
YST - 210	210	330	12	20
YST - 240	240	410	10	15
YST - 310	310	450	8	10

TOLERANCES

A. THICKNESS

1. Welded tubes ± 7.5%
2. Outside dimensions of sides ± 1% of Length of side to be measured with a minimum of ± 0.5mm

B. WEIGHT

1. On individual Length : + 10%, - 8%
2. On lots of 10 tonne minimum : ± 7%
3. Squareness of come : 90%, ± 2%

C. LENGHT

1. Exact Length +/-6 mm
2. Random Length this may be obtained by arrangement between purchaser & manufacturer.

EASTMAN TUBES

Eastman Tubes

PRECISION TUBE SIZE (SQUARE)

Sr. No.	OD	F/C NFC	SECTION	THICKNESS (mm)																			
1	12.70	NFC	10 x 10	0.50	0.55	0.60	0.70	0.80	0.90	1.00	1.20	1.60											
2	15.88	NFC	12 x 12	0.50	0.55	0.60	0.70	0.80	0.90	1.00	1.20	1.60	2.00										
3	19.05	NFC	15 x 15	0.50	0.55	0.60	0.70	0.80	0.90	1.00	1.20	1.60	2.00										
4	25.40	NFC	20 x 20	0.50	0.55	0.60	0.70	0.80	0.90	1.00	1.20	1.60	2.00	2.20	2.30	2.50	3.00						
5	31.75	NFC	25 x 25			0.60	0.70	0.80	0.90	1.00	1.20	1.60	2.00	2.20	2.30	2.50	2.60	2.80	3.00	3.50			
6	38.10	NFC	30 x 30					0.80	0.90	1.00	1.20	1.60	2.00	2.20	2.30	2.50	2.60	2.80	3.00	3.20	3.30	3.50	
7	50.80	F/C NFC	40 x 40					0.80	0.90	1.00	1.20	1.60	2.00	2.20	2.30	2.50	2.60	2.80	3.00	3.20	3.30	3.50	4.00
8	63.50	F/C NFC	50 x 50								1.20	1.60	2.00	2.20	2.30	2.50	2.60	2.80	3.00	3.20	3.30	3.50	4.00
9	76.10	F/C NFC	60 x 60								1.20	1.60	2.00	2.20	2.30	2.50	2.60	2.80	3.00	3.20	3.30	3.50	4.00
10	88.90	F/C NFC	70 x 70										2.00	2.20	2.30	2.50	2.60	2.80	3.00	3.20	3.30	3.50	4.00
11	101.30	F/C NFC	80 x 80										2.00	2.20	2.30	2.50	2.60	2.80	3.00	3.20	3.30	3.50	4.00
12	114.30	F/C NFC	90 x 90											2.20	2.30	2.50	2.60	2.80	3.00	3.20	3.30	3.50	4.00
13	127.00	F/C NFC	100 x 100													2.50	2.60	2.80	3.00	3.20	3.30	3.50	4.00

EASTMAN TUBES

Eastman Tubes

PRECISION TUBE SIZE (RECTANGLE)

Sr. No.	OD	F/C NFC	SECTION	THICKNESS (mm)															
1	31.75		30 x 20		0.80	0.90	1.00	1.20	1.60	2.00	2.20	2.30	2.50	2.60	2.80	3.00			
2	38.10	NFC	40 x 20				1.00	1.20	1.60	2.00	2.20	2.30	2.50	2.60	2.80	3.00	3.20	3.30	3.50
3	48.60	NFC	50 x 25				1.00	1.20	1.60	2.00	2.20	2.30	2.50	2.60	2.80	3.00	3.20	3.30	3.50
4	50.80	F/C NFC	50 x 30				1.00	1.20	1.60	2.00	2.20	2.30	2.50	2.60	2.80	3.00	3.20	3.30	3.50
5	57.15	F/C NFC	50 x 40							2.00	2.20	2.30	2.50	2.60	2.80	3.00	3.20	3.30	3.50
			60 x 30							2.00	2.20	2.30	2.50	2.60	2.80	3.00	3.20	3.30	3.50
6	63.50		60 x 40					1.20	1.60	2.00	2.20	2.30	2.50	2.60	2.80	3.00	3.20	3.30	3.50
			75 x 25					1.20	1.60	2.00	2.20	2.30	2.50	2.60	2.80	3.00	3.20	3.30	3.50
7	69.85	F/C NFC	80 x 30					1.20	1.60	2.00	2.20	2.30	2.50	2.60	2.80	3.00	3.20	3.30	3.50
8	76.10	F/C NFC	80 x 40					1.20	1.60	2.00	2.20	2.30	2.50	2.60	2.80	3.00	3.20	3.30	3.50
9	88.90	F/C NFC	90 x 50							2.00	2.20	2.30	2.50	2.60	2.80	3.00	3.20	3.30	3.50
			96 x 48							2.00	2.20	2.30	2.50	2.60	2.80	3.00	3.20	3.30	3.50
10	114.30	F/C NFC	122 x 61										2.50	2.60	2.80	3.00	3.20	3.30	3.50
11	127.00	F/C NFC	150 x 50										2.50	2.60	2.80	3.00	3.20	3.30	3.50
			125 x 75										2.50	2.60	2.80	3.00	3.20	3.30	3.50

EASTMAN TUBES

Eastman Tubes

PRECISION TUBE SIZE (ROUND)

Sr. No.	OD	FC/ NFC	THICKNESS (mm)																												
1	9.53	NFC	0.35	0.40	0.45	0.50	0.55	0.60	0.70	0.80	0.90	1.00																			
2	10.00	NFC	0.35	0.40	0.45	0.50	0.55	0.60	0.70	0.80	0.90	1.00																			
3	12.70	NFC	0.35	0.40	0.45	0.50	0.55	0.60	0.70	0.80	0.90	1.00	1.20	1.60																	
4	15.88	NFC	0.35	0.40	0.45	0.50	0.55	0.60	0.70	0.80	0.90	1.00	1.20	1.60	2.00																
5	18.25	NFC	0.35	0.40	0.45	0.50	0.55	0.60	0.70	0.80	0.90	1.00	1.20	1.60	2.00																
6	19.05	NFC	0.35	0.40	0.45	0.50	0.55	0.60 5	0.70	0.80	0.90	1.00	1.20	1.60	2.00	2.20	2.30	2.50													
7	22.23	FC/ NFC	0.35	0.40	0.45	0.50	0.5	0.60	0.70	0.80	0.90	1.00	1.20	1.60	2.00	2.20	2.30	2.50	2.60	2.80	3.00										
8	25.40	FC/ NFC	0.35	0.40	0.45	0.50	0.55	0.60	0.70	0.80	0.90	1.00	1.20	1.60	2.00	2.20	2.30	2.50	2.60	2.80	3.00										
9	28.58	FC/ NFC				0.50	0.55	0.60	0.70	0.80	0.90	1.00	1.20	1.60	2.00	2.20	2.30	2.50	2.60	2.80	3.00	3.20	3.50								
10	31.75	FC/ NFC						0.60	0.70	0.80	0.90	1.00	1.20	1.60	2.00	2.20	2.30	2.50	2.60	2.80	3.00	3.20	3.30	3.50	4.00						
11	34.93	FC										1.00	1.20	1.60	2.00	2.20	2.30	2.50	2.60	2.80	3.00	3.20	3.30	3.50	4.00						
12	38.10	FC										1.00	1.20	1.60	2.00	2.20	2.30	2.50	2.60	2.80	3.00	3.20	3.30	3.50	3.60	4.00	4.20	4.50	5.00	5.50	
13	44.45	FC										1.00	1.20	1.60	2.00	2.20	2.30	2.50	2.60	2.80	3.00	3.20	3.30	3.50	3.60	4.00					
14	50.80	FC										1.00	1.20	1.60	2.00	2.20	2.30	2.50	2.60	2.80	3.00	3.20	3.30	3.50	3.60	4.00	4.20	4.50	5.00	5.50	6.00
15	57.15	FC											1.20	1.60	2.00	2.20	2.30	2.50	2.60	2.80	3.00	3.20	3.30	3.50	3.60	4.00	4.20	4.50	5.00	5.50	6.00
16	63.50	FC											1.20	1.60	2.00	2.20	2.30	2.50	2.60	2.80	3.00	3.20	3.30	3.50	3.60	4.00	4.20	4.50	5.00	5.50	6.00
17	69.85	FC												1.60	2.00	2.20	2.30	2.50	2.60	2.80	3.00	3.20	3.30	3.50	3.60	4.00	4.20				
18	76.10	FC												1.60	2.00	2.20	2.30	2.50	2.60	2.80	3.00	3.20	3.30	3.50	3.60	4.00	4.20	4.50	5.00	5.50	6.00
19	88.90	FC														2.20	2.30	2.50	2.60	2.80	3.00	3.20	3.30	3.50	3.60	4.00	4.20	4.50	5.00	5.50	6.00
20	101.30	FC														2.20	2.30	2.50	2.60	2.80	3.00	3.20	3.30	3.50	3.60	4.00	4.20	4.50	5.00	5.50	6.00

Steel Tubes For Structural Purposes
Conforming to IS 1161 : 2014 (CHS)
Grade Yst 210, Yst 240, Yst 310

Eastman Tubes

N.B. AND SERIES	OUTSIDE DIAMETER	THICKNESS	NOMINAL WEIGHT BLACK TUBE PLAIN END		CALCULATED NOMINAL WEIGHT GALVANIZED TUBES PLAIN END	
mm	mm	mm	kg/m	m/tonne	kg/m	m/tonne
15	21.3	2.0	0.952	1051	0.996	1004
		2.6	1.20	834	1.24	806
		3.2	1.43	700	1.47	681
20	26.9	2.3	1.40	717	1.45	689
		2.6	1.56	642	1.61	620
		3.2	1.87	535	1.92	520
25	33.7	2.6	1.99	502	2.06	484
		3.2	2.41	415	2.44	410
		4.0	2.93	341	2.96	338
32	42.4	2.9	2.55	392	2.64	379
		3.2	3.09	323	3.13	319
		4.0	3.79	264	3.83	261
40	48.3	2.9	3.25	308	3.35	299
		3.6	3.56	281	3.61	277
		4.5	4.37	229	4.42	226
50	60.3	2.9	4.10	244	4.23	236
		3.6	5.03	199	5.09	196
		4.5	6.19	161	6.25	160
65	76.1	2.9	5.23	191	5.40	185
		3.6	6.44	155	6.51	154
		4.5	7.95	126	8.02	125
80	88.9	3.2	6.76	148	6.96	144
		4.0	8.37	119	8.47	118
		4.8	9.95	100	10.04	100
90	101.6	3.6	8.70	115	8.92	112
		4.0	9.63	104	9.73	103
		4.8	11.46	87	11.56	86
100	114.3	3.6	9.83	102	10.08	99
		4.5	12.18	82	12.30	81
		5.4	14.50	69	14.62	68
110	127	4.5	13.59	74	13.87	72
		4.8	14.46	69	14.58	69
		4.5	16.19	62	16.31	61
125	139.7	4.5	15.00	67	15.25	66
		4.8	15.90	63	16.15	62
		5.4	17.90	56	18.15	55
135	152.4	4.5	16.40	61	16.78	60
		4.8	17.50	57	17.88	56
		5.4	19.60	51	19.98	55
150	165.1	4.5	17.80	56	18.20	55
		4.8	18.90	52	19.80	51
		5.4	21.30	47	21.70	46

Tensile Properties :

	GRADE	YS (Min)Mpa Kg/mm2	TS (Min)Mpa Kg/mm2	EL%
IS 1161	Yst - 210	210	330	20
	Yst - 240	240	410	17
	Yst - 310	310	450	14

Tensile Properties :

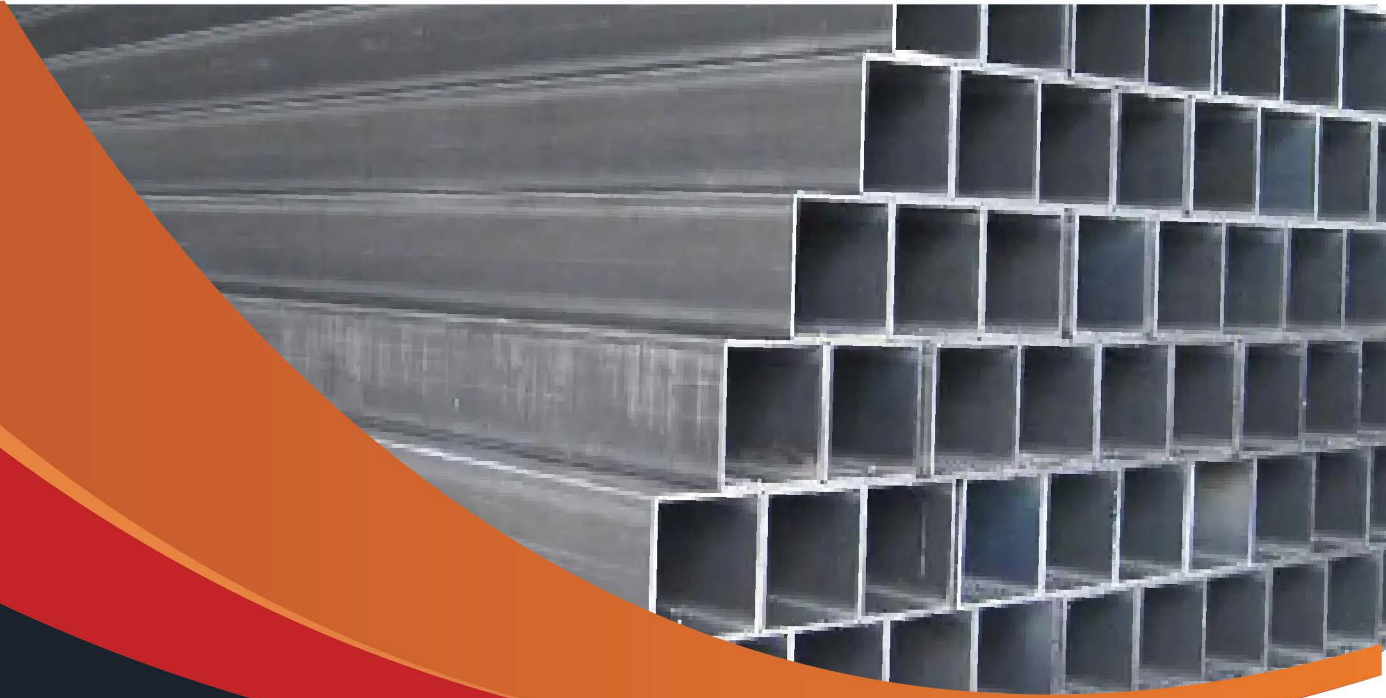
Outer Dia upto and including 48.30 + 0.4/-0.8mm, Over 48.30 + 1%

A. THICKNESS

1. For all size welded tubes : + Not Limit, - 10%

B. WEIGHT

1. Single Tubes (Light Series) : - 8%, + 8%
2. For Medium and Heavy Class : ± 10%,
3. 10 tonnes Light : ± 5%,
4. Medium & Heavy : ± 7.5%,



Eastman
Tubes

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EASTMAN TUBES PRIVATE LIMITED