

Provides your best
quality manufacturing
products of Mild Steel



984, Bhawani Peth, Near A D Camp Chowk, Opp. Hope Hospital, Pune 411042
For more information, please visit: <http://stlhouse.in/>, E-Mail: stlhouse@gmail.com



tel: 9373354551
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We are a distinguished firm, which is engaged in Manufacturing, Wholesaling, Exporting, and Importing of Metal Pipes, Hollow Sections, Metal Beams, etc.



Established in the year 1985, we, "**Steel House**", is a prominent firm, which is engaged in Manufacturing, Wholesaling, Exporting, and Importing of Metal Pipes, Hollow Sections, Metal Beams, etc. Premium grade raw material is used by our trusted vendors to manufacture these products. Our products are extensively used in bridges, sports galleries, a sign supporting structure and material storage racks, to name a few.

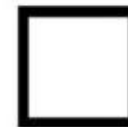
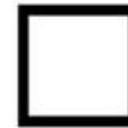
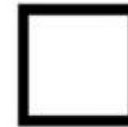
The products offered by us are well-known across the nation due to their durability, fine finish, and durability. We are backed by a team of dedicated professionals, which assists us in our entire business process. Our professionals store our products at our sophisticated warehousing facility in a dexterous manner. Being a quality conscious firm, our products are dispatched only after stringently tested on laid industry parameters by the quality controllers. Owing to our finest quality products, we have formed a strong client-base in the Indian Subcontinent. Under the visionary guidance of our skilled mentor, "**Mr. Sufiyan Memon**", we have gained an edge over our competitors. His in-depth knowledge, vast industry experience and charismatic leadership have enabled us to reach the pinnacle of success.

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Products – Mild Steel

- ▶ MS Pipes
- ▶ MS Angles/Channels/Beams
- ▶ Sheets (HR/CR/GP)
- ▶ Plates
- ▶ TMT bars
- ▶ Colour coated sheets
- ▶ Steel Coils

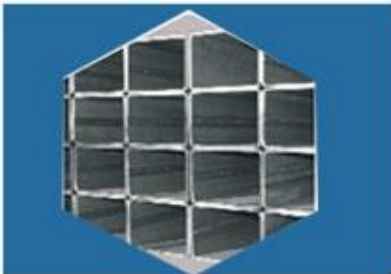


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EQUALENT INTERNATIONAL STANDARDS FOR VARIOUS INDIAN STANDARDS



Indian Standard	American Standard	British Standard	Japanese Standard	German Standard
IS 1161-1998	ASTM A500	BS 4360	JIS G3444/ 1994	DIN 2439 - 2441
	GR A/1993	BS 7613/ 1994	--	
IS-1239 (Part 1) /2004	ASTM A53/ 1993 Elong.20% for all Galv. 550Gms/m2	BS 1387 / 1985	--	DIN 2439 - 2441
IS 9295 / 1983	ASTM A-513	BS 6323 / 1982	--	--
IS 3601 / 2006	--	BS 1775 BS 6323 / 1982	JIS G3345 / 1983	DIN 2393 / 1994
IS 4923 / 1997	ASTM A500 GRA/1993	BS 6363	JIS G3466 / 1982	DIN 2395
IS/ISO/3183-2007 This Specification is equivalent to IS 1978 - 82 (Old Version)				

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STEEL TUBES FOR ORDINARY USES IN WATER, GAS, STEAM & AIR



Conforming to IS:1239 (Part-I) 2004

Nominal Bore (N.B.)		Outside Diameter		CLASS	Wall Thickness		NOMINAL WEIGHT		METERS / TON	
MM	INCH	Minimum	Maximum		MM	SWG	Kg / Meters		P.E.	S & S
		MM	MM				P.E.	S & S		
15	(1/2")	21.00	21.40	L	2.00	14	0.95	0.96	1056	1046
		21.00	21.80	M	2.60	12	1.21	1.22	826	820
		21.00	21.80	H	3.20	10	1.44	1.45	694	690
20	(3/4")	26.40	26.90	L	2.30	13	1.38	1.39	725	719
		26.50	27.30	M	2.60	12	1.56	1.57	641	637
		26.50	27.30	H	3.20	10	1.87	1.88	535	532
25	(1")	33.20	33.80	L	2.60	12	1.98	2.00	505	500
		33.30	34.20	M	3.20	10	2.41	2.43	415	411
		33.30	34.20	H	4.00	8	2.93	2.95	341	339
32	(1 1/4")	41.90	42.50	L	2.60	12	2.54	2.57	394	389
		42.00	42.90	M	3.20	10	3.10	3.13	322	319
		42.00	42.90	H	4.00	8	3.79	3.82	264	262
40	(1 1/2")	47.80	48.40	L	2.90	11	3.23	3.27	310	306
		47.90	48.80	M	3.20	10	3.56	3.60	281	278
		47.90	48.80	H	4.00	8	4.37	4.41	229	227
50	(2")	59.60	60.20	L	2.90	11	4.08	4.15	245	241
		59.70	60.80	M	3.60	9	5.03	5.10	199	196
		59.70	60.80	H	4.50	7	6.19	6.26	161	160
65	(2 1/2")	75.20	76.00	L	3.20	10	5.71	5.83	175	171.5
		75.30	76.60	M	3.60	9	6.42	6.54	156	153
		75.30	76.60	H	4.50	7	7.93	8.05	126	124
80	(3")	87.90	88.70	L	3.20	10	6.72	6.89	149	145
		88.00	89.50	M	4.00	8	8.36	8.53	120	117
		88.00	89.50	H	4.80	6	9.90	10.10	101	99
100	(4")	113.00	113.90	L	3.60	9	9.75	10.00	102	100
		113.10	115.00	M	4.50	7	12.20	12.50	82	80
		113.10	115.00	H	5.40	5	14.50	14.80	69	67
125	(5")	138.50	140.80	M	4.80	6	15.90	16.40	63	61
		138.50	140.80	H	5.40	5	17.90	18.40	56	54
150	(6")	163.90	166.50	M	4.80	6	18.90	19.50	53	51
		163.90	166.50	H	5.40	5	21.30	21.90	47	46

* Standard Wire Gauge

TOLERANCE

Thickness:

Light Tubes : + not limited
- 8%

Medium &
Heavy Tubes: + not limited
- 10%

Weight:

Single Tube : + 10%
(light series) - 8%

Single Tube : +/- 10%
(Medium & Heavy series)

For quantities per load of 10 ton Min.: +7.5%
(light series) -5.0%

For quantities per load of 10 ton Min.: +/- 7.5%
(Medium & Heavy series)

Chemical Composition

As per IS: 10748 – 2004

Physical Properties

Tensile strength : Min. 320 Mpa

Elongation % age : 20% Min. above 25 mm NB
12% Min. upto 25 mm NB

Hydro Test Pressure : 5 Mpa

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HOLLOW STEEL SECTIONS FOR STRUCTURAL USE, SQUARE HOLLOW SECTION (SHS)



Conforming to IS : 4923 – 1997

SHS (DxB)	THICKNESS	UNIT WEIGHT	
		Kg/Meter	Meter/Ton
19 X 19	2.00	0.99	1010
	2.60	1.20	833
	2.90	1.30	769
25 X 25	2.00	1.36	735
	2.60	1.69	592
	3.20	1.98	505
32 X 32	2.60	2.26	442
	3.20	2.69	372
	4.00	3.19	313
38 X 38	2.00	2.18	459
	2.60	2.75	364
	3.20	3.29	304
	4.00	3.95	253
40 X 40	2.00	2.31	433
	2.60	2.92	342
	3.20	3.49	287
	4.00	4.20	238
49.5 X 49.5	2.60	3.69	271
	3.20	4.45	225
	4.50	5.95	168
60 X 60	2.60	4.55	220
	3.20	5.50	182
	3.50	5.96	168
	4.50	7.43	135
72 X 72	3.20	6.71	149
	4.00	8.22	122
	5.00	10.01	100

SHS (DxB)	THICKNESS	UNIT WEIGHT	
		Kg/Meter	Meter/Ton
80 X 80	3.20	7.51	133
	4.00	9.22	108
	5.00	11.27	89
91.5 X 91.5	3.60	9.67	103
	4.50	11.88	84
	5.40	14.01	71
100 X 100	3.60	10.64	94
	4.50	13.08	76
	6.00	16.98	59
113.5 X 113.5	4.00	13.43	74
	5.00	16.53	60
	6.00	19.53	51
125 X 125	4.00	14.87	67
	5.00	18.33	55
	6.00	21.69	46
132 X 132	4.00	15.75	63
	5.00	19.43	51
	6.00	23.01	43
150 X 150	5.00	22.26	45
	6.00	26.40	38
	7.00	30.44	33
180 X 180	5.00	26.97	37
	6.00	32.05	31
	8.00	41.91	24

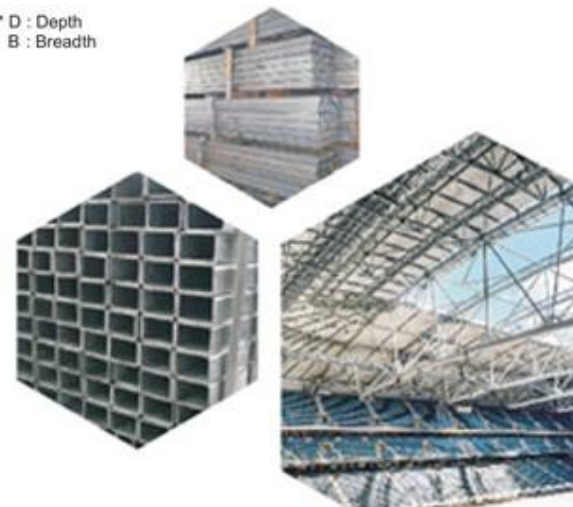
OTHER ALLOWABLE STRESS VALUES (in Mpa)

Steel Grade	Min. Yield Stress	Min. UTS
Yst 210	210	330
Yst 240	240	410
Yst 310	310	450

Note: Min. % Elongation: 10% for GR. Yst 310, 15% for GR. Yst 240 & 20% for Yst 210

e: The sizes which are not covered in the Table can also be supplied as per customer requirement (Clause – 8.1)

* D : Depth
B : Breadth



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HOLLOW STEEL SECTIONS FOR STRUCTURAL USE RECTANGULAR HOLLOW SECTION (RHS)



Conforming to IS : 4923 – 1997

RHS MM	THICKNESS MM	UNIT WEIGHT	
		Kg/Meter	Meter/Ton
40 X 20	2.00	1.68	595
	2.60	2.10	476
	3.20	2.49	402
50 X 25	2.00	2.15	465
	2.60	2.71	369
	3.20	3.24	309
60 X 40	4.00	3.88	258
	2.60	3.73	268
	3.20	4.50	222
66 X 33	4.50	6.02	166
	2.60	3.69	271
	3.20	4.45	225
75 X 25	4.50	5.95	168
	2.60	3.73	268
	3.20	4.50	222
80 X 40	4.50	6.02	166
	2.90	5.03	199
	3.50	5.96	168
96 X 48	4.50	7.43	135
	3.20	6.71	149
	4.00	8.22	122
90 X 60	5.00	10.01	100
	3.20	7.01	143
	4.00	8.59	116
100 X 50	5.00	10.48	95
	3.20	7.01	143
	4.00	8.59	116
120 X 60	5.40	11.21	89
	6.00	12.27	81
	3.60	9.50	105
	4.50	11.67	86
	5.40	13.76	73

Conforming to IS : 4923 – 1997

RHS MM	THICKNESS MM	UNIT WEIGHT	
		Kg/Meter	Meter/Ton
122 X 61	3.60	9.67	103
	4.50	11.88	84
	5.40	14.01	71
145 X 82	3.60	12.16	82
	4.50	14.99	67
	5.40	17.74	56
150 X 75	3.60	12.05	83
	4.50	14.85	67
	5.40	17.57	57
150 X 100	3.60	13.46	74
	4.50	16.62	60
	5.40	19.69	51
172 X 92	3.60	14.25	70
	4.50	17.61	57
	5.40	20.88	48
200 X 100	4.50	20.15	50
	6.00	26.40	38
	7.00	30.44	33
200 X 150	4.50	23.68	42
	6.00	31.11	32
	8.00	40.66	25



General technical specification and tolerances:

Spec :	IS:4923:1997
Length:	6.0m +/- 0.05mm customized length ranging from 4m to 8m may be supplied
Thickness:	For all sizes: +/- 10.0%
Outer Dimensions:	1% with a Min. of 0.5mm
Corner Squareness:	90° +/- 2°
Corner Radii:	Max. 3x (thickness of the section)
Weight:	on individual length : +10%, -8% on lots of 10 MT: +/- 7.5%
Straightness:	Min1:200 th of any length measured along the center line (mill straightened condition) unless otherwise specifically arranged
Twist Tolerance:	Max. 2mm:+0.5mm /1m length, the measured relative vertical shift of any adjacent corner of the measured by keeping one side on flat surface.
End Finish:	Plain Ended- Mechanically sheared, mill-cut finish without further machining.
Surface Finish:	Black without any surface treatment of oiling or varnishing.
Raw Material:	Sulphur content: 0.05% max. Phosphorus content:0.05% max.

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STEEL TUBE FOR STRUCTURAL PURPOSE



Confirming to IS : 1161 - 1998

Nominal Size NB		Outside Diameter D	CLASS	Thickness T		Nominal Weight Black Tubes Plain End	
MM	INCH	MM		MM	SWG	Kg/Meter	Meter/Ton
15	(1/2")	21.30	L	2.00	14	0.947	1056
			M	2.60	12	1.210	826
			H	3.20	10	1.440	694
20	(3/4")	26.90	L	2.30	13	1.380	725
			M	2.60	12	1.560	641
			H	3.20	10	1.870	535
25	(1")	33.70	L	2.60	12	1.980	505
			M	3.20	10	2.410	415
			H	4.00	08	2.930	341
32	(1 1/4")	42.40	L	2.60	12	2.540	394
			M	3.20	10	3.100	322
			H	4.00	08	3.790	264
40	(1 1/2")	48.30	L	2.90	11	3.230	310
			M	3.20	10	3.560	281
			H	4.00	08	4.370	229
50	(2")	60.30	L	2.90	11	4.080	245
			M	3.60	09	5.030	199
			H	4.50	07	6.190	162
65	(2 1/2")	76.10	L	3.20	10	5.710	175
			M	3.60	09	6.420	156
			H	4.50	07	7.930	126
80	(3")	88.90	L	3.20	10	6.720	149
			M	4.00	08	8.360	120
			H	4.80	06	9.990	101
100	(4")	114.30	L	3.60	09	9.750	102
			M	4.50	07	12.200	82
			H	5.40	05	14.500	70

Confirming to IS : 1161 - 1998

Nominal Size NB		Outside Diameter D	CLASS	Thickness T		Nominal Weight Black Tubes Plain End	
MM	INCH	MM		MM	SWG	Kg/Meter	Meter/Ton
110		127.00	L	4.50	07	13.600	74
			M	4.80	06	14.500	69
			H	5.40	05	16.200	62
125	(5")	139.70	L	4.50	07	15.000	66.5
			M	4.80	06	15.900	63
			H	5.40	05	17.900	56
135		152.40	L	4.50	07	16.400	61
			M	4.80	06	17.500	57
			H	5.40	05	19.600	51
150	(6")	165.10	L	4.50	07	17.800	56
			M	4.80	05	18.900	53
			H	5.40	05	21.300	47
150	(6")	168.30	L	4.50	07	18.200	55
			M	4.80	06	19.400	51.5
			H1	5.40	05	21.700	46
175	(7")	193.70	H2	6.30	03	25.200	40
			L	4.80	06	22.400	45
			M	5.40	05	25.100	40
200	(8")	219.10	H	5.90	04	27.300	37
			L	4.80	06	25.400	39
			M	5.60	05	29.500	34
			H	5.90	04	31.000	32

Chemical Properties

C	0.12% Max
Mn	0.60% Max
P	0.04% Max
S	0.04% Max
Si	0.08% Max

Physical Properties

Grade	YS (Min.)	TS (Min.)	% age (Min.)
	Mpa	Mpa	Elong.
YST-210	210	330	20
YST-240	240	410	17

Note: For tubes upto size 25mm

Weight

Single tubes (light series)	+10%
	-8%
Single tubes (medium & heavy series)	+/- 10%

Weight Truck Load

For lot of 10 Ton Min.	
Light Series	+/- 5%
medium & heavy series	+/- 7.5%

Tolerance

Outside diameter:	
upto and including 48.3mm	+ 0.4mm
	- 0.8mm
Over 48.3mm	+/- 1%

Thickness

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Conforming to IS: 3601 - 2006

Outside Diameter	Thickness	Mass	Area of cross Section	Moment of Inertia	Modules of Sections	Radius of Gyration
mm	mm	Kg/m	cm ⁴	cm ⁴	cm ³	cm
21.30	1.80	0.866	1.10	0.53	0.50	0.69
	2.00	0.952	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
26.90	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
33.70	3.20	1.87	2.38	1.70	1.27	0.85
	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
42.40	3.20	2.41	3.07	3.60	2.14	1.08
	4.00	2.93	3.73	4.19	2.49	1.06
	2.30	2.27	2.90	5.85	2.76	1.42
	2.60	2.55	3.25	6.46	3.05	1.41
48.30	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
	2.30	2.61	3.32	8.80	3.64	1.63
60.30	2.60	2.93	3.73	9.77	4.05	1.62
	2.90	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
76.10	4.00	4.37	5.57	13.77	5.70	1.57
	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
88.90	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
101.60	2.60	5.24	6.00	40.57	10.66	2.60
	2.90	5.75	6.67	44.74	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
101.60	4.50	7.95	10.10	65.12	17.10	2.54
	5.00	8.77	11.16	70.87	18.63	2.52
	2.90	6.15	7.83	72.47	16.30	3.04
	3.20	6.76	8.62	79.21	17.80	3.03
101.60	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
101.60	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

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Outside Diameter	Thickness	Mass	Area of cross Section	Moment of Inertia	Modules of Sections	Radius of Gyration
mm	mm	Kg/m	cm ⁴	cm ⁴	cm ³	cm
114.30	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
139.70	3.60	12.10	15.38	356.36	51.02	4.81
	4.00	13.40	17.04	392.57	56.20	4.80
	4.50	15.00	19.10	437.20	62.60	4.78
	5.00	16.60	21.20	480.50	68.80	4.77
	5.40	17.90	22.80	514.50	73.70	4.75
152.40	6.30	20.70	26.30	591.00	84.70	4.73
	4.50	16.40	20.90	572.20	75.10	5.23
	5.00	18.20	23.20	629.50	82.60	5.21
	5.40	19.60	24.90	674.50	88.50	5.20
	4.50	17.80	22.70	732.60	88.70	5.68
165.10	5.00	19.70	25.10	806.60	97.70	5.66
	5.40	21.20	27.10	864.70	105.00	5.65
	6.30	24.80	31.40	992.00	120.00	5.63
	4.00	16.20	20.64	696.87	82.81	5.81
	4.50	18.20	23.20	777.20	98.40	5.79
168.30	5.00	20.10	25.70	855.80	102.00	5.78
	5.40	21.70	27.60	917.70	109.00	5.76
	6.30	25.20	32.10	1053.00	125.00	5.73
	7.10	28.20	35.94	1169.66	139.00	5.70
	8.00	31.60	39.70	1288.00	153.00	5.69
193.70	5.00	23.30	29.60	1320.00	136.00	6.67
	5.40	25.10	31.90	1417.00	146.00	6.66
	5.90	27.30	34.80	1536.00	159.00	6.64
	6.30	29.10	37.00	1600.00	165.00	6.60
	8.00	36.60	46.30	2004.00	207.00	6.57
219.10	4.50	23.80	30.32	1746.18	159.40	7.59
	5.00	26.40	33.60	1928.00	176.00	7.57
	5.60	29.50	37.60	2142.00	195.00	7.56
	6.30	33.10	42.00	2404.00	219.00	7.54
	8.00	41.60	52.00	1940.00	268.00	7.52

PHYSICAL PROPERTIES

Grade	Y.S.(Min.) (Mpa)	T.S.(Min) (Mpa)	% 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)
WT160	160	310	15	22
WT210	210	330	12	20
WT240	240	410	10	15

TOLERANCE

Outside Diameter upto 25.40 mm	± 0.15 mm
Outside Diameter upto & including 51 mm	± 0.18 mm
Over 51 mm to 76.10 mm	± 0.25 mm
Above 76.10 to 88.90 mm	± 0.31 mm
Above 88.90 to 101.60 mm	± 0.36 mm
Above 101.60 to 114.3mm	± 0.43 mm
Above 114.30 to 152.40 mm	± 0.58 mm
Above 152.40 to 168.30 mm	± 0.65 mm
Above 168.30	± 0.75 mm

Note: 1) Any OD & Thickness not covered in this table may be supplied as per customer requirement (Clause No. -10)

STEEL TUBES FOR IDLERS FOR BELT CONVEYORS



Conforming to IS : 9295 - 1983

Outside Diameter mm	Thickness mm	Weight	
		Kg / Mtr.	Mtr. / Ton
63.50	3.65	5.39	185.53
63.50	4.50	6.55	152.67
76.10	3.65	6.52	153.37
76.10	4.50	7.95	125.78
88.90	4.05	8.47	118.06
88.90	4.85	10.05	99.48
88.90	6.30	12.83	77.93
101.60	4.05	9.74	102.64
101.60	4.85	11.57	86.42
101.60	6.30	14.81	67.52
114.30	4.50	12.19	82.00
114.30	5.40	14.50	68.96
114.30	6.30	16.78	59.60
139.70	4.50	15.00	66.65
139.70	4.85	16.13	62.00
139.70	5.40	17.89	55.90
139.70	6.30	20.73	48.25
165.10	4.50	17.80	56.18
165.10	4.85	19.17	52.18
165.10	5.40	21.27	47.02
165.10	6.30	24.67	40.53
219.10	5.40	28.50	35.09
219.10	6.30	33.06	30.26
219.10	7.10	37.12	26.95

TOLERANCES

Outside Diameter:	+/- 0.8%
Thickness:	+/- 10%
Weight	
Single Tube:	+/- 10%
For quantities per load Of 10 Ton Min.:	+/- 7.5%
Ovality	
Below 168.3mm OD:	(0.5MM)
168.3mm OD & above:	(1.0MM)
Eccentricity	5% of wall thickness

PHYSICAL PROPERTIES

Grade	Y.S. (Min.)	T.S.(Min.)	%age
	Mpa	Mpa	Elongation
ERW-210	210	330	20
ERW-240	240	410	18
ERW-310	310	450	15



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