

METPRO
PRIME

METPRO
GALV



METPRO
PRIME

METPRO
GALV

CONTACT US

Head office

044 - 4266 5510
MKK Metal Sections Pvt Ltd,
3rd Floor, FAGUN MANSION,
74, Ethiraj Salai, Egmore,
Chennai 600008, TN.

Manufacturing Main Unit:

04172-298030, 40, 50
Plot No. M 1, SIPCOT
Phase III, Mukundrayapuram,
Ranipet - 632405, TN.

Manufacturing Unit 1:

04172 - 290040
Plot No. S 99 to S 108, SIPCOT,
Phase III, Mukundrayapuram,
Ranipet - 632405, TN

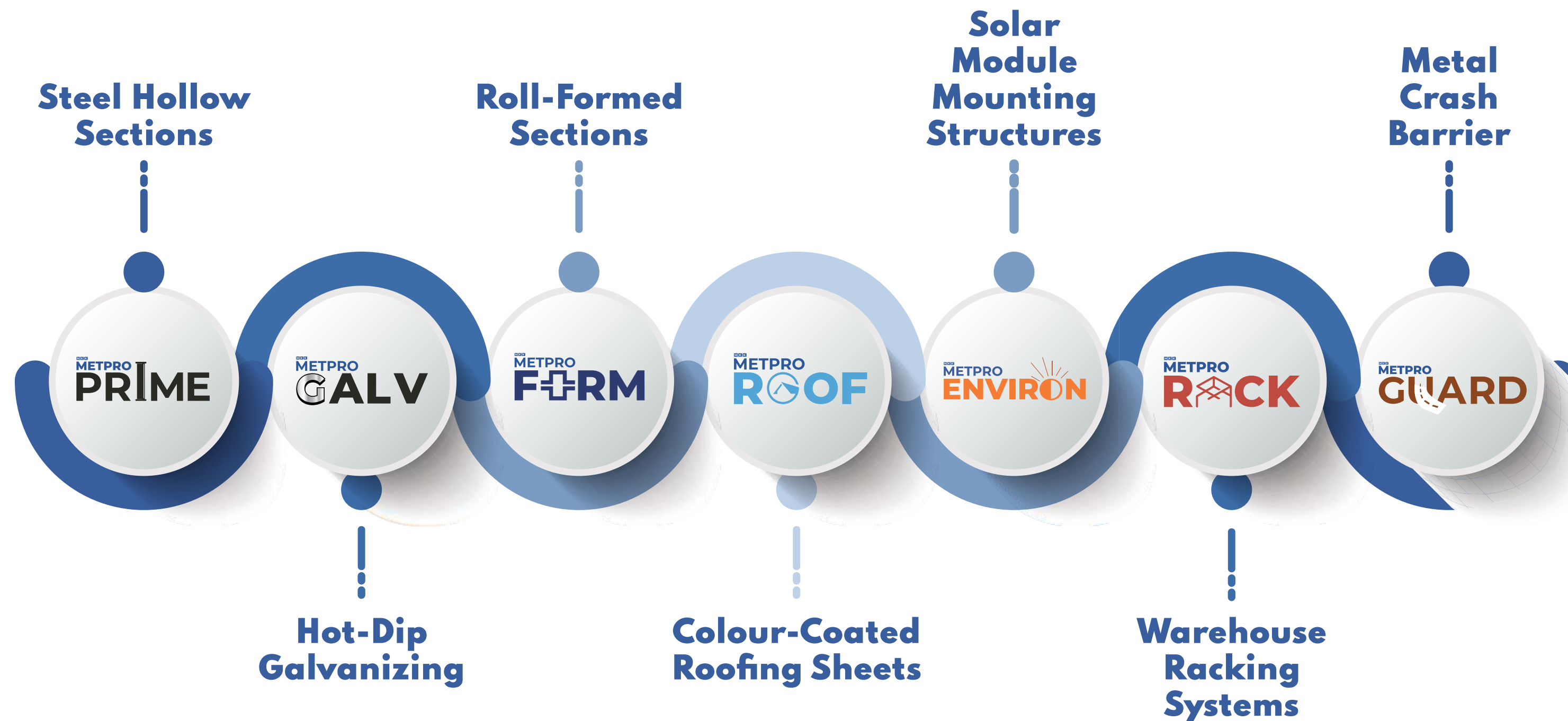
mkkmetsec@mkkmetal.in | metpro@mkkmetal.in | www.mkkmetal.in
+91-9840942571 | +91-9840338049 | +91-8072572065 | +91-8754464929



An ISO 9001 Certified Company

MKK Metal Sections Pvt. Ltd.

A versatile business group with strong foundation



Building Trust Delivering Value.

With an annual production capacity of 2.5 lakh metric tons and a product range spanning over a thousand products, Founded by Late Mr. Mahesh Khandelwal, MKK is recognized all over for its contribution in high composition grade, high tensile, value added products.

Any size, any customization – MKK is always ready to rise to the challenge.

We are now a multi-location, multi-product company manufacturing Circular, Square, Rectangle, Octogonal MS Black Pipe & Hollow Sections, Galvanized tubes and structures, Solar Module Mounting Structures, Shutters, Purlins, Color Coated Roofing Sheets, Warehouse Racking Systems and various other cold roll formed sections.

Amongst our many strengths, our extremely dedicated and experienced team overshadows all our assets. With experiences spanning over decades at the helm of every department, problem-solving and constant R&D is inevitable.

Today our brand, METPRO is synonymous with commitment, innovation backed with a never-say-no attitude, trust and without a doubt, quality.

State-of-the-art manufacturing facility

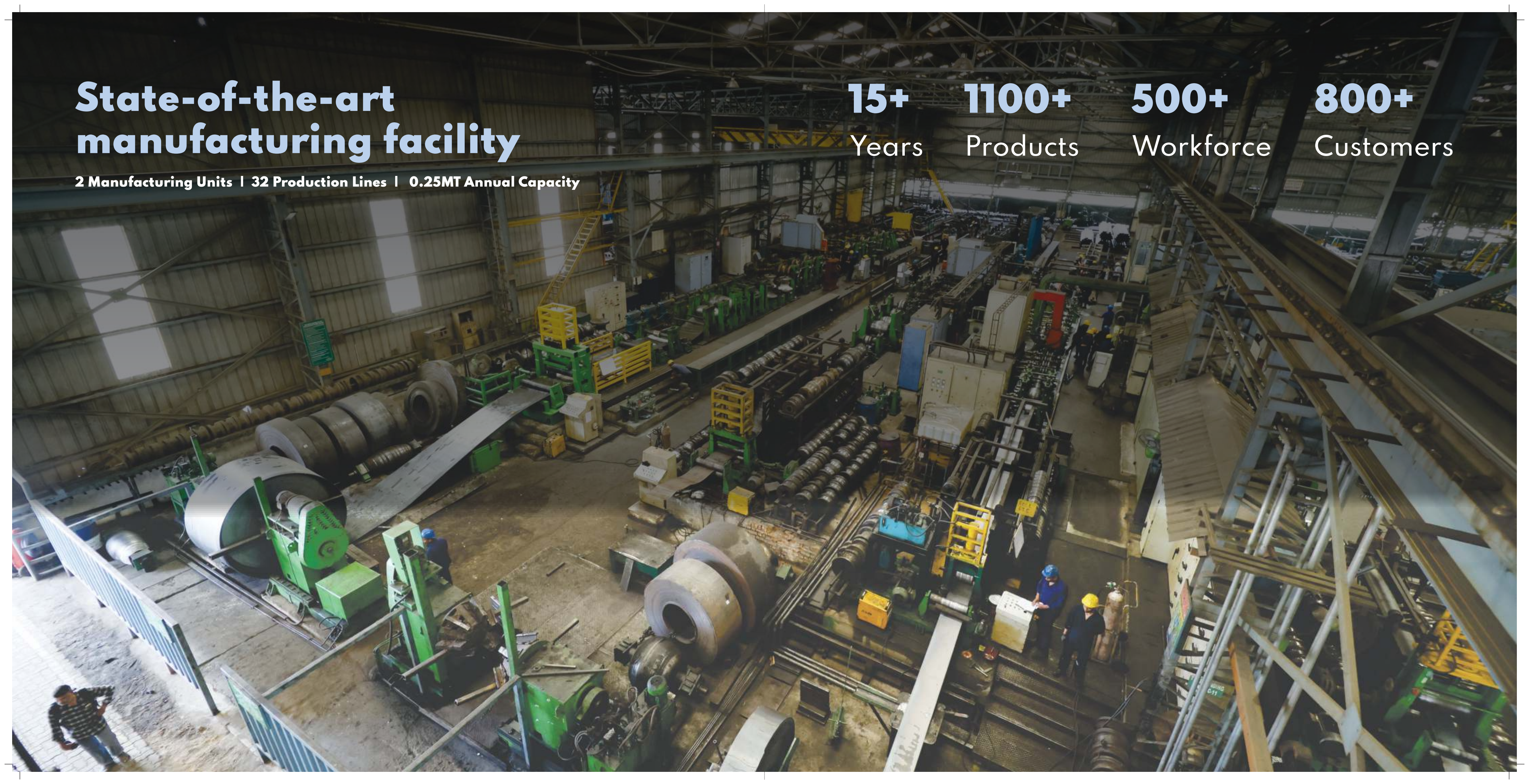
2 Manufacturing Units | 32 Production Lines | 0.25MT Annual Capacity

15+
Years

1100+
Products

500+
Workforce

800+
Customers





METPRO PRIME

METPRO PRIME is known for its wide range of circular, square and rectangular hollow sections. MKK specialized in high tensile, high grade ERW pipes and tubes using only the best of raw materials. Customization in terms of length, beveled end or fin cut along with hydro testing is provided on request. MKK has been the trusted partner for providing tubes of grades matching from YST-170, YST-210, YST-240, YST-310, YST-355, YST-400 YST-450 and to YST- 530 are used for heavy machinery and industrial purposes.

OUR CAPACITY
2,00,000 MT
in 8 lines

Our Product Range

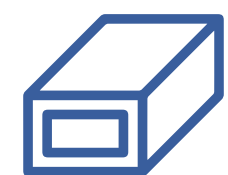
Wall Thickness (mm): 0.7 - 12 | Length (m): 4 - 18



12.7 OD
406.4 OD
Round Pipes (mm)



15 x 15
300 x 300
Square Pipes (mm)



26 x 13
400 x 200
Rectangular Pipes (mm)

**Focussed on
engineering excellence.**



State-of-the-art Manufacturing Facility

Circular Hollow Sections (CHS)

An Introduction

The most versatile product, our Circular steel hollow sections are made by ERW process using high quality steel HR coils. Having the widest range of sizes ranging from 12.7OD to 406.4OD with thickness up to 12mm, MKK continually works on developing unique sizes for special applications.

Yield Strength



170 MPa to 550 MPa

Certified by BIS ISI mark



IS 1161, IS 3589, IS 3601, IS 4270, IS 9295, IS 1239-1

In-house Quality Checks



On-line Eddy-Current & Off-line chemical & mechanical properties checks, Hydro-Testing, UT, RT(On Demand)



Applications

- ✓ Airport Terminals, Aero-bridges and Metro Stations
- ✓ Industrial and Commercial Shed structures
- ✓ Lifting and Excavation Industries
- ✓ Bus Bodies and Automobile Industries
- ✓ Transmission Line Towers
- ✓ Highway Cantilever Structures

Circular Hollow Sections (CHS)

TECHNICAL DATA FOR STEEL TUBES FOR STRUCTURAL PURPOSES, CONFORMING TO IS:1161 - 2014 EQUIVALENT TO BS:1775 - 64

NOMINAL BORE & SERIES		OUTSIDE DIAMETER			WALL THICKNESS		NOMINAL MASS OF STEEL TUBES PLAIN END			
mm	in	Max	Mean	Min	mm	swg	kg/mtr	mts/t	kgs/20'	pcs/mt
15	1/2"	21.7	21.3	20.5	2.0	14	0.95	1053	5.8	173
15	1/2"	21.7	21.3	20.5	2.6	12	1.20	833	7.3	137
15	1/2"	21.7	21.3	20.5	3.2	10	1.43	699	8.7	115
20	3/4"	27.3	26.9	26.1	2.3	13	1.40	714	8.5	117
20	3/4"	27.3	26.9	26.1	2.6	12	1.56	641	9.5	105
20	3/4"	27.3	26.9	26.1	3.2	10	1.87	535	11.4	88
25	1"	34.1	33.7	32.9	2.6	12	1.99	503	12.1	82
25	1"	34.1	33.7	32.9	3.2	10	2.41	415	14.7	68
25	1"	34.1	33.7	32.9	4.0	8	2.93	341	17.9	56
32	1.1/4"	42.8	42.4	41.6	2.6	12	2.55	392	15.5	64
32	1.1/4"	42.8	42.4	41.6	3.2	10	3.09	324	18.8	53
32	1.1/4"	42.8	42.4	41.6	4.0	8	3.79	264	23.1	43
40	1.1/2"	48.7	48.3	47.5	2.9	11	3.25	308	19.8	50
40	1.1/2"	48.7	48.3	47.5	3.2	10	3.56	281	21.7	46
40	1.1/2"	48.7	48.3	47.5	4.0	8	4.37	229	26.6	38
50	2"	60.9	60.3	59.7	2.9	11	4.11	243	25.1	40
50	2"	60.9	60.3	59.7	3.6	9	5.03	199	30.7	33
50	2"	60.9	60.3	59.7	4.5	7	6.19	162	37.7	27
65	2.1/2"	76.8	76.1	75.3	2.9	11	5.24	191	31.9	31
65	2.1/2"	76.8	76.1	75.3	3.6	9	6.44	155	39.3	25
65	2.1/2"	76.8	76.1	75.3	4.5	7	7.95	126	48.5	21
80	3"	89.8	88.9	88.0	3.2	10	6.76	148	41.2	24
80	3"	89.8	88.9	88.0	4.0	8	8.38	119	51.1	20
80	3"	89.8	88.9	88.0	4.8	6	9.96	100	60.7	16
90	3.1/2"	102.6	101.6	100.6	3.6	9	8.70	115	53.0	19
90	3.1/2"	102.6	101.6	100.6	4.0	8	9.63	104	58.7	17
90	3.1/2"	102.6	101.6	100.6	4.8	6	11.46	87	69.9	14
100	4"	115.4	114.3	113.2	3.6	9	9.83	102	59.9	17
100	4"	115.4	114.3	113.2	4.5	7	12.19	82	74.3	13
100	4"	115.4	114.3	113.2	5.4	5	14.50	69	88.4	11
110	4.1/4"	128.3	127.0	125.7	4.5	7	13.59	74	82.8	12
110	4.1/4"	128.3	127.0	125.7	4.8	6	14.47	69	88.2	11
110	4.1/4"	128.3	127.0	125.7	5.4	5	16.19	62	98.7	10
125	5"	141.1	139.7	138.5	4.5	7	15.00	67	91.4	11
125	5"	141.1	139.7	138.5	4.8	6	15.97	63	97.4	10
125	5"	141.1	139.7	138.5	5.4	5	17.89	56	109.1	9
135	5.1/4"	153.9	152.4	150.9	4.5	7	16.41	61	100.0	10
135	5.1/4"	153.9	152.4	150.9	4.8	6	17.47	57	106.5	9
135	5.1/4"	153.9	152.4	150.9	5.4	5	19.58	51	119.4	8



Tolerance

- Thickness (All Sizes) : ± 10%
- Mass (Single Tube) : ± 10%
- Mass (Per Load of 10T minimum) : ± 10%
- Length (m) : 4 - 12

Circular Hollow Sections (CHS)

TECHNICAL DATA FOR STEEL TUBES FOR STRUCTURAL PURPOSES, CONFORMING TO IS:1161 - 2014 EQUIVALENT TO BS:1775 - 64										
NOMINAL BORE & SERIES		OUTSIDE DIAMETER			WALL THICKNESS		NOMINAL MASS OF STEEL TUBES PLAIN END			
mm	in	Max	Mean	Min	mm	swg	kg/mtr	mts/t	kgs/20'	pcs/mt
150	6"	166.8	165.1	163.4	4.5	7	17.82	56	108.6	9
150	6"	166.8	165.1	163.4	4.8	6	18.98	53	115.7	9
150	6"	166.8	165.1	163.4	5.4	5	21.27	47	129.7	8
150	6"	166.8	165.1	163.4	5.9	4	23.20	43	141.4	7
150	6"	166.8	165.1	163.4	6.3	3	24.67	41	150.4	7
150	6"	166.8	165.1	163.4	8.0	0	30.99	32	188.9	5
150	6"	170.0	168.3	166.6	4.5	7	18.18	55	110.8	9
150	6"	170.0	168.3	166.6	4.8	6	19.35	52	118.0	8
150	6"	170.0	168.3	166.6	5.4	5	21.69	46	132.2	8
150	6"	170.0	168.3	166.6	6.3	3	25.17	40	153.4	7
150	6"	170.0	168.3	166.6	8.0	0	31.63	32	192.8	5
150	6"	170.0	168.3	166.6	10.0	0	39.04	26	238.0	4
175	7"	195.6	193.7	191.8	4.8	6	22.36	45	136.3	7
175	7"	195.6	193.7	191.8	5.4	5	25.08	40	152.9	7
175	7"	195.6	193.7	191.8	5.9	4	27.33	37	166.6	6
175	7"	195.6	193.7	191.8	6.3	3	29.12	34	177.5	6
175	7"	195.6	193.7	191.8	8.0	0	36.64	27	223.4	4
175	7"	195.6	193.7	191.8	10.0	0	45.30	22	276.1	4
200	8"	221.3	219.1	216.9	4.8	6	25.37	39	154.7	6
200	8"	221.3	219.1	216.9	5.6	5	29.49	34	179.8	6
200	8"	221.3	219.1	216.9	5.9	4	31.02	32	189.1	5
200	8"	221.3	219.1	216.9	6.3	3	33.06	30	201.5	5
200	8"	221.3	219.1	216.9	8.0	0	41.65	24	253.9	4
200	8"	221.3	219.1	216.9	10.0	0	51.57	19	314.4	3
225	9"	246.9	244.5	242.1	5.9	4	34.72	29	211.7	5
225	9"	246.9	244.5	242.1	6.3	3	37.01	27	225.6	4
225	9"	246.9	244.5	242.1	8.0	0	46.66	21	284.4	4
225	9"	246.9	244.5	242.1	10.0	0	57.83	17	352.5	3
250	10"	275.7	273.0	270.3	5.9	4	38.86	26	236.9	4
250	10"	275.7	273.0	270.3	6.3	3	41.44	24	252.6	4
250	10"	275.7	273.0	270.3	8.0	0	52.28	19	318.7	3
250	10"	275.7	273.0	270.3	10.0	0	64.86	15	395.4	3
300	12"	327.1	323.9	320.7	6.3	3	49.34	20	300.8	3
300	12"	327.1	323.9	320.7	8.0	0	62.32	16	379.9	3
300	12"	327.1	323.9	320.7	10.0	0	77.41	13	471.9	2
300	12"	327.1	323.9	320.7	12.0	0	92.30	11	562.7	2
350	14"	359.2	355.6	352.0	8.0	0	68.58	15	418.1	2
350	14"	359.2	355.6	352.0	10.0	0	85.23	12	519.6	2
350	14"	359.2	355.6	352.0	12.0	0	101.68	10	619.8	2

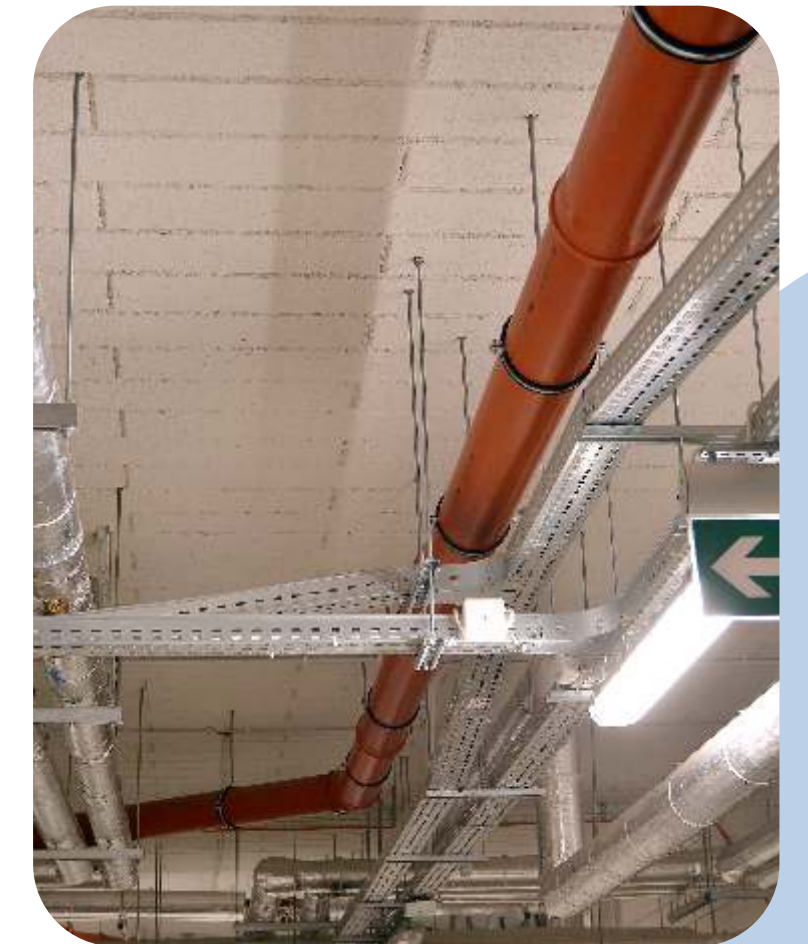


Tolerance

- Thickness (All Sizes) : ± 10%
- Mass (Single Tube) : ± 10%
- Mass (Per Load of 10T minimum) : ± 7.5%
- Length (m) : 4 - 7

Circular Hollow Sections

TECHNICAL DATA FOR STEEL PIPES FOR WATER AND SEWAGE, CONFORMING TO IS:3589 - 2001									
OUTSIDE DIAMETER			WALL THICKNESS		NOMINAL MASS OF STEEL TUBES PLAIN END				
Max	Mean	Min	mm	swg	kg/mtr	mts/t	kgs/20'	pcs/mt	
169.56	168.3	167.03	2.6	12	10.60	94	64.62	15	
			3.2	10	12.00	83	73.15	14	
			4.0	8	16.20	62	98.76	10	
220.74	219.1	217.45	4.5	7	18.20	55	110.95	9	
			2.6	12	13.90	72	84.73	12	
			3.6	9	19.10	52	116.43	9	
275.04	273.0	270.95	4.5	7	23.80	42	145.08	7	
			6.3	3	33.10	30	201.78	5	
			3.6	9	23.90	42	145.69	7	
326.32	323.9	321.47	4.0	8	31.80	31	193.85	5	
			4.5	7	35.40	28	215.80	5	
			5.6	5	44.00	23	268.22	4	
358.26	355.6	352.93	7.1	2	55.50	18	338.33	3	
			4.0	8	34.70	29	211.53	5	
			5.0	6	43.20	23	263.35	4	
409.44	406.4	403.35	5.6	5	48.30	21	294.44	3	
			8.0	0	68.60	15	418.19	2	
			4.0	8	39.70	25	242.01	4	
			5.0	6	49.50	20	301.75	3	
			6.3	3	62.20	16	379.17	3	
			8.8	0	86.30	12	526.08	2	
Manufacturing Tolerance shall be permitted on Thickness +/- 10 percent									
Hydrostatic Test Pressure is 5 Mpa									
We are equipped with inner weld scarfing (internal weld fin removal) as per customer requirement.									



Circular Hollow Sections (CHS)

TECHNICAL DATA FOR STEEL TUBES USED FOR WATER WELLS (CASING PIPES), CONFORMING TO IS:4270 - 2001

NOMINAL BORE	OUTSIDE DIAMETER			WALL THICKNESS		NOMINAL MASS OF STEEL TUBES PLAIN END			
	mm	Max	Mean	Min	mm	swg	kg/mtr	mts/t	kgs/20'
100	113.2	114.3	115.4	5.00	6	13.48	74	82.17	12
125	139.9	141.3	142.7	5.00	6	16.80	60	102.41	10
150	166.6	168.3	170.0	5.00	6	20.13	50	122.71	8
175	191.8	193.7	195.6	5.40	5	25.10	40	153.01	7
200	216.9	219.1	221.3	5.40	5	28.46	35	173.49	6
225	242.1	244.5	246.9	6.00	4	35.29	28	215.13	5
250	270.4	273.1	275.8	7.10	2	46.57	21	283.89	4
300	320.7	323.9	327.1	7.10	2	55.47	18	338.15	3
350	352.0	355.6	359.2	8.00	0	68.57	15	418.00	2
350	352.0	355.6	359.2	10.00	0	85.22	12	519.50	2
350	352.0	355.6	359.2	12.00	0	101.67	10	619.78	2
400	402.3	406.4	410.5	8.00	0	78.60	13	479.15	2
400	402.3	406.4	410.5	10.00	0	97.75	10	595.88	2
400	402.3	406.4	410.5	12.00	0	116.71	9	711.46	2

Manufacturing Tolerance shall be permitted on Thickness +15% / -12.5%

Tolerance shall be permitted on Mass +10% / -8%

The Plain end pipes shall be supplied with both ends bevelled or both ends square cut or one end bevelled and one square cut as required by the purchaser.

We are equipped with inner weld scarfing (internal weld fin removal) as per customer requirement.

Circular Hollow Sections (CHS)

TECHNICAL DATA FOR STEEL TUBES FOR IDLERS FOR BELT CONVEYORS, CONFORMING TO IS:9295 - 1983

OUTSIDE DIAMETER			WALL THICKNESS		NOMINAL MASS OF STEEL TUBES PLAIN END			
Max	Mean	Min	mm	swg	kg/mtr	mts/t	kgs/20'	pcs/mt
64.01	63.5	62.99	3.65	9	5.39	186	32.86	30
			4.50	7	6.55	153	39.93	25
76.71	76.1	75.49	3.65	9	6.52	153	39.75	25
			4.50	7	7.95	126	48.46	21
89.61	88.9	88.19	5.00	6	8.77	114	53.46	19
			4.05	8	8.47	118	51.63	19
102.41	101.6	100.79	4.85	6	10.05	100	61.26	16
			6.30	3	12.83	78	78.21	13
115.21	114.3	113.39	4.05	8	9.74	103	59.38	17
			4.85	6	11.57	86	70.53	14
128.02	127.0	125.98	6.30	3	14.81	68	90.28	11
			4.50	7	12.19	82	74.31	13
134.06	133.0	131.94	5.40	5	14.50	69	88.39	11
			6.30	3	16.78	60	102.29	10
140.82	139.7	138.58	4.50	7	13.60	74	82.91	12
			4.85	6	14.61	68	89.06	11
153.62	152.4	151.18	5.40	5	16.10	62	98.15	10
			6.30	3	18.75	53	114.30	9
160.27	159.0	157.73	4.50	7	14.30	70	87.17	11
			4.85	6	15.33	65	93.45	11
166.42	165.1	163.78	5.40	5	16.99	59	103.57	10
			6.30	3	19.69	51	120.03	8
169.65	168.3	166.95	4.50	7	15.00	67	91.44	11
			4.85	6	16.13	62	98.33	10
195.25	193.7	192.15	5.40	5	17.89	56	109.06	9
			6.30	3	20.73	48	126.37	8
220.85	219.1	217.35	4.50	7	16.40	61	99.97	10
			4.85	6	17.65	57	107.59	9
226.28	224.7	223.1	5.40	5	19.58	51	119.36	8
			6.30	3	22.70	44	138.38	7
226.28	224.7	223.1	4.50	7	17.10	58	104.24	10
			4.85	6	18.44	54	112.41	9
226.28	224.7	223.1	5.40	5	20.46	49	124.72	8
			6.30	3	23.72	42	144.60	7
226.28	224.7	223.1	4.50	7	17.80	56	108.51	9
			4.85	6	19.17	52	116.86	9
226.28	224.7	223.1	5.40	5	21.27	47	129.66	8
			6.30	3	24.67	41	150.39	7
226.28	224.7	223.1	4.50	7	18.20	55	110.95	9
			4.85	6	19.55	51	119.18	8
226.28	224.7	223.1	5.40	5	21.69	46	132.22	8
			6.30	3	25.17	40	153.44	7
226.28	224.7	223.1	5.00	6	23.30	43	142.04	7
			5.40	5	25.10	40	153.01	7
226.28	224.7	223.1	6.30	3	29.12	34	177.52	6
			7.10	2	32.67	31	199.16	5
226.28	224.7	223.1	5.40	5	28.50	35	173.74	6
			6.30	3	33.06	30	201.53	5
226.28	224.7	223.1	7.10	2	37.12	27	226.28	4



Tolerance

Thickness (All Sizes) : ± 10%

Ovality Below 168.3 mm is 0.5 mm

Ovality including 168.3 mm and above is 1.0 mm

We are equipped with inner weld scarfing (internal weld fin removal) as per customer requirement.

Circular Hollow Sections (CHS)

TECHNICAL DATA FOR STEEL TUBES FOR MECHANICAL & GENERAL ENGINEERING PURPOSES, CONFORMING TO IS:3601 - 2006								
OUTSIDE DIAMETER			WALL THICKNESS		NOMINAL MASS OF STEEL TUBES PLAIN END			
Max	Mean	Min	mm	swg	kg/mtr	mts/t	kgs/20'	pcs/mt
15.95	15.8	15.65	1.6	16	0.58	1724	3.5	283
			1.8	15	0.64	1563	3.9	256
			2.0	14	0.70	1429	4.3	234
21.45	21.3	21.15	1.8	15	0.87	1155	5.3	189
			2.0	14	0.95	1050	5.8	172
			2.6	12	1.20	833	7.3	137
			3.2	10	1.43	699	8.7	115
			4.0	8	1.71	585	10.4	96
25.58	25.4	25.22	1.6	16	0.93	1075	5.7	176
			1.8	15	1.04	962	6.3	158
			2.0	14	1.15	870	7.0	143
27.08	26.9	26.72	1.8	15	1.11	901	6.8	148
			2.0	14	1.23	813	7.5	133
			2.3	13	1.40	714	8.5	117
			2.6	12	1.56	641	9.5	105
			3.2	10	1.87	535	11.4	88
			4.0	8	2.26	442	13.8	73
31.9	31.75	31.60	1.6	16	1.20	833	7.3	137
			1.8	15	1.35	741	8.2	122
			2.0	14	1.49	671	9.1	110
33.88	33.7	33.52	2.0	14	1.56	641	9.5	105
			2.3	13	1.78	562	10.9	92
			2.6	12	1.99	503	12.1	82
			3.2	10	2.41	415	14.7	68
			4.0	8	2.93	341	17.9	56
38.28	38.1	37.92	2.0	14	1.78	562	10.9	92
			2.6	12	2.27	441	13.8	72
			3.2	10	2.75	364	16.8	60
			4.0	8	3.36	298	20.5	49
40.18	40.0	39.82	2.0	14	1.87	535	11.4	88
			2.3	13	2.13	469	13.0	77
			2.6	12	2.39	418	14.6	69
			3.2	10	3.55	282	21.6	46
42.58	42.4	42.22	2.3	13	2.27	441	13.8	72
			2.6	12	2.55	392	15.5	64
			3.2	10	3.09	324	18.8	53
			3.6	9	3.44	291	21.0	48
			4.0	8	3.79	264	23.1	43
			5.4	5	4.92	203	30.0	33

TECHNICAL DATA FOR STEEL TUBES FOR MECHANICAL & GENERAL ENGINEERING PURPOSES, CONFORMING TO IS:3601 - 2006								
OUTSIDE DIAMETER			WALL THICKNESS		NOMINAL MASS OF STEEL TUBES PLAIN END			
Max	Mean	Min	mm	swg	kg/mtr	mts/t	kgs/20'	pcs/mt
45.38	45.2	45.02	2.3	13	2.43	412	14.8	68
			2.6	12	2.73	366	16.6	60
			3.2	10	3.31	302	20.2	50
			3.6	9	3.69	271	22.5	44
			4.0	8	4.06	246	24.7	40
48.48	48.3	48.12	2.3	13	2.61	383	15.9	63
			2.6	12	2.93	341	17.9	56
			2.9	11	3.25	308	19.8	50
			3.2	10	3.56	281	21.7	46
			3.6	9	3.97	252	24.2	41
			4.0	8	4.37	229	26.6	38
			4.9	6	5.24	191	31.9	31
50.98	50.8	50.62	2.3	13	2.75	364	16.8	60
			2.6	12	3.09	324	18.8	53
			3.2	10	3.75	267	22.9	44
			3.6	9	4.19	239	25.5	39
			4.0	8	4.61	217	28.1	36
53.25	53.0	52.75	3.2	10	3.93	254	24.0	42
			4.5	7	5.38	186	32.8	30
			5.4	5	6.33	158	38.6	26
			6.3	3	7.25	138	44.2	23
			8.0	0	8.87	113	54.1	18
60.55	60.3	60.05	2.3	13	3.29	304	20.1	50
			2.6	12	3.70	270	22.6	44
			2.9	11	4.11	243	25.1	40
			3.2	10	4.51	222	27.5	36
			3.6	9	5.03	199	30.7	33
			4.0	8	5.55	180	33.8	30
			4.5	7	6.19	162	37.7	27
			8.0	0	10.31	97	62.8	16
63.75	63.5	63.25	2.3	13	3.47	288	21.2	47
			2.6	12	3.90	256	23.8	42
			3.2	10	4.75	211	29.0	35
			3.6	9	5.39	186	32.9	30
			4.5	7	6.55	153	39.9	25
76.35	76.1	75.85	2.6	12	4.71	212	28.7	35
			2.9	11	5.24	191	31.9	31
			3.2	10	5.75	174	35.1	29
			3.6	9	6.44	155	39.3	25
			4.5	7	7.95	126	48.5	21
			5.0	6	8.77	114	53.5	19
			5.4	5	9.42	106	57.4	17
			6.3	3	10.80	93	65.8	15
			7.1	2	12.10	83	73.8	14

Circular Hollow Sections (CHS)

TECHNICAL DATA FOR STEEL TUBES FOR MECHANICAL & GENERAL ENGINEERING PURPOSES, CONFORMING TO IS:3601 - 2006								
OUTSIDE DIAMETER			WALL THICKNESS		NOMINAL MASS OF STEEL TUBES PLAIN END			
Max	Mean	Min	mm	swg	kg/mtr	mts/t	kgs/20'	pcs/mt
89.21	88.9	88.59	2.9	11	6.15	163	37.5	27
			3.2	10	6.76	148	41.2	24
			4.0	8	8.38	119	51.1	20
			5.0	6	10.30	97	62.8	16
			5.4	5	11.10	90	67.7	15
			6.3	3	12.80	78	78.0	13
101.96	101.6	101.24	3.6	9	8.70	115	53.0	19
			4.0	8	9.63	104	58.7	17
			5.0	6	11.90	84	72.5	14
112.93	112.5	112.07	2.9	11	7.83	128	47.7	21
			3.2	10	8.62	116	52.5	19
114.73	114.3	113.87	3.2	10	8.77	114	53.5	19
			3.6	9	9.83	102	59.9	17
			4.5	7	12.20	82	74.4	13
			5.4	5	14.50	69	88.4	11
			6.3	3	16.80	60	102.4	10
			8.0	0	21.00	48	128.0	8
127.58	127.0	126.42	4.5	7	13.60	74	82.9	12
			5.0	6	15.00	67	91.4	11
			5.4	5	16.20	62	98.8	10
133.58	133.0	132.42	5.0	6	15.78	63	96.2	10
			6.3	3	19.68	51	120.0	8
			8.0	0	24.66	41	150.3	7
140.28	139.7	139.12	3.6	9	12.10	83	73.8	14
			4.0	8	13.40	75	81.7	12
			4.5	7	15.00	67	91.4	11
			5.0	6	16.60	60	101.2	10
			5.4	5	17.90	56	109.1	9
			6.3	3	20.70	48	126.2	8
			8.0	0	26.00	38	158.5	6
152.98	152.4	151.82	4.5	7	16.40	61	100.0	10
			4.8	6	17.60	57	107.3	9
			5.4	5	19.58	51	119.4	8
			6.3	3	22.70	44	138.4	7
158.35	159.0	159.65	4.5	7	17.10	58	104.2	10
			4.8	6	18.44	54	112.4	9
			5.4	5	20.46	49	124.7	8
			6.3	3	23.72	42	144.6	7

TECHNICAL DATA FOR STEEL TUBES FOR MECHANICAL & GENERAL ENGINEERING PURPOSES, CONFORMING TO IS:3601 - 2006								
OUTSIDE DIAMETER			WALL THICKNESS		NOMINAL MASS OF STEEL TUBES PLAIN END			
Max	Mean	Min	mm	swg	kg/mtr	mts/t	kgs/20'	pcs/mt
165.75	165.1	164.45	4.5	4.5	17.80	56	108.5	9
			5.0	5.0	19.70	51	120.1	8
			5.4	5.4	21.20	47	129.2	8
			6.3	6.3	24.80	40	151.2	7
168.95	168.3	167.65	4.0	4.0	16.20	62	98.8	10
			4.5	4.5	18.20	55	110.9	9
			5.0	5.0	20.10	50	122.5	8
			5.4	5.4	21.70	46	132.3	8
			6.3	6.3	25.20	40	153.6	7
			7.1	7.1	28.20	35	171.9	6
			8.0	8.0	31.60	32	192.6	5
194.45	193.7	192.95	5.0	5.0	23.30	43	142.0	7
			5.4	5.4	25.10	40	153.0	7
			5.9	5.9	27.30	37	166.4	6
			6.3	6.3	29.10	34	177.4	6
			8.0	8.0	36.60	27	223.1	4
219.85	219.1	218.35	4.5	4.5	23.80	42	145.1	7
			5.0	5.0	26.40	38	160.9	6
			5.6	5.6	29.50	34	179.8	6
			6.3	6.3	33.10	30	201.8	5
			8.0	8.0	41.60	24	253.6	4
245.25	244.5	243.75	5.9	5.9	34.20	29	208.5	5
			7.1	7.1	41.70	24	254.2	4
			8.0	8.0	46.10	22	281.0	4
273.75	273.0	272.25	5.0	5.0	33.00	30	201.2	5
			6.3	6.3	41.40	24	252.4	4
			7.1	7.1	46.60	21	284.1	4
			8.0	8.0	52.20	19	318.2	3
			10.0	10.0	64.90	15	395.6	3
324.65	323.9	323.15	5.6	5.6	44.00	23	268.2	4
			7.1	7.1	55.50	18	338.3	3
			8.0	8.0	62.30	16	379.8	3
			10.0	10.0	77.40	13	471.8	2
356.35	355.6	354.85	5.6	5.6	48.30	21	294.4	3
			8.0	8.0	68.60	15	418.2	2
			10.0	10.0	85.20	12	519.4	2
			11.0	11.0	93.50	11	570.0	2
			12.5	12.5	106.00	9	646.2	2
407.15	406.4	405.65	6.3	6.3	62.20	16	379.2	3
			8.8	8.8	86.30	12	526.1	2
			10.0	10.0	97.80	10	596.2	2
			12.5	12.5	121.00	8	737.6	1

Manufacturing tolerance shall be permitted on thickness ±10%
 Light & heavy thickness other than those given in the above table may be supplied as per customer requirement
 We are

Square Hollow Sections (SHS)

An Introduction

METPRO square hollow sections ranging from 15x15 to 300x300 and thickness ranging from 1.6mm to 12mm are extensively used in welded steel frames that experience load from multiple directions. The strength is spread uniformly across the pipes, making them a more suitable choice for columns. Superior quality, sturdiness, and ease of bending, punching and drilling makes us the perfect choice for every construction.

Yield Strength



210 MPa
to 550 MPa

Certified by BIS ISI mark



4923

In-house Quality Checks



On-line Eddy-Current &
Off-line chemical &
mechanical properties checks,
Hydro-Testing, UT, RT(On Demand)



Applications

- ✓ Airport Terminals, Aero-bridges and Metro Stations
- ✓ Cranes and Towers
- ✓ Material Storage Racks
- ✓ Bus Bodies and Automobile Industries
- ✓ Transmission Line Towers
- ✓ Pre fabricated houses

Square Hollow Sections (SHS)

TECHNICAL DATA FOR HOLLOW STEEL SECTIONS FOR STRUCTURAL USE CONFORMING TO IS: 4923 -2017, DIMENSIONS AND PROPERTIES OF SQUARE HOLLOW SECTIONS (SHS)

DIMENSION			DEPTH OF SECTION	WIDTH OF SECTION	THICKNESS OF SECTION	NOMINAL MASS OF STEEL TUBES PLAIN END			
mm	mm	mm	(D) mm	(B) mm	mm	kg/mtr	mts/t	kgs/20'	pcs/mt
12.0	12.0	1.8	12.0	12.0	1.8	0.51	1961	3.1	322
12.0	12.0	2.0	12.0	12.0	2.0	0.54	1852	3.3	304
15.0	15.0	1.8	15.0	15.0	1.8	0.68	1471	4.1	241
15.0	15.0	2.0	15.0	15.0	2.0	0.73	1370	4.5	225
19.0	19.0	1.8	19.0	19.0	1.8	0.90	1111	5.5	182
19.0	19.0	2.0	19.0	19.0	2.0	0.98	1020	6.0	167
20.0	20.0	2.3	20.0	20.0	2.3	1.17	855	7.1	140
20.0	20.0	2.6	20.0	20.0	2.6	1.28	781	7.8	128
25.0	25.0	2.0	25.0	25.0	2.0	1.36	735	8.3	121
25.0	25.0	2.6	25.0	25.0	2.6	1.69	592	10.3	97
25.0	25.0	3.2	25.0	25.0	3.2	1.98	505	12.1	83
30.0	30.0	2.0	30.0	30.0	2.0	1.68	595	10.2	98
30.0	30.0	2.6	30.0	30.0	2.6	2.1	476	12.8	78
32.0	32.0	2.6	32.0	32.0	2.6	2.26	442	13.8	73
32.0	32.0	3.2	32.0	32.0	3.2	2.69	372	16.4	61
32.0	32.0	4.0	32.0	32.0	4.0	3.19	313	19.4	51
38.0	38.0	2.0	38.0	38.0	2.0	2.18	459	13.3	75
38.0	38.0	2.6	38.0	38.0	2.6	2.75	364	16.8	60
38.0	38.0	3.2	38.0	38.0	3.2	3.29	304	20.1	50
38.0	38.0	4.0	38.0	38.0	4.0	3.95	253	24.1	42
40.0	40.0	2.0	40.0	40.0	2.0	2.31	433	14.1	71
40.0	40.0	2.6	40.0	40.0	2.6	2.92	342	17.8	56
40.0	40.0	3.2	40.0	40.0	3.2	3.49	287	21.3	47
40.0	40.0	4.0	40.0	40.0	4.0	4.20	238	25.6	39
45.0	45.0	2.6	45.0	45.0	2.6	3.32	301	20.2	49
45.0	45.0	3.2	45.0	45.0	3.2	3.99	251	24.3	41
45.0	45.0	4.0	45.0	45.0	4.0	4.82	207	29.4	34
45.0	45.0	4.5	45.0	45.0	4.5	5.31	188	32.4	31
49.5	49.5	2.6	49.5	49.5	2.6	3.69	271	22.5	44
49.5	49.5	3.2	49.5	49.5	3.2	4.45	225	27.1	37
49.5	49.5	4.0	49.5	49.5	4.0	5.39	186	32.9	30
60.0	60.0	2.9	60.0	60.0	2.9	5.02	199	30.6	33
60.0	60.0	3.6	60.0	60.0	3.6	6.11	164	37.2	27
60.0	60.0	4.5	60.0	60.0	4.5	7.42	135	45.2	22
72.0	72.0	3.2	72.0	72.0	3.2	6.71	149	40.9	24
72.0	72.0	4.0	72.0	72.0	4.0	8.22	122	50.1	20
72.0	72.0	4.8	72.0	72.0	4.8	9.66	104	58.9	17
72.0	72.0	6.0	72.0	72.0	6.0	11.70	85	71.3	14
80.0	80.0	2.9	80.0	80.0	2.9	6.85	146	41.8	24
80.0	80.0	4.0	80.0	80.0	4.0	9.22	108	56.2	18
80.0	80.0	6.0	80.0	80.0	6.0	13.27	75	80.9	12
80.0	80.0	8.0	80.0	80.0	8.0	16.79	60	102.4	10
91.5	91.5	3.6	91.5	91.5	3.6	9.67	103	58.9	17
91.5	91.5	4.5	91.5	91.5	4.5	11.88	84	72.4	14
91.5	91.5	5.4	91.5	91.5	5.4	14.01	71	85.4	12



Tolerance

- Thickness (All Sizes) : ± 7.5%
- Outside dimensions of sides : ±1 percent of length of the side to be measured with a minimum of ± 0.5 mm
- Weight
- Individual Length : +10 % / 8%
- On lots of 10 T : ± 7 %
- Squareness of Corner : 90 Degree ± 2 %
- External Corner Radius : 3 T, max where T is the thickness of section

Rectangle Hollow Sections (RHS)

An Introduction

METPRO rectangular hollow steel sections that range from 26x13 to 400x200 with thickness upto 12mm, give a futuristic edge to construct structures of any design and elevation. Superior quality, sturdiness, and ease of bending, punching and drilling makes us the perfect choice for every construction.

Yield Strength



210 MPa
to 550 MPa

Certified by BIS ISI mark



4923

In-house Quality Checks



On-line Eddy-Current &
Off-line chemical &
mechanical properties checks,
Hydro-Testing, UT, RT(On Demand)



Applications

- ✓ Airport Terminals, Aero-bridges and Metro Stations
- ✓ Cranes and Towers
- ✓ Material Storage Racks
- ✓ Bus Bodies and Automobile Industries
- ✓ Transmission Line Towers
- ✓ Pre fabricated houses

Rectangle Hollow Sections (RHS)

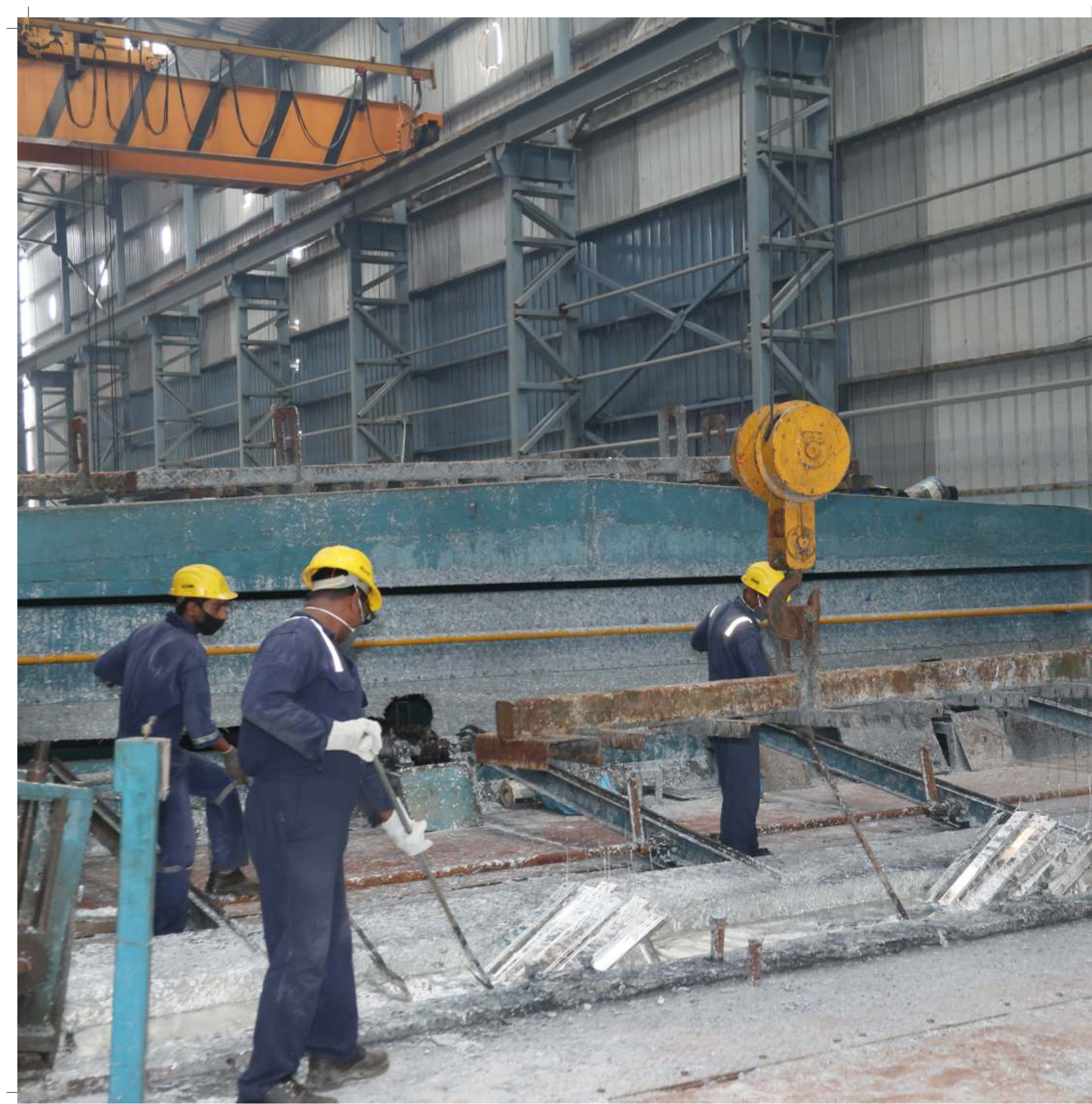
TECHNICAL DATA FOR HOLLOW STEEL SECTIONS FOR STRUCTURAL USE CONFORMING TO IS: 4923 - 2017, DIMENSIONS AND PROPERTIES OF RECTANGULAR HOLLOW SECTIONS (RHS)

DESIGNATION			DEPTH OF SECTION	WIDTH OF SECTION	THICKNESS OF SECTION	NOMINAL MASS OF STEEL TUBES PLAIN END			
mm	mm	mm	(D) mm	(B) mm	mm	kg/mtr	mts/t	kgs/20'	pcs/mt
40.0	20.0	2.9	40.0	20.0	2.9	2.51	398	15.3	65
40.0	20.0	3.2	40.0	20.0	3.2	2.74	365	16.7	60
50.0	25.0	2.9	50.0	25.0	2.9	2.98	336	18.2	55
50.0	25.0	3.2	50.0	25.0	3.2	3.24	309	19.8	51
60.0	40.0	2.9	60.0	40.0	2.9	4.12	243	25.1	40
66.0	33.0	2.6	66.0	33.0	2.6	3.69	271	22.5	44
66.0	33.0	2.9	66.0	33.0	2.9	4.07	246	24.8	40
66.0	33.0	3.6	66.0	33.0	3.6	4.93	203	30.1	33
66.0	33.0	4.5	66.0	33.0	4.5	5.95	168	36.3	28
75.0	25.0	2.6	75.0	25.0	2.6	3.73	268	22.7	44
75.0	50.0	2.9	75.0	50.0	2.9	5.25	190	32.0	31
75.0	50.0	3.2	75.0	50.0	3.2	5.75	174	35.1	29
75.0	50.0	4.0	75.0	50.0	4.0	7.02	142	42.8	23
80.0	40.0	2.9	80.0	40.0	2.9	5.03	199	30.7	33
80.0	40.0	3.2	80.0	40.0	3.2	5.50	182	33.5	30
80.0	40.0	4.0	80.0	40.0	4.0	6.71	149	40.9	24
96.0	48.0	3.2	96.0	48.0	3.2	6.71	149	40.9	24
96.0	48.0	4.0	96.0	48.0	4.0	8.22	122	50.1	20
96.0	48.0	4.8	96.0	48.0	4.8	9.66	104	58.9	17
100.0	50.0	3.2	100.0	50.0	3.2	7.01	143	42.7	23
100.0	50.0	4.0	100.0	50.0	4.0	8.59	116	52.4	19
110.0	55.0	2.5	110.0	55.0	2.5	6.15	163	37.5	27
122.0	61.0	3.6	122.0	61.0	3.6	9.67	103	58.9	17
122.0	61.0	4.5	122.0	61.0	4.5	11.88	84	72.4	14
122.0	61.0	5.4	122.0	61.0	5.4	14.01	71	85.4	12
130.0	50.0	3.0	130.0	50.0	3.0	8.01	125	48.8	20
140.0	60.0	2.5	140.0	60.0	2.5	7.53	133	45.9	22
140.0	60.0	4.0	140.0	60.0	4.0	11.73	85	71.5	14
140.0	60.0	5.0	140.0	60.0	5.0	14.41	69	87.8	11
145.0	82.0	4.8	145.0	82.0	4.8	15.92	63	97.0	10
145.0	82.0	5.4	145.0	82.0	5.4	17.74	56	108.1	9
150.0	60.0	3.0	150.0	60.0	3.0	9.43	106	57.5	17
150.0	75.0	3.0	150.0	75.0	3.0	10.13	99	61.8	16
150.0	75.0	4.5	150.0	75.0	4.5	14.85	67	90.5	11
150.0	75.0	6.0	150.0	75.0	6.0	19.33	52	117.8	8
150.0	100.0	5.0	150.0	100.0	5.0	18.33	55	111.7	9
150.0	100.0	8.0	150.0	100.0	8.0	28.10	36	171.3	6
150.0	100.0	10.0	150.0	100.0	10.0	34.09	29	207.8	5
172.0t	92.0	4.8	172.0	92.0	4.8	18.71	53	114.1	9



Tolerance

- Thickness (All Sizes) : ± 7.5%
- Outside dimensions of sides : ±1 percent of length of the side to be measured with a minimum of ± 0.5 mm
- Weight Individual Length : +10 % / 8%
- On lots of 10 T : ± 7 %
- Squareness of Corner : 90 Degree ± 2 %
- External Corner Radius : 3 T, max where T is the thickness of section



METPRO GALV

Value addition is a part of MKK's mission since the start. Moving a step ahead, MKK has set up a new 9mtr semi-automatic galvanization plant in Ranipet, Tamilnadu. Galvanization is the process of applying a protective zinc coating to steel or iron in order to prevent premature rust or corrosion. The corrosion of zinc is very slow which gives it an extended life while it protects the base metal which results in a low cost long-term.

Coating Thickness



65 μm - 150 μm

Certified by BIS ISI mark



1239, 1161, 3601

In-house Quality Checks



Uniformity test, stripping test, adhesion test, coating thickness, surface thickness



Applications

- ✓ Household Structural Application in Coastal Regions
- ✓ Structural applications (Solar power plant & wind mills)
- ✓ Plumbing and Agricultural (Water & irrigation transport)
- ✓ Greenhouse Structures
- ✓ Transmission Line Towers

We have an in-house Galvanising Plant

MKK offers GI Round Sections in sizes ranging from 15NB to 406NB and thickness and length as required by the customer. We also specialize in galvanizing of solar mounting structures, solar pump structures and such which are also manufactured in-house, making MKK a one stop solution for industrial structural needs.

Our products are -



Environmentally Sustainable



Abrasion Resistant

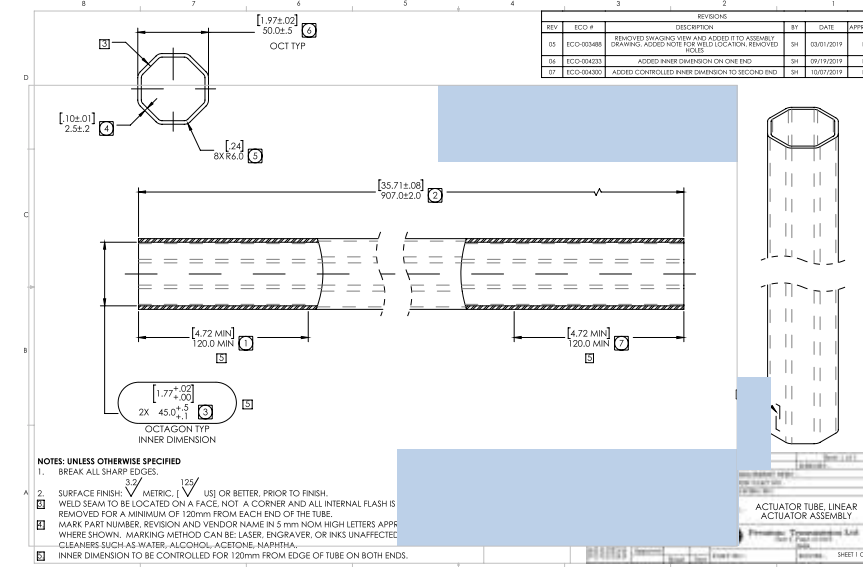


Maintenance-Free Life of 15 Years

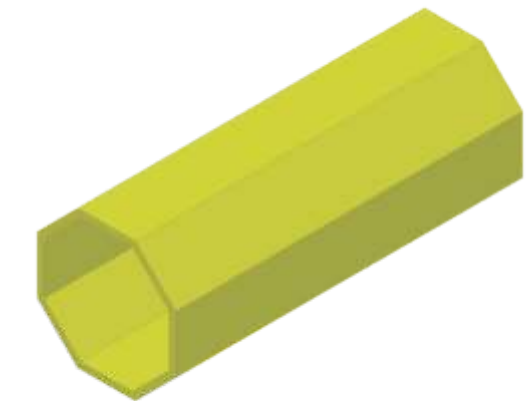
From receiving complex designs, to challenging specifications - MKK has been able to deliver what the world needs.

For a leading company in the US, MKK has provided structures of YST 550 MPa, UTS 620 Mpa, Elongation 14% and zinc coating 275 GSM

Step 1: Design Conceptualization



Step 2: 3D Drawing



Step 3: Final product



Galvanising Structures

TECHNICAL DATA FOR STEEL TUBES FOR USES IN WATER, GAS, AIR & STEAM,
CONFORMING TO IS:1239 (PART 1) 2004 EQUIVALENT TO BS: 1387 - 1985

NOMINAL BORE & CLASS		OUTSIDE DIAMETER			WALL THICKNESS		BLACK TUBE				GALVANIZED TUBE				SOCKET	
							Plain End		Screwed & Socketed		Plain End		Screwed & Socketed		Min OD	Min Length
mm/in	class	Max	Mean	Min	mm	swg	kg/mtr	mts/t	kgs/20'	pcs/mt	kg/mtr	mts/t	kgs/20'	pcs/mt	mm	mm
15 (1/2")	L	21.4	21.2	21.0	2.0	14	0.95	1056	0.96	1046	1.00	1001	1.01	992	27.0	37.0
	M	21.8	21.4	21.0	2.6	12	1.21	826	1.22	820	1.26	791	1.27	785	27.0	37.0
	H	21.8	21.4	21.0	3.2	10	1.44	694	1.45	690	1.49	669	1.50	665	27.0	37.0
20 (3/4")	L	26.9	26.7	26.4	2.3	13	1.38	725	1.39	719	1.44	694	1.45	689	32.5	39.0
	M	27.3	26.9	26.5	2.6	12	1.56	641	1.57	637	1.62	617	1.63	613	32.5	39.0
	H	27.3	26.9	26.5	3.2	10	1.87	535	1.88	532	1.92	520	1.93	517	32.5	39.0
25 (1")	L	33.8	33.5	33.2	2.6	12	1.98	505	2.00	500	2.06	485	2.08	480	39.5	46.0
	M	34.2	33.8	33.3	3.2	10	2.41	415	2.43	412	2.50	401	2.52	398	39.5	46.0
	H	34.2	33.8	33.3	4.0	8	2.93	341	2.95	339	3.03	330	3.05	328	39.5	46.0
32 (1.1/4")	L	42.5	42.2	41.9	2.6	12	2.54	394	2.57	389	2.64	379	2.67	374	49.0	51.0
	M	42.9	42.5	42.0	3.2	10	3.10	323	3.13	319	3.21	312	3.24	309	49.0	51.0
	H	42.9	42.5	42.0	4.0	8	3.79	264	3.82	262	3.89	257	3.92	255	49.0	51.0
40 (1.1/2")	L	48.4	48.1	47.8	2.9	11	3.23	310	3.27	306	3.36	298	3.40	294	56.0	51.0
	M	48.8	48.4	47.9	3.2	10	3.56	281	3.60	278	3.68	272	3.72	269	56.0	51.0
	H	48.8	48.4	47.9	4.0	8	4.37	229	4.41	227	4.49	223	4.53	221	56.0	51.0
50 (2")	2"	60.2	59.9	59.6	2.9	11	4.08	245	4.15	241	4.23	237	4.30	233	68.0	60.0
	2"	60.8	60.3	59.7	3.6	9	5.03	199	5.10	196	5.17	194	5.24	191	68.0	60.0
	2"	60.8	60.3	59.7	4.5	7	6.19	162	6.26	160	6.35	158	6.42	156	68.0	60.0
65 (2.1/2")	L	76.0	75.6	75.2	3.2	10	5.71	175	5.83	172	5.90	170	6.02	166	84.0	69.0
	M	76.6	76.0	75.3	3.6	9	6.42	156	6.54	153	6.62	151	6.74	148	84.0	69.0
	H	76.6	76.0	75.3	4.5	7	7.93	126	8.05	124	8.10	124	8.22	122	84.0	69.0
80 (93")	L	88.7	88.3	87.9	3.2	10	6.72	149	6.89	145	6.95	144	7.12	140	98.0	75.0
	M	89.5	88.8	88.0	4.0	8	8.36	120	8.53	117	8.59	116	8.76	114	98.0	75.0
	H	89.5	88.8	88.0	4.8	6	9.90	101	10.40	96	10.11	99	10.61	94	98.0	75.0
100 (4")	L	113.9	113.5	113.0	3.6	9	9.75	103	10.00	100	10.28	97	10.59	94	124.0	87.0
	M	115.0	114.1	113.1	4.5	7	12.20	82	12.50	80	12.76	78	13.26	75	124.0	87.0
	H	115.0	114.1	113.1	5.4	5	14.50	69	14.80	68	15.25	66	15.55	64	124.0	87.0
125 (5")	M	140.8	139.7	138.5	4.8	6	15.90	63	16.40	61	16.65	60	17.15	58	151.0	96.0
	H	140.8	139.7	138.5	5.4	5	17.90	56	18.40	54	18.62	54	19.12	52	151.0	96.0
150 (6")	M	166.5	165.2	163.9	4.8	6	18.90	53	19.50	51	19.70	51	20.30	49	178.0	96.0
	H	166.5	165.2	163.9	5.4	5	21.30	47	21.90	46	22.32	45	22.92	44	178.0	96.0

Tolerance

Class	Thickness	Mass (Single Tube)	Mass (per load of 10 T)	Length (unless otherwise specified)	Hydrostatic Test Pressure
L - Light	+ Not Limited - 8%	+ 10% - 8%	+ 7.5% - 5.0%	4 - 7 meters	5 MPa
M - Medium H - Heavy	+ Not Limited - 10%	+10% - 10%	+7.5% - 7.5%	4 - 7 meters	5MPa



Cantilever
Structure
Pipes & Tubes
Process

Specifications of Tubes

EQ standards	Indian (IS)	British (BS)	Japanes (JIS)	German (DIN)	American (ASTM)	European (EN)	Customer Specification
Product Type							
Automobile Tube	IS 3074	BS 6323	G 3445	DIN 2393, DIN 2394	A 513	EN 10305 - 2 & 3	
Propeller Shaft Tube	IS 3074						Yes
Shock Absorber Tube	IS 3074		G 3452	DIN 2393	A513		Yes
TFF Tube						EN 10305 - 6	Yes
*Hydraulic Cylinder Tube						EN 10305 - 5	
Section/ Structural Tube	IS 4923, IS 1161		G 3466		A500		
Bicycle Tube	IS 2039	BS 1717	G 3445				
General Engg. Tube	IS 3601	BS 6323	G 3445	DIN 2393			
Boiler Tube	IS1914	BS 3059	G 3461		A 53, A 214		
Air Heated Tube	IS 3601	BS 6323	G 3461		A214		
Bobin Textile Tubes							Yes
Heat Exchanger Tube		BS 3606	G 3461	DIN 17177	A178, A214		



Our founder recognized for our green initiative by the Union Finance Minister Mr. P Chidambaram

Clients

Unmatched quality duly certified

