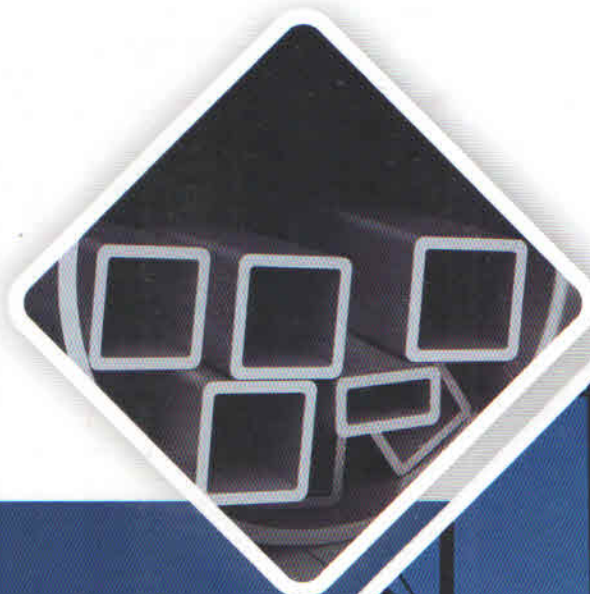




# BENGAL PIPE INDUSTRIES

An ISO 9001 : 2008 Certified Company

Excellent Construction  
Materials Designed  
With Precision





## About Us

Bengal Pipe Industries is an ISO 9001:2008 certified company that came into existence in the year 1965. With its vast experience of almost 50 years, Bengal pipe industries is a connoisseur in the manufacturing and supply of MS black pipes and has served many big & small clients from varied industries. Focussing on Quality is our prime objective. We feel proud to have a highly satisfied clientele who not only rely on our Quality products but also trust us for our services.



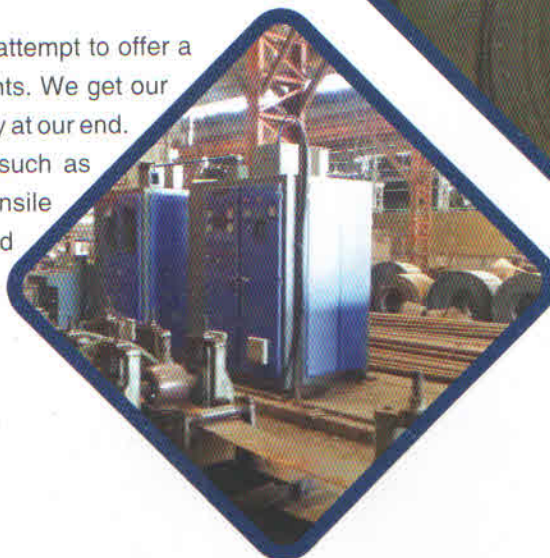
## Manufacturing Facilities

We have achieved excellence in setting up and constantly upgrading our production facilities. Bengal pipe Industries have got the latest design automatic machinery. We have the versatile facilities and machine capability to process a variety of pipes.



## Quality Profile

As a quality conscious organization, it is our attempt to offer a premium range of Industrial Pipes to our clients. We get our range calibrated by laboratories to verify quality at our end. We ensure that vendors follow parameters such as durability dimensional accuracy, high tensile strength and resistant to corrosion and chemicals in their quality evaluation scheme.







## MS Black Steel Pipes

Our company, Bengal Pipe Industries, is one of the most creative manufacturer and supplier of MS Black Steel Pipes. Our clients can avail from us an extensive range of pipes which are manufactured using high Quality raw materials using advanced technology. Our range of MS Black Steel Pipes is well accepted throughout the country which are characterized as durable, Reliable with a long life and trouble-free performance. These pipes find wide application for Scaffolding fabricator structure, water wells, gas and sewerage.



### Features

- High Grade Quality
- Corrosion resistance
- Robust construction

Outside Diameter	
Up to & including 48.3mm	+0.4mm -0.8mm
Over 48.3mm	±1.0%
Thickness(for all sizes)	
Welded tubes	+not limited -10%
Weight	
Single tube-Light	+10% -8%
Single tube-Medium & Heavy	±10%
10 tonne lots-Light	±5%
10 tonne lots-Medium & Heavy	±7.5%

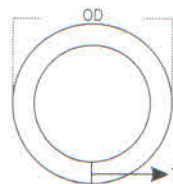
### General Applications :

- Industrial Sheds ● Bridges
- Swaged Poles ● Telecom Towers
- Scaffoldings ● Cranes
- Mine roof support system



### BLACK PIPE STRUCTURAL (IS 1161/ BS 1775/65)

Nominal Bore mm	Outside Diameter mm	Class	Thickness mm	Weight kg / m
15	21.3	Light	2.0	0.947
		Medium	2.6	1.21
		Heavy	3.2	1.44
20	26.9	Light	2.3	1.38
		Medium	2.6	1.56
		Heavy	3.2	1.87
25	33.7	Light	2.6	1.98
		Medium	3.2	2.41
		Heavy	4.0	2.93
32	42.4	Light	2.6	2.54
		Medium	3.2	3.10
		Heavy	4.0	3.79
40	48.3	Light	2.9	3.23
		Medium	3.2	3.56
		Heavy	4.0	4.37
50	60.3	Light	2.6	4.08
		Medium	3.6	5.03
		Heavy	4.5	6.19
65	76.1	Light	3.2	5.71
		Medium	3.6	6.42
		Heavy	4.5	7.93
80	88.9	Light	3.2	6.72
		Medium	4.0	8.36
		Heavy	4.8	9.90
100	114.3	Light	3.6	9.75
		Medium	4.5	12.2
		Heavy	5.4	14.5
125	139.7	Light	4.5	15.0
		Medium	4.8	15.9
		Heavy	5.4	17.9
135	152.4	Light	4.5	16.4
		Medium	4.8	17.5
		Heavy	5.4	19.6
150	165.1	Light	4.5	17.8
		Medium	4.8	18.9
		Heavy	5.4	21.3
150	168.3	Light	4.5	18.2
		Medium	4.8	19.4
		Heavy	5.4	21.7
175	193.7	Light	6.3	25.2
		Medium	4.5	22.4
		Heavy	4.8	25.1
200	219.1	Light	4.8	27.3
		Medium	5.6	29.5
		Heavy	5.9	31.0



### PHYSICAL PROPERTIES

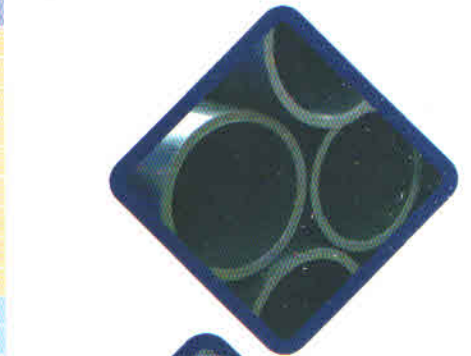
Grade	Tensile Strength Mpa	Yield Stress Mpa	Elongation Percent
	(Min)	(Min)	(Min)
Yst 210	330	210	20
Yst 240	410	240	17
Yst 310	450	310	14





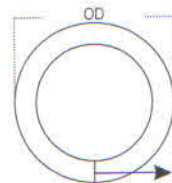
### BLACK PIPE OTHERS (IS 1239, Part -I)

Nominal Bore & Series		Outside Diameter (OD)		Wall Thickness		Nominal mass of steel tube				Sockets	
		Max	Min			Plain End		Screwed & Socketed		Min OD	Min Length
mm	inch	mm	mm	mm	swg	kg/mtr	mtrs/mt	kg/mtr	mtrs/mt	mm	mm
15L	0.50	21.4	21.0	2.0	14	0.947	1056	0.956	1046	27.0	37.0
20L	0.75	26.9	26.4	2.3	13	1.38	725	1.39	719	32.5	39.0
25L	1.00	33.8	33.2	2.6	12	1.98	505	2.00	500	39.5	46.0
32L	1.25	42.5	41.9	2.6	12	2.54	394	2.57	389	49.0	51.0
40L	1.50	48.4	47.8	2.9	11	3.23	310	3.27	306	56.0	51.0
50L	2.00	60.2	59.6	2.9	11	4.08	245	4.15	241	68.0	60.0
65L	2.50	76.0	75.2	3.2	10	5.71	175	5.83	172	84.0	69.0
80L	3.00	88.7	87.9	3.2	10	6.72	149	6.89	145	98.0	75.0
100L	4.00	113.9	113.0	3.6	9	9.75	103	10.00	100	124.0	87.0
15M	0.50	21.8	21.0	2.6	12	1.21	826	1.22	820	27.0	37.0
20M	0.75	27.3	26.5	2.6	12	1.56	641	1.57	637	32.5	39.0
25M	1.00	34.2	33.3	3.2	10	2.41	415	2.43	412	39.5	46.0
32M	1.25	42.9	42.0	3.2	10	3.10	323	3.13	319	49.0	51.0
40M	1.50	48.8	47.9	3.2	10	3.56	281	3.60	278	56.0	51.0
50M	2.00	60.8	59.7	3.6	9	5.03	199	5.10	196	68.0	60.0
65M	2.50	76.6	75.3	3.6	9	6.42	156	6.54	153	84.0	69.0
80M	3.00	89.5	88.0	4.0	8	8.36	120	8.53	117	98.0	75.0
100M	4.00	115.0	113.1	4.5	7	12.20	82	12.50	80	124.0	87.0
125M	5.00	140.8	138.5	4.8	6	15.90	63	16.40	61	151.0	96.0
150M	6.00	166.5	163.9	4.8	6	18.90	53	19.5	51	178.0	96.0
15H	0.50	21.8	21.0	3.2	10	1.44	694	1.45	690	27.0	37.0
20H	0.75	27.3	26.5	3.2	10	1.87	535	1.88	532	32.5	39.0
25H	1.00	34.2	33.3	4.0	8	2.93	341	2.95	339	39.5	46.0
32H	1.25	42.5	41.9	4.0	8	3.79	264	3.82	262	49.0	51.0
40H	1.50	48.8	47.9	4.0	8	4.37	229	4.41	227	56.0	51.0
50H	2.00	60.8	59.7	4.5	7	6.19	162	6.26	160	68.0	60.0
65H	2.50	76.6	75.3	4.5	7	7.93	126	8.05	124	84.0	69.0
80H	3.00	89.5	88.0	4.8	6	9.90	101	10.10	99	98.0	75.0
100H	4.00	115.0	113.1	5.4	5	14.50	69	14.80	68	124.0	87.0
125H	5.00	140.8	138.5	5.4	5	17.90	56	18.40	54	151.0	96.0
150H	6.00	166.5	163.9	5.4	5	21.30	47	21.90	46	178.0	96.0



### TOLERANCE ON THICKNESS AND MASS

Class	Thickness	Weight		Length Unless otherwise Specified
		Single Tube	Per Load of 10 MT Min	
Light	+Not Limited -8%	+10% -8%	+7.5 % -5%	4 to 7 Mtrs.
Medium & Heavy	+Not Limited -10%	±10%	±7.5%	



### General Applications :

- Raw water supply ● Fire fighting purpose
- GAS steam and air lines
- General engineering purpose
- Irrigation purpose



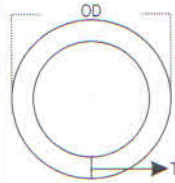


### MECHANICAL PROPERTIES

Tube Designation	Tensile Strength Mpa		Yield Mpa		Elongation %	
	Min	Min	Min	Min	Min	Min
210	330	210	20			
240	410	240	18			
310	450	310	15			

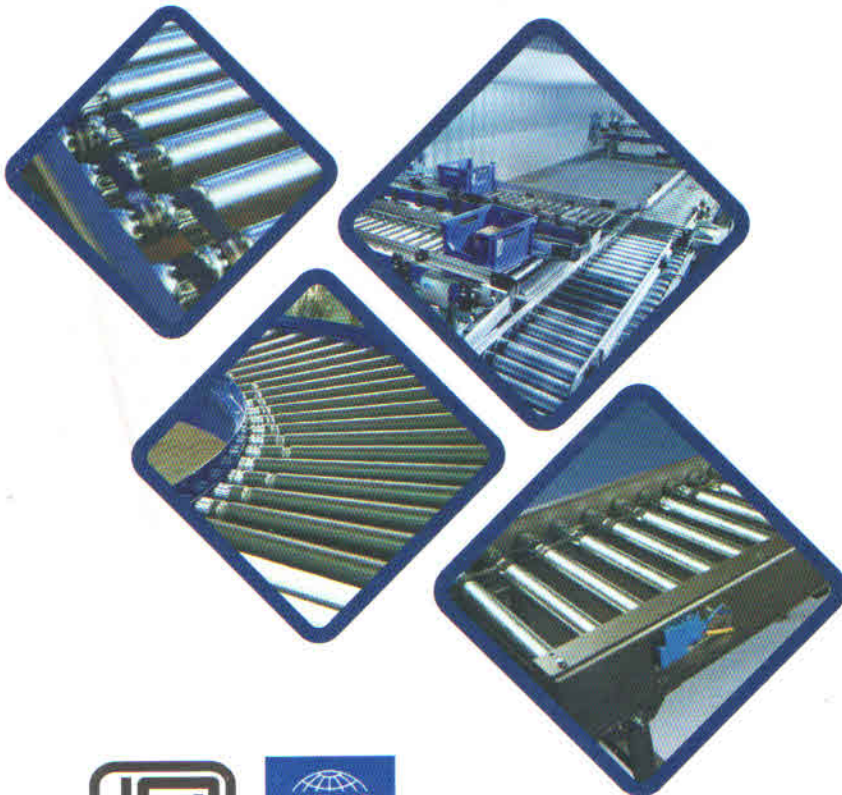
#### Tolerances :

Ovality & above	0.5mm
Eccentricity	5% Max
Mass	±10%
i) Single Tube	±7.5%
Outside Diameter	±0.8%
Straightness	1/1000 of any length
Length	4 to 7 Mtr.
i) Random	(+)6mm(-)0mm
ii) Exact	



### General Applications :

- For manufacturing conveyors for material handlings



### STEEL TUBES FOR IDLERS For Belt Conveyors As Per IS 9295/1983 DIMENSIONS

Outside Diameter	Thickness	Weight	
		kg/mtr	mtr/tonne
63.5	3.65	5.39	186
	4.50	6.55	153
76.1	3.65	6.52	153
	4.50	7.95	126
88.9	4.05	8.47	118
	4.85	10.05	100
101.6	6.30	12.83	78
	4.05	9.74	103
108.0	4.85	11.57	86
	6.30	14.81	68
114.3	4.05	10.38	96
	4.85	12.34	81
120.0	6.30	15.80	63
	4.50	12.19	82
127.0	5.40	14.50	69
	6.30	16.78	60
133.0	4.50	12.82	78
	5.40	15.26	66
139.7	6.30	17.67	57
	4.50	13.60	74
152.4	4.85	14.61	68
	5.40	16.19	62
159.0	6.30	18.75	53
	4.50	14.30	70
165.1	4.85	15.33	65
	5.40	16.99	59
168.3	6.30	19.69	51
	4.85	16.13	62
193.7	5.40	17.89	56
	6.30	20.73	48
219.1	4.50	16.40	61
	4.85	17.65	57
152.4	5.40	19.58	51
	6.30	22.70	44
159.0	4.50	17.10	58
	4.85	18.44	54
165.1	5.40	20.46	47
	6.30	23.72	42
168.3	4.50	17.80	56
	4.85	19.17	52
193.7	5.40	21.27	47
	6.30	24.67	41
219.1	4.50	18.20	55
	4.85	19.55	51
152.4	5.40	21.69	46
	6.30	25.17	40
159.0	4.50	25.10	40
	6.30	29.12	34
165.1	7.10	32.67	31
	5.40	28.50	35
168.3	6.30	33.06	30
	7.10	37.12	27

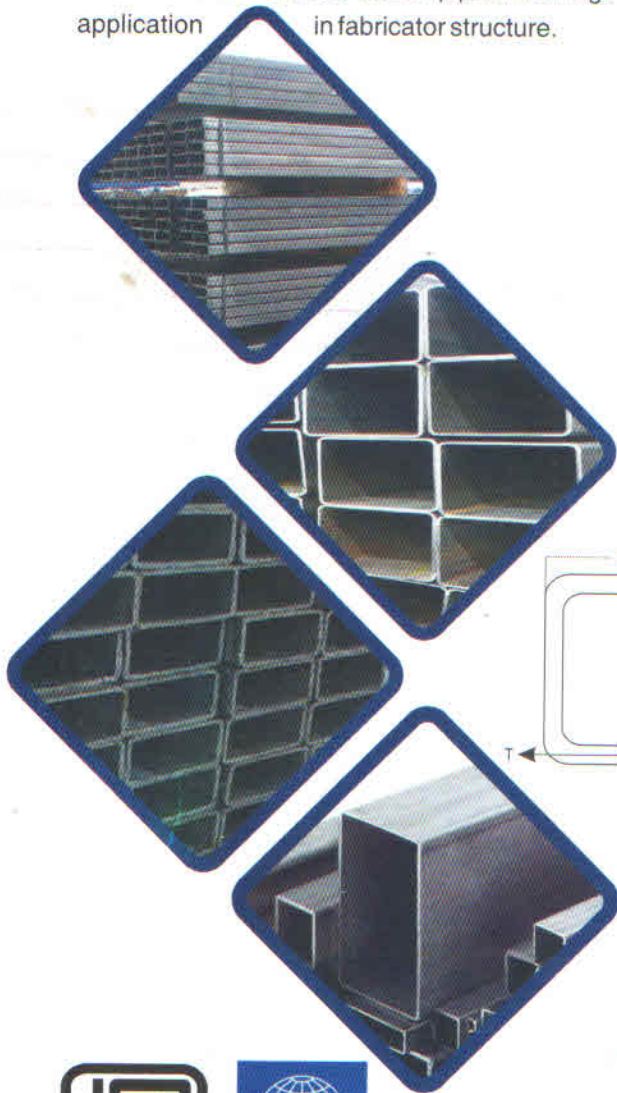






## Rectangular Hollow Section (RHS)

Our company, Bengal Pipe Industries, has acquired a reputable position in this field for manufacturing and exporting high grade Rectangular Pipes. These pipes and tubes are manufactured using highest quality raw materials as per the industrial standards. Our proficient team of quality controllers examine these pipes and tubes on various parameters so as to make sure that defect free range is delivered to the clients. These pipes find huge application in fabricator structure.



## Hollow Section Steel Tubes Confirming To IS 4923/1997 Dimensions and Properties of Rectangular Hollow Section (RHS)

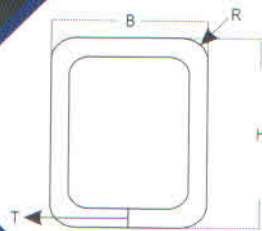
Designation D x B x T mm	Depth of Section H mm	Width of Section B mm	Thickness (T) mm	Weight kg/m
50.0 X 25.0 X 2.9	50	25	2.9	2.98
50.0 X 25.0 X 3.2	50	25	3.2	3.24
60.0 X 40.0 X 2.6	60	40	2.6	3.73
60.0 X 40.0 X 2.9	60	40	2.9	4.12
60.0 X 40.0 X 3.6	60	40	3.6	4.98
66.0 X 33.0 X 2.6	66	33	2.6	3.69
66.0 X 33.0 X 2.9	66	33	2.9	4.07
66.0 X 33.0 X 3.6	66	33	3.6	4.93
66.0 X 33.0 X 4.5	66	33	4.5	5.95
80.0 X 40.0 X 2.9	80	40	2.9	5.03
80.0 X 40.0 X 3.2	80	40	3.2	5.50
80.0 X 40.0 X 4.0	80	40	4.0	6.71
96.0 X 48.0 X 3.2	96	48	3.2	6.71
96.0 X 48.0 X 4.0	96	48	4.0	8.22
96.0 X 48.0 X 4.8	96	48	4.8	9.66
100.0 X 50.0 X 3.2	100	50	3.2	7.01
100.0 X 50.0 X 4.0	100	50	4.0	8.59
122.0 X 61.0 X 3.6	122	61	3.6	9.67
122.0 X 61.0 X 4.5	122	61	4.5	11.88
122.0 X 61.0 X 5.4	122	61	5.4	14.01
145.0 X 82.0 X 4.8	145	82	4.8	15.92
145.0 X 82.0 X 5.4	145	82	5.4	17.74
172.0 X 92.0 X 4.8	172	92	4.8	18.71
172.0 X 92.0 X 5.4	172	92	5.4	20.88
200.0 X 100.0 X 4.0	200	100	4.0	18.01
200.0 X 100.0 X 5.0	200	100	5.0	22.26
200.0 X 100.0 X 6.0	200	100	6.0	26.40

### Tolerances :

The following tolerances shall be permitted on Hollow Section.

Thickness	±10%
Outside Dimensions of sides with a minimum of	±1% ±0.5 mm
Weight	+10%
1. On individual lengths	-8%
2. On lots of 10 tonne	±7.5%
Squareness of Corner	90°±2°

Radius of corners outside R=3T Max, where T is the thickness of the section.



### General Applications :

- Industrial sheds
- Steel furniture • Bridges
- Low cost steel housing
- Towers • Airports
- Tripper/Trailer body
- Bus body structures
- Cranes
- Material storage rakes
- Road dividers
- Railway wagon/coaches
- Hoardings
- Machine components & frames
- Pre-fabricate house
- Automobile chassis

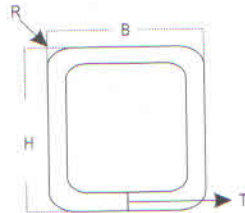
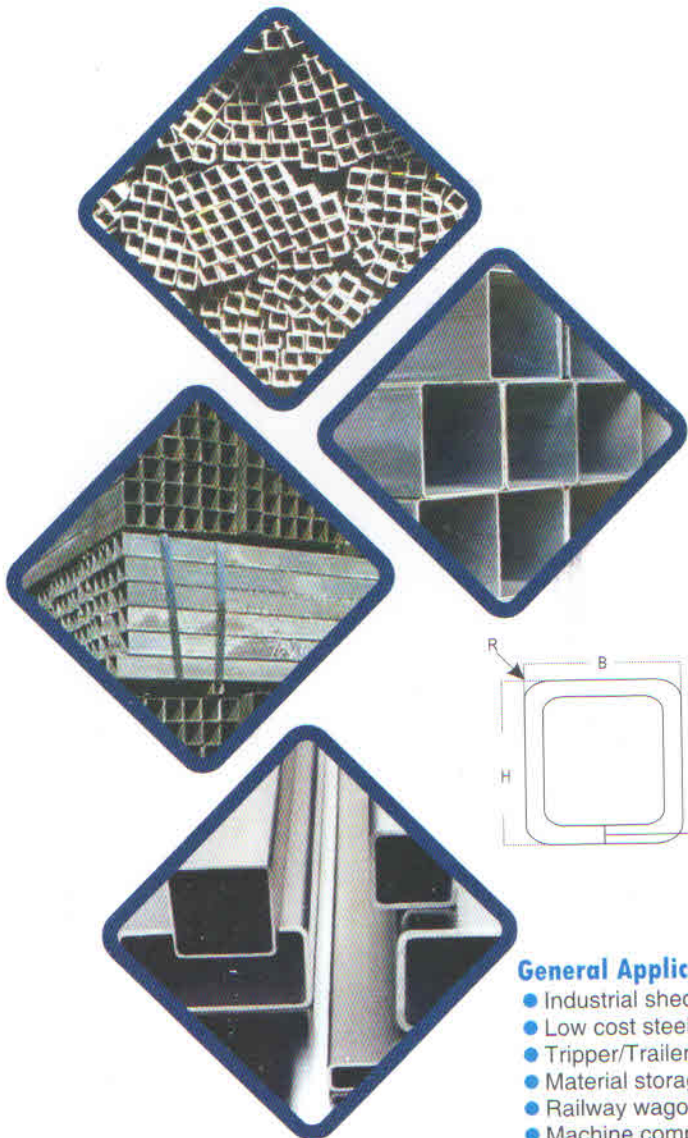






## Square Hollow Section (SHS)

Due to our professionalism and industrial expertise, we are known as one of the most profound manufacturers and suppliers of Square Pipes. Our product range can be easily availed in the market at reasonable and affordable prices. These Square Pipes are manufactured as per the international quality & authenticity standards. Dimensional accuracy forms the core competency for our Square pipes and tubes. These pipes find a huge usage in fabricator structure.



## Hollow Section Steel Tubes Confirming To IS 4923/1997 Dimensions and Properties of Square Hollow Section (SHS)

Designation	Depth or Width	Thickness (T)	Weight
D x B x T mm	mm	mm	kg/m
25.0 X 25.0 X 2.6	25.00	2.6	1.69
25.0 X 25.0 X 3.2	25.00	3.2	1.98
32.0 X 32.0 X 2.6	32.00	2.6	2.26
32.0 X 32.0 X 3.2	32.00	3.2	2.69
32.0 X 32.0 X 4.0	32.00	4.0	3.19
38.0 X 38.0 X 2.6	38.00	2.6	2.75
38.0 X 38.0 X 2.9	38.00	2.9	3.03
38.0 X 38.0 X 3.2	38.00	3.2	3.29
38.0 X 38.0 X 3.6	38.00	3.6	3.63
38.0 X 38.0 X 4.0	38.00	4.0	3.95
49.5 X 49.5 X 2.9	49.50	2.9	4.07
49.5 X 49.5 X 3.6	49.50	3.6	4.93
49.5 X 49.5 X 4.5	49.50	4.5	5.95
60.0 X 60.0 X 3.2	60.00	3.2	5.50
60.0 X 60.0 X 3.6	60.00	3.6	6.11
60.0 X 60.0 X 4.5	60.00	4.5	7.43
72.0 X 72.0 X 3.2	72.00	3.2	6.71
72.0 X 72.0 X 4.0	72.00	4.0	8.22
72.0 X 72.0 X 4.8	72.00	4.8	9.66
80.0 X 80.0 X 3.2	80.00	3.2	7.51
80.0 X 80.0 X 4.0	80.00	4.0	9.22
80.0 X 80.0 X 4.8	80.00	4.8	10.87
91.5 X 91.5 X 3.6	91.50	3.6	9.67
91.5 X 91.5 X 4.5	91.50	4.5	11.88
91.5 X 91.5 X 5.4	91.50	5.4	14.01
100.0 X 100.0 X 4.0	100.00	4.0	11.74
100.0 X 100.0 X 5.0	100.00	5.0	14.41
100.0 X 100.0 X 6.0	100.00	6.0	16.98
113.5 X 113.5 X 4.5	113.50	4.5	14.99
113.5 X 113.5 X 4.8	113.50	4.8	15.92
113.5 X 113.5 X 5.4	113.50	5.4	17.74
132.0 X 132.0 X 4.8	132.00	4.8	18.71
132.0 X 132.0 X 5.4	132.00	5.4	20.88
150.0 X 150.0 X 4.0	150.00	4.0	18.01
150.0 X 150.0 X 5.0	150.00	5.0	22.26
150.0 X 150.0 X 6.0	150.00	6.0	26.40

### Tolerances :

The following tolerances shall be permitted on Hollow Section.

Thickness	±10%
Outside Dimensions of sides with a minimum of	±1%
	±0.5 mm
Weight	+10%
1. On individual lengths	-8%
2. On lots of 10 tonne	±7.5%
Squareness of Corner	90° ±2°

Radius of corners outside  $R=3T$  Max, where T is the thickness of the section.

### General Applications :

- Industrial sheds ● Steel furniture ● Bridges
- Low cost steel housing ● Towers ● Airports
- Tripper/Trailer bod ● Bus body structures ● Cranes
- Material storage rakes ● Road dividers
- Railway wagon/coaches ● Hoardings
- Machine components & frames ● Pre-fabricate house
- Automobile chassis





Bengal Pipe Industries is one of the leading mechanical contractors offering optimum engineering services across India. We offer a huge range of products and services. Our endless list of satisfied customers enable us in acquiring a leading position in the industry.

TECHONINDIA



## **BENGAL PIPE INDUSTRIES**

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