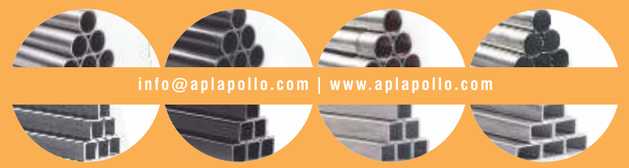

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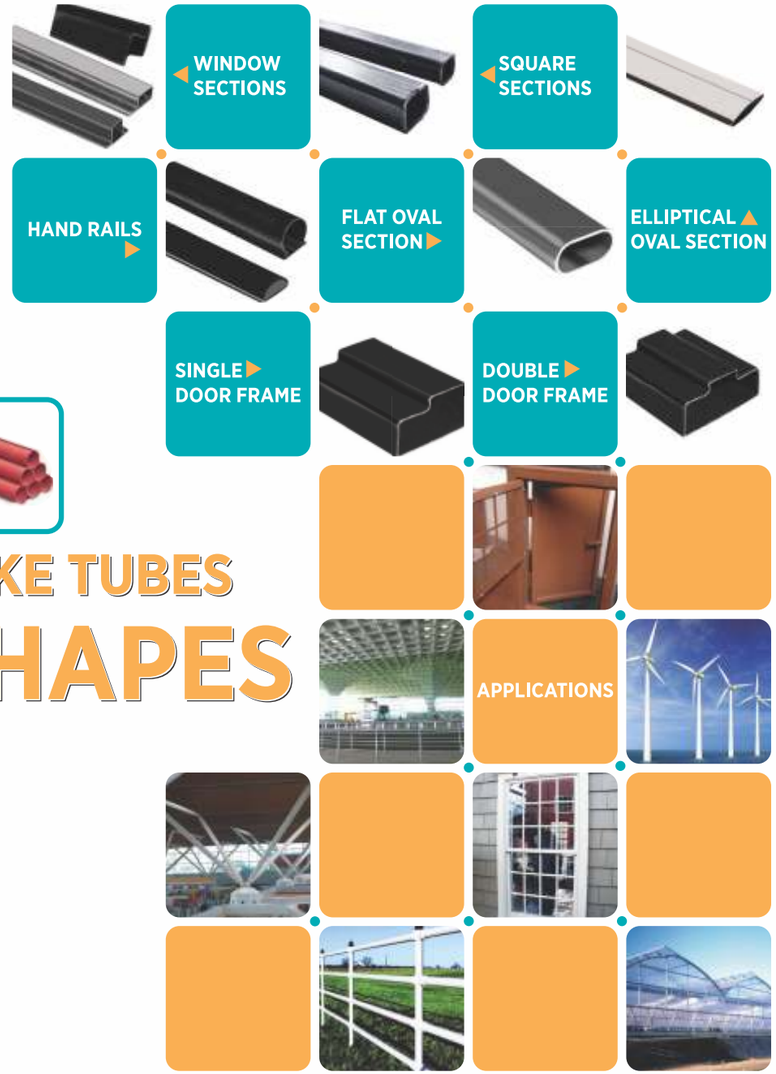
Concept & Design: www.studiog.co.in

Sudesh Group

APLAPOLLO
Tubes for every reason



WE DON'T MAKE TUBES
WE CRAFT SHAPES

- ROUND TUBES
- HOLLOW SECTIONS
  - › BLACK
  - › OILED & VARNISHED
  - › GALVANIZED
  - › PRE - GALVANIZED
  - › COLOR COATED

PRODUCT PROFILE

A JOURNEY FROM WHY APOLLO TO WOW APOLLO

Contents

Company Overview

In third decade of our existence, wherein we started our journey under the visionary leadership of Lt. Sh. Sudesh Gupta-founder chairman with an impeccable mission to carve an unparalleled position for ourselves in the industry, through our integrated manufacturing lines, world class brand, upstream and downstream tie-ups along with a rapidly growing domestic market and consumption centres across the world; we have come to acquire the leadership status in the industry.

Today, we are the largest player in the segment having multi-locational installed capacities (7 manufacturing units – 3 in Delhi NCR, 1 near Bengaluru, a new Greenfield plant in Hosur, Tamil Nadu,1 near Mumbai and 1 in Raipur, Chattisgarh). These latest Japanese technology based world class manufacturing facilities offer a comprehensive range of steel tubes in all ERW Tubes segments e.g. black, hollow section, galvanised and pre-galvanised tubes.

Moreover, to make our products available, just-in-time, across all the corners of India, we are extending our footprints via Company's own warehouse-cum-branches network. We are further contemplating to widen and deepen this network in Tier-II and III cities. The increased presence would enable the Company to address consumer needs quicker, access feedback better and capture marketplace realities more accurately.

With continuous investment in technologies, capacities and capabilities, we are aspiring to achieve US $1 Billion revenue and installed capacity of 2 Million TPA by 2018

Our products comply with various Indian as well as International standards, manufactured in various steel grades. Our product range includes Black, Hot-dipped galvanised, Pre-galvanised steel tubes square and rectangular hollow section from 15.88mm-355.6mm with thickness of 0.6mm to 10mm. The Company has quality certifications like ISO 9001-2008, OHSAS 18001-2007 & ISO 14001-2004 and safety certifications like 'CE' & 'UL' for Europe and USA. Among the user industries are urban infrastructure namely airports, metro stations, automotive segments like bus body manufacturers, construction, scaffoldings, water wells, windmills, bridges, pre-fabricated structures, furniture n fixtures, fire fighting systems, oil and gas pipe lines, general engineering purpose etc.

Such multi-pronged approach has truly added new shines of glory to our brand APL Apollo, a name that radiates with our strong convictions to outperform on our path of growth... quarter after quarter... year after year...

What sets us apart

Multi-locational Facilities

Being the only manufacturer having 7 plants spread across the North, West and South India, we are capable of delivering materials to all parts of the country in a shorter period than others.

Branch Network

Having the largest branch network of more than 24 branches spread in different states, we are capable of providing finished products to our customers according to their needs.

'0' Ovality

Being one of the few manufacturers in the world having online Rotatory Sizing Mill, we are capable of providing tubes with minimum ovality for high precision end use.

Technological Advancement

APL APOLLO has always been a pioneer in adapting the latest technologies whether it is pre-galvanised lines, cold saws, high speed mills from Europe and Japan or the unique rotatory sizing mills which help in providing you with the best quality rolled tubes.

Raw Material

We acquire 100% tested, best quality hot rolled coils for rolling our tubes which makes our tubes high pressure resistant with high strength.

Wide Range

APL Apollo is the only manufacturer in the industry to have a product range in all shapes that vary from round tubes to hollow section, 15.88mm-355.6mm in outer diameter, 0.6 mm to 10.0 mm in wall thickness, 3mtrs to 12mtrs in length and surface protection such as self-coated, oil/varnished, hot dip galvanised and pre-galvanised.

Bur-free Ends

We have cold saws installed on the mills, which provide bur free ends of hollow section that helps in easy welding and joining of the tubes and providing strength to them. Apart from this we do end-facing of the round tubes which provides 100% bur-free end tubes.

Brand Equity

We market our products under APL APOLLO brand which enjoys a good reputation not only in India but in overseas markets as well.

Bundling Facility

Installed with automatic bundling machines, we are capable of providing a proper bundled pack of tubes which provides an advantage of proper handling and also helps in reducing damages.

Certifications

The Company's products are certified by reputed international agencies like Underwrites' Laboratories (USA) and CE (Europe); It received the Recognised Export House status and is also ISO 9001:2008, ISO14001:2004 and OHSAS 18001:2007 certified. additionally, all its products are BIS-marked.

Quality

we are

in AIRPORTS

An Aspect That Brings Respect

Quality has always been synonymous with customer satisfaction, and that's how we aim at it. Stringent quality checks, ISO compliance, and rigorous product testing we do is all for the sake of unparalleled quality.

APL Apollo Tubes Limited is an integrated management system certified company having ISO 9001 : 2008, ISO 14001 : 2004 and OHSAS 18001 : 2007. It has strong domestic customer base and exports to over 25 countries. We believe that the best way to ensure quality maintenance is by installing equipments and adapting processes that are capable of producing it.

We have been living up to the continuously changing market scenarios while maintaining one of the best infrastructures in the industry. The superior quality black and galvanized steel tubes are produced on modern high speed tube mills based on the latest technology of world leader M/s Kusakabo of Japan. Apart from complete in-house quality inspection facilities at various stages starting from procurement of raw material to final dispatch of finished goods, we have complete infrastructure of Coil Slitting. Tube Making, End Facing, Hydrotesting, Pickling & Galvanizing and Threading & Bundling.

Our mills are fully computerized and operate at a speed of 100 meters/minute ensuring steel tubes production with accurate roundness, straightness, length and strong weld joints. These mills possess quick size changing facility with spare cassettes which reduces the down time and enables faster delivery.

We have 'Online NDT' Eddy Current Testing which works in synchronization with automatic sorting system installed at our plant ensuring automatic segregation of Good Tubes and Bad Tubes. This system not only marks out the rejects but also ensures efficient monitoring of equipment performance and rejection levels. While our customers get Eddy Current tested quality tubes, the constantly monitored quality index yields productivity advantage. Better yield because of low rejections gives direct price competitiveness to our products.

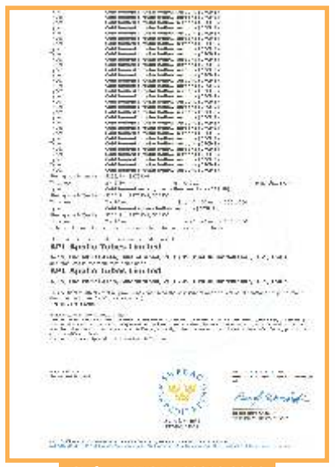
With our in-built modern quality control systems WE NOT ONLY CHECK QUALITY, WE PRODUCE IT.

Accreditations

ISO 9001 : 2008

ISO 14001 : 2004

OHSAS 18001 : 2007



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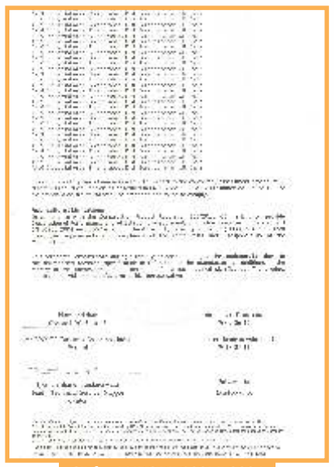

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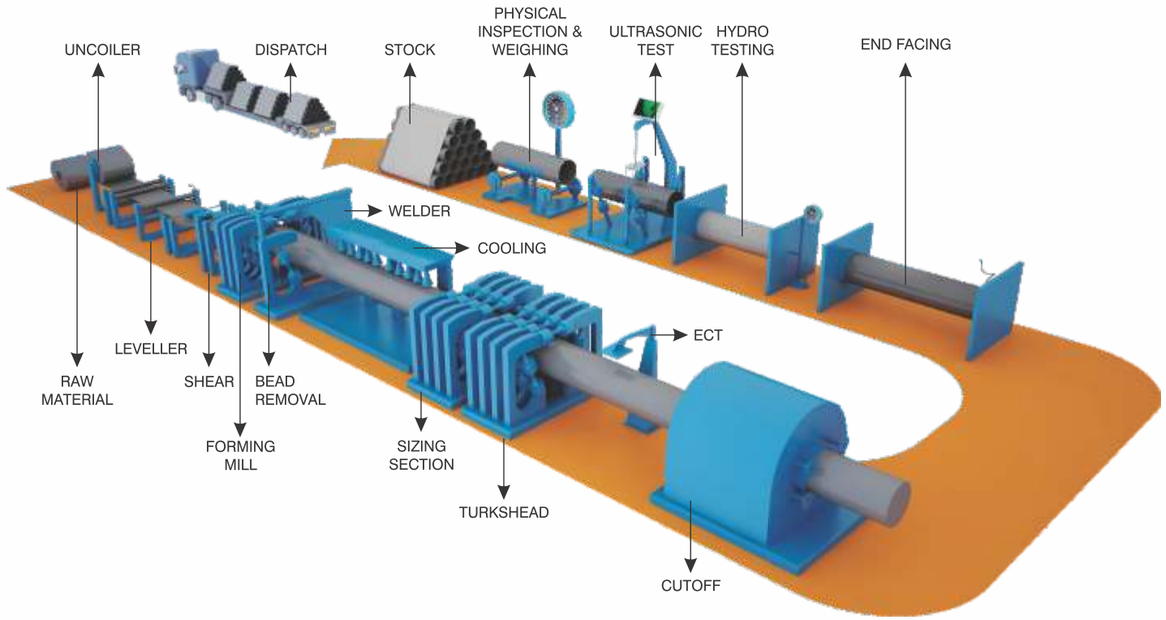
UL FOR USA

we are

in RAILWAY STATIONS

Manufacturing Process



BIS Approvals

IS : 1239 — 2004 (Part 1)

IS: 3589 — 2001

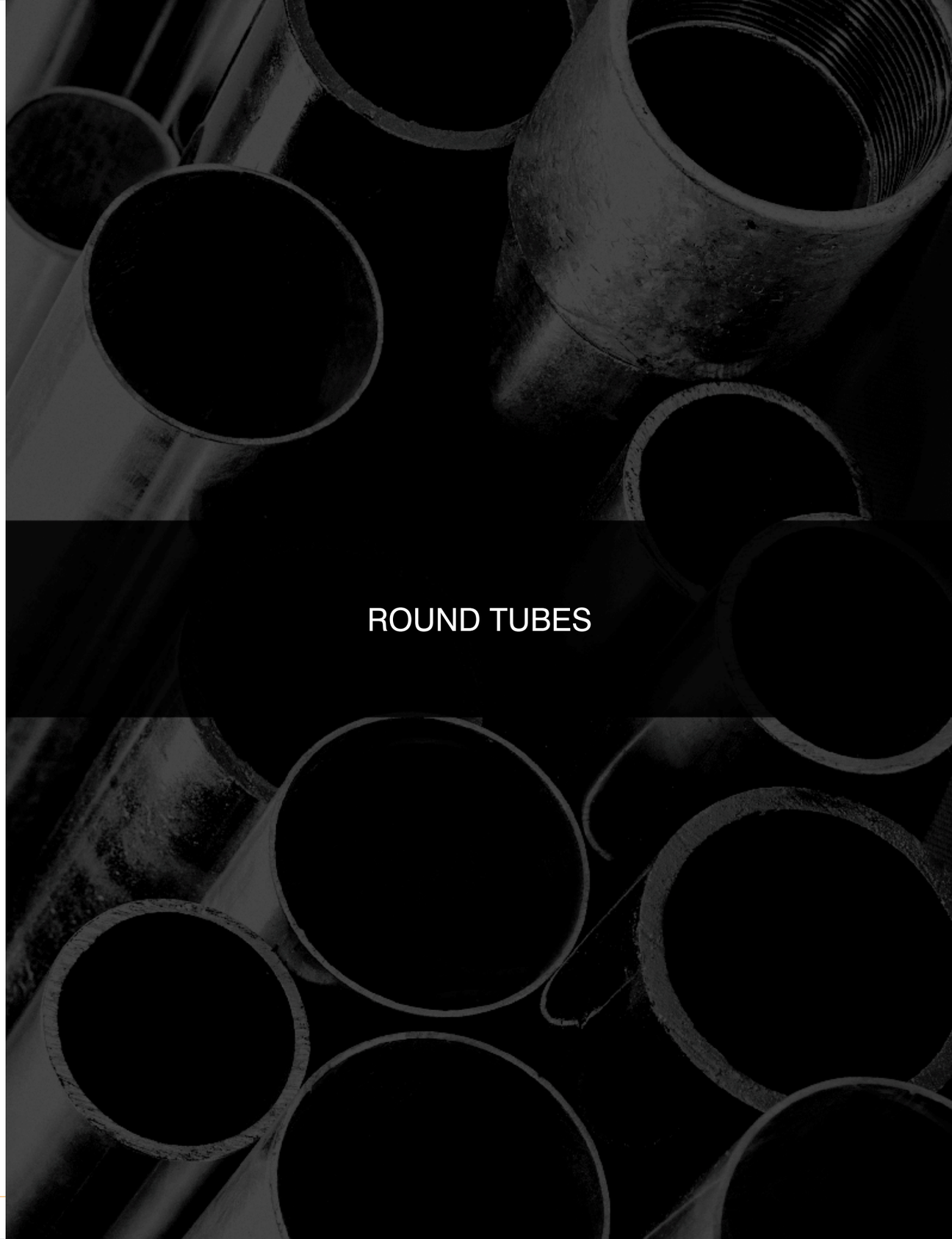
IS : 4923 — 1997

IS: 1161 — 2014

IS : 9295 — 1983

IS : 4270 — 2001

IS : 3601 — 2006



Round Tubes

Outside Diameter : 15.88mm-355.6mm
Thickness Range : 0.6mm-9.0mm
Length : 3.0 meter to 12.0 meter

APPLICATIONS

- Liquid Transmission
- Idlers
- Mechanical and General Engineering
- Structural
- Water and Sewage
- Water Wells
- Fire Protection
- Fencing

& Many more...

PRODUCTION STANDARDS

- IS:1239(Part-I)/2004, BS:1387-1985
- DIN2439,DIN2440,DIN2441,DIN2444
- EN10255:2004,EN10240:1998, EN10219:2006
- IS:9295-1983
- IS:3601-2006
- IS:1161-2014
- IS:3589/2001
- IS:4270:2001
- ASTM A-53 GR A&B SCH 20/40/80
- ASTM A-795
- ASTM A-135
- BSEN 39:2001

TESTS PERFORMED

- Hydrostatic Test
- Eddy Current Test
- Flatteninig/Flaring Test/Bend Test
- Chemical Analysis
- Other Tests as required by the Standard

FINISHING OPERATIONS

- Plain End
- Threaded and Coupled
- Grooved
- Cut Lengths

SURFACE PROTECTION

- Black (Self Colored Uncoated)
- Outside Protective Coating-Oil/Varnish
- Hot Dip Galvanised
- Pre-Galvanised

***NOTE**: For details please refer specification sheet.*


Black (SELF COLORED UNCOATED)


Oiled/Varnish


Hot Dip Galvanised


Pre-Galvanised

Technical Data of MS Black Round Tubes

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 and Series		Outside Diameter		Wall Thikness		Nominal Weight			
		Min.	Max			Plain End		Screwed & Socketed	
		mm	mm	mm	SWG	Kg/M	Meters/Tonne	Kg/M	Meters/Tonne
15	L	21.0	21.4	2.0	14	0.95	1052	0.96	1046
	M	21.0	21.8	2.6	12	1.21	826	1.22	820
	H	21.0	21.8	3.2	10	1.44	694	1.45	690
20	L	26.4	26.9	2.3	13	1.38	725	1.39	719
	M	26.5	27.3	2.6	12	1.56	641	1.57	637
	H	26.5	27.3	3.2	10	1.87	535	1.88	532
25	L	33.2	33.8	2.6	12	1.98	505	2.00	500
	M	33.3	34.2	3.2	10	2.41	415	2.43	411.5
	H	33.3	34.2	4.0	8	2.93	341	2.95	339
32	L	41.9	42.5	2.6	12	2.54	394	2.57	389
	M	42.0	42.9	3.2	10	3.1	322	3.13	319
	H	42.0	42.9	4.0	8	3.79	264	3.82	262
40	L	47.8	48.4	2.9	11	3.23	310	3.27	306
	M	47.8	48.8	3.2	10	3.56	281	3.60	278
	H	47.9	48.8	4.0	8	4.37	229	4.41	227
50	L	59.6	60.2	2.9	11	4.08	245	4.15	241
	M	59.7	60.8	3.6	9	5.03	199	5.10	196
	H	59.7	60.8	4.5	7	6.19	161	6.26	160
65	L	75.2	76	3.2	10	5.74	175	5.83	171.5
	M	75.3	76.6	3.6	9	6.42	156	6.54	153
	H	75.3	76.6	4.5	7	7.93	126	8.05	124
80	L	87.9	88.7	3.2	10	6.72	149	6.89	145
	M	88.0	89.5	4.0	8	8.36	120	8.53	117
	H	88.0	89.5	4.8	6	9.9	101	10.10	96
100	L	113.0	113.9	3.6	9	9.75	102	10.00	100
	M	113.1	115	4.5	7	12.2	82	12.50	80
	H	113.1	115	5.4	5	14.5	69	14.80	67.5
125	M	138.5	140.8	4.8	6	15.9	63	16.40	61
	H	138.5	140.8	5.4	5	17.9	56	18.40	54
150	M	163.9	166.5	4.8	6	18.9	53	19.50	51
	H	163.9	166.5	5.4	5	21.3	47	21.90	46

Thickness & Mass are applicable for Black & Galvanised Steel Tubes as per clause 8.1.1 of IS : 1239 (Part-1) 2004
This specification conforms to CE Mark conferred Det Norske Veritas, Netherlands.

Tolerance

A - Thickness	Tolerance	B- Weight	Tolerance	Length Tolerance
1. Light Tubes	+ not limited -8%	1. Single Tube (Light Series)	+10% -8%	
2. Medium & Heavy Tubes	+ not limited -10%	2. Single Tube (Medium & Heavy Series)	±10%	Unless otherwise Specified 4 to 7 mtrs. Can also be supplied in Fix Lengths ±5cm.
		3. For quantities per load of 10 tonnes minimum (Light Series)	+7.5% - 5%	
		4. For quantities per load of 10 tonnes minimum (Medium and Heavy Series)	±7.5%	

ERW Steel Tubes for idlers for Belt Conveyors as per IS : 9295 -1983 Dimensions and Nominal Masses

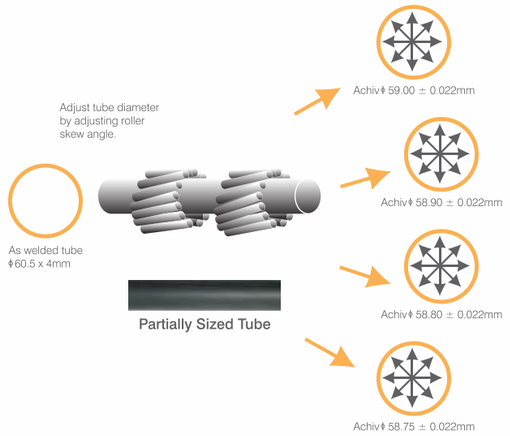
Outside Diameter	Thickness	Mass	Meters
mm	mm	Kg./Mtr.	Tonne
63.50	3.65	5.39	186
	4.05	5.94	168
	4.50	6.55	153
	4.85	7.01	143
	5.40	7.74	129
	6.30	8.89	112
76.10	3.65	6.52	153
	4.05	7.20	139
	4.50	7.95	126
	4.85	8.52	117
	5.40	9.42	106
	6.30	10.84	92
88.90	4.05	8.74	118
	4.50	9.37	107
	4.85	10.05	99
	5.40	11.12	90
	6.30	12.83	78
101.60	4.05	9.74	103
	4.50	10.78	93
	4.85	11.57	86
	5.40	12.81	78
	6.30	14.81	68
114.30	4.50	12.19	82
	4.85	13.09	76
	5.40	14.50	69
127.0	4.50	13.59	74
	4.85	14.61	68
	5.40	16.19	62
	6.30	18.75	53
139.70	4.50	15.00	67
	4.85	16.13	62
	5.40	17.89	56
	6.30	20.73	48
152.40	4.50	16.41	61
	4.85	17.65	57
	5.40	19.58	51
	6.30	22.70	44
159.00	4.50	17.15	58
	4.85	18.44	54
	5.40	20.46	49
	6.30	23.72	42
165.10	4.50	17.82	56
	4.85	19.17	52
	5.40	21.27	47
	6.30	24.67	41
168.30	4.50	18.18	55
	4.85	19.55	51
	5.40	21.69	46
	6.30	25.17	40
193.70	5.40	25.08	40
	6.30	29.12	34
219.10	5.40	28.46	35
	6.30	33.06	40

Outside Diameter : ±0.75%
Ovality below 168.3mm : 0.5mm
Ovality including 168.3mm & above : 1.0mm
Weight Kg/Mtr : Single Tube : ±10%
For Truck Load of 10 Tonnes : ±7.5%
Thikness : ±10%
Grade : ERW Grade YST 210 & YST 240

Advantages of RSM Technology

- **In between Non-Standard Diameter possible online**
  In between Non-Standard Diameter can be produced by online adjustment without change of toolings. Diameter accuracy and roundness achieved with Rotary Sizing technology is of very high standard as compared to conventional sizing mills.

- **Surface Finish Improves**
  Roll Marks caused by conventional sizing method are completely eliminated and the surface finish improves by burnish effect of Rotary Sizing operation and due to non-existence of large speed differential between tubes and sizing tooling as in conventional mills, Ra, Ry & Rz can be reduced by as much as 30%.

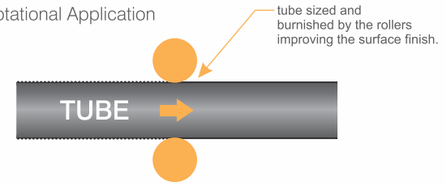


- **Even and Low Residual Stress**
  Typically two cages are used in RSM which are counter rotating. This is required to eliminate any torsion load which may be induced into the tube by the process. This results in even reduction on full surface of tube Sizing the tube in only 2 passes keeps the residual stress low thereby preserving more of the materials allongation post tube mill manipulation.

  In tubes processed through RSM, there is no significant change in residual stress in the traverse direction. In the longitudinal direction there is a large reduction in the surface residual tensile stress.

END USES

- Idler Tubes for Conveyors
- Propeller Shaft Tubes
- Bobbin Tubes for Textile Industry
- High Precision Diameter
- High Rotational Application



Rotating RSM Roller and Cage

ERW Steel Tubes for Water & Sewage Purpose Conforming to IS : 3589/2001

N.B.size	Out side Diameter	Wall Thickness	Plain End	
			Mass	Meters
mm	mm	mm	Kg./Mtr.	Tonne
150	168.3	2.60	10.60	94
		3.20	13.00	77
		4.00	16.20	62
		4.50	18.20	55
		5.00	20.10	50
		6.30	25.20	40
175	193.7	2.60	12.30	81
		3.60	16.90	59
		4.50	21.00	48
		6.30	29.10	34
200	219.1	2.60	13.90	72
		3.60	19.10	52
		4.50	23.80	42
		6.30	33.10	30
250	273	3.60	23.90	42
		4.00	26.50	38
		5.00	33.90	30
		6.30	41.40	24
		7.10	46.57	21
		8.00	52.30	19
		10.00	64.90	15
300	323.9	4.00	31.60	32
		5.00	35.40	28
		5.60	44.00	23
		7.10	55.50	18
350	355.6	5.60	48.33	21
		6.40	55.11	18
		7.10	61.02	16
		7.90	67.74	15
		8.70	74.42	13
		9.50	81.08	12

Tolerance

a. Outside diameter of pipe	± 0.75%
b. Ovality	= Max. 1%
c. Thickness	± 10%
d. Length	
Unless other specified, length are in single random length of 4 to 7 meter.	-
e. Mass per Truck Load of 10 Tonnes of above	± 7.5%

Physical Properties

Grade	T.S. Mpa MIN	Y.S. Mpa MIN	% Age Elongation of MIN
Fe 330	330	195	20
Fe 410	410	235	18

Note
These are preferred OD & thicknesses. Other sizes not included may be supplied as specified by purchaser.

ERW Steel Tubes For Water Wells Conforming To IS : 4270/2001 Plain End Casing Pipes/ screwed And Socketed Casing Pipes

N.B.size	Out side Diameter	Wall Thickness	Nominal Weight		Socket OD	Socket Length (Min)
mm	mm	mm	Kg/m	m/Tone	mm	mm
100	114.3	5.0	13.48	74	130	144.3
	114.3	5.4	14.5	69	157	120.6
125	141.3	5.0	16.8	59		
	141.3	5.4	18.1	55	184	127
		7.1	23.5	42.5		
150	168.3	5.4	20.13	50	211.16	152.4
	168.3	5.4	21.6	46		
		7.1	28.2	35.5	237	152.4
175	193.7	5.4	25.1	40		
	193.7	6.4	29.6	34	291	177.8
		8.0	36.6	27		
200	219.1	5.4	28.46	35	346	177.8
	219.1	6.4	33.6	30		
		8.0	41.6	24		
250	273.1	7.1	46.57	21		
	273.1	8.0	52.3	19		
		10.0	64.9	15		
300	323.9	7.1	55.47	18		
	323.9	8.0	62.3	16		
		10.0	77.4	13		
350	355.6	5.6	48.33	21		
		6.4	55.11	18		
		7.1	61.02	16		
		7.9	67.74	15		
		8.7	74.42	13		
		9.5	81.08	12		

Tolerance

a. Outside diameter of pipe	± 1.0%
b. Thickness	
Up to 406.4mm OD	(+) 15% (+)12.5%
c. Weight	
- Single Tube	(+)10% (+)8%
d. Length	
Unless otherwise specified	4 to 7 mtrs

**There are prefered included OD & thickness. Other sizes not include may be supplied as specified by purchaser

Physical Properties

Grade	Y.S. (Min) Mpa MIN	T.S. (Min) Mpa MIN	% Age MIN. Elongation on 5.65/So=Gl.
Fe 410	235	410	15%

Steel Tubes for Structural Purposes Conforming to IS:1161 : 2014

N.B.	Outside Diameter	Thickness	Nominal Weight		Calculated Nominal Weight	
			Black Tube		Galvanized Tubes	
			Plain End		Plain End	
	mm	mm	Kg/M	Mtr/Tonne	Kg/M	Mtr/Tonne
15	21.3	2	0.947	1058	1	1003
		2.6	1.21	826	1.26	794
		3.2	1.44	694	1.49	671
20	26.9	2.3	1.38	725	1.43	699
		2.6	1.56	641	1.61	221
		3.2	1.87	535	1.92	521
25	33.7	2.6	1.98	505	2.03	493
		3.2	2.41	415	2.46	407
		4	2.93	341	2.98	336
32	42.4	2.6	1.54	394	2.62	382
		3.2	3.1	323	3.18	314
		4	3.79	264	3.87	258
40	48.3	2.9	3.23	310	3.34	299
		3.2	3.56	281	3.67	272
		4	4.37	229	4.48	223
50	60.3	2.9	4.08	245	4.2	238
		3.2	5.03	199	5.15	194
		4	6.19	162	6.31	158
65	76.1	2.9	5.24	191	5.38	186
		3.6	6.42	156	6.57	152
		4.5	7.93	126	8.1	123
80	88.9	3.2	6.72	149	6.9	145
		4	8.36	120	8.54	117
		4.8	9.9	101	10.08	99
90	101.6	3.6	8.7	115	8.97	111
		4	9.63	144	7.2	139
		4.8	11.5	87	11.77	85
100	114.3	3.6	9.75	103	9.97	100
		4.5	12.2	82	12.42	81
		5.4	14.5	69	14.72	68
110	127	4.5	13.6	74	13.9	72
		4.8	14.5	69	14.8	68
		5.4	16.2	62	14.8	61
125	139.7	4.5	15	67	15.25	66
		4.8	15.9	63	16.15	62
		5.4	17.9	56	18.15	55
135	152.4	4.5	16.4	61	16.78	60
		4.8	17.5	57	77.88	56
		5.4	19.6	51	19.98	55
150	165.1	4.5	17.8	56	18.2	55
		4.8	18.9	52	19.8	51
		5.4	21.3	47	21.7	46
150	168.3	4.5	18.2	55	18.66	54
		4.8	19.4	52	19.88	50
		5.4	21.7	46	22.24	45
		6.3	25.2	40	41	24
175	193.7	4.8	22.4	45	22.94	44
		5.4	25.1	40	25.64	39
		5.9	27.3	37	27.84	36
200	219.1	4.8	25.4	39	25.95	39
		5.6	29.5	34	30.05	33
		5.9	31	32	31.55	32
225	244.5	5.9	34.7	29	35.36	28
250	273	5.9	38.9	26	39.68	25
300	323.9	6.3	49.3	20	50.28	20
350	355.6	8	68.6	15	69.28	14

we are in BRIDGES

Tensile Properties

Grade	Y.S. (Min) Mpa (KG/MM^2)	T.S. (Min) Mpa (KG/MM^2)	% Age Elongation on
YST-210	210(21.42)	330(33.66)	20
YST-240	240(41.82)	410(41.82)	17
YST-310	310(31.62)	450(45.60)	14

Weight	Tolerance
Single Tube	± 10%
10 Ton Lot	± 7.5%

Tolerance

1. On outside diameter up to & including 48.3mm= +0.4mm/ -0.8mm
2. Over 48.3 mm= +/- 1%

Thickness	Tolerance
For All Size Welded Tubes	± 10%

APL Apollo Tubes Limited offers a broad range of high quality Scaffolding Components. The product range includes SCAFFOLD TUBES as per EN – 39. Scaffolding Components includes CUPLOCK SCAFFOLDING, WEDGELOCK SCAFFOLDING & SUPPORT TUBES, FITTINGS (COUPLERS) and FORMWORK COMPONENTS and ACCESSORIES as well as a vast range of other components.

Tube Scaffoldings are widely used for supporting men and material, tools and tackles during construction, alteration, demolition and maintenance work because of their several advantages over conventional type of timber/bamboo scaffolding.

We offer Scaffolding Tubes which also includes complete range of components that are strong, safe, durable and economical. These items are ideally suited for wide application in construction, maintenance, alteration and demolition of structures.

Scaffolding Tubes

Size		Thickness		Ovality		Weight	
Inches	mm	Inches	mm	Inches	mm	Inches	mm
1 ½	48.3	0.126	3.2	0.02	0.5	2.392	3.56
1½	48.3	0.157	4.0	0.02	0.5	2.937	4.37

Tolerance

Outside Diameter	Thickness	Weight
± 0.5	±/- 10%	± 7.5% On Single Tube

STEEL GRADE : S235GR

MECHANICAL PROPERTIES

YIELD STRENGTH : 235 MPA MIN.
TENSILE STRENGTH : 340 / 520 MPA

CHEMICAL COMPOSITION

CARBON : 0.20% MAX.
SILICON : 0.05% MAX.
MANGANESE : 0.40% MAX.
PHOSPHOROUS : 0.040% MAX.
SULPHUR : 0.045% MAX.
ALUMINIUM : 0.02% MIN.

END FINISH : SQUARE CUT.
STRAIGHTNESS : 1MM IN 500 MM
FLATTENING TEST : TWO STAGES
FLATTEN UPTO 75% OF TUBE DIA FOR WELD.
FLATTEN UPTO 60^ OF TUBE DIA FOR MATERIAL

ZINC COATING : **45 MICRONS MINIMUM OUTSIDE**

MARKING : EN 39-APL APOLLO TUBES – 3.2/4.0
DELIVERY CONDITION :
a) AS ROLLED CONDITION (WITHOUT PROTECTION)
b) HOT DIP GALVANISED

we are in SCAFFOLDS

Technical data of IS: 3601 2006 Tubes for Mechanical & General Engg. Purpose

N.B.size		Approx O.D. (mm)	Thickness (mm)	Wt. Kg/ Mtr.	Meters Per Tonne
mm	In				
15	½"	21.3	1.8	0.866	1155
			2.0	0.952	1050
			2.6	1.2	833
			3.2	1.43	699
			4.0	1.71	585
20	3/4"	26.9	1.8	1.11	901
			2.0	1.23	813
			2.3	1.4	714
			2.6	1.56	641
			3.2	1.87	535
			4.0	2.26	442
25	1"	33.7	2.0	1.56	641
			2.3	1.78	562
			2.6	1.99	503
			3.2	2.41	415
			4.0	2.93	341
			4.5	3.24	309
32	1.25"	42.4	2.3	2.27	441
			2.6	2.55	392
			3.2	3.09	324
			3.6	3.44	291
			4.0	3.79	264
			5.0	4.61	217
			5.4	4.93	203
40	1.5"	48.3	2.3	2.61	383
			2.6	2.93	341
			2.9	3.25	308
			3.2	3.56	281
			4.0	4.37	229
			4.9	5.23	191
			5.0	5.34	187
			5.6	5.900	170
			5.9	6.160	162
50	2"	60.3	2.3	3.29	304
			2.6	3.7	270
			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
			5.0	6.82	147
			5.6	7.55	133
			6.3	8.39	119
65	2.5"	76.1	2.6	5.24	191
			3.2	5.75	174
			3.6	6.44	155
			4.0	7.11	141
			4.5	7.95	126
			5.0	8.777	114
80	3"	88.9	5.4	9.42	106
			6.3	10.8	93
			7.1	12.1	83
			2.9	6.15	163
			3.2	6.76	148
			4.0	8.38	119
			5.0	10.3	97
			5.4	11.1	90
			5.6	11.5	87
			6.3	12.8	78
			8.0	16	63

Grade: ERW-WP-100

Note: These sizes would be included in our regular range of production in the near future. Sizes and Thicknesses other than listed above can be supplied on order to order basis.

we are in FURNITURE

Fence Framework (Size and Dimension)

Fence O.D.	Doc. Equlv.	Wall Inches	Gauge	Weight lbs/ft	Pcs/Bundle
1 3/8"	1.315	.047	18	0.636	91
1 3/8"	1.315	.055	17	0.740	91
1 3/8"	1.315	.065	1	0.868	91
1 3/8"	1.315	.072	15	0.956	91
1 3/8"	1.315	.080	14	1.055	91
1 3/8"	1.315	.104	12	1.350	91
1 3/8"	1.315	.133	SCH.40	1.679	60
1 5/8"	1.660	.047	18	0.810	61
1 5/8"	1.660	.055	17	0.943	61
1 5/8"	1.660	.065	16	1.107	61
1 5/8"	1.660	.072	15	1.221	61
1 5/8"	1.660	.072	14	1.430	61
1 5/8"	1.660	.095	13	1.590	61
1 5/8"	1.660	.111	12	1.836	61
1 5/8"	1.660	.140	SCH.40	2.273	42
1 7/8"	1.900	.047	18	0.930	61
1 7/8"	1.900	.055	17	1.084	61
1 7/8"	1.900	.065	16	1.274	61
1 7/8"	1.900	.072	15	1.406	61
1 7/8"	1.900	.090	13	1.740	61
1 7/8"	1.900	.105	12	2.015	61
1 7/8"	1.900	.120	11	2.281	61
1 7/8"	1.900	.145	SCH.40	2.718	36
2 3/8"	2.375	.047	18	1.169	37
2 3/8"	2.375	.055	17	1.363	37
2 3/8"	2.375	.065	16	1.604	37
2 3/8"	2.375	.076	15	1.866	37
2 3/8"	2.375	.095	13	2.313	37
2 3/8"	2.375	.115	11	2.780	37
2 3/8"	2.375	.130	10	3.117	37
2 3/8"	2.375	.154	SCH.40	3.653	26
2 7/8"	2.875	.110	12	3.248	19
2 7/8"	2.875	.130	10	3.815	19
2 7/8"	2.875	.160	12	4.640	19
2 7/8"	2.875	.203	SCH.40	5.793	18
3 1/2"	3.500	.140	9	5.030	19
3 1/2"	3.500	.160	8	5.710	19
3 1/2"	3.500	.160	SCH.40	7.576	14
4"	4.000	.140	9	5.780	19
4"	4.000	.160	8	6.570	19
4"	4.000	.226	SCH.40	9.109	12
6 5/8"	6.625	.28	SCH.40	18.970	N / A
8 5/8"	8.625	.322	SCH.40	28.550	N / A

Note: These sizes would be included in our regular range of production in the near future. Sizes and Thicknesses other than listed above can be supplied on order to order basis.

Technical Data of Pipes Conforming to ASTM A-53* Gr. A&B Sch. 20/40/80

Nominal Bore		Outside Diameter		Schedule	Wall Thickness		Weight of Black Pipes Plain End			No. of pcs. per Bundle
mm	Inch	mm	Inch		mm	Inch	Kg/Mtr.	Lbs/Ft.	Ft./Ton.	
15	1/2	21.3	0.84	40	2.77	0.109	1.27	0.85	2592	120
				80	3.73	0.147	1.62	1.09	20230	
20	¼	26.7	1.05	40	2.87	0.113	1.69	1.13	1945	90
				80	3.91	0.154	2.2	1.48	1490	
25	1	33.4	1.315	40	3.38	0.133	2.5	1.68	1311	60
				80	4.55	0.179	3.24	2.17	1016	
32	1¼	42.2	1.66	40	3.56	0.14	3.39	2.27	967	42
				80	4.85	0.191	4.47	3	735	
40	1 ½	48.3	1.9	40	3.68	0.145	4.05	2.72	810	36
				80	5.08	0.2	5.41	3.63	607	
50	2	60.3	2.375	40	3.91	0.154	5.44	3.66	603	26
				80	5.54	0.218	7.48	5.03	438	
65	2 ½	73	2.875	40	5.16	0.203	8.63	5.8	380	18
				80	7.01	0.276	11.41	7.67	287	
80	3	88.9	3.5	40	5.49	0.216	11.29	7.58	291	14
				80	7.62	0.3	15.27	10.26	215	
90	3 ½	101.6	4	40	5.74	0.226	13.57	9.12	242	12
				80	8.08	0.318	18.63	12.52	176	
100	4	114.3	4.5	40	6.02	0.237	16.07	10.8	204	10
				80	8.56	0.337	22.32	15	147	
125	5	141.3	5.56	40	6.55	0.258	21.77	14.63	151	8
150	6	168.3	6.625	40	7.11	0.028	28.26	18.99	116	7
200	8	219.1	8.625	20	6.35	0.25	33.31	22.38	98	5
				30	7.04	0.277	36.31	24.72	89	3
				40	8.18	0.322	42.55	28.58	77	3
250	10	273	10.748	20	6.35	0.25	41.75	28.06	79	3
				30	7.8	0.307	51.01	34.27	64	3
				40	9.27	0.365	60.29	40.52	54	3
300	12	323.8	12.748	20	6.35	0.25	49.71	33.41	66	3
				30	8.38	0.33	65.18	43.1	50	3
				40	9.52	0.375	73.78	49.61	44	3
350	14	355.6	14	10	6.35	0.25	54.69	36.75	60	3
				20	7.92	0.312	67.9	45.65	48	3
				30	9.52	0.375	81.25	54.62	40	3

*This specification conforms to UL certification conferred by Underwriters Laboratories, USA

Chemical Properties				Composition, Max.%					
	Carbon	Manganese	Phosphorus	Sulphur	Copper	Nickel	Chromium A	Molybdenum A	Vanadium A
Grade A	0.25	0.95	0.05	0.045	0.5	0.4	0.4	0.15	0.08
				80	3.73	0.147	1.62	1.09	20230
Grade B	0.3	1.2	0.05	0.045	0.5	0.4	0.4	0.15	0.08

Tolerance

Outside Diameter	Pipe Size upto & including Dn40	+1-0.4mm
	Pipe Size DN 50 or larger	+1-1%
		Thickness: -12.5(max)
		Weight: +10%

Mechanical Properties

	Grade A	Grade B
Yield Strength	205Mpa(Min)	240Mpa(Min)
Tensile Strength	330 Mpa(Min)	415Mpa(Min)
Elongation%	As per ASTM A-%53, Table x 4.1, 4.2	

we are in GAS PIPES

ASTM A-795* (Black & Galvanised Steel Pipes for Fire Protection)

Nominal Bore		Outside Diameter		SCH 10				No. of Piece per Bundle	SCH 40/30*				No. of Piece per Bundle
				Wall Thickness		Weight Plain End			Wall Thickness		Weight Plain End		
mm	inch	mm	inch	mm	inch	mm	inch		mm	inch	mm	inch	
20	3/4	26.7	1.050	2.11	0.083	1.28	0.96	90	2.87	0.113	1.69	1.13	90
25	1	33.4	1.315	2.77	0.109	2.09	1.41	90	3.38	0.133	2.50	1.68	60
32	1 1/4	42.2	1.660	2.77	0.109	2.69	1.81	61	3.56	0.14	3.39	2.27	42
40	1 1/2	48.3	1.900	2.77	0.109	3.11	2.09	61	3.68	0.145	4.05	2.72	36
50	2	60.3	2.375	2.77	0.109	3.93	2.64	37	3.91	0.154	5.45	3.66	26
65	2 1/2	73.0	2.875	3.05	0.120	5.26	3.53	29	5.16	0.205	8.68	5.80	18
80	3	88.9	3.500	3.05	0.120	6.46	4.34	24	5.49	0.216	11.29	7.58	14
90	3 1/2	101.6	4.000	3.05	0.120	7.41	4.98	21	5.74	0.226	13.58	9.12	12
100	4	114.3	4.500	3.05	0.120	8.37	5.62	19	6.02	0.237	16.09	10.8	10
125	5	141.3	5.563	3.4	0.134	11.58	7.78	10	6.55	0.258	21.79	14.63	8
150	6	168.3	6.625	3.4	0.134	13.85	9.30	10	7.11	0.280	28.29	18.99	7
200	8	219.1	8.625	4.78	0.188	25.26	16.96	5	7.04*	0.277	36.82	24.72	5

*This specification conforms to UL certification conferred by Underwriters Laboratories, USA

ASTM A-135 GRADE A&B (Black and Galvanised Steel Pipes)

Nominal Bore		Outside Diameter		SCH 10				No. of Piece per Bundle
				Wall Thickness		Weight Plain End		
mm	inch	mm	inch	mm	inch	mm	inch	
20	3/4	26.7	1.050	2.11	0.083	1.28	0.96	90
25	1	33.4	1.315	2.77	0.109	2.09	1.41	90
32	1 1/4	42.2	1.66	2.77	0.109	2.69	1.81	61
40	1 1/2	48.3	1.900	2.77	0.109	3.11	2.09	61
50	2	60.3	2.375	2.77	0.109	3.93	2.64	37
65	2 1/2	73.0	2.875	3.05	0.120	5.26	3.53	29
80	3	88.9	3.500	3.05	0.120	6.46	4.34	24
90	3 1/2	101.6	4.000	3.05	0.120	7.41	4.98	21
100	4	114.3	4.500	3.05	0.120	8.37	5.62	19
125	5	141.3	5.563	3.40	0.134	11.58	7.78	14

Tolerance

Outside Diameter	Pipes size upto & including Dn40	+1-0.4mm
	Pipes size DN 50 or latger	+1-1%
	Thickness	-12.5 (max)
	Weight	+10%

Mechanical Properties

	Grade A	Grade B
Yield Strengh	205 Mpa (Min)	240 Mpa (Min)
Tensile Strenght	330 Mpa (Min)	415 Mpa (Min)
Elongation %	35	30

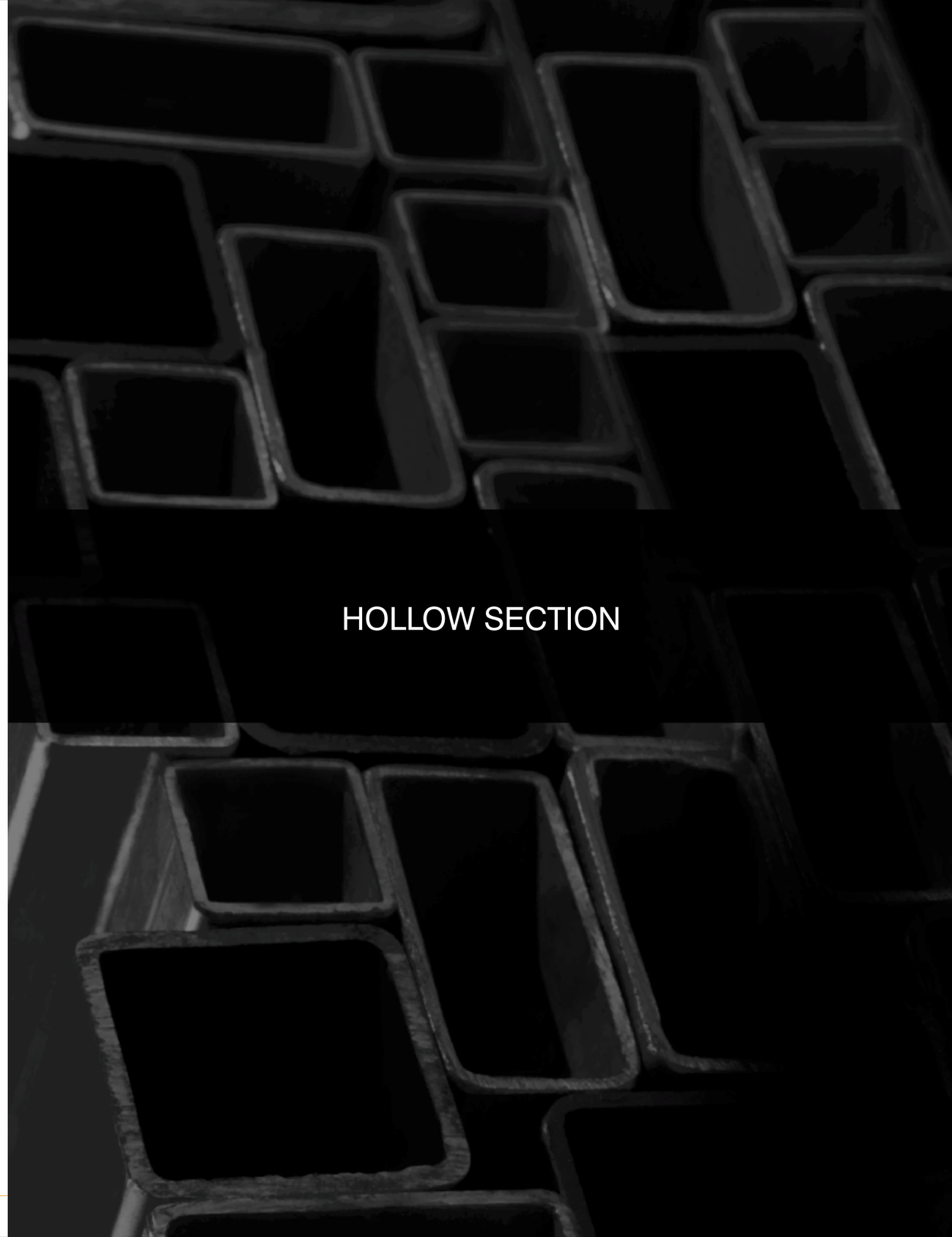
Chemical Properties

	Carbon	Manganese	Phosphorus	Sulphur
Grade A	0.25	0.05	0.035	0.035
Grade B	0.3	1.2	0.35	0.035

Galvanising

Minimum	0.490 kg/Sq Mtr.
Average	0.550 kg/Sq Mtr.

we are in FIRE FIGHTING SYSTEMS



Hollow Section

Size - **RHS** 26.5x13.5 - 300x200
SHS 12x12 - 255x255
Thickness: 0.6mm - 8.0mm
Length: 3.0 meter to 12.0 meter

APPLICATIONS

- Construction
- Machinery
- Automotive
- Furniture
- Storage System
- Transmission Tower
- Fencing

& Many more...

PRODUCTION STANDARD

- IS4923:1997
- EN10219-1:2006
- ASTM A-500

TESTS PERFORMED

- Visual and Dimensional Inspection
- Tensile Test
- Flatting and Flaring Test
- Impact Test
- Chemical Analysis
- Plain End-square cut
- Cut Lengths

SURFACE PROTECTION

- Black (Self Coloured uncoated)
- Varnish/Oil Coating
- Hot Dip Galvanized
- Pre-Galvanized

***NOTE**: For details please refer specification sheet.*

we are in METRO

Black (SELF COLORED UNCOATED)

Oiled/Varnish

Hot Dip Galvanised

Pre-Galvanised

Square Hollow Section (SHS) IS : 4923 : 1997/EN 10219-1 : 2006*/ASTM A-500

SHS	D	B	Thickness	Sec Area	Unit Wt	Moment of Inertia		Radius of Gyration		Elastic Modulus		Torsional Constants		Outer Surface Area Per Metre Length
DXB			T	A	W	I_{xx}	I_{yy}	R_{xx}	R_{yy}	Z_{xx}	Z_{yy}	I_T	C_T	
mm	mm	mm	mm	cm2	kg/m	cm4	cm4	cm	cm	cm3	cm3	cm4	cm3	m2/m
12 X 12	12	12	0.6	0.26	0.21	0.06	0.06	0.46	0.46	0.09	0.09	0.09	0.14	0.046
	12	12	0.8	0.34	0.27	0.07	0.07	0.45	0.45	0.12	0.12	0.12	0.18	0.045
	12	12	1.0	0.41	0.33	0.08	0.08	0.44	0.44	0.13	0.13	0.14	0.20	0.045
	12	12	1.2	0.48	0.38	0.09	0.09	0.43	0.43	0.15	0.15	0.16	0.23	0.044
	12	12	1.4	0.54	0.43	0.10	0.10	0.42	0.42	0.16	0.16	0.17	0.25	0.043
	12	12	1.6	0.60	0.47	0.10	0.10	0.41	0.41	0.17	0.17	0.19	0.26	0.043
15 x 15	15	15	0.6	0.34	0.26	0.11	0.11	0.58	0.58	0.15	0.15	0.18	0.23	0.058
	15	15	0.8	0.44	0.34	0.14	0.14	0.57	0.57	0.19	0.19	0.24	0.29	0.057
	15	15	1.0	0.53	0.42	0.17	0.17	0.56	0.56	0.23	0.23	0.28	0.34	0.057
	15	15	1.2	0.63	0.49	0.19	0.19	0.55	0.55	0.26	0.26	0.33	0.39	0.056
	15	15	1.4	0.71	0.56	0.21	0.21	0.54	0.54	0.28	0.28	0.37	0.43	0.055
	15	15	1.6	0.79	0.62	0.23	0.23	0.53	0.53	0.30	0.30	0.46	0.51	0.053
19 x 19	19	19	0.6	0.43	0.34	0.24	0.24	0.75	0.75	0.25	0.25	0.38	0.38	0.074
	19	19	0.8	0.57	0.44	0.31	0.31	0.74	0.74	0.32	0.32	0.49	0.49	0.073
	19	19	1.0	0.69	0.54	0.37	0.37	0.73	0.73	0.39	0.39	0.60	0.58	0.073
	19	19	1.2	0.82	0.64	0.42	0.42	0.72	0.72	0.44	0.44	0.70	0.67	0.072
	19	19	1.4	0.94	0.73	0.47	0.47	0.71	0.71	0.49	0.49	0.79	0.75	0.071
	19	19	1.6	1.05	0.82	0.51	0.51	0.70	0.70	0.54	0.54	0.88	0.82	0.071
	19	19	1.8	1.16	0.91	0.55	0.55	0.69	0.69	0.58	0.58	0.95	0.88	0.070
	19	19	2.0	1.26	0.99	0.58	0.58	0.68	0.68	0.61	0.61	1.02	0.93	0.069
	19	19	2.2	1.35	1.06	0.61	0.61	0.67	0.67	0.64	0.64	1.09	0.98	0.068
20 x 20	20	20	0.6	0.46	0.36	0.28	0.28	0.79	0.79	0.28	0.28	0.45	0.43	0.078
	20	20	0.8	0.60	0.47	0.36	0.36	0.78	0.78	0.36	0.36	0.58	0.54	0.077
	20	20	1.0	0.73	0.58	0.43	0.43	0.77	0.77	0.43	0.43	0.70	0.65	0.077
	20	20	1.2	0.87	0.68	0.50	0.50	0.76	0.76	0.50	0.50	0.82	0.75	0.076
	20	20	1.4	0.99	0.78	0.56	0.56	0.75	0.75	0.56	0.56	0.93	0.84	0.075
	20	20	1.6	1.11	0.87	0.61	0.61	0.74	0.74	0.61	0.61	1.03	0.92	0.075
	20	20	1.8	1.23	0.96	0.65	0.65	0.73	0.73	0.65	0.65	1.13	1.00	0.074
	20	20	2.0	1.34	1.05	0.69	0.69	0.72	0.72	0.69	0.69	1.21	1.06	0.073
	20	20	2.2	1.44	1.13	0.73	0.73	0.71	0.71	0.73	0.73	1.29	1.12	0.072
25 x 25	25	25	1.6	1.43	1.12	1.28	1.28	0.94	0.94	1.02	1.02	2.12	1.54	0.095
	25	25	2.0	1.74	1.36	1.48	1.48	0.92	0.92	1.19	1.19	2.53	1.80	0.093
	25	25	2.6	2.16	1.69	1.72	1.72	0.89	0.89	1.38	1.38	3.04	2.12	0.091
	25	25	3.2	2.53	1.98	1.89	1.89	0.86	0.86	1.51	1.51	3.45	2.34	0.089
30 x 30	30	30	0.6	0.70	0.55	1.00	1.00	1.20	1.20	0.66	0.66	1.54	1.00	0.118
	30	30	0.8	0.92	0.72	1.29	1.29	1.19	1.19	0.86	0.86	2.02	1.29	0.117
	30	30	1.0	1.13	0.89	1.57	1.57	1.18	1.18	1.05	1.05	2.49	1.57	0.117
	30	30	1.2	1.35	1.06	1.83	1.83	1.17	1.17	1.22	1.22	2.93	1.84	0.116
	30	30	1.4	1.55	1.22	2.08	2.08	1.16	1.16	1.39	1.39	3.36	2.09	0.115
	30	30	1.6	1.75	1.38	2.31	2.31	1.15	1.15	1.54	1.54	3.77	2.32	0.115
	30	30	1.8	1.95	1.53	2.52	2.52	1.14	1.14	1.68	1.68	4.16	2.54	0.114
	30	30	2.0	2.14	1.68	2.72	2.72	1.13	1.13	1.81	1.81	4.54	2.75	0.113
	30	30	2.5	2.59	2.03	3.16	3.16	1.10	1.10	2.10	2.10	5.40	3.20	0.111
32 x 32	32	32	2.0	2.30	1.80	3.37	3.37	1.21	1.21	2.10	2.10	5.58	3.18	0.121
	32	32	2.6	2.88	2.26	4.02	4.02	1.18	1.18	2.51	2.51	6.86	3.82	0.119
	32	32	3.2	3.42	2.69	4.54	4.54	1.15	1.15	2.84	2.84	7.96	4.34	0.117
38 x 38	38	38	2.0	2.78	2.18	5.88	5.88	1.46	1.46	3.10	3.10	9.60	4.67	0.145
	38	38	2.6	3.51	2.75	7.14	7.14	1.43	1.43	3.76	3.76	11.93	5.69	0.143
	38	38	3.2	4.19	3.29	8.18	8.18	1.40	1.40	4.30	4.30	14.01	6.55	0.141
	38	38	4.0	5.03	3.95	9.26	9.26	1.36	1.36	4.87	4.87	16.38	7.48	0.138
40 x 40	40	40	2.6	3.72	2.92	8.45	8.45	1.51	1.51	4.23	4.23	14.06	6.39	0.151
	40	40	2.9	4.09	3.21	9.12	9.12	1.49	1.49	4.56	4.56	15.34	6.91	0.150
	40	40	3.2	4.45	3.49	9.72	9.72	1.48	1.48	4.86	4.86	16.55	7.39	0.149
	40	40	4.0	5.35	4.20	11.08	11.08	1.44	1.44	5.54	5.54	19.44	8.48	0.146
49.5 x 49.5	49.5	49.5	2.6	4.70	3.69	16.91	16.91	1.90	1.90	6.83	6.83	27.59	10.31	0.189
	49.5	49.5	2.9	5.19	4.07	18.37	18.37	1.88	1.88	7.42	7.42	30.26	11.21	0.188
	49.5	49.5	3.6	6.28	4.93	21.42	21.42	1.85	1.85	8.66	8.66	36.07	13.12	0.186
	49.5	49.5	4.5	7.58	5.95	24.64	24.64	1.80	1.80	9.96	9.96	42.66	15.19	0.183

Square Hollow Section (SHS) IS : 4923 : 1997/EN 10219-1 : 2006*/ASTM A-500

SHS	D	B	Thickness	Sec Area	Unit Wt	Moment of Inertia		Radius of Gyration		Elastic Modulus		Torsional Constants		Outer Surface Area Per Metre Length
DXB			T	A	W	I_{xx}	I_{yy}	R_{xx}	R_{yy}	Z_{xx}	Z_{yy}	I_T	C_T	
60 x 60	60	60	2.6	5.80	4.55	31.33	31.33	2.33	2.33	10.44	10.44	50.38	15.72	0.231
	60	60	2.9	6.41	5.03	34.21	34.21	2.31	2.31	11.40	11.40	55.44	17.18	0.230
	60	60	3.2	7.01	5.50	36.94	36.94	2.30	2.30	12.31	12.31	60.34	18.57	0.229
	60	60	4.0	8.55	6.71	43.55	43.55	2.26	2.26	14.52	14.52	72.64	21.97	0.226
	60	60	4.8	10.01	7.85	49.22	49.22	2.22	2.22	16.41	16.41	83.81	24.94	0.224
72 x 72	72	72	3.2	8.54	6.71	66.32	66.32	2.79	2.79	18.42	18.42	106.82	27.74	0.277
	72	72	4.0	10.47	8.22	79.03	79.03	2.75	2.75	21.95	21.95	129.54	33.13	0.274
	72	72	4.8	12.31	9.66	90.31	90.31	2.71	2.71	25.09	25.09	150.63	37.97	0.272
75 x 75	75	75	1.2	3.51	2.75	31.65	31.65	3.00	3.00	8.44	8.44	48.71	12.66	0.296
	75	75	1.4	4.07	3.20	36.52	36.52	3.00	3.00	9.74	9.74	56.46	14.61	0.295
	75	75	1.6	4.63	3.64	41.29	41.29	2.99	2.99	11.01	11.01	64.09	16.52	0.295
	75	75	1.8	5.19	4.07	45.94	45.94	2.98	2.98	12.25	12.25	71.62	18.39	0.294
	75	75	2.0	5.74	4.50	50.49	50.49	2.97	2.97	13.46	13.46	79.05	20.22	0.293
	75	75	2.2	6.28	4.93	54.93	54.93	2.96	2.96	14.65	14.65	86.36	22.00	0.292
	75	75	2.5	7.09	5.56	61.38	61.38	2.94	2.94	16.37	16.37	97.13	24.60	0.291
	75	75	2.8	7.88	6.19	67.60	67.60	2.93	2.93	18.03	18.03	108	27	0.290
	75	75	3.0	8.41	6.60	71.62	71.62	2.92	2.92	19.10	19.10	115	29	0.290
80 x 80	80	80	3.2	9.57	7.51	92.72	92.72	3.11	3.11	23.18	23.18	148	35	0.309
	80	80	4.0	11.75	9.22	111.05	111.05	3.07	3.07	27.76	27.76	180	42	0.306
	80	80	4.8	13.85	10.87	127.59	127.59	3.04	3.04	31.90	31.90	211	48	0.304
91.5 x 91.5	91.5	91.5	3.6	12.32	9.67	156.50	156.50	3.56	3.56	34.21	34.21	250	51	0.354
	91.5	91.5	4.5	15.14	11.88	187.58	187.58	3.52	3.52	41.00	41.00	304	62	0.351
	91.5	91.5	5.4	17.85	14.01	215.69	215.69	3.48	3.48	47.14	47.14	355	71	0.347
100 x 100	100	100	4.0	14.95	11.73	226.36	226.36	3.89	3.89	45.27	45.27	362	68	0.386
	100	100	5.0	18.36	14.41	271.11	271.11	3.84	3.84	54.22	54.22	441	82	0.383
	100	100	6.0	21.63	16.98	311.49	311.49	3.79	3.79	62.30	62.30	514	94	0.379
113.5 x 113.5	113.5	113.5	4.8	20.28	15.92	393.32	393.32	4.40	4.40	69.31	69.31	631	104	0.438
	113.5	113.5	5.4	22.60	17.74	432.60	432.60	4.38	4.38	76.23	76.23	700	115	0.435
132 x 132	132	132	4.8	23.83	18.71	634.41	634.41	5.16	5.16	96.12	96.12	1009	145	0.512
	132	132	5.4	26.60	20.88	700.13	700.13	5.13	5.13	106.08	106.08	1121	160	0.509
150 x 150	150	150	4.0	22.95	18.01	807.83	807.83	5.93	5.93	107.71	107.71	1265	162	0.586
	150	150	5.0	28.36	22.26	982.14	982.14	5.89	5.89	130.95	130.95	1554	197	0.583
	150	150	6.0	33.63	26.40	1145.94	1145.94	5.84	5.84	152.79	152.79	1833	230	0.579
	150	150	7.0	38.78	30.44	1299.49	1299.49	5.79	5.79	173.27	173.27	2108	260	0.570
	150	150	8.0	43.79	34.38	1443.06	1443.06	5.74	5.74	192.41	192.41	2364	289	0.566
180 x 180	180	180	4.0	27.75	21.78	1421.76	1421.76	7.16	7.16	157.97	157.97	2210	237	0.706
	180	180	5.0	34.36	26.97	1736.90	1736.90	7.11	7.11	192.99	192.99	2724	290	0.703
	180	180	6.0	40.83	32.05	2036.57	2036.57	7.06	7.06	226.29	226.29	3223	340	0.699
	180	180	7.0	47.18	37.04	2321.10	2321.10	7.01	7.01	257.90	257.90	3720	387	0.690
	180	180	8.0	53.39	41.91	2590.82	2590.82	6.97	6.97	287.87	287.87	4188	432	0.686
200 x 200	200	200	4.5	34.67	27.21	2191.58	2191.58	7.95	7.95	219.16	219.16	3408	329	0.785
	200	200	5.0	38.36	30.11	2410.13	2410.13	7.93	7.93	241.01	241.01	3763	362	0.783
	200	200	6.0	45.63	35.82	2832.80	2832.80	7.88	7.88	283.28	283.28	4459	426	0.779
	200	200	8.0	59.79	46.94	3621.73	3621.73	7.78	7.78	362.17	362.17	5815	544	0.766
220 x 220	220	220	4.0	34.15	26.81	2639.16	2639.16	8.79	8.79	239.92	239.92	4076	360	0.866
	220	220	5.0	42.36	33.25	3238.07	3238.07	8.74	8.74	294.37	294.37	5038	442	0.863
	220	220	6.0	50.43	39.59	3813.43	3813.43	8.70	8.70	346.68	346.68	5976	521	0.859
	220	220	7.0	58.38	45.83	4365.64	4365.64	8.65	8.65	396.88	396.88	6919	596	0.850
	220	220	8.0	66.19	51.96	4895.12	4895.12	8.60	8.60	445.01	445.01	7815	668	0.846
250 x 250	250	250	4.0	38.95	30.57	3907.33	3907.33	10.02	10.02	312.59	312.59	6014	469	0.986
	250	250	5.0	48.36	37.96	4805.07	4805.07	9.97	9.97	384.41	384.41	7443	577	0.983
	250	250	6.0	57.63	45.24	5672.09	5672.09	9.92	9.92	453.77	453.77	8842	681	0.979
	250	250	7.0	66.78	52.42	6508.85	6508.85	9.87	9.87	520.71	520.71	10251	781	0.970
	250	250	8.0	75.79	59.50	7315.81	7315.81	9.82	9.82	585.26	585.26	11597	878	0.966

Note: Sizes and Thicknesses other than listed above can be supplied on order to order basis.

*** This specification conforms to CE Mark conferred by Det Norske Veritas, Netherlands. Torsional Constant as per EN 10219-2:2006**

OTHER ALLOWABLE STREES VALUES (in Mpa)

Steel Grade	Minimum Yield Stress	Minimum UTS	Axial Street in Tension	Bending Stress in Ten of Compn.	Shear Stress	Bearing Stress	Equivalent Stress
Yst 210	210	330	--	--	--	--	--
Yst 240	240	410	144	158	108	180	216
Yst 310	310	450	186	205	140	232	279

Note: Mnimum % Elongation: 10% for GR. Yst 240 & 20 % for Yst 210

Rectangular Hollow Section (RHS) IS : 4923 : 1997/EN 10219-1 : 2006*/ASTM A-500

RHS	D	B	Thickness	Sec Area	Unit Wt	Moment of Inertia		Radius of Gyration		Elastic Modulus		Torsional Constants		Outer Surface Area Per Metre Length
DXB			T	A	W	I_{xx}	I_{yy}	R_{xx}	R_{yy}	Z_{xx}	Z_{yy}	I_T	C_T	
mm	mm	mm	mm	cm2	kg/m	cm4	cm4	cm	cm	cm3	cm3	cm4	cm3	m2/m
26.5 x 13.5	26.5	13.5	0.8	0.60	0.47	0.53	0.19	0.95	0.56	0.40	0.28	0.45	0.48	0.077
	26.5	13.5	1.0	0.73	0.58	0.64	0.22	0.93	0.55	0.48	0.33	0.55	0.57	0.077
	26.5	13.5	1.2	0.87	0.68	0.74	0.25	0.92	0.54	0.56	0.37	0.64	0.65	0.076
	26.5	13.5	1.4	0.99	0.78	0.82	0.28	0.91	0.53	0.62	0.42	0.72	0.73	0.075
	26.5	13.5	1.6	1.11	0.87	0.90	0.30	0.90	0.52	0.68	0.45	0.79	0.79	0.075
	26.5	13.5	1.8	1.23	0.96	0.96	0.32	0.89	0.51	0.73	0.48	0.86	0.85	0.074
	26.5	13.5	2.0	1.34	1.05	1.02	0.34	0.87	0.51	0.77	0.51	0.92	0.90	0.073
	26.5	13.5	2.2	1.44	1.13	1.07	0.36	0.86	0.50	0.81	0.53	0.97	0.94	0.072
40 x 20	40	20	0.8	0.92	0.72	1.92	0.66	1.45	0.85	0.96	0.66	1.58	1.13	0.117
	40	20	1.0	1.13	0.89	2.33	0.80	1.43	0.84	1.17	0.80	1.93	1.38	0.117
	40	20	1.2	1.35	1.06	2.73	0.92	1.42	0.83	1.36	0.92	2.27	1.60	0.116
	40	20	1.4	1.55	1.22	3.09	1.04	1.41	0.82	1.55	1.04	2.59	1.81	0.115
	40	20	1.6	1.75	1.38	3.43	1.15	1.40	0.81	1.72	1.15	2.89	2.01	0.115
	40	20	1.8	1.95	1.53	3.75	1.25	1.39	0.80	1.88	1.25	3.18	2.19	0.114
	40	20	2.0	2.14	1.68	4.05	1.34	1.38	0.79	2.02	1.34	3.45	2.36	0.113
	40	20	2.2	2.32	1.82	4.32	1.43	1.36	0.78	2.16	1.43	3.71	2.51	0.112
	40	20	2.5	2.59	2.03	4.69	1.54	1.35	0.77	2.35	1.54	4.06	2.72	0.111
40 x 25	40	25	0.8	1.00	0.78	2.23	1.08	1.49	1.04	1.11	0.87	2.30	1.44	0.127
	40	25	1.0	1.23	0.97	2.72	1.32	1.48	1.03	1.36	1.05	2.83	1.75	0.127
	40	25	1.2	1.47	1.15	3.18	1.54	1.47	1.02	1.59	1.23	3.34	2.05	0.126
	40	25	1.4	1.69	1.33	3.61	1.74	1.46	1.01	1.81	1.39	3.83	2.33	0.125
	40	25	1.6	1.91	1.50	4.02	1.93	1.45	1.01	2.01	1.55	4.29	2.59	0.125
	40	25	1.8	2.13	1.67	4.41	2.11	1.44	1.00	2.21	1.69	4.74	2.84	0.124
	40	25	2.0	2.34	1.83	4.77	2.28	1.43	0.99	2.39	1.82	5.17	3.07	0.123
	40	25	2.2	2.54	2.00	5.11	2.43	1.42	0.98	2.56	1.95	5.58	3.29	0.122
	40	25	2.5	2.84	2.23	5.57	2.64	1.40	0.96	2.79	2.11	6.15	3.59	0.121
50 x 25	50	25	2.0	2.74	2.15	8.38	2.81	1.75	1.01	3.35	2.25	7.06	3.92	0.143
	50	25	2.6	3.46	2.71	10.16	3.36	1.71	0.99	4.06	2.69	8.68	4.72	0.141
	50	25	3.2	4.13	3.24	11.63	3.80	1.68	0.96	4.65	3.04	10.08	5.38	0.139
	50	25	4.0	4.95	3.88	13.13	4.23	1.63	0.92	5.25	3.38	11.57	6.05	0.136
60 x 40	60	40	2.6	4.76	3.73	22.76	12.09	2.19	1.59	7.59	6.05	25.99	10.02	0.191
	60	40	2.9	5.25	4.12	24.75	13.12	2.17	1.58	8.25	6.56	28.48	10.90	0.190
	60	40	3.6	6.35	4.98	28.90	15.23	2.13	1.55	9.63	7.62	33.86	12.73	0.188
	60	40	4.5	7.67	6.02	33.31	17.44	2.08	1.51	11.10	8.72	39.91	14.69	0.185
66 x 33	66	33	2.6	4.70	3.69	25.16	8.43	2.31	1.34	7.62	5.11	21.17	8.91	0.189
	66	33	2.9	5.19	4.07	27.33	9.12	2.30	1.33	8.28	5.53	23.13	9.66	0.188
	66	33	3.6	6.28	4.93	31.87	10.52	2.25	1.29	9.66	6.38	27.32	11.21	0.186
	66	33	4.5	7.58	5.95	36.64	11.93	2.20	1.25	11.10	7.23	31.90	12.84	0.183
80 x 40	80	40	2.6	5.80	4.55	46.58	15.74	2.84	1.65	11.65	7.87	38.87	13.66	0.231
	80	40	2.9	6.41	5.03	50.87	17.11	2.82	1.63	12.72	8.56	42.65	14.89	0.230
	80	40	3.2	7.01	5.50	54.95	18.41	2.80	1.62	13.74	9.21	46.28	16.05	0.229
	80	40	4.0	8.55	6.71	64.80	21.49	2.75	1.59	16.20	10.74	55.24	18.84	0.226
	80	40	4.8	10.01	7.85	73.22	24.03	2.71	1.55	18.31	12.02	63.16	21.21	0.224
96 x 48	96	48	3.2	8.54	6.71	98.61	33.28	3.40	1.97	20.54	13.87	82.38	24.09	0.277
	96	48	4.0	10.47	8.22	117.55	39.32	3.35	1.94	24.49	16.38	99.22	28.59	0.274
	96	48	4.8	12.31	9.66	134.36	44.55	3.30	1.90	27.99	18.56	115	32.56	0.272
100 x 50	100	50	3.6	9.95	7.81	123.52	41.57	3.52	2.04	24.70	16.63	104	28.92	0.288
	100	50	4.5	12.17	9.55	146.61	48.87	3.47	2.00	29.32	19.55	124	34.18	0.285
	100	50	5.4	14.28	11.21	166.83	55.09	3.42	1.96	33.37	22.04	143	38.75	0.281
	100	50	6.0	15.63	12.27	178.77	58.68	3.38	1.94	35.75	23.47	154	41.43	0.279
120 x 60	120	60	3.2	10.85	8.51	199.89	67.95	4.29	2.50	33.31	22.65	166	39.21	0.349
	120	60	3.6	12.11	9.50	220.76	74.77	4.27	2.49	36.79	24.92	184	43.22	0.348
	120	60	4.5	14.87	11.67	264.53	88.88	4.22	2.44	44.09	29.63	222	51.58	0.345
122 x 61	122	61	3.6	12.32	9.67	232.62	78.83	4.34	2.53	38.13	25.85	193	44.81	0.354
	122	61	4.5	15.14	11.88	278.95	93.79	4.29	2.49	45.73	30.75	234	53.52	0.351
	122	61	5.4	17.85	14.01	320.85	107.03	4.24	2.45	52.60	35.09	272	61.34	0.347

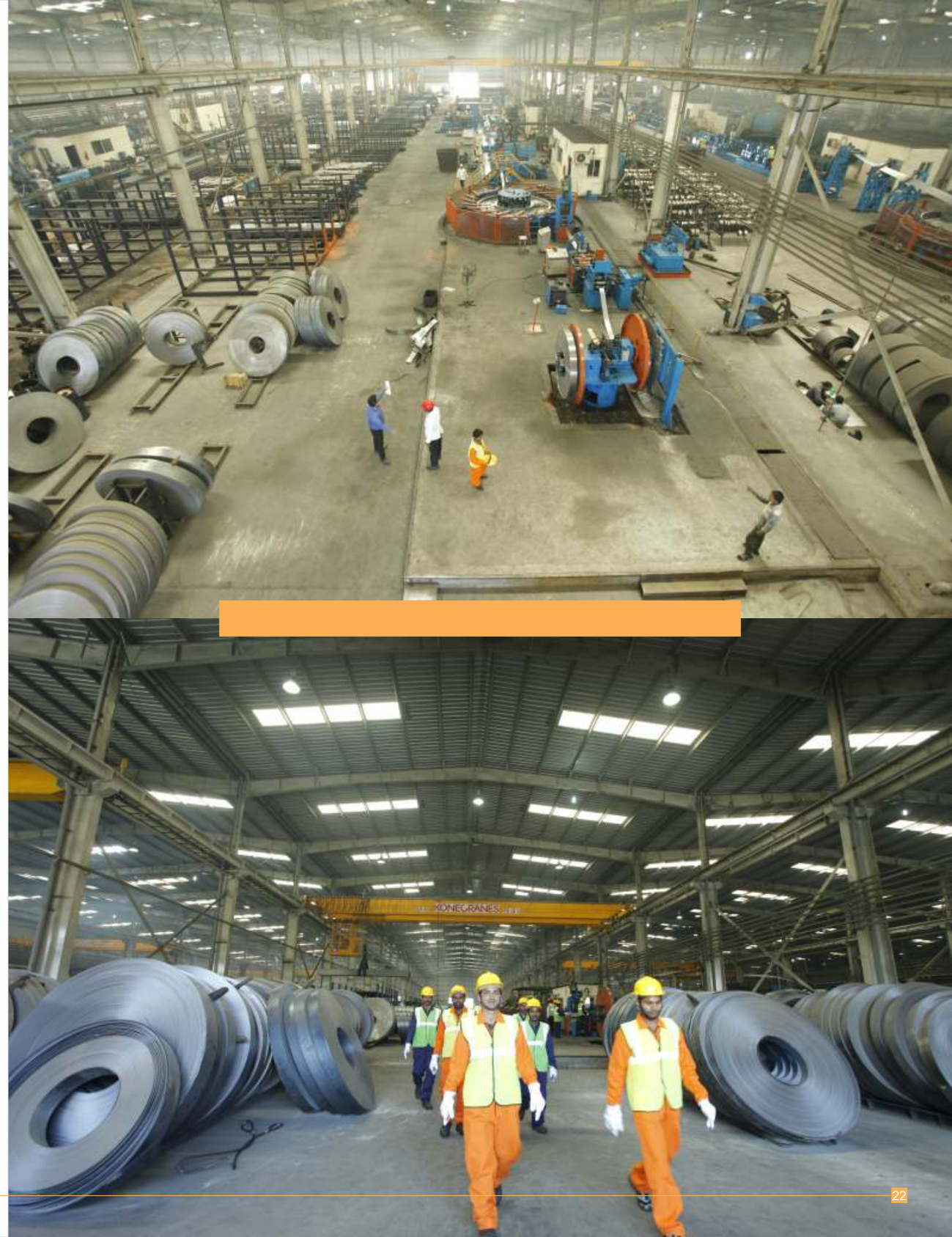
Rectangular Hollow Section (RHS) IS : 4923 : 1997/EN 10219-1 : 2006*/ASTM A-500

RHS	D	B	Thickness	Sec Area	Unit Wt	Moment of Inertia		Radius of Gyration		Elastic Modulus		Torsional Constants		Outer Surface Area Per Metre Length
DXB			T	A	W	I_{xx}	I_{yy}	R_{xx}	R_{yy}	Z_{xx}	Z_{yy}	I_T	C_T	
mm	mm	mm	mm	cm2	kg/m	cm4	cm4	cm	cm	cm3	cm3	cm4	cm3	m2/m
150 x 50	150	50	2.5	9.59	7.53	254.08	45.17	5.15	2.17	33.88	18.07	128	32.78	0.391
	150	50	2.8	10.68	8.39	281.01	49.72	5.13	2.16	37.47	19.89	141	36.12	0.390
	150	50	3.0	11.41	8.96	298.56	52.65	5.12	2.15	39.81	21.06	150	38.28	0.390
	150	50	3.6	13.55	10.64	349.23	60.98	5.08	2.12	46.56	24.39	176	44.44	0.388
	150	50	4.0	14.95	11.73	381.40	66.16	5.05	2.10	50.85	26.47	192	48.30	0.386
160 x 80	160	80	4.8	21.53	16.90	697.70	236.31	5.69	3.31	87.21	59.08	580	102	0.464
	160	80	5.4	24.00	18.84	768.59	259.27	5.66	3.29	96.07	64.82	642	113	0.461
	160	80	6.0	26.43	20.75	836.05	280.90	5.62	3.26	104.51	70.22	702	122	0.459
	160	80	8.0	34.19	26.84	1036.75	343.78	5.51	3.17	129.59	85.95	882	150	0.446
145 x 82	145	82	4.8	20.28	15.92	555.18	228.51	5.23	3.36	76.58	55.73	530	95	0.438
	145	82	5.4	22.60	17.74	610.87	250.60	5.20	3.33	84.26	61.12	586	104	0.435
172 x 92	172	92	4.8	23.83	18.71	917.15	346.92	6.20	3.82	106.65	75.42	819	129	0.512
	172	92	5.4	26.60	20.88	1012.50	381.75	6.17	3.79	117.73	82.99	908	142	0.509
180 x 70	180	70	4.8	22.49	17.65	864.57	194.72	6.20	2.94	96.06	55.64	532	100	0.484
	180	70	5.4	25.08	19.69	952.91	213.31	6.16	2.92	105.88	60.95	588	109	0.481
	180	70	6.0	27.63	21.69	1037.06	230.75	6.13	2.89	115.23	65.93	641	119	0.479
	180	70	8.0	35.79	28.10	1288.18	280.92	6.00	2.80	143.13	80.26	800	144	0.466
200 x 100	200	100	4.0	22.95	18.01	1199.73	410.78	7.23	4.23	119.97	82.16	985	142	0.586
	200	100	5.0	28.36	22.26	1459.29	496.95	7.17	4.19	145.93	99.39	1206	172	0.583
	200	100	6.0	33.63	26.40	1703.36	576.93	7.12	4.14	170.34	115.39	1417	200	0.579
	200	100	7.0	38.78	30.44	1932.27	650.95	7.06	4.10	193.23	130.19	1622	226	0.570
	200	100	8.0	43.79	34.38	2146.32	719.22	7.00	4.05	214.63	143.84	1811	250	0.566
220 x 140	220	140	4.0	27.75	21.78	1892.58	947.65	8.26	5.84	172.05	135.38	1988	224	0.706
	220	140	5.0	34.36	26.97	2313.40	1155.25	8.21	5.80	210.31	165.04	2447	274	0.703
	220	140	6.0	40.83	32.05	2714.04	1351.69	8.15	5.75	246.73	193.10	2891	321	0.699
	220	140	7.0	47.18	37.04	3094.86	1537.26	8.10	5.71	281.35	219.61	3332	365	0.690
240 x 120	240	120	4.0	27.75	21.78	2110.76	725.36	8.72	5.11	175.90	120.89	1726	208	0.706
	240	120	5.0	34.36	26.97	2579.72	882.49	8.67	5.07	214.98	147.08	2121	254	0.703
	240	120	6.0	40.83	32.05	3025.99	1030.47	8.61	5.02	252.17	171.74	2501	297	0.699
	240	120	7.0	47.18	37.04	3449.95	1169.55	8.55	4.98	287.50	194.93	2876	337	0.690
	240	120	8.0	53.39	41.91	3851.99	1300.00	8.49	4.93	321.00	216.67	3227	375	0.686
300 x 150	300	150	4.0	34.95	27.43	4196.72	1447.47	10.96	6.44	279.78	193.00	3417	332	0.886
	300	150	5.0	43.36	34.03	5153.21	1770.89	10.90	6.39	343.55	236.12	4214	407	0.883
	300	150	6.0	51.63	40.53	6073.63	2079.60	10.85	6.35	404.91	277.28	4988	479	0.879
	300	150	7.0	59.78	46.93	6958.45	2373.92	10.79	6.30	463.90	316.52	5760	546	0.870
	300	150	8.0	67.79	53.22	7808.17	2654.18	10.73	6.26	520.54	353.89	6490	612	0.866
300 x 200	300	200	4.0	38.95	30.57	5072.93	2736.58	11.41	8.38	338.20	273.66	5527	449	0.986
	300	200	5.0	48.36	37.96	6241.13	3360.96	11.36	8.34	416.08	336.10	6836	552	0.983
	300	200	6.0	57.63	45.24	7370.35	3962.24	11.31	8.29	491.36	396.22	8115	651	0.979
	300	200	7.0	66.78	52.42	8461.09	4540.84	11.26	8.25	564.07	454.08	9400	746	0.970
	300	200	8.0	75.79	59.50	9513.88	5097.15	11.20	8.20	634.26	509.71	10626	838	0.966

Note: Sizes and Thicknesses other than listed above can be supplied on order to order basis.
***This specification conforms to CE Mark conferred by Det Norske Veritas, Netherlands. Torsional Constant as per EN 10219-2:2006**

General technical specifications and tolerances:

Spec	:	IS : 4923 : 1997/EN 10219-1 : 2006/ASTM A-500
Length	:	6.0m ± 0.05mm Customized Length ranging from 4 m to 8 m may be supplied
Thickness	:	For all sizes: ± 10.0%
Outer Dimensions	:	1% with a minimum of 0.5 mm
Corner Squareness	:	900 ± 20
Corner Radii	:	Maximum, 3x (thickness of the section)
Weight	:	On individual length: +10%, -8% On lots of MT: ± 7.5%
Straightness	:	Minimum 1:200th of any length measured along the center line (mill straightened condition) unless otherwise specifically arranged
Twist Tolerance	:	Maximum 2 mm:1:0.5 mm 1m length, the measured relative vertical shift of any adjacent corner of the section, 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 vanishing.
Raw Material	:	Sulphur content: 0.05% max. Phosphorus content: 0.05% max, Equivalent Carbon percentage well within specified weldability limit with matching physical properties
Weldability	:	RHS/SHS are weldable with standard M.S. Electrode without any preheating.
Packing	:	Bundled by sealing metal strap and each Bundle is labeled for size, measurement, Lot on, etc. Approximate weight of each Bundle is 1 mton (±350 kg).
Identification	:	Marking of APL APOLLO emblem is surface punched/stenciled/sticker pasted on all RHS/SHS. Standard BIS mark is also put on most of the sections
Note	:	RHS/SHS in customized



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APL APOLLO TUBES LTD. (UNIT-II)
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