



STEEL PIPES, TUBES & SECTIONS

MKK Metal Sections Pvt. Ltd.



**DRIVEN BY
ENGINEERING
EXCELLENCE**

METPRO
PRIME

METPRO
GALV

METPRO
F+RM

METPRO
ROOF

METPRO
ENVIRON

METPRO
RACK

METPRO
GUARD

Table of Contents

01. About Us

Introducing DFT	15	Metpro Prime	10.
Square Hollow Section	42	Circular Hollow Section	18
		Rectangular Hollow Sections	58

02. Founders Legacy

Metpro Galv 78.

03. Mission & Vision

Quality Certificates 85.

05. Milestones

Clients 88.



MKK Metal Sections Pvt. Ltd., was setup in 2008 by Late Mr. Mahesh Khandelwal for production of high quality ERW Pipes and Tubes. With his strategic planning, meticulous financial management, focus and vast industry experience spanning over three decades, MKK has since only flourished.

With an annual production capacity of 5,00,000 MT and a product range spanning over a thousand varieties of Circular, Square, Rectangular and Octagonal MS Black Pipe & Hollow Sections, Galvanized tubes and structures, Solar Module Mounting Structures, Shutters, Purlins, Color Coated Roofing Sheets, and various other cold roll formed sections, MKK is the largest steel product manufacturer in South India. In keeping up with the times and having a consistent eye for growth, we now also specialize in Warehouse Racking Systems & Metal Crash Barriers.

Moving ahead, MKK has set up a new state-of-the-art integrated plant which will specialize in Hot Dip Galvanizing of pipes and Structures. It can galvanize structures which are upto 8.5 meter in length and will increase our capacity by 60000 tons per annum. Our focus is to continually improve customer satisfaction by providing all services in-house.

MKK has always measured its growth in line with the value addition it has been able to provide its customers with. This value addition has been possible because of its fully integrated, ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 awarded manufacturing facility. R&D initiatives are constantly on at our workshops to enable us to lead the market with our value-added products that meet the evolving needs of a wider range of evolving automobile, construction, lifting and excavation and such industries.

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

Being the trusted suppliers of L&T, Ashok Leyland, Siemens Gamesa, Mahindra Susten, TATA Power Solar, Bharat Heavy Electricals Ltd., Adani Group and such, our quality speaks for itself. From Airports, Railway Stations, Malls, Metros, Solar Plants, Industrial and Residential Complexes, MKK has silently been a part of the country's biggest infrastructure projects.

“Work so hard, that luck has no option but to favour you”

- Shri. Maheshji Khandelwal

Born on December 22nd 1952, in the heart of the country, Gwalior, Late Shri. Mahesh Khandelwal stepped into the Iron & Steel Industry with his own trading firm in 1981, in Chennai.

From then on, his vision led him to become a major player in the pipe and tube industry. By the early 2000's, he had his heart set on building a steel plant that could constantly add value to the industry, he made sure all mills were built with avant grand technology and his workers were always well taken care of. His efforts along with his keen business sense propelled the company to grow five fold. At the Ranipet factory in Tamil Nadu, one can see the plans he created for the steel company he had dreamt of and pursued for years.

But above all, he was known for his philanthropy and dream to educate India. Through various organisations he supported education for the under-privileged, built schools to promote girls education in remote villages and also contributed in making sheds for gaushalas.

Maheshji was consumed with the passion to play a critical role in India's Make-In-India campaign and make the country's presence stronger on the global front. He laid the foundation of a galvanising plant, planned for bigger mills for ERW pipes, top of the line roll forming and a very strong infrastructural base for exports. Sadly, not all of these were materialised while he lived, but the seeds he laid, the work he did and the force of will he displayed, only push us harder in taking his inestimable legacy forward.

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



Mission

To continuously strive, excel and guarantee value addition in terms of quality, customization and service of our products while being sustainable and environmentally conscious.

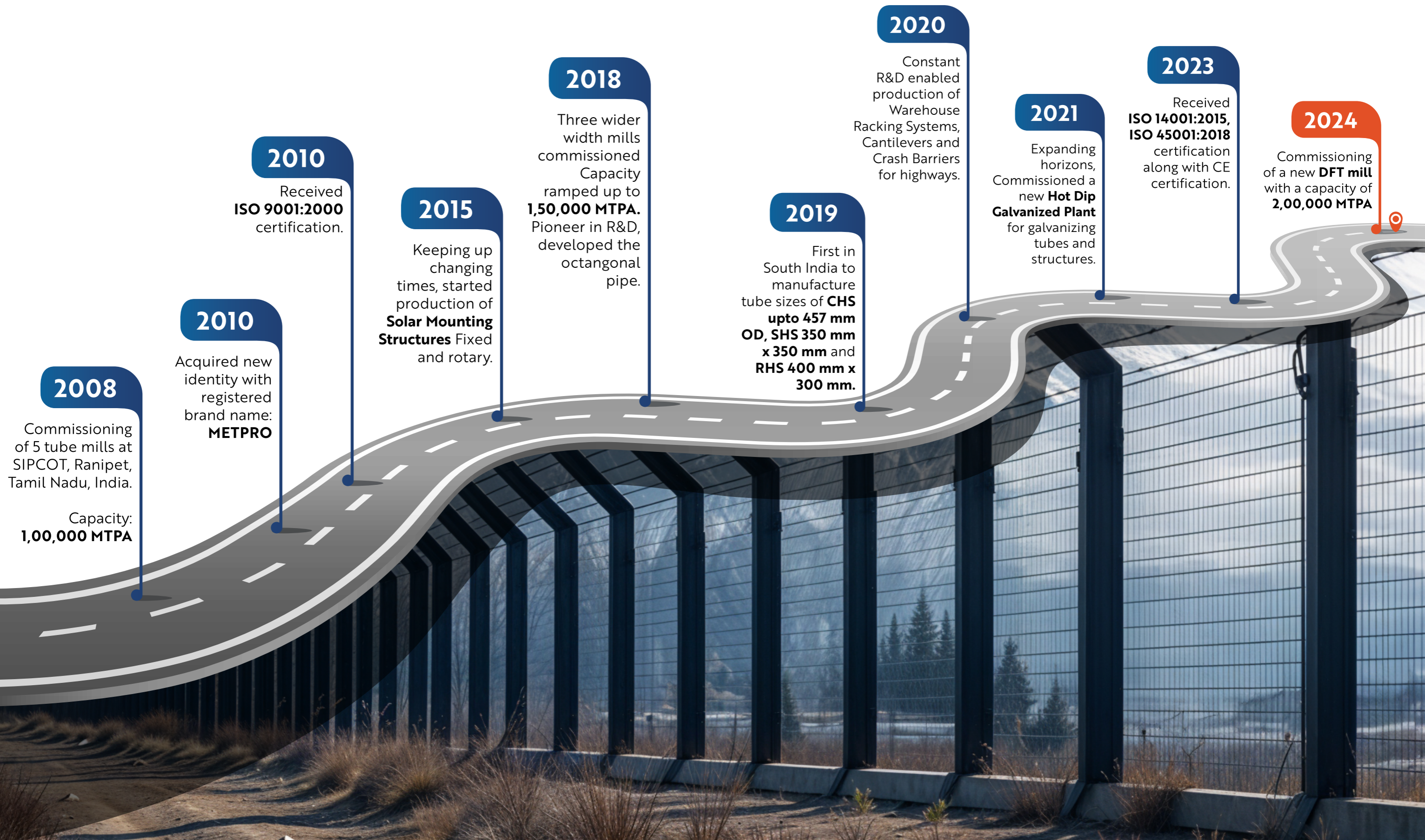
Vision

To play a pivotal role in building a strong infrastructural backbone for India while continuously building a community of strongly knit partners both within and outside the company.

A versatile business group with strong foundation



Milestones





15+
Years

1100+
Products

800+
Customers

500+
Workforce

State-of-the-art manufacturing facilities.

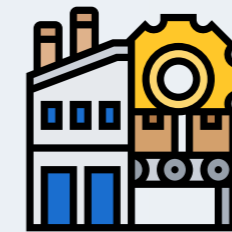
- 2 Manufacturing Units
- 32 Production Lines
- 5,00,000 MT Annual Capacity



Focussed On Engineering Excellence

METPRO PRIME

METRO 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, bevelled 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 **YST-530** are used for heavy machinery and industrial purposes.



Our Capacity
5,00,000 MT
in 9 lines

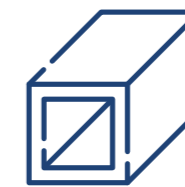
Our Product Range

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



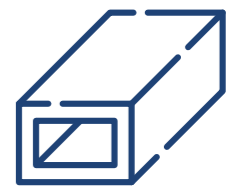
12.7 OD
457 OD

**Circular Hollow
Sections (CHS)**



15 x 15
350 x 350

**Square Hollow
Sections (SHS)**



26 x 13
400 x 300

**Rectangular Hollow
Sections (RHS)**

Applications of ERW Pipes

The products conform to the following national & international specifications.



Gas Pipelines

Steel Tubes for uses in Natural Gas, LPG, Domestic Gas lines (City Gas Distribution) and other Non - Toxic Gases.

IS:1239

Fire Fighting System

**ASTM A 53,
IS:3589, IS:1239**



Water Pipelines

Plumbing, Sewerage Systems, STP, WTP, Fire, Plant Piping, Industrial Water lines.

**IS:1239, IS:3589, ASTM A 53,
EN 10255, IS:4270**



Construction Industries

Scaffolding & Structural Purposes,
Electrical Poles, Telecom Towers

**IS:1161, IS:4923, EN 10219,
ASTM A 500, EN 10255**



Highways and Warehouses

**IS:4923, EN 10219,
ASTM A500, IS:1161**

Steel Tubes for Mechanical and General Engineering Purposes

Energy Projects, Sugar Industries,
Automobile, AeroSpace Industries,
Defence etc. **IS:3601, ASTM A513**



Steel Tube for Idlers & Belt Conveyors

IS:9295



Testimony to Our Capacity



"Certificate of Recognition"
from Government of India.

Management System Certificate



ISO 9001:2015



ISO 14001:2015



ISO 45001:2018

Product and Marking Certificate

1. EN 10219-1 :2006 - Construction Product Regulation 305/2011
2. EN 10255:2004+A 1 :2007 - Construction Product Regulation 305/2011
3. EN 10210-1 :2006 - Hot finished structural Hollow Sections of non-alloy & fine grain steels (CFCHS - Circular, CFRHS - Square & Rectangular) (Black & Galvanized)
4. SLS 829:2009 - GI Pipes
5. AFP-3206 (Activfire) for ASTM A 135/A53
6. AFP-2977 (Activfire) for AS1074
7. BIS Licenses IS 1239 (part-1), IS 3589, IS 4270, IS 1161, IS 4923, IS 3601, IS 9295, IS 18573



Conforming to the Highest Standards

Delivering High Quality

EQUIVALENT STANDARDS OF TUBES WITH APPLICATIONS

	STANDARD END USE	INDIAN	BRITISH/ EUROPEAN	AMERICAN	JAPANESE	GERMAN	AUSTRALIAN
1	Water, Gas, Steam	IS-1239	BS-1387	ASTMA-53	-	DIN-2439, 2440 & 2441	AS 1074
2	Water, Sewage	IS-3589	EN-10255	-	-	-	-
3	Structural, Scaffolding	IS-1161	"BS-1139, 6323 EN-39 EN-10219"	AST- MA-500	JIS G 3444	-	AS 1163
4	Idlers, Belt Conveyers	IS-9295	BS-6323	ASTMA-513	-	-	-
5	Water Wells, Casing	IS-4270	BS-879	-	-	-	-
6	Sectional Tubes (Sq. & Rect.)	IS-4923	-	AST- MA-500	JIS G 3466	DIN-239	AS 1163
7	Furniture Tube	IS-7138	-	-	JIS G 3445	-	-
8	Oil Pipes / Pressure	IS/ ISO-3183	EN-10217	API5L	JIS G 3452	DIN-17177	-
9	Mechanical Application	IS-3601	BS-6323	-	JIS G 3445	DIN-2393	-
10	Hydro Carbon & Process Industries	IS-6286	-	-	-	-	-
11	Boiler & APH Tubes	-	BS:3059, 6323	-	-	-	-

Introducing DFT

Direct Forming Technology (DFT) Tube Mill Revolutionizing Tube Production

Welcome to the future of tube manufacturing with our Direct Forming Technology (DFT) Tube Mill. In an era where efficiency, precision, and flexibility are paramount, our DFT Tube Mill stands at the forefront of innovation, reshaping the landscape of tube production.



What sets our DFT Tube Mill apart is its revolutionary approach to tube forming. Unlike traditional methods that involve multiple steps of bending, welding, and sizing, our DFT Tube Mill employs a direct forming process that eliminates intermediate steps, resulting in seamless, high-quality tubes in a single pass.

Key features of our DFT Tube Mill

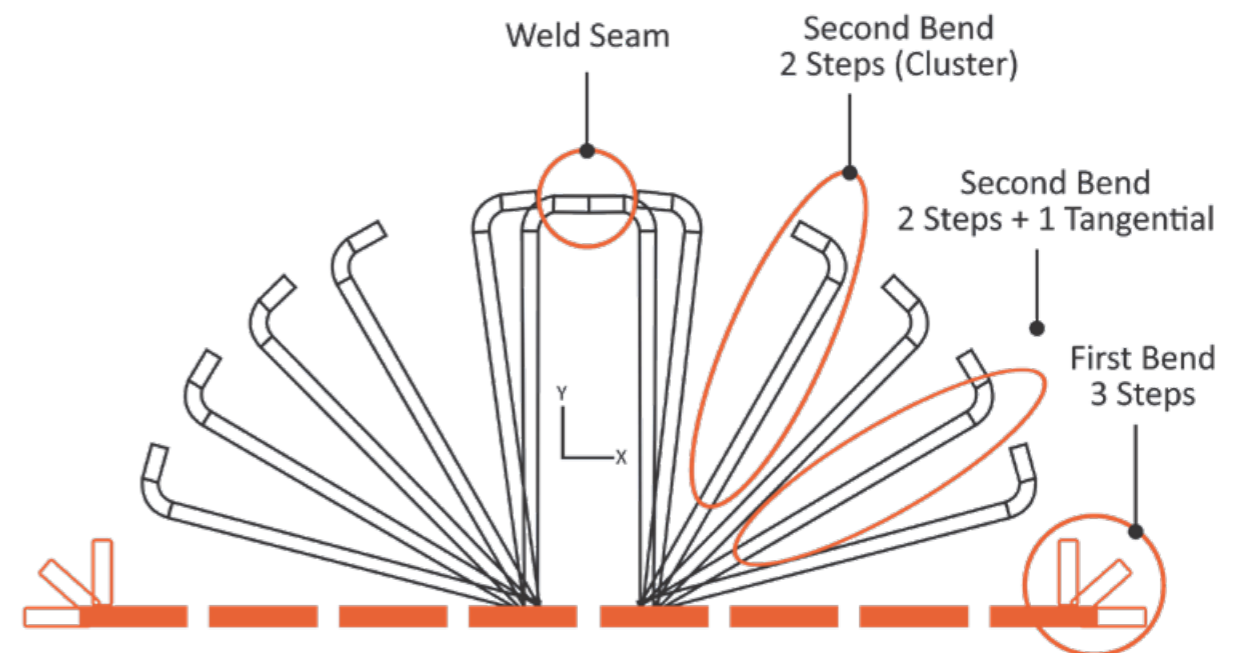
- 1 Single-Pass Efficiency:**
With DFT tube forming is accomplished in a single pass, minimizing handling and reducing production time significantly.
- 2 Precise Control:**
Advanced automation and control systems ensure precise dimensional accuracy and consistency across every tube produced, meeting even the most stringent quality standards.
- 3 Versatility:**
Our DFT Tube Mill accommodates a wide range of materials, thicknesses, and diameters, offering unparalleled versatility to meet diverse customer needs.
- 4 Cost-Effectiveness:**
By eliminating the need for multiple forming and welding steps, our DFT Tube Mill reduces labor costs, energy consumption, and material waste, resulting in substantial cost savings for our customers.

- 5 Seamless Integration:**
Designed for seamless integration into existing production lines, our DFT Tube Mill enables manufacturers to upgrade their capabilities without disrupting ongoing operations.

- 6 High-Speed Performance:**
Equipped with cutting-edge technology and high-speed components, our DFT Tube Mill delivers superior throughput and productivity, maximizing output without compromising quality.

- 7 Quality Assurance:**
Rigorous quality control measures and real-time monitoring systems ensure that every tube produced meets or exceeds customer expectations, guaranteeing satisfaction and reliability.

In conclusion, our Direct Forming Technology (DFT) Tube Mill represents a paradigm shift in tube manufacturing, offering unmatched efficiency, precision, and versatility. Embrace the future of tube production with our DFT Tube Mill and experience the transformative power of innovation in your operations. Join the ranks of industry leaders who have embraced DFT technology and stay ahead of the competition with seamless, high-quality tubes produced with unmatched speed and efficiency.



Design of Section Pipe

Circular Hollow Sections (CHS)

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 12.7 OD to 457 OD with thickness up to 12mm, MKK continually works on developing unique sizes for special applications.



Yield Strength

170 MPa to 800 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 (spectrometer) & mechanical properties checks, Hydro-Testing, UT, RT(On Demand)

Applications



Airport Terminals, Aero-bridges and Metro Stations



Bus Bodies and Automobile Industries



Transmission Line Towers



Industrial and Commercial Shed Structures



Lifting and Excavation Industries



Highway Cantilever Structures

Information on Specification, Grades & Sizes Covered in DFT

Specification	Grades	Sizes covered in SHS	Sizes covered in RHS
IS:4923	YST 210, 240, 355	100 x 100 x 2.5 to 12.7 mm	100 x 150 x 2.5 to 12.7 mm
ASTM A500	310,355	120 x 120 x 2.5 to 12.7 mm	100 x 200 x 3 to 12.7 mm
EN 10219	A500-Gr B C & D	135 x 135 x 2.5 to 12.7 mm	100 x 250 x 3 to 12.7 mm
	S235, S275, S355	150 x 150 x 3 to 12.7 mm	100 x 300 x 3 to 12.7 mm
	G40.20-13	160 x 160 x 3 to 12.7 mm	120 x 200 x 3 to 12.7 mm
	G40.21-13	180 x 180 x 3 to 12.7 mm	120 x 240 x 3 to 12.7 mm
		190 x 190 x 3 to 12.7 mm	150 x 200 x 3 to 12.7 mm
		200 x 200 x 4 to 12.7 mm	150 x 250 x 4 to 12.7 mm
		220 x 220 x 4 to 12.7 mm	150 x 300 x 4 to 12.7 mm
		250 x 250 x 4 to 12.7 mm	200 x 300 x 4 to 12.7 mm
		280 x 280 x 4 to 12.7 mm	200 x 400 x 4 to 12.7 mm
		300 x 300 x 4 to 12.7 mm	300 x 400 x 4 to 12.7 mm
		350 x 350 x 4 to 12.7 mm	

Information on Specification, Grades & Sizes Covered in DFT

Note: Sizes other than mentioned in the table can also be customized.

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

NOMINAL BORE & SERIES		OUTER 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	2.5	12	1.16	862	7.1	141
15	1/2"	21.7	21.3	20.5	3.0	11	1.35	741	8.2	122
20	3/4"	27.3	26.9	26.1	2.0	14	1.23	813	7.5	133
20	3/4"	27.3	26.9	26.1	2.5	12	1.50	667	9.1	109
20	3/4"	27.3	26.9	26.1	3.0	11	1.77	565	10.8	93
25	1"	34.1	33.7	32.9	2.0	14	1.56	641	9.5	105
25	1"	34.1	33.7	32.9	2.5	12	1.92	521	11.7	85
25	1"	34.1	33.7	32.9	3.0	11	2.27	441	13.8	72
32	1.1/4"	42.8	42.4	41.6	2.0	14	1.99	503	12.1	82
32	1.1/4"	42.8	42.4	41.6	2.5	12	2.46	407	15.0	67
32	1.1/4"	42.8	42.4	41.6	3.0	11	2.91	344	17.7	56
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	2.0	14	2.28	439	13.9	72
40	1.1/2"	48.7	48.3	47.5	2.5	12	2.82	355	17.2	58
40	1.1/2"	48.7	48.3	47.5	3.0	11	3.35	299	20.4	49
40	1.1/2"	48.7	48.3	47.5	4.0	8	4.37	229	26.6	38
40	1.1/2"	48.7	48.3	47.5	5.0	6	5.34	187	32.6	31
50	2"	60.9	60.3	59.7	2.0	14	2.88	347	17.6	57
50	2"	60.9	60.3	59.7	2.5	12	3.56	281	21.7	46
50	2"	60.9	60.3	59.7	3.0	11	4.24	236	25.8	39
50	2"	60.9	60.3	59.7	4.0	8	5.55	180	33.8	30
50	2"	60.9	60.3	59.7	5.0	6	6.82	147	41.6	24
65	2.1/2"	76.9	76.1	75.3	2.0	14	3.65	274	22.3	45
65	2.1/2"	76.9	76.1	75.3	2.5	12	4.54	220	27.7	36
65	2.1/2"	76.9	76.1	75.3	3.0	11	5.41	185	33.0	30
65	2.1/2"	76.9	76.1	75.3	4.0	8	7.11	141	43.3	23
65	2.1/2"	76.9	76.1	75.3	5.0	6	8.77	114	53.5	19
65	2.1/2"	76.9	76.1	75.3	6.0	4	10.37	96	63.2	16
65	2.1/2"	76.9	76.1	75.3	6.3	3	10.84	92	66.1	15
80	3"	89.8	88.9	88.0	2.0	14	4.29	233	26.2	38
80	3"	89.8	88.9	88.0	2.5	12	5.33	188	32.5	31
80	3"	89.8	88.9	88.0	3.0	11	6.36	157	38.8	26
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	5.0	6	10.35	97	63.1	16
80	3"	89.8	88.9	88.0	6.0	4	12.27	81	74.8	13
80	3"	89.8	88.9	88.0	6.3	3	12.83	78	78.2	13
90	3.1/2"	102.6	101.6	100.6	2.0	14	4.91	204	29.9	33
90	3.1/2"	102.6	101.6	100.6	2.5	12	6.11	164	37.2	27
90	3.1/2"	102.6	101.6	100.6	3.0	11	7.29	137	44.4	23
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	5.0	6	11.91	84	72.6	14
90	3.1/2"	102.6	101.6	100.6	6.0	4	14.15	71	86.3	12
90	3.1/2"	102.6	101.6	100.6	6.3	3	14.81	68	90.3	11

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

NOMINAL BORE & SERIES		OUTER 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
100	4"	115.4	114.3	113.2	2.5	12	6.89	145	42.0	24
100	4"	115.4	114.3	113.2	3.0	11	8.23	122	50.2	20
100	4"	115.4	114.3	113.2	4.0	8	10.88	92	66.3	15
100	4"	115.4	114.3	113.2	5.0	6	13.48	74	82.2	12
100	4"	115.4	114.3	113.2	6.0	4	16.03	62	97.7	10
100	4"	115.4	114.3	113.2	6.3	3	16.78	60	102.3	10
100	4"	115.4	114.3	113.2	8.0	0	20.97	48	127.8	8
110	4.1/4"	128.3	127.0	125.7	2.9	11	8.88	113	54.1	18
110	4.1/4"	128.3	127.0	125.7	3.2	10	9.77	102	59.6	17
110	4.1/4"	128.3	127.0	125.7	3.6	9	10.96	91	66.8	15
110	4.1/4"	128.3	127.0	125.7	4.0	8	12.13	82	73.9	14
110	4.1/4"	128.3	127.0	125.7	5.0	6	15.04	66	91.7	11
110	4.1/4"	128.3	127.0	125.7	6.0	4	17.90	56	109.1	9
110	4.1/4"	128.3	127.0	125.7	6.3	3	18.75	53	114.3	9
125	5"	141.1	139.7	138.3	3.0	11	10.11	99	61.6	16
125	5"	141.1	139.7	138.3	4.0	8	13.39	75	81.6	12
125	5"	141.1	139.7	138.3	5.0	6	16.61	60	101.3	10
125	5"	141.1	139.7	138.3	6.0	4	19.78	51	120.6	8
125	5"	141.1	139.7	138.3	6.3	3	20.73	48	126.4	8
125	5"	141.1	139.7	138.3	8.0	0	25.98	38	158.4	6
125	5"	141.1	139.7	138.3	10.0	0	31.99	31	195.0	5
135	5.1/4"	153.9	152.4	150.9	3.0	11	11.05	90	67.4	15
135	5.1/4"	153.9	152.4	150.9	4.0	8	14.64	68	89.2	11
135	5.1/4"	153.9	152.4	150.9	5.0	6	18.18	55	110.8	9
135	5.1/4"	153.9	152.4	150.9	6.0	4	21.66	46	132.0	8
135	5.1/4"	153.9	152.4	150.9	6.3	3	22.70	44	138.4	7
135	5.1/4"	153.9	152.4	150.9	8.0	0	28.49	35	173.7	6
135	5.1/4"	153.9	152.4	150.9	10.0	0	35.12	28	214.1	5
150	6"	166.8	165.1	163.4	3.0	11	11.99	83	73.1	14
150	6"	166.8	165.1	163.4	4.0	8	15.89	63	96.9	10
150	6"	166.8	165.1	163.4	5.0	6	19.74	51	120.3	8
150	6"	166.8	165.1	163.4	6.0	4	23.54	42	143.5	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	3.0	11	12.23	82	74.6	13
150	6"	170.0	168.3	166.6	4.0	8	16.21	62	98.8	10
150	6"	170.0	168.3	166.6	5.0	6	20.14	50	122.8	8
150	6"	170.0	168.3	166.6	6.0	4	24.02	42	146.4	7
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
170	6.3/4"	179.6	177.8	176.0	4.0	8	17.14	58	104.5	10
170	6.3/4"	179.6	177.8	176.0	5.0	6	21.31	47	129.9	8
170	6.3/4"	179.6	177.8	176.0	6.0	4	25.42	39	155.0	6

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

NOMINAL BORE & SERIES		OUTER 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
170	6.3/4"	179.6	177.8	176.0	6.3	3	26.65	38	162.5	6
170	6.3/4"	179.6	177.8	176.0	8.0	0	33.50	30	204.2	5
170	6.3/4"	179.6	177.8	176.0	10.0	0	41.38	24	252.3	4
170	6.3/4"	179.6	177.8	176.0	12.0	0	49.07	20	299.1	3
170	6.3/4"	179.6	177.8	176.0	12.5	0	50.96	20	310.7	3
175	7"	195.6	193.7	191.8	4.0	8	18.71	53	114.1	9
175	7"	195.6	193.7	191.8	5.0	6	23.27	43	141.9	7
175	7"	195.6	193.7	191.8	6.0	4	27.77	36	169.3	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
175	7"	195.6	193.7	191.8	12.0	0	53.77	19	327.8	3
175	7"	195.6	193.7	191.8	12.5	0	55.86	18	340.5	3
200	8"	221.3	219.1	216.9	4.0	8	21.22	47	129.4	8
200	8"	221.3	219.1	216.9	5.0	6	26.40	38	160.9	6
200	8"	221.3	219.1	216.9	6.0	4	31.53	32	192.2	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
200	8"	221.3	219.1	216.9	12.0	0	61.29	16	373.6	3
200	8"	221.3	219.1	216.9	12.5	0	63.69	16	388.3	3
225	9"	246.9	244.5	242.1	5.0	6	29.53	34	180.0	6
225	9"	246.9	244.5	242.1	6.0	4	35.29	28	215.1	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
225	9"	246.9	244.5	242.1	12.0	0	68.81	15	419.5	2
225	9"	246.9	244.5	242.1	12.5	0	71.52	14	436.0	2
250	10"	275.7	273.0	270.3	5.0	6	33.05	30	201.5	5
250	10"	275.7	273.0	270.3	6.0	4	39.51	25	240.9	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
250	10"	275.7	273.0	270.3	12.0	0	77.24	13	470.9	2
300	12"	327.1	323.9	320.7	6.0	4	47.04	21	286.8	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
300	12"	327.1	323.9	320.7	12.5	0	95.99	10	585.2	2
350	14"	359.2	355.6	352.0	5.0	6	43.23	23	263.5	4
350	14"	359.2	355.6	352.0	6.0	4	51.73	19	315.3	3
350	14"	359.2	355.6	352.0	6.3	3	54.27	18	330.8	3
350	14"	359.2	355.6	352.0	8.0	0	68.58	15	418.1	2

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

NOMINAL BORE & SERIES		OUTER 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
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
350	14"	359.2	355.6	352.0	12.5	0	105.77	9	644.8	2
400	16"	410.5	406.4	402.3	6.0	4	59.25	17	361.2	3
400	16"	410.5	406.4	402.3	6.3	3	62.16	16	378.9	3
400	16"	410.5	406.4	402.3	8.0	0	78.60	13	479.1	2
400	16"	410.5	406.4	402.3	10.0	0	97.76	10	595.9	2
400	16"	410.5	406.4	402.3	12.0	0	116.72	9	711.5	1
400	16"	410.5	406.4	402.3	12.5	0	121.43	8	740.2	1
450	18"	461.6	457.0	452.4	6.0	4	66.73	15	406.8	2
450	18"	461.6	457.0	452.4	6.3	3	70.02	14	426.8	2
450	18"	461.6	457.0	452.4	8.0	0	88.58	11	540.0	2
450	18"	461.6	457.0	452.4	10.0	0	10.11	99	61.6	16
450	18"	461.6	457.0	452.4	12.0	0	131.69	8	802.8	1
450	18"	461.6	457.0	452.4	12.5	0	137.03	7	835.3	1

Following Manufacturing Tolerance shall be permitted on Thickness and Mass

Outside dimensions of sides : Upto & Including 48.3 mm : +0.4 / -0.8 mm Over 48.3 mm : ± 1 percent of length of the side to be measured with a minimum of ± 0.5 mm	Thickness for all Sizes : ± 10 %	Length (unless otherwise specified) : 4 to 7 Meters
	Weight on Individual Length : ± 10 %	
	Weight on On lot of 10 tones : ± 7.5 %	

Light & Heavy Thickness other than those given in the above table may be supplied as per customer requirements

Customizable length upto 12 meters feasible

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

**TECHNICAL DATA FOR STEEL PIPES FOR WATER AND SEWAGE,
CONFORMING TO IS:3589 - 2001**

OUTER 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
			4.5	7	18.20	55	110.95	9
220.74	219.1	217.45	2.6	12	13.90	72	84.73	12
			3.6	9	19.10	52	116.43	9
			4.5	7	23.80	42	145.08	7
			6.3	3	33.10	30	201.78	5
275.04	273.0	270.95	3.6	9	23.90	42	145.69	7
			4.0	8	26.50	38	161.54	6
			5.0	6	33.00	30	201.17	5
			6.3	3	41.10	24	250.55	4
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
			7.1	2	55.50	18	338.33	3
358.26	355.6	352.93	4.0	8	34.70	29	211.53	5
			5.0	6	43.20	23	263.35	4
			5.6	5	48.30	21	294.44	3
			8.0	0	68.60	15	418.19	2
409.44	406.4	403.35	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
460.42	457.0	453.57	4.0	8	44.70	22	272.49	4
			5.0	6	55.70	8	339.55	3
			6.3	3	70.00	14	426.72	2
			10.0	0	110.00	9	670.56	1

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.

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

NOMINAL BORE & SERIES	OUTER DIAMETER			WALL THICKNESS		NOMINAL MASS OF STEEL TUBES PLAIN END			
mm	Max	Mean	Min	mm	swg	kg/mtr	mts/t	kgs/20'	pcs/mt
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
450	452.4	457.0	461.6	10.00	0	110.28	9	672.27	1
450	452.4	457.0	461.6	12.00	0	131.74	8	803.09	1

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

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

Hydrostatic test pressure is 7MPa

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.

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

OUTER 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
			4.85	6	10.05	100	61.26	16
102.41	101.6	100.79	6.30	3	12.83	78	78.21	13
			4.05	8	9.74	103	59.38	17
			4.85	6	11.57	86	70.53	14
115.21	114.3	113.39	6.30	3	14.81	68	90.28	11
			4.50	7	12.19	82	74.31	13
			5.40	5	14.50	69	88.39	11
128.02	127.0	125.98	6.30	3	16.78	60	102.29	10
			4.50	7	13.60	74	82.91	12
			4.85	6	14.61	68	89.06	11
134.06	133.0	131.94	5.40	5	16.10	62	98.15	10
			6.30	3	18.75	53	114.30	9
			4.50	7	14.30	70	87.17	11
140.82	139.7	138.58	4.85	6	15.33	65	93.45	11
			5.40	5	16.99	59	103.57	10
			6.30	3	19.69	51	120.03	8
153.62	152.4	151.18	4.50	7	15.00	67	91.44	11
			4.85	6	16.13	62	98.33	10
			5.40	5	17.89	56	109.06	9
160.27	159.0	157.73	6.30	3	20.73	48	126.37	8
			4.50	7	16.40	61	99.97	10
			4.85	6	17.65	57	107.59	9
			5.40	5	19.58	51	119.36	8
			6.30	3	22.70	44	138.38	7
			4.50	7	17.10	58	104.24	10
			4.85	6	18.44	54	112.41	9
			5.40	5	20.46	49	124.72	8
			6.30	3	23.72	42	144.60	7

OUTER DIAMETER			WALL THICKNESS		NOMINAL MASS OF STEEL TUBES PLAIN END			
Max	Mean	Min	mm	swg	kg/mtr	mts/t	kgs/20'	pcs/mt
166.42	165.1	163.78	4.50	7	17.80	56	108.51	9
			4.85	6	19.17	52	116.86	9
			5.40	5	21.27	47	129.66	8
169.65	168.3	166.95	6.30	3	24.67	41	150.39	7
			4.50	7	18.20	55	110.95	9
			4.85	6	19.55	51	119.18	8
195.25	193.7	192.15	5.40	5	21.69	46	132.22	8
			6.30	3	25.17	40	153.44	7
			5.00	6	23.30	43	142.04	7
220.85	219.1	217.35	5.40	5	25.10	40	153.01	7
			6.30	3	29.12	34	177.52	6
			7.10	2	32.67	31	199.16	5
			5.40	5	28.50	35	173.74	6
			6.30	3	33.06	30	201.53	5
			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.



NON- ALLOY STEEL TUBES SUITABLE FOR WELDING AND THREADING CONFIRMING TO EN 10255, TYPE L1												
SPECIFIED OUTSIDE DIAMETER	DESIGNATION OF THREAD	OUTER DIAMETER		WALL Thickness	NOMINAL MASS OF STEEL TUBES PLAIN END							
		Max	Min		Plain End				Threaded & Socketed			
mm	-	mm	mm	mm	kg/mtr	mts/t	Kgs/20'	pcs/mt	kg/ mtr	mts/t	Kgs/20'	pcs/mt
21.3	½	21.7	21.0	2.3	1.08	926	6.58	152	1.09	917	6.64	150
26.9	¾	27.1	26.4	2.3	1.39	719	8.47	118	1.40	714	8.53	117
33.7	1	34.0	33.2	2.9	2.20	455	13.41	75	2.22	450	13.53	74
42.4	1 ¼	42.7	41.9	2.9	2.82	355	17.19	58	2.85	351	17.37	58
48.3	1 ½	48.6	47.8	2.9	3.24	309	19.75	51	3.28	305	19.99	50
60.3	2	60.7	59.6	3.2	4.49	223	27.37	37	4.56	219	27.80	36
76.1	2 ½	76.3	75.2	3.2	5.73	175	34.93	29	5.85	171	35.66	28
88.9	3	89.4	87.9	3.6	7.55	132	46.02	22	7.72	130	47.06	21
114.3	4	114.9	113.0	4.0	10.80	93	65.84	15	11.10	90	67.67	15

NON- ALLOY STEEL TUBES SUITABLE FOR WELDING AND THREADING CONFIRMING TO EN 10255, TYPE L1												
SPECIFIED OUTSIDE DIAMETER	DESIGNATION OF THREAD	OUTER DIAMETER		WALL Thickness	NOMINAL MASS OF STEEL TUBES PLAIN END							
		Max	Min		Plain End				Threaded & Socketed			
mm	-	mm	mm	mm	kg/mtr	mts/t	Kgs/20'	pcs/mt	kg/ mtr	mts/t	Kgs/20'	pcs/mt
21.3	½	21.4	21.0	2.0	0.95	1056	5.77	173	0.96	1046	5.83	172
26.9	¾	26.9	26.4	2.3	1.38	725	8.41	119	1.39	719	8.47	118
33.7	1	33.8	33.2	2.6	1.98	505	12.07	83	2.00	500	12.19	82
42.4	1 ¼	42.5	41.9	2.6	2.54	394	15.48	65	2.57	389	15.67	64
48.3	1 ½	48.4	47.8	2.9	3.23	310	19.69	51	3.27	306	19.93	50
60.3	2	60.2	59.6	2.9	4.08	245	24.87	40	4.15	241	25.30	40
76.1	2 ½	76.0	75.2	3.2	5.71	175	34.81	29	5.83	172	35.54	28
88.9	3	88.7	87.9	3.2	6.72	149	40.97	24	6.89	145	42.00	24
114.3	4	113.9	113.0	3.6	9.75	103	59.44	17	10.00	100	60.96	16

Manufacturing Tolerance

THICKNESS	- 8% with the plus tolerance limited by the mass tolerance
RANDOM LENGTH	4 to 16 Mtrs (10% of sections supplied may be below the minimum for the ordered range but not shorter than 75% of the minimum range length).
MASS	+10% / -8% on Individual Tubes
LEAK TEST	Hydrostatic Test at a minimum of 50 bar for atleast 5 seconds or an Electro magnetic test

Note:

- Length other than those given in the above table may be supplied as per customer requirements.
- We are equipped with inner weld scarfing (internal weld in removal) as per customer requirement.

TECHNICAL DATA FOR COLD FORMED WELDED CIRCULAR HOLLOW SECTION OF NON-ALLOY AND FINE GRAIN STEELS. CONFIRMING TO EN 10219							
OUTER DIAMETER			WALL THICKNESS	NOMINAL MASS OF STEEL TUBES PLAIN END			
Max	Mean	Min	mm	kg/mtr	mts/t	kgs/20'	pcs/mt
21.8	21.3	20.8	2	0.95	1053	5.79	173
			2.5	1.16	862	7.07	141
			3	1.35	741	8.23	122
27.4	26.9	26.4	2	1.23	813	7.50	133
			2.5	1.5	667	9.14	109
			3	1.77	565	10.79	93
34.2	33.7	33.2	2	1.56	641	9.51	105
			2.5	1.92	521	11.70	85
			3	2.27	441	13.84	72
42.9	42.4	41.9	2	1.99	503	12.13	82
			2.5	2.46	407	15.00	67
			3	2.91	344	17.74	56
			4	3.79	264	23.10	43
48.8	48.3	47.8	2	2.28	439	13.90	72
			2.5	2.82	355	17.19	58
			3	3.35	299	20.42	49
			4	4.37	229	26.64	38
			5	5.34	187	32.55	31
60.9	60.3	59.7	2	2.88	347	17.56	57
			2.5	3.56	281	21.70	46
			3	4.24	236	25.85	39
			4	5.55	180	33.83	30
			5	6.82	147	41.57	24
76.9	76.1	75.3	2	3.65	274	22.25	45
			2.5	4.54	220	27.68	36
			3	5.41	185	32.98	30
			4	7.11	141	43.34	23
			5	8.77	114	53.46	19
			6	10.4	96	63.40	16
			6.3	10.8	93	65.84	15
89.8	88.9	88.0	2	4.29	233	26.15	38
			2.5	5.33	188	32.49	31
			3	6.36	157	38.77	26

TECHNICAL DATA FOR COLD FORMED WELDED CIRCULAR HOLLOW SECTION OF NON-ALLOY AND FINE GRAIN STEELS. CONFIRMING TO EN 10219							
OUTER DIAMETER			WALL THICKNESS	NOMINAL MASS OF STEEL TUBES PLAIN END			
Max	Mean	Min	mm	kg/mtr	mts/t	kgs/20'	pcs/mt
			4	8.38	119	51.08	20
			5	10.3	97	62.79	16
			6	12.3	81	74.98	13
			6.3	12.8	78	78.03	13
102.6	101.6	100.6	2	4.91	204	29.93	33
			2.5	6.11	164	37.25	27
			3	7.29	137	44.44	23
			4	9.63	104	58.70	17
			5	11.9	84	72.54	14
			6	14.1	71	85.95	12
			6.3	14.8	68	90.22	11
115.4	114.3	113.2	2.5	6.89	145	42.00	24
			3	8.23	122	50.17	20
			4	10.9	92	66.45	15
			5	13.5	74	82.30	12
			6	16	63	97.54	10
			6.3	16.8	60	102.41	10
			8	21	48	128.02	8
141.1	139.7	138.3	3	10.1	99	61.57	16
			4	13.4	75	81.69	12
			5	16.6	60	101.19	10
			6	19.8	51	120.70	8
			6.3	20.7	48	126.19	8
			80	26	38	158.50	6
			10	32	31	195.07	5
170.0	168.3	166.6	3	12.2	82	74.37	13
			4	16.2	62	98.76	10
			5	20.1	50	122.53	8
			6	24	42	146.30	7
			6.3	25.2	40	153.62	7
			8	31.6	32	192.63	5
			10	39	26	237.74	4
179.6	177.8	176.0	4	17.1	58	104.24	10

TECHNICAL DATA FOR COLD FORMED WELDED CIRCULAR HOLLOW SECTION OF NON-ALLOY AND FINE GRAIN STEELS. CONFIRMING TO EN 10219							
OUTER DIAMETER			WALL THICKNESS	NOMINAL MASS OF STEEL TUBES PLAIN END			
Max	Mean	Min	mm	kg/mtr	mts/t	kgs/20'	pcs/mt
			5	21.3	47	129.84	8
			6	25.4	39	154.84	6
			6.3	26.6	38	162.15	6
			80	33.5	30	204.22	5
			10	41.4	24	252.37	4
			12	49.1	20	299.31	3
			12.5	51	20	310.90	3
195.6	193.7	191.8	4	18.7	53	114.00	9
			5	23.3	43	142.04	7
			60	27.8	36	169.47	6
			6.3	28.1	34	177.39	6
			B	36.6	27	223.11	4
			10	45.3	22	276.15	4
			12	53.8	19	327.96	3
			12.5	55.9	18	340.77	3
221.3	219.1	216.9	4	21.2	47	129.24	8
			50	26.4	38	160.93	6
			6	31.5	32	192.02	5
			6.3	33.1	30	201.78	5
			8	41.6	24	253.59	4
			10	51.6	19	314.55	3
			12	61.3	16	373.68	3
			12.5	63.7	16	388.32	3
246.9	244.5	242.1	5	29.5	34	179.83	6
			6	35.3	28	215.19	5
			6.3	37	27	225.55	4
			8	46.7	21	284.68	4
			10	57.8	17	352.35	3
			12	68.8	15	419.40	2
			12.5	71.5	14	435.86	2
275.7	273	270.3	5	33	30	201.17	5
			6	38.5	25	240.79	4
			6.3	41.4	24	252.37	4

TECHNICAL DATA FOR COLD FORMED WELDED CIRCULAR HOLLOW SECTION OF NON-ALLOY AND FINE GRAIN STEELS. CONFIRMING TO EN 10219

OUTER DIAMETER			WALL THICKNESS	NOMINAL MASS OF STEEL TUBES PLAIN END			
Max	Mean	Min	mm	kg/mtr	mts/t	kgs/20'	pcs/mt
			8	52.3	19	318.82	3
			10	64.9	15	395.63	3
			12	77.2	13	470.61	2
			12.5	80.3	12	489.51	2
327.1	323.9	320.7	5	39.3	25	238.57	4
			6	47	21	286.51	3
			6.3	49.3	20	300.53	3
			8	62.3	16	378.78	3
			10	77.4	13	471.83	2
			12	92.3	11	562.66	2
			12.5	96	10	585.22	2
3592	0556	3520	5	43.2	23	263.35	4
			6	51.7	19	315.16	3
			6.3	54.3	18	331.01	3
			8	68.6	15	418.19	2
			10	85.2	12	519.38	2
			12	102	10	621.79	2
			12.5	106	9	646.18	2
410.5	406.4	402.3	6	59.2	17	360.88	3
			6.3	62.2	16	378.17	3
			8	78.6	13	478.15	2
			10	97.8	10	596.19	2
			12	117	9	713.23	1
			12.5	121	8	737.62	1
461.6	457	452.4	6	66.7	15	406.60	2
			6.3	70	14	426.72	2
			8	88.6	11	540.11	2
			100	110	9	670.56	1
			12	132	8	804.67	1
			12.5	137	7	835.15	1

Following Manufacturing Tolerance shall be permitted

Thickness	Mass	Length Random length / Unless Otherwise Specified	Straightness
For D ≤ 406.4 mm: T ≤ 5 mm ± 10% T > 5mm ± 0.5 mm For D > 406.4 mm ± 10 %	± 6 % on individual delivered lengths	"4-16 Mtrs (10 % of sections supplied may be below the min.for the ordered range but not shorter than 75 % of the min. range length).	0.20 % of total length and 3 mm over any 1 m length

Note:

- Length other than those given in the above table may be supplied as per customer requirements.
- We are equipped with inner weld scarfing (internal weld in removal) as per customer requirement.



TECHNICAL DATA FOR COLD FORMED WELDED CIRCULAR HOLLOW SECTION OF NON-ALLOY AND FINE GRAIN STEELS CONFIRMING TO EN 10210

OUTER DIAMETER			WALL THICKNESS	NOMINAL MASS OF STEEL TUBES PLAIN END			
Max	Mean	Min	mm	kg/mtr	mts/t	kgs/20'	pcs/mt
21.5	21.3	21.1	2.3	1.08	925.9	6.58	152
21.5	21.3	21.1	2.6	1.20	833.3	7.32	137
21.5	21.3	21.1	3.2	1.43	699.3	8.72	115
27.2	26.9	26.6	2.3	1.40	714.3	8.53	117
27.2	26.9	26.6	2.6	1.56	641.0	9.51	105
27.2	26.9	26.6	3.2	1.87	534.8	11.40	88
34.0	33.7	33.4	2.6	1.99	502.5	12.13	82
34.0	33.7	33.4	3.2	2.41	414.9	14.69	68
34.0	33.7	33.4	4.0	2.93	341.3	17.86	56
42.8	42.4	42.0	2.6	2.55	392.2	15.54	64
42.8	42.4	42.0	3.2	3.09	323.6	18.84	53
42.8	42.4	42.0	4.0	3.79	263.9	23.10	43
48.8	48.3	47.8	2.6	2.93	341.3	17.86	56
48.8	48.3	47.8	3.2	3.56	280.9	21.70	46
48.8	48.3	47.8	4.0	4.37	228.8	26.64	38
48.8	48.3	47.8	5.0	5.34	187.3	32.55	31
60.9	60.3	59.7	2.6	3.70	270.3	22.56	44
60.9	60.3	59.7	3.2	4.51	221.7	27.49	36
60.9	60.3	59.7	4.0	5.55	180.2	33.83	30
60.9	60.3	59.7	5.0	6.82	146.6	41.57	24
76.9	76.1	75.3	2.6	4.71	212.3	28.71	35
76.9	76.1	75.3	3.2	5.75	173.9	35.05	29
76.9	76.1	75.3	4.0	7.11	140.6	43.34	23
76.9	76.1	75.3	5.0	8.77	114.0	53.46	19
89.8	88.9	88.0	3.2	6.76	147.9	41.21	24
89.8	88.9	88.0	4.0	8.38	119.3	51.08	20
89.8	88.9	88.0	5.0	10.3	97.1	62.79	16
89.8	88.9	88.0	6.3	12.8	78.1	78.03	13
102.6	101.6	100.6	3.2	7.77	128.7	47.37	21
102.6	101.6	100.6	4.0	9.63	103.8	58.70	17
102.6	101.6	100.6	5.0	11.9	84.0	72.54	14
102.6	101.6	100.6	6.3	14.8	67.6	90.22	11
102.6	101.6	100.6	8.0	18.5	54.1	112.78	9
102.6	101.6	100.6	10.0	22.6	44.2	137.77	7
115.4	114.3	113.2	3.2	8.77	114.0	53.46	19
115.4	114.3	113.2	4.0	10.9	91.7	66.45	15
115.4	114.3	113.2	5.0	13.5	74.1	82.30	12
115.4	114.3	113.2	6.3	16.8	59.5	102.41	10
115.4	114.3	113.2	8.0	21.0	47.6	128.02	8
115.4	114.3	113.2	10.0	25.7	38.9	156.67	6
141.1	139.7	138.3	4.0	13.4	74.6	81.69	12
141.1	139.7	138.3	5.0	16.6	60.2	101.19	10

TECHNICAL DATA FOR COLD FORMED WELDED CIRCULAR HOLLOW SECTION OF NON-ALLOY AND FINE GRAIN STEELS CONFIRMING TO EN 10210

OUTER DIAMETER			WALL THICKNESS	NOMINAL MASS OF STEEL TUBES PLAIN END			
Max	Mean	Min	mm	kg/mtr	mts/t	kgs/20'	pcs/mt
141.1	139.7	138.3	6.3	20.7	48.3	126.19	8
141.1	139.7	138.3	8.0	26.0	38.5	158.50	6
141.1	139.7	138.3	10.0	32.0	31.3	195.07	5
141.1	139.7	138.3	12.5	39.2	25.5	238.96	4
170.0	168.3	166.6	4.0	16.2	61.7	98.76	10
170.0	168.3	166.6	5.0	20.1	49.8	122.53	8
170.0	168.3	166.6	6.3	25.2	39.7	153.62	7
170.0	168.3	166.6	8.0	31.6	31.6	192.63	5
170.0	168.3	166.6	10.0	39.0	25.6	237.74	4
170.0	168.3	166.6	12.5	48.0	20.8	292.61	3
179.6	177.8	176.0	5.0	21.3	46.9	129.84	8
179.6	177.8	176.0	6.3	26.6	37.6	162.15	6
179.6	177.8	176.0	8.0	33.5	29.9	204.22	5
179.6	177.8	176.0	10.0	41.4	24.2	252.37	4
179.6	177.8	176.0	12.5	51.0	19.6	310.90	3
195.6	193.7	191.8	5.0	23.3	42.9	142.04	7
195.6	193.7	191.8	6.3	29.1	34.4	177.39	6
195.6	193.7	191.8	8.0	36.6	27.3	223.11	4
195.6	193.7	191.8	10.0	45.3	22.1	276.15	4
195.6	193.7	191.8	12.5	55.9	17.9	340.77	3
195.6	193.7	191.8	14.2	62.9	15.9	383.44	3
195.6	193.7	191.8	16.0	70.1	14.3	427.33	2
221.3	219.1	216.9	5.0	26.4	37.9	160.93	6
221.3	219.1	216.9	6.3	33.1	30.2	201.78	5
221.3	219.1	216.9	8.0	41.6	24.0	253.59	4
221.3	219.1	216.9	10.0	51.6	19.4	314.55	3
221.3	219.1	216.9	12.5	63.7	15.7	388.32	3
221.3	219.1	216.9	14.2	71.8	13.9	437.69	2
221.3	219.1	216.9	16.0	80.1	12.5	488.29	2
246.9	244.5	242.1	5.0	29.5	33.9	179.83	6
246.9	244.5	242.1	6.3	37.0	27.0	225.55	4
246.9	244.5	242.1	8.0	46.7	21.4	284.68	4
246.9	244.5	242.1	10.0	57.8	17.3	352.35	3
246.9	244.5	242.1	12.5	71.5	14.0	435.86	2
246.9	244.5	242.1	14.2	80.6	12.4	491.34	2
246.9	244.5	242.1	16.0	90.2	11.1	549.86	2
275.7	273.0	270.3	5.0	33.0	30.3	201.17	5
275.7	273.0	270.3	6.3	41.4	24.2	252.37	4
275.7	273.0	270.3	8.0	52.3	19.1	318.82	3
275.7	273.0	270.3	10.0	64.9	15.4	395.63	3
275.7	273.0	270.3	12.5	80.3	12.5	489.51	2
275.7	273.0	270.3	14.2	90.6	11.0	552.30	2

TECHNICAL DATA FOR COLD FORMED WELDED CIRCULAR HOLLOW SECTION OF NON-ALLOY AND FINE GRAIN STEELS CONFIRMING TO EN 10210

OUTER DIAMETER			WALL THICKNESS	NOMINAL MASS OF STEEL TUBES PLAIN END			
Max	Mean	Min	mm	kg/mtr	mts/t	kgs/20'	pcs/mt
275.7	273.0	270.3	16.0	101.0	9.9	615.70	2
327.1	323.9	320.7	5.0	39.3	25.4	239.57	4
327.1	323.9	320.7	6.3	49.3	20.3	300.53	3
327.1	323.9	320.7	8.0	62.3	16.1	379.78	3
327.1	323.9	320.7	10.0	77.4	12.9	471.83	2
327.1	323.9	320.7	12.5	96.0	10.4	585.22	2
327.1	323.9	320.7	14.2	108.5	9.2	661.42	2
327.1	323.9	320.7	16.0	121.0	8.3	737.62	1
359.2	355.6	352.0	6.3	54.3	18.4	331.01	3
359.2	355.6	352.0	8.0	68.6	14.6	418.19	2
359.2	355.6	352.0	10.0	85.2	11.7	519.38	2
359.2	355.6	352.0	12.5	106.0	9.4	646.18	2
359.2	355.6	352.0	14.2	120.0	8.3	731.52	1
359.2	355.6	352.0	16.0	134.0	7.5	816.86	1
410.5	406.4	402.3	6.3	62.2	16.1	379.17	3
410.5	406.4	402.3	8.0	78.6	12.7	479.15	2
410.5	406.4	402.3	10.0	97.8	10.2	596.19	2
410.5	406.4	402.3	12.5	121.0	8.3	737.62	1
410.5	406.4	402.3	14.2	137.0	7.3	835.15	1
410.5	406.4	402.3	16.0	154.0	6.5	938.78	1
461.6	457.0	452.4	6.3	70.0	14.3	426.72	2
461.6	457.0	452.4	8.0	88.6	11.3	540.11	2
461.6	457.0	452.4	10.0	110.0	9.1	670.56	1
461.6	457.0	452.4	12.5	137.0	7.3	835.15	1
461.6	457.0	452.4	14.2	155.0	6.5	944.88	1
461.6	457.0	452.4	16.0	174.0	5.7	1060.70	1

Thickness	Mass	Length Random length / Unless Otherwise Specified	Straightness
- 10 % & the positive deviation is limited by the tolerance on mass	± 6 % on individual delivered lengths	"4-16 Mtrs (10 % of sections supplied may be below the minimum for the ordered range but not shorter than 75 % of the minimum range length)"	"0.20 % of total length and 3 mm over any 1 m length"

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



This specification covers Black and Zinc-Coated (Hot-Dipped Galvanized) welded steel pipe in use for fire protection systems. Dimensions, Weights, and Test Pressure For Light-Weight Fire Protection Pipe-Schedule 10

NPS DESIGNATOR	OUTSIDE DIAMETER	DIAMETER TOLERANCE		STANDARD THICKNESS		SCHEDULE	WEIGHT		TEST PRESSURE	
		min	max	mm	inch		mm	lb/ft	(psi)	kPa
-	mm			mm	inch	mm	kg/mtr	lb/ft	(psi)	kPa
¾	26.7	26.3	27.1	2.11	0.083	10	1.28	0.86	700	4800
1	33.4	33	33.8	2.77	0.109	10	2.09	1.41	700	4800
1 ¼	42.2	41.8	42.6	2.77	0.109	10	2.69	1.81	1000	6900
1 ½	48.3	47.9	48.7	2.77	0.109	10	3.11	2.09	1000	6900
2	60.3	59.7	60.9	2.77	0.109	10	3.93	2.64	1000	6900
2 ½	73	72.27	73.73	3.05	0.12	10	5.26	3.53	1000	6900
3	88.9	88.01	89.79	3.05	0.12	10	6.46	4.34	1000	6900
3 ½	101.6	100.58	102.62	3.05	0.12	10	7.41	4.98	1200	8300
4	114.3	113.16	115.44	3.05	0.12	10	8.37	5.62	1200	8300
5	141.3	139.89	142.71	3.4	0.134	10	11.58	7.78	1200	8300
6	168.3	166.62	169.98	3.4	0.134	10	13.85	9.3	1000	6900
8	219.1	216.91	221.29	4.78	0.188	10	25.26	16.96	800	5500
10	273	270.27	275.73	4.78	0.188	10	31.62	21.23	700	4800

Chemical Composition (Maximum)

Grade	C%	Manganese	Min%	P%	S%
1	33.4	33	33.8	2.77	0.109
1 ¼	42.2	41.8	42.6	2.77	0.109

Mechanical Properties

	Grade A	Grade B
Yield Strength	205 Mpa (Min)	240 Mpa (Min)
Tensile Strength	330 Mpa (Min)	415 Mpa (Min)

Technical Details:

- Characteristics** : Tolerances & Technical details
- Outside Diameter** : NPS 1 1/2 [DN 40] and under ± 0.016 inch [0.41 mm] & NPS 2 [DN 50] and over ± 1 % of OD
- Thickness** : - 12.5% of specific wall thickness.
- Weight** : For each tube ± 5% of standard weight.
- Heat Treatment** : The weld seam of pipe in Grade B shall be heat treated after welding to a minimum of 1000°F (540°C) so that no untempered martensite remains.
- Flattening Test** : Keep the weld at 0° or 90° from the line of direction of force and flatten upto 66% of OD. No cracks or breaks are allowed on the weld. Further flatten upto 33% of OD, No cracks or breaks are allowed in the material and during third step, Evidence of laminated or unsound material or of incomplete weld that is revealed during the entire flattening test shall be cause for rejection. Each length of pipe shall be tested by hydrostatic test without leakage through the pipe wall.
- Hydro Test** : Each length of pipe size 2NPS (SODN) and larger shall be tested by Eddy-Current Test.
- Nondestructive Test** : Average of two specimens 460 gm/ mtr' & Individual specimen not less than 400 gm/ mtr².
- Mass of Zinc Coating** : Black & Galvanized coating as per Customer requirement.
- Surface Protection** : Pipe shall be finished with Square cut (plain End), Bevel (ao~ +5°), Roll Groove & End Threading.
- Threading** : All threads shall be in accordance with t-aging practice and tolerances of ASME B1.20.1
- Marking (Stencilling)** : METPRO, Specification designation, Grade, Outside diameter, Thickness, Process of manufacturing & Heat No." on pipe and anything specific as per customer requirement.

PIPES CONFORMING TO ASTM A-53 GR A & B

NPS DESIGNATOR	DN DESIGNATOR	OUTSIDE DIAMETER		SCHEDULE No.	THICKNESS		MASS OF PLAIN END PIPE		HYDROSTATIC TEST PRESSURE		PIECES/ BUNDLE
		inch	mm		mm	inch	mm	lb/ft.	Kg/mtr.	Grade A-Mpa	
½	15	0.840	21.3	40	0.109	2.77	0.850	1.27	4.8	4.8	120
¾	20	1.050	26.7	40	0.113	2.87	1.130	1.69	4.8	4.8	84
1	25	1.315	33.4	40	0.133	3.38	1.680	2.50	4.8	4.8	60
1 ¼	32	1.660	42.2	40	0.140	3.56	2.270	3.39	8.3	9.0	42
1 ½	40	1.900	48.3	40	0.145	3.68	2.720	4.05	8.3	9.0	36
2	50	2.375	60.3	40	0.154	3.91	3.660	5.44	15.9	17.2	26
2 ½	65	2.874	73.0	40	0.203	5.16	5.800	8.63	17.2	17.2	18
3	80	3.500	88.9	40	0.216	5.49	7.580	11.29	15.3	17.2	14
4	100	4.500	114.3	40	0.237	6.02	10.800	16.07	13.1	15.2	10
5	125	5.563	141.3	40	0.258	6.55	14.630	21.77	11.5	13.4	7
6	150	6.625	168.3	40	0.280	7.11	18.990	28.26	10.5	12.3	7
8	200	8.625	219.1	20	0.250	6.35	22.380	33.31	7.2	8.4	-
8	200	8.625	219.1	40	0.322	8.18	28.580	42.55	9.2	10.8	-
10	250	10.750	273.1	20	0.250	6.35	28.060	41.75	5.8	6.8	-
10	250	10.750	273.1	40	0.365	9.27	40.520	60.29	8.4	9.9	-
12	300	12.750	323.9	20	0.250	6.35	33.410	49.71	4.9	5.7	-
12	300	12.750	323.9	30	0.330	8.38	43.810	65.18	6.4	7.5	-
12	300	12.750	323.9	STD	0.375	9.52	49.610	73.78	7.3	8.5	-
12	300	12.750	323.9	40	0.406	10.31	53.570	79.70	7.9	9.2	-
14	350	14.000	355.6	10	0.250	6.35	36.750	54.69	4.4	5.2	-
14	350	14.000	355.6	30	0.375	9.52	54.620	81.25	6.6	7.7	-
14	350	14.000	355.6	40	0.438	11.13	63.500	94.55	7.8	9.0	-
16	400	16.000	406.4	10	0.250	6.35	42.090	62.64	3.9	4.5	-
16	400	16.000	406.4	30	0.375	9.52	62.640	93.17	5.8	6.8	-
16	400	16.000	406.4	40	0.500	12.70	82.850	123.30	7.7	9.0	-

Tolerance

- Outside Diameter** : Pipe size upto & including DN 40 : ± 0.4 mm of OD
Pipe size DN 50 or larger : ± 1% of OD
- Thickness** : -12.5% (max) I+ not specified
- Weight** : + / - 10%

Mechanical Properties

	Grade A	Grade B
Yield Strength	205 Mpa (Min)	240 Mpa (Min)
Tensile Strength	330 Mpa (Min)	415 Mpa (Min)
Elongation	As per ASTM A-53	As per ASTM A-53

Chemical Composition (Maximum%)

Grade	Carbon	Manganese	Phosphorus	Sulphur	Copper	Nickel	Chromium	Molybdenum	Vanadium
Grade A	0.25	0.95	0.05	0.045	0.4	0.4	0.4	0.15	0.08
Grade B	0.3	1.2	0.05	0.045	0.4	0.4	0.4	0.15	0.08

Galvanizing

- As per ASTM A-53 with test method ASTM A90 / A90M
- Min. of any surface of specimen : 0.400 Kg/Mtr² (55 microns approx)
- Average of one specimens : 0.490 Kg/Mtr² (70 microns approx)
- Average of two specimens : 0.550 Kg/Mtr² (79 microns approx)

Testing

- Online NDT** : For pipes NPS 2 (DN 50) or larger Weld seam of each pipe shall be tested by eddy current
- Bend Test** : For pipe upto & including DN 50 Bending Angle : 90°
Bending Radius : 12 times to the OD of tube (no cracks in the body & weld)
- Flattening (0° & 90°)** : For pipes over DN 50
 - Flatten upto 2/3 of OD for ductility of weld
 - Flatten upto 1/3 of OD for ductility of weld
 - Full flattening for testing of lamination or unsound material

Marking/Stenciling

Online stenciling as per the standard & client requirements.

SIZE/THK	1.6	2.0	2.2	2.6	2.9	3.2	3.6	4.0	4.5	4.8	5.0	5.4	6.0	8.0	10.0	12.0
12.7 OD	✓	✓														
15.8 OD	✓	✓	✓													
19.05 OD	✓	✓	✓	✓												
21.3 OD	✓	✓	✓	✓	✓											
25.4 OD	✓	✓	✓	✓	✓	✓										
26.9 OD	✓	✓	✓	✓	✓	✓	✓									
31.75 OD	✓	✓	✓	✓	✓	✓	✓	✓								
33.7 OD	✓	✓	✓	✓	✓	✓	✓	✓	✓							
38.1 OD	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓						
40 OD	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
42.4 OD	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				
45 OD	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
48.3 OD	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
50.8 OD	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
53 OD	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
60.3 OD	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
63.5 OD	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
76.1 OD	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
88.9 OD	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
101.6 OD	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
112.5 OD	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
114.3 OD	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
127 OD	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
133 OD	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
139.7 OD	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
152.4 OD	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
159 OD	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
165.1 OD	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
168.3 OD	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
174 OD	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
193.7 OD	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
219.1 OD	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
244.5 OD	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
273 OD	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
323.9 OD	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
355 OD	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
406 OD	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
457 OD	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

(Cold-formed welded carbon steel round, square & rectangular shape structural tubing for welded, riveted, or bolted construction of bridges and buildings, and for general structural purposes)

RECTANGLE HOLLOW SECTIONS		SQUARE HOLLOW SECTIONS		CIRCULAR HOLLOW SECTIONS		CIRCULAR HOLLOW SECTIONS	
Nominal Size	Thickness Range	Nominal Size	Thickness Range	Nominal Size	Thickness Range	Nominal Size	Thickness Range
30x20	1.2mm - 2.5mm	20x20	1mm - 2.5mm	21.3	1mm - 2.5mm	48.3	1mm - 2.5mm
40x20	1.2mm - 2.9mm	25x25	1.2mm - 3.0mm	22.2	1mm - 2.5mm	50.8	1mm - 2.5mm
40x25	1.2mm - 3.0mm	30x30	1.2mm - 3.5mm	25.4	1mm - 3.5mm	60.3	1mm - 3.5mm
40x30	1.2mm - 2.5mm	31.75x31.75	1.2mm - 3.5mm	26.9	1mm - 3.5mm	63.5	1mm - 3.5mm
50x25	1.2mm - 3.2mm	40x40	1.2mm - 3.5mm	28.6	1mm - 3.5mm	69.9	1mm - 3.5mm
50x30	1.2mm - 3.5mm	50x50	1.6mm - 4.0mm	31.8	1mm - 3.5mm	73.0	1mm - 3.5mm
60x30	1.6mm - 3.5mm	60x60	1.6mm - 4.0mm	33.7	1.2mm - 4.0mm	76.1	1.2mm - 4.0mm
50x40	1.6mm - 3.5mm	70x70	2.0mm - 3.8mm	38.1	1.2mm - 4.0mm	88.9	1.2mm - 4.0mm
60x40	1.6mm - 4.0mm	80x80	2.3mm - 4.0mm	40.0	1.2mm - 4.0mm	101.6	1.2mm - 4.0mm
75x25	1.6mm - 2.5mm	90x90	2.3mm - 5.0mm	42.4	1.2mm - 4.0mm	114.3	1.2mm - 4.0mm
80x40	1.6mm - 4.0mm	101.6x101.6	2.5mm - 3.0mm	44.5	1.2mm - 4.0mm		
80x50	1.8mm - 4.0mm						
90x50	2.0mm - 3.8mm						
96x48	2.0mm - 3.8mm						
100x50	2.0mm - 3.8mm						
120x60	2.3mm - 5.0mm						

Chemical Composition (Maximum)

ELEMENTS	GRADE A & B		GRADE C	
	HEAT ANALYSIS	PRODUCT ANALYSIS	HEAT ANALYSIS	GRADE A & B
Carbon (Maximum)	0.26	0.3	0.23	0.27
Manganese (Maximum)	1.35	1.4	1.35	1.4
Phosphorus (Maximum)	0.035	0.045	0.035	0.045
Sulfur (Maximum)	0.035	0.045	0.035	0.045
Copper (Minimum)	0.2	0.18	0.2	0.18

For each reduction of 0.01 percentage point below the specified maximum for carbon, an increase of 0.06 percentage point above the specified maximum for manganese is permitted, upto a maximum of 1.50% by heat analysis and 1.60% by product analysis.

Chemical Composition (Maximum)

ELEMENTS	ROUND STRUCTURAL TUBING			ROUND STRUCTURAL TUBING		
	GRADE A	GRADE B	GRADE C	GRADE A	GRADE B	GRADE C
Tensile Strength (MPa) min	310	400	425	310	400	425
Yield Strength (MPa) min.	230	290	315	270	315	345
% Elongation in (50 mm) min.	25	25	21	25	23	21

Technical Details:

Characteristics	: Tolerances & Technical details
Outside Diameter (OD)	: For Round Pipes, OD 1.90 Inch (48.3mm) and smaller (OD) $\pm 0.50\%$ & OD 2.00 Inch (60.3mm) and larger $\pm 0.75\%$ For Square & Rectangular Section 2½ Inch [65mm] or under ± 0.020 Inch (0.50mm) Over 2½ to 3½ [65 mm to 90 mm] ± 0.025 Inch (0.60mm) Over 3½ to 5½ [90 mm to 140 mm] ± 0.030 Inch (0.80 mm) Over 5½ [140 mm] $\pm 1.0\%$ of OD
Thickness	: $\pm 10\%$ of specific wall thickness.
Length	: Pipe shall be furnished in single random length, double random length or in uniform length as per the customer requirement.
Straightness	: 2 mm/mtr
Squareness (Square & rectangular)	: $\pm 10\%$ of specific wall thickness.
Radius	: 3 times of thickness maximum
Twist	: For Square & Rectangular Section 1 ½ Inch (40mm) and under = 0.050 Inch (1.3mm) Over 1 ½ to 2½ Inch [40 mm to 65 mm] = 0.062 Inch [1.6mm] Over 2½ to 4 Inch (65 mm to 100 mm) = 0.075 Inch (1.9mm) Over 4 to 6 Inch [100 mm to 150 mm] = 0.087 Inch [2.2mm] Over 6 to 8 Inch [150 mm to 200 mm] = 0.100 Inch [2.5mm] Over 8 Inch [200mm] = 0.112 Inch [2.8mm] Keep the weld at 90° and flatten upto 66% of OD

Square Hollow Sections (SHS)

Introduction

METPRO square hollow sections ranging from 15x15 mm to 350x350 mm 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 800 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



Bus Bodies and
Automobile
Industries



Transmission
Line Towers



Cranes and
Towers



Material
Storage Racks



Pre-fabricated
houses



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
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	2.0	20.0	20.0	2.0	1.05	952	6.4	156
25.0	25.0	2.0	25.0	25.0	2.0	1.36	735	8.3	121
25.0	25.0	2.5	25.0	25.0	2.5	1.64	610	10.0	100
25.0	25.0	2.6	25.0	25.0	2.6	1.69	592	10.3	97
25.0	25.0	3.0	25.0	25.0	3.0	1.89	529	11.5	87
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	2.5	30.0	30.0	2.5	2.03	493	12.4	81
30.0	30.0	2.6	30.0	30.0	2.6	2.10	476	12.8	78
30.0	30.0	3.0	30.0	30.0	3.0	2.36	424	14.4	70
30.0	30.0	3.2	30.0	30.0	3.2	2.49	402	15.2	66
32.0	32.0	2.0	32.0	32.0	2.0	1.80	556	11.0	91
32.0	32.0	2.5	32.0	32.0	2.5	2.19	457	13.4	75
32.0	32.0	2.6	32.0	32.0	2.6	2.26	442	13.8	73
32.0	32.0	3.0	32.0	32.0	3.0	2.55	392	15.5	64
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
35.0	35.0	2.0	35.0	35.0	2.0	1.99	503	12.1	82
35.0	35.0	2.6	35.0	35.0	2.6	2.51	398	15.3	65
35.0	35.0	3.2	35.0	35.0	3.2	2.99	334	18.2	55
35.0	35.0	4.0	35.0	35.0	4.0	3.57	280	21.8	46
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	3.0	40.0	40.0	3.0	3.30	303	20.1	50
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	2.0	45.0	45.0	2.0	2.62	382	16.0	63
45.0	45.0	2.6	45.0	45.0	2.6	3.33	300	20.3	49
45.0	45.0	2.9	45.0	45.0	2.9	3.66	273	22.3	45
45.0	45.0	3.0	45.0	45.0	3.0	3.77	265	23.0	44
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	4.83	207	29.4	34
49.5	49.5	2.0	49.5	49.5	2.0	2.90	345	17.7	57
49.5	49.5	2.6	49.5	49.5	2.6	3.69	271	22.5	44

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
49.5	49.5	3.0	49.5	49.5	3.0	4.20	238	25.6	39
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
49.5	49.5	5.0	49.5	49.5	5.0	6.48	154	39.5	25
50.0	50.0	2.0	50.0	50.0	2.0	2.93	341	17.9	56
50.0	50.0	2.5	50.0	50.0	2.5	3.60	278	21.9	46
50.0	50.0	3.2	50.0	50.0	3.2	4.50	222	27.4	36
50.0	50.0	4.0	50.0	50.0	4.0	5.45	183	33.2	30
50.0	50.0	5.0	50.0	50.0	5.0	6.56	152	40.0	25
60.0	60.0	2.0	60.0	60.0	2.0	3.56	281	21.7	46
60.0	60.0	2.5	60.0	60.0	2.5	4.39	228	26.8	37
60.0	60.0	3.0	60.0	60.0	3.0	5.19	193	31.6	32
60.0	60.0	4.0	60.0	60.0	4.0	6.71	149	40.9	24
60.0	60.0	5.0	60.0	60.0	5.0	8.13	123	49.6	20
60.0	60.0	6.0	60.0	60.0	6.0	9.45	106	57.6	17
60.0	60.0	6.3	60.0	60.0	6.3	9.82	102	59.9	17
63.5	63.5	2.5	63.5	63.5	2.5	4.66	215	28.4	35
63.5	63.5	3.2	63.5	63.5	3.2	5.85	171	35.7	28
63.5	63.5	3.6	63.5	63.5	3.6	6.51	154	39.7	25
63.5	63.5	4.5	63.5	63.5	4.5	7.93	126	48.3	21
70.0	70.0	2.5	70.0	70.0	2.5	5.17	193	31.5	32
70.0	70.0	3.0	70.0	70.0	3.0	6.13	163	37.4	27
70.0	70.0	4.0	70.0	70.0	4.0	7.97	125	48.6	21
70.0	70.0	5.0	70.0	70.0	5.0	9.70	103	59.1	17
70.0	70.0	6.0	70.0	70.0	6.0	11.33	88	69.1	14
70.0	70.0	6.3	70.0	70.0	6.3	11.80	85	71.9	14
72.0	72.0	2.5	72.0	72.0	2.5	5.33	188	32.5	31
72.0	72.0	3.0	72.0	72.0	3.0	6.32	158	38.5	26
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	5.0	72.0	72.0	5.0	10.01	100	61.0	16
75.0	75.0	3.0	75.0	75.0	3.0	6.60	152	40.2	25
75.0	75.0	3.2	75.0	75.0	3.2	7.01	143	42.7	23
75.0	75.0	3.6	75.0	75.0	3.6	7.81	128	47.6	21
75.0	75.0	4.5	75.0	75.0	4.5	9.55	105	58.2	17
80.0	80.0	3.0	80.0	80.0	3.0	7.07	141	43.1	23
80.0	80.0	4.0	80.0	80.0	4.0	9.22	108	56.2	18
80.0	80.0	5.0	80.0	80.0	5.0	11.27	89	68.7	15
80.0	80.0	6.0	80.0	80.0	6.0	13.21	76	80.5	12
80.0	80.0	6.3	80.0	80.0	6.3	13.78	73	84.0	12
80.0	80.0	8.0	80.0	80.0	8.0	16.79	60	102.4	10

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
88.9	88.9	3.0	88.9	88.9	3.0	7.91	126	48.2	21
88.9	88.9	3.2	88.9	88.9	3.2	8.40	119	51.2	20
88.9	88.9	3.6	88.9	88.9	3.6	9.38	107	57.2	17
88.9	88.9	4.5	88.9	88.9	4.5	11.52	87	70.2	14
90.0	90.0	3.0	90.0	90.0	3.0	8.01	125	48.8	20
90.0	90.0	4.0	90.0	90.0	4.0	10.48	95	63.9	16
90.0	90.0	5.0	90.0	90.0	5.0	12.84	78	78.3	13
90.0	90.0	6.0	90.0	90.0	6.0	15.10	66	92.0	11
90.0	90.0	6.3	90.0	90.0	6.3	15.76	63	96.1	10
90.0	90.0	8.0	90.0	90.0	8.0	19.31	52	117.7	8
91.5	91.5	3.0	91.5	91.5	3.0	8.16	123	49.7	20
91.5	91.5	3.6	91.5	91.5	3.6	9.67	103	58.9	17
91.5	91.5	4.0	91.5	91.5	4.0	10.67	94	65.0	15
91.5	91.5	4.5	91.5	91.5	4.5	11.88	84	72.4	14
91.5	91.5	4.8	91.5	91.5	4.8	12.60	79	76.8	13
100.0	100.0	3.0	100.0	100.0	3.0	8.96	112	54.6	18
100.0	100.0	4.0	100.0	100.0	4.0	11.73	85	71.5	14
100.0	100.0	5.0	100.0	100.0	5.0	14.41	69	87.8	11
100.0	100.0	6.0	100.0	100.0	6.0	16.98	59	103.5	10
100.0	100.0	6.3	100.0	100.0	6.3	17.73	56	108.1	9
100.0	100.0	8.0	100.0	100.0	8.0	21.82	46	133.0	8
100.0	100.0	10.0	100.0	100.0	10.0	26.24	38	160.0	6
100.0	100.0	12.0	100.0	100.0	12.0	30.25	33	184.4	5
100.0	100.0	12.5	100.0	100.0	12.5	31.19	32	190.1	5
110.0	110.0	4.0	110.0	110.0	4.0	13.38	75	81.6	12
110.0	110.0	5.0	110.0	110.0	5.0	16.61	60	101.3	10
110.0	110.0	6.0	110.0	110.0	6.0	19.78	51	120.6	8
113.5	113.5	3.0	113.5	113.5	3.0	10.23	98	62.4	16
113.5	113.5	4.0	113.5	113.5	4.0	13.43	74	81.9	12
113.5	113.5	4.5	113.5	113.5	4.5	14.99	67	91.4	11
113.5	113.5	4.8	113.5	113.5	4.8	15.92	63	97.0	10
113.5	113.5	5.0	113.5	113.5	5.0	16.53	60	100.8	10
113.5	113.5	5.4	113.5	113.5	5.4	17.74	56	108.1	9
120.0	120.0	3.0	120.0	120.0	3.0	10.84	92	66.1	15
120.0	120.0	4.0	120.0	120.0	4.0	14.25	70	86.9	12
120.0	120.0	5.0	120.0	120.0	5.0	17.55	57	107.0	9
120.0	120.0	6.0	120.0	120.0	6.0	20.75	48	126.5	8
120.0	120.0	6.3	120.0	120.0	6.3	21.69	46	132.2	8
120.0	120.0	8.0	120.0	120.0	8.0	26.84	37	163.6	6
120.0	120.0	10.0	120.0	120.0	10.0	32.52	31	198.2	5
120.0	120.0	12.0	120.0	120.0	12.0	37.79	26	230.4	4
120.0	120.0	12.5	120.0	120.0	12.5	39.04	26	238.0	4

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
125.0	125.0	3.0	125.0	125.0	3.0	11.31	88	68.9	15
125.0	125.0	4.5	125.0	125.0	4.5	16.62	60	101.3	10
125.0	125.0	5.0	125.0	125.0	5.0	18.34	55	111.8	9
125.0	125.0	6.0	125.0	125.0	6.0	21.69	46	132.2	8
132.0	132.0	4.0	132.0	132.0	4.0	15.75	63	96.0	10
132.0	132.0	4.5	132.0	132.0	4.5	17.61	57	107.4	9
132.0	132.0	4.8	132.0	132.0	4.8	18.71	53	114.1	9
132.0	132.0	5.0	132.0	132.0	5.0	19.43	51	118.4	8
132.0	132.0	5.4	132.0	132.0	5.4	20.88	48	127.3	8
132.0	132.0	6.0	132.0	132.0	6.0	23.01	43	140.3	7
140.0	140.0	4.0	140.0	140.0	4.0	16.76	60	102.2	10
140.0	140.0	5.0	140.0	140.0	5.0	20.69	48	126.1	8
140.0	140.0	6.0	140.0	140.0	6.0	24.52	41	149.5	7
140.0	140.0	6.3	140.0	140.0	6.3	25.65	39	156.4	6
140.0	140.0	8.0	140.0	140.0	8.0	31.87	31	194.3	5
140.0	140.0	10.0	140.0	140.0	10.0	38.80	26	236.5	4
140.0	140.0	12.0	140.0	140.0	12.0	45.32	22	276.3	4
140.0	140.0	12.5	140.0	140.0	12.5	46.89	21	285.8	3
140.0	140.0	16.0	140.0	140.0	16.0	57.13	18	348.3	3
150.0	150.0	4.0	150.0	150.0	4.0	18.01	56	109.8	9
150.0	150.0	5.0	150.0	150.0	5.0	22.26	45	135.7	7
150.0	150.0	6.0	150.0	150.0	6.0	26.40	38	160.9	6
150.0	150.0	6.3	150.0	150.0	6.3	27.63	36	168.4	6
150.0	150.0	7.0	150.0	150.0	7.0	30.44	33	185.6	5
150.0	150.0	8.0	150.0	150.0	8.0	34.38	29	209.6	5
150.0	150.0	10.0	150.0	150.0	10.0	41.94	24	255.7	4
150.0	150.0	12.0	150.0	150.0	12.0	49.09	20	299.3	3
150.0	150.0	12.5	150.0	150.0	12.5	50.81	20	309.7	3
150.0	150.0	16.0	150.0	150.0	16.0	62.15	16	378.9	3
160.0	160.0	4.0	160.0	160.0	4.0	19.27	52	117.5	9
160.0	160.0	5.0	160.0	160.0	5.0	23.83	42	145.3	7
160.0	160.0	6.0	160.0	160.0	6.0	28.29	35	172.5	6
160.0	160.0	6.3	160.0	160.0	6.3	29.60	34	180.4	6
160.0	160.0	8.0	160.0	160.0	8.0	36.89	27	224.9	4
160.0	160.0	10.0	160.0	160.0	10.0	45.08	22	274.8	4
160.0	160.0	12.0	160.0	160.0	12.0	52.86	19	322.2	3
160.0	160.0	12.5	160.0	160.0	12.5	54.74	18	333.7	3
160.0	160.0	16.0	160.0	160.0	16.0	67.18	15	409.5	2
180.0	180.0	4.0	180.0	180.0	4.0	21.78	46	132.8	8
180.0	180.0	5.0	180.0	180.0	5.0	26.97	37	164.4	6
180.0	180.0	6.0	180.0	180.0	6.0	32.05	31	195.4	5
180.0	180.0	6.3	180.0	180.0	6.3	33.56	30	204.6	5

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
180.0	180.0	8.0	180.0	180.0	8.0	41.91	24	255.5	4
180.0	180.0	10.0	180.0	180.0	10.0	51.36	19	313.1	3
180.0	180.0	12.0	180.0	180.0	12.0	60.40	17	368.2	3
180.0	180.0	12.5	180.0	180.0	12.5	62.59	16	381.5	3
180.0	180.0	16.0	180.0	180.0	16.0	77.23	13	470.8	2
200.0	200.0	4.0	200.0	200.0	4.0	24.29	41	148.1	7
200.0	200.0	5.0	200.0	200.0	5.0	30.11	33	183.6	5
200.0	200.0	6.0	200.0	200.0	6.0	35.82	28	218.4	5
200.0	200.0	6.3	200.0	200.0	6.3	37.52	27	228.7	4
200.0	200.0	8.0	200.0	200.0	8.0	46.94	21	286.1	3
200.0	200.0	10.0	200.0	200.0	10.0	57.64	17	351.4	3
200.0	200.0	12.0	200.0	200.0	12.0	67.93	15	414.1	2
200.0	200.0	12.5	200.0	200.0	12.5	70.44	14	429.4	2
200.0	200.0	16.0	200.0	200.0	16.0	87.27	11	532.0	2
220.0	220.0	5.0	220.0	220.0	5.0	33.25	30	202.7	5
220.0	220.0	6.0	220.0	220.0	6.0	39.59	25	241.3	4
220.0	220.0	6.3	220.0	220.0	6.3	41.47	24	252.8	4
220.0	220.0	8.0	220.0	220.0	8.0	51.96	19	316.7	3
220.0	220.0	10.0	220.0	220.0	10.0	63.92	16	389.7	3
220.0	220.0	12.0	220.0	220.0	12.0	75.47	13	460.1	2
220.0	220.0	12.5	220.0	220.0	12.5	78.29	13	477.3	2
220.0	220.0	16.0	220.0	220.0	16.0	97.32	10	593.3	2
250.0	250.0	5.0	250.0	250.0	5.0	37.96	26	231.4	4
250.0	250.0	6.0	250.0	250.0	6.0	45.24	22	275.8	4
250.0	250.0	6.3	250.0	250.0	6.3	47.41	21	289.0	3
250.0	250.0	8.0	250.0	250.0	8.0	59.50	17	362.7	3
250.0	250.0	10.0	250.0	250.0	10.0	73.34	14	447.1	2
250.0	250.0	12.0	250.0	250.0	12.0	86.77	12	528.9	2
250.0	250.0	12.5	250.0	250.0	12.5	90.06	11	549.0	2
250.0	250.0	16.0	250.0	250.0	16.0	112.39	9	685.1	1
260.0	260.0	6.0	260.0	260.0	6.0	47.13	21	287.3	3
260.0	260.0	6.3	260.0	260.0	6.3	49.39	20	301.1	3
260.0	260.0	8.0	260.0	260.0	8.0	62.01	16	378.0	3
260.0	260.0	10.0	260.0	260.0	10.0	76.48	13	466.2	2
260.0	260.0	12.0	260.0	260.0	12.0	90.54	11	551.9	2
260.0	260.0	12.5	260.0	260.0	12.5	93.99	11	573.0	2
260.0	260.0	16.0	260.0	260.0	16.0	117.42	9	715.8	1
300.0	300.0	6.0	300.0	300.0	6.0	54.66	18	333.2	3
300.0	300.0	6.3	300.0	300.0	6.3	57.30	17	349.3	3
300.0	300.0	8.0	300.0	300.0	8.0	72.06	14	439.3	2
300.0	300.0	10.0	300.0	300.0	10.0	89.04	11	542.8	2
300.0	300.0	12.0	300.0	300.0	12.0	105.61	9	643.8	2

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

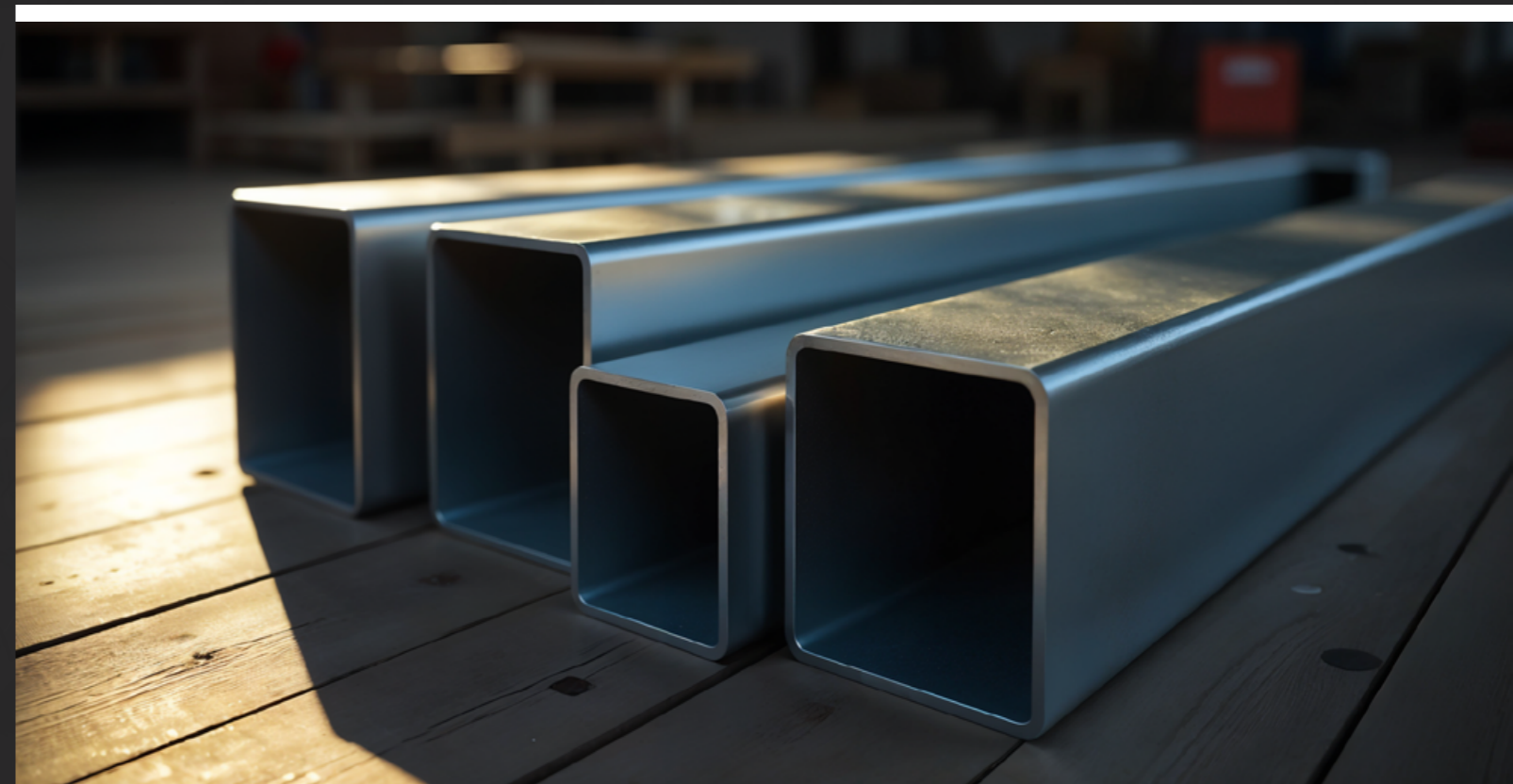
DIMENSION			DEPTH OF SECTION	WIDTH OF SECTION	THICKNESS OF SECTION	NOMINAL MASS OF STEEL TUBES PLAIN END			
mm	mm	mm	(D) mm	(B) mm	mm	kg/mtr	mts/t	kgs/20'	pcs/mt
300.0	300.0	12.5	300.0	300.0	12.5	109.69	9	668.7	1
300.0	300.0	16.0	300.0	300.0	16.0	137.51	7	838.3	1
350.0	350.0	8.0	350.0	350.0	8.0	84.62	12	515.8	2
350.0	350.0	10.0	350.0	350.0	10.0	104.74	10	638.5	2
350.0	350.0	12.0	350.0	350.0	12.0	124.45	8	758.6	1
350.0	350.0	12.5	350.0	350.0	12.5	129.31	8	788.3	1
350.0	350.0	16.0	350.0	350.0	16.0	162.63	6	991.4	1

Following Manufacturing Tolerance shall be permitted on Thickness and Mass

Outside dimensions of sides : ± 1 percent of length of the side to be measured with a minimum of ± 0.5 mm	Thickness for all Sizes : ± 7.5 percent	Squareness of Corner : 90° ± 2°	Radii of Outside Corners : 3t max, where t is the thickness of section
	Weight on Individual Length : + 10 % & - 8%		
	Weight on On lots of 10 tones : ± 7.5 %		

Light & Heavy Thickness other than those given in the above table may be supplied as per customer requirements

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



TECHNICAL DATA FOR COLD FORMED WELDED SQUARE HOLLOW SECTION OF NON-ALLOY AND FINE GRAIN STEELS. CONFIRMING TO EN 10219

DIMENSION			DEPTH OF SECTION	WIDTH OF SECTION	THICKNESS OF SECTION	NOMINAL MASS OF STEEL TUBES PLAIN END			
mm	mm	mm	(H) mm	(B) mm	mm	kg/mtr	mts/t	kgs/20'	pcs/mt
20.0	20.0	2.0	20.0	20.0	2.0	1.05	952	6.4	156
25.0	25.0	2.0	25.0	25.0	2.0	1.36	735	8.3	121
25.0	25.0	2.5	25.0	25.0	2.5	1.64	610	10.0	100
25.0	25.0	3.0	25.0	25.0	3.0	1.89	529	11.5	87
30.0	30.0	2.0	30.0	30.0	2.0	1.68	595	10.2	98
30.0	30.0	2.5	30.0	30.0	2.5	2.03	493	12.4	81
30.0	30.0	3.0	30.0	30.0	3.0	2.36	424	14.4	70
40.0	40.0	2.0	40.0	40.0	2.0	2.31	433	14.1	71
40.0	40.0	2.5	40.0	40.0	2.5	2.82	355	17.2	58
40.0	40.0	3.0	40.0	40.0	3.0	3.30	303	20.1	50
40.0	40.0	4.0	40.0	40.0	4.0	4.20	238	25.6	39
50.0	50.0	2.0	50.0	50.0	2.0	2.93	341	17.9	56
50.0	50.0	2.5	50.0	50.0	2.5	3.60	278	21.9	46
50.0	50.0	3.0	50.0	50.0	3.0	4.25	235	25.9	39
50.0	50.0	4.0	50.0	50.0	4.0	5.45	183	33.2	30
50.0	50.0	5.0	50.0	50.0	5.0	6.56	152	40.0	25
60.0	60.0	2.0	60.0	60.0	2.0	3.56	281	21.7	46
60.0	60.0	2.5	60.0	60.0	2.5	4.39	228	26.8	37
60.0	60.0	3.0	60.0	60.0	3.0	5.19	193	31.6	32
60.0	60.0	4.0	60.0	60.0	4.0	6.71	149	40.9	24
60.0	60.0	5.0	60.0	60.0	5.0	8.13	123	49.6	20
60.0	60.0	6.0	60.0	60.0	6.0	9.45	106	57.6	17
60.0	60.0	6.3	60.0	60.0	6.3	9.55	105	58.2	17
70.0	70.0	2.5	70.0	70.0	2.5	5.17	193	31.5	32
70.0	70.0	3.0	70.0	70.0	3.0	6.13	163	37.4	27
70.0	70.0	4.0	70.0	70.0	4.0	7.97	125	48.6	21
70.0	70.0	5.0	70.0	70.0	5.0	9.70	103	59.1	17
70.0	70.0	6.0	70.0	70.0	6.0	11.30	88	68.9	15
70.0	70.0	6.3	70.0	70.0	6.3	11.50	87	70.1	14
80.0	80.0	3.0	80.0	80.0	3.0	7.07	141	43.1	23
80.0	80.0	4.0	80.0	80.0	4.0	9.22	108	56.2	18
80.0	80.0	5.0	80.0	80.0	5.0	11.30	88	68.9	15
80.0	80.0	6.0	80.0	80.0	6.0	13.20	76	80.5	12
80.0	80.0	6.3	80.0	80.0	6.3	13.50	74	82.3	12
80.0	80.0	8.0	80.0	80.0	8.0	16.40	61	100.0	10
90.0	90.0	3.0	90.0	90.0	3.0	8.01	125	48.8	20
90.0	90.0	4.0	90.0	90.0	4.0	10.50	95	64.0	16
90.0	90.0	5.0	90.0	90.0	5.0	12.80	78	78.0	13
90.0	90.0	6.0	90.0	90.0	6.0	15.10	66	92.0	11
90.0	90.0	6.3	90.0	90.0	6.3	15.50	65	94.5	11
90.0	90.0	8.0	90.0	90.0	8.0	18.90	53	115.2	9

TECHNICAL DATA FOR COLD FORMED WELDED SQUARE HOLLOW SECTION OF NON-ALLOY AND FINE GRAIN STEELS. CONFIRMING TO EN 10219

DIMENSION			DEPTH OF SECTION	WIDTH OF SECTION	THICKNESS OF SECTION	NOMINAL MASS OF STEEL TUBES PLAIN END			
mm	mm	mm	(H) mm	(B) mm	mm	kg/mtr	mts/t	kgs/20'	pcs/mt
100.0	100.0	3.0	100.0	100.0	3.0	8.96	112	54.6	18
100.0	100.0	4.0	100.0	100.0	4.0	11.70	85	71.3	14
100.0	100.0	5.0	100.0	100.0	5.0	14.40	69	87.8	11
100.0	100.0	6.0	100.0	100.0	6.0	17.00	59	103.6	10
100.0	100.0	6.3	100.0	100.0	6.3	17.50	57	106.7	9
100.0	100.0	8.0	100.0	100.0	8.0	21.40	47	130.5	8
100.0	100.0	10.0	100.0	100.0	10.0	25.60	39	156.1	6
100.0	100.0	12.0	100.0	100.0	12.0	28.30	35	172.5	6
100.0	100.0	12.5	100.0	100.0	12.5	29.10	34	177.4	6
120.0	120.0	3.0	120.0	120.0	3.0	10.80	93	65.8	15
120.0	120.0	4.0	120.0	120.0	4.0	14.20	70	86.6	12
120.0	120.0	5.0	120.0	120.0	5.0	17.50	57	106.7	9
120.0	120.0	6.0	120.0	120.0	6.0	20.70	48	126.2	8
120.0	120.0	6.3	120.0	120.0	6.3	21.40	47	130.5	8
120.0	120.0	8.0	120.0	120.0	8.0	26.40	38	160.9	6
120.0	120.0	10.0	120.0	120.0	10.0	31.80	31	193.9	6
120.0	120.0	12.0	120.0	120.0	12.0	35.80	28	218.2	5
120.0	120.0	12.5	120.0	120.0	12.5	36.90	27	224.9	4
140.0	140.0	4.0	140.0	140.0	4.0	16.80	60	102.4	10
140.0	140.0	5.0	140.0	140.0	5.0	20.70	48	126.2	8
140.0	140.0	6.0	140.0	140.0	6.0	24.50	41	149.4	7
140.0	140.0	6.3	140.0	140.0	6.3	25.40	39	154.8	6
140.0	140.0	8.0	140.0	140.0	8.0	31.40	32	191.4	5
140.0	140.0	10.0	140.0	140.0	10.0	38.10	26	232.3	4
140.0	140.0	12.0	140.0	140.0	12.0	43.40	23	264.6	4
140.0	140.0	12.5	140.0	140.0	12.5	44.80	22	273.1	4
150.0	150.0	4.0	150.0	150.0	4.0	18.00	56	109.7	9
150.0	150.0	5.0	150.0	150.0	5.0	22.30	45	135.9	7
150.0	150.0	6.0	150.0	150.0	6.0	26.40	38	160.9	6
150.0	150.0	6.3	150.0	150.0	6.3	27.40	36	167	6
150.0	150.0	8.0	150.0	150.0	8.0	33.90	29	206.7	5
150.0	150.0	10.0	150.0	150.0	10.0	41.30	24	251.8	4
150.0	150.0	12.0	150.0	150.0	12.0	47.10	21	287.1	3
150.0	150.0	12.5	150.0	150.0	12.5	48.70	21	296.9	3
160.0	160.0	4.0	160.0	160.0	4.0	19.30	52	117.7	8
160.0	160.0	5.0	160.0	160.0	5.0	23.80	42	145.1	7
160.0	160.0	6.0	160.0	160.0	6.0	28.30	35	172.5	6
160.0	160.0	6.3	160.0	160.0	6.3	29.30	34	178.6	6
160.0	160.0	8.0	160.0	160.0	8.0	36.50	27	222.5	4
160.0	160.0	10.0	160.0	160.0	10.0	44.40	23	270.7	4

TECHNICAL DATA FOR COLD FORMED WELDED SQUARE HOLLOW SECTION OF NON-ALLOY AND FINE GRAIN STEELS. CONFIRMING TO EN 10219

DIMENSION			DEPTH OF SECTION	WIDTH OF SECTION	THICKNESS OF SECTION	NOMINAL MASS OF STEEL TUBES PLAIN END			
mm	mm	mm	(H) mm	(B) mm	mm	kg/mtr	mts/t	kgs/20'	pcs/mt
160.0	160.0	12.0	160.0	160.0	12.0	50.90	20	310.3	3
160.0	160.0	12.5	160.0	160.0	12.5	52.60	19	320.6	3
180.0	180.0	4.0	180.0	180.0	4.0	21.80	46	132.9	8
180.0	180.0	5.0	180.0	180.0	5.0	27.00	37	164.6	6
180.0	180.0	6.0	180.0	180.0	6.0	32.10	31	195.7	5
180.0	180.0	6.3	180.0	180.0	6.3	33.30	30	203.0	5
180.0	180.0	8.0	180.0	180.0	8.0	41.50	24	253.0	4
180.0	180.0	10.0	180.0	180.0	10.0	50.70	20	309.1	3
180.0	180.0	12.0	180.0	180.0	12.0	58.50	17	356.6	3
180.0	180.0	12.5	180.0	180.0	12.5	60.50	17	368.8	3
200.0	200.0	4.0	200.0	200.0	4.0	24.30	41	148.1	7
200.0	200.0	5.0	200.0	200.0	5.0	30.10	33	183.5	5
200.0	200.0	6.0	200.0	200.0	6.0	35.60	28	217.0	5
200.0	200.0	6.3	200.0	200.0	6.3	37.20	27	226.8	4
200.0	200.0	8.0	200.0	200.0	8.0	46.50	22	283.5	4
200.0	200.0	10.0	200.0	200.0	10.0	57.00	18	347.5	3
200.0	200.0	12.0	200.0	200.0	12.0	66.00	15	402.3	2
200.0	200.0	12.5	200.0	200.0	12.5	68.30	15	416.4	2
220.0	220.0	5.0	220.0	220.0	5.0	33.20	30	202.4	5
220.0	220.0	6.0	220.0	220.0	6.0	39.60	25	241.4	4
220.0	220.0	6.3	220.0	220.0	6.3	41.20	24	251.2	4
220.0	220.0	8.0	220.0	220.0	8.0	51.50	19	313.9	3
220.0	220.0	10.0	220.0	220.0	10.0	63.20	16	385.3	3
220.0	220.0	12.0	220.0	220.0	12.0	73.50	14	448.1	2
220.0	220.0	12.5	220.0	220.0	12.5	76.20	13	464.5	2
250.0	250.0	5.0	250.0	250.0	5.0	38.00	26	231.6	4
250.0	250.0	6.0	250.0	250.0	6.0	45.20	22	275.5	4
250.0	250.0	6.3	250.0	250.0	6.3	47.10	21	287.1	3
250.0	250.0	8.0	250.0	250.0	8.0	59.10	17	360.3	3
250.0	250.0	10.0	250.0	250.0	10.0	72.70	14	443.2	2
250.0	250.0	12.0	250.0	250.0	12.0	84.80	12	516.9	2
250.0	250.0	12.5	250.0	250.0	12.5	88.00	11	536.4	2
260.0	260.0	6.0	260.0	260.0	6.0	47.10	21	287.1	3
260.0	260.0	6.3	260.0	260.0	6.3	49.10	20	299.3	3
260.0	260.0	8.0	260.0	260.0	8.0	61.60	16	375.5	3
260.0	260.0	10.0	260.0	260.0	10.0	75.80	13	462.1	2
280.0	280.0	12.0	280.0	280.0	12.0	88.60	11	540.1	2
260.0	260.0	12.5	260.0	260.0	12.5	91.90	11	560.2	2
300.0	300.0	6.0	300.0	300.0	6.0	54.70	18	333.5	3
300.0	300.0	6.3	300.0	300.0	6.3	57.00	18	347.5	3
300.0	300.0	8.0	300.0	300.0	8.0	71.60	14	436.5	2

TECHNICAL DATA FOR COLD FORMED WELDED SQUARE HOLLOW SECTION OF NON-ALLOY AND FINE GRAIN STEELS. CONFIRMING TO EN 10219

DIMENSION			DEPTH OF SECTION	WIDTH OF SECTION	THICKNESS OF SECTION	NOMINAL MASS OF STEEL TUBES PLAIN END			
mm	mm	mm	(H) mm	(B) mm	mm	kg/mtr	mts/t	kgs/20'	pcs/mt
300.0	300.0	10.0	300.0	300.0	10.0	88.40	11	538.9	2
300.0	300.0	12.0	300.0	300.0	12.0	104.00	10	634.0	2
300.0	300.0	12.5	300.0	300.0	12.5	108.00	9	658.4	2
350.0	350.0	8.0	350.0	350.0	8.0	84.20	12	513.3	2
350.0	350.0	10.0	350.0	350.0	10.0	104.00	10	634.0	2
350.0	350.0	12.0	350.0	350.0	12.0	123.00	8	749.8	1
350.0	350.0	12.5	350.0	350.0	12.5	127.00	8	774.2	1

Following Manufacturing Tolerance shall be permitted on Thickness and Mass

Outside dimensions of sides : $H, B < 100 : \pm 1\%$ with a min of 0.5mm $100 \leq H, B \leq 200 : \pm 0.8\%$ $H, B > 200 : \pm 0.6\%$	Thickness: $T \leq 5\text{mm} : \pm 10\%$ $T > 5\text{mm} : \pm 0.5\text{mm}$	Length (Random length / Unless Otherwise Specified) 4-16 Mtrs (10 % of sections supplied may be below the min. for the ordered range but not shorter than 75 % of the min. range length).
External corner profile: $T \leq 6\text{mm} : 1.6T \text{ to } 2.4T$ $6 < T \leq 10\text{mm} : 2.0T \text{ to } 3.0T$ $10 < T \text{ mm} : 2.4T \text{ to } 3.6T$	Twist: 2.0mm plus 0.5mm / mtrs length	
Squareness of sides: 90 Degree ± 1 Degree	Weight: $\pm 6\%$ on individual delivered lengths	Straightness: 0.15 % of total length and 3 mm over any 1 mtr Length
	Concavity/Convexity: Max. 0.8% with a minimum of 0.5mm	

Note:

- Length other than those given in the above table may be supplied as per customer requirements.
- We are equipped with inner weld scarfing (internal weld in removal) as per customer requirement.



TECHNICAL DATA FOR COLD FORMED WELDED RECTANGULAR HOLLOW SECTION OF NON-ALLOY AND FINE GRAIN STEELS. CONFIRMING TO EN 10210

DIMENSION			DEPTH OF SECTION	WIDTH OF SECTION	THICKNESS OF SECTION	NOMINAL MASS OF STEEL TUBES PLAIN END			
mm	mm	mm	(H) mm	(B) mm	mm	kg/mtr	mts/t	kgs/20'	pcs/mt
20	20	2.0	20	20	2.0	1.05	952	6.4	156
25	25	2.0	25	25	2.0	1.36	735	8.3	121
25	25	2.5	25	25	2.5	1.64	610	10.0	100
25	25	3.0	25	25	3.0	1.89	529	11.5	87
30	30	2.0	30	30	2.0	1.68	595	10.2	98
30	30	2.5	30	30	2.5	2.03	493	12.4	81
30	30	3.0	30	30	3.0	2.36	424	14.4	70
40	40	2.6	40	40	2.6	3.00	333	18.3	55
40	40	3.2	40	40	3.2	3.61	277	22.0	45
40	40	4.0	40	40	4.0	4.39	228	26.8	37
40	40	5.0	40	40	5.0	5.28	189	32.2	31
50	50	2.6	50	50	2.6	3.81	262	23.2	43
50	50	3.2	50	50	3.2	4.62	216	28.2	36
50	50	4.0	50	50	4.0	5.64	177	34.4	29
50	50	5.0	50	50	5.0	6.85	146	41.8	24
50	50	6.3	50	50	6.3	8.31	120	50.7	20
60	60	2.6	60	60	2.6	4.63	216	28.2	35
60	60	3.2	60	60	3.2	5.62	178	34.3	29
60	60	4.0	60	60	4.0	6.90	145	42.1	24
60	60	5.0	60	60	5.0	8.42	119	51.3	19
60	60	6.3	60	60	6.3	10.3	97	62.8	16
60	60	8.0	60	60	8.0	12.5	80	76.2	13
70	70	3.2	70	70	3.2	6.63	151	40.4	25
70	70	4.0	70	70	4.0	8.15	123	49.7	20
70	70	5.0	70	70	5.0	9.99	100	60.9	16
70	70	6.3	70	70	6.3	12.3	81	75.0	13
70	70	8.0	70	70	8.0	15.0	67	91.4	11
80	80	3.2	80	80	3.2	7.63	131	46.5	21
80	80	4.0	80	80	4.0	9.41	106	57.4	17
80	80	5.0	80	80	5.0	11.6	86	70.7	14
80	80	6.3	80	80	6.3	14.2	70	86.6	12
80	80	8.0	80	80	8.0	17.5	57	106.7	9
90	90	4.0	90	90	4.0	10.7	93	65.2	15
90	90	5.0	90	90	5.0	13.1	76	79.9	13
90	90	6.3	90	90	6.3	16.2	62	98.8	10
90	90	8.0	90	90	8.0	20.1	50	122.5	8
100	100	4.0	100	100	4.0	11.9	84	72.5	14
100	100	5.0	100	100	5.0	14.7	68	89.6	11
100	100	6.3	100	100	6.3	18.2	55	110.9	9
100	100	8.0	100	100	8.0	22.6	44	137.8	7
100	100	10.0	100	100	10.0	27.4	36	167.0	6
120	120	5.0	120	120	5.0	17.8	56	108.5	9
120	120	6.3	120	120	6.3	22.2	45	135.3	7

TECHNICAL DATA FOR COLD FORMED WELDED RECTANGULAR HOLLOW SECTION OF NON-ALLOY AND FINE GRAIN STEELS. CONFIRMING TO EN 10210

DIMENSION			DEPTH OF SECTION	WIDTH OF SECTION	THICKNESS OF SECTION	NOMINAL MASS OF STEEL TUBES PLAIN END			
mm	mm	mm	(H) mm	(B) mm	mm	kg/mtr	mts/t	kgs/20'	pcs/mt
120	120	8.0	120	120	8.0	27.6	36	168.2	6
120	120	10.0	120	120	10.0	33.7	30	205.4	5
120	120	12.5	120	120	12.5	40.9	24	249.3	4
140	140	5.0	140	140	5.0	21.0	48	128.0	8
140	140	6.3	140	140	6.3	26.1	38	159.1	6
140	140	8.0	140	140	8.0	32.6	31	198.7	5
140	140	10.0	140	140	10.0	40.0	25	243.8	4
140	140	12.5	140	140	12.5	48.7	21	296.9	3
150	150	5.0	150	150	5.0	22.6	44	137.8	7
150	150	6.3	150	150	6.3	28.1	36	171.3	6
150	150	8.0	150	150	8.0	35.1	28	214.0	5
150	150	10.0	150	150	10.0	43.1	23	262.7	4
150	150	12.5	150	150	12.5	52.7	19	321.3	3
160	160	5.0	160	160	5.0	24.1	41	146.9	7
160	160	6.3	160	160	6.3	30.1	33	183.5	5
160	160	8.0	160	160	8.0	37.6	27	229.2	4
160	160	10.0	160	160	10.0	46.3	22	282.2	4
160	160	12.5	160	160	12.5	56.6	18	345.0	3
180	180	5.0	180	180	5.0	27.3	37	166.4	6
180	180	6.3	180	180	6.3	34.0	29	207.3	5
180	180	8.0	180	180	8.0	42.7	23	260.3	4
180	180	10.0	180	180	10.0	52.5	19	320.0	3
180	180	12.5	180	180	12.5	64.4	16	392.6	3
180	180	14.2	180	180	14.2	72.2	14	440.1	2
180	180	16.0	180	180	16.0	80.2	12	488.9	2
200	200	5.0	200	200	5.0	30.4	33	185.3	5
200	200	6.3	200	200	6.3	38.0	26	231.6	4
200	200	8.0	200	200	8.0	47.7	21	290.8	3
200	200	10.0	200	200	10.0	58.8	17	358.4	3
200	200	12.5	200	200	12.5	72.3	14	440.7	2
200	200	14.2	200	200	14.2	81.1	12	494.4	2
200	200	16.0	200	200	16.0	90.3	11	550.5	2
220	220	6.3	220	220	6.3	41.9	24	255.4	4
220	220	8.0	220	220	8.0	52.7	19	321.3	3
220	220	10.0	220	220	10.0	65.1	15	396.8	3
220	220	12.5	220	220	12.5	80.1	12	488.3	2
220	220	14.2	220	220	14.2	90.1	11	549.2	2
220	220	16.0	220	220	16.0	100.0	10	609.6	2
250	250	6.3	250	250	6.3	41.9	24	255.4	4
250	250	8.0	250	250	8.0	52.7	19	321.3	3
250	250	10.0	250	250	10.0	65.1	15	396.8	3
250	250	12.5	250	250	12.5	80.1	12	488.3	2
250	250	14.2	250	250	14.2	103.0	10	627.9	2

Rectangular Hollow Sections (RHS)

Introduction

METPRO rectangular hollow steel sections that range from 26x13 mm to 400x300 mm with thickness upto 12 mm, 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 800 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



Bus Bodies and
Automobile
Industries



Transmission
Line Towers



Cranes and
Towers



Material
Storage Racks



Pre-fabricated
houses

TECHNICAL DATA FOR HOLLOW STEEL SECTIONS FOR STRUCTURAL USE CONFIRMING 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
25.0	12.0	0.8	25.0	12.0	0.8	0.45	2222	2.7	365
40.0	20.0	2.0	40.0	20.0	2.0	1.68	595	10.2	98
40.0	20.0	2.5	40.0	20.0	2.5	2.03	493	12.4	81
40.0	20.0	3.0	40.0	20.0	3.0	2.36	424	14.4	70
40.0	25.0	2.9	40.0	25.0	2.9	2.75	364	16.8	60
40.0	25.0	3.2	40.0	25.0	3.2	3.00	333	18.3	55
50.0	25.0	2.0	50.0	25.0	2.0	2.15	465	13.1	76
50.0	25.0	2.5	50.0	25.0	2.5	2.62	382	16.0	63
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
50.0	25.0	4.0	50.0	25.0	4.0	3.88	258	23.7	42
50.0	30.0	2.0	50.0	30.0	2.0	2.31	433	14.1	71
50.0	30.0	2.5	50.0	30.0	2.5	2.82	355	17.2	58
50.0	30.0	3.0	50.0	30.0	3.0	3.30	303	20.1	50
50.0	30.0	4.0	50.0	30.0	4.0	4.20	238	25.6	39
66.0	33.0	2.0	66.0	33.0	2.0	2.90	345	17.7	57
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	4.0	66.0	33.0	4.0	5.39	186	32.9	30
66.0	33.0	4.5	66.0	33.0	4.5	5.95	168	36.3	28
60.0	40.0	2.0	60.0	40.0	2.0	2.93	341	17.9	56
60.0	40.0	2.5	60.0	40.0	2.5	3.60	278	21.9	46
60.0	40.0	2.9	60.0	40.0	2.9	4.12	243	25.1	40
60.0	40.0	3.0	60.0	40.0	3.0	4.25	235	25.9	39
60.0	40.0	4.0	60.0	40.0	4.0	5.45	183	33.2	30
60.0	40.0	5.0	60.0	40.0	5.0	6.56	152	40.0	25
70.0	30.0	2.0	70.0	30.0	2.0	2.93	341	17.9	56
70.0	30.0	2.5	70.0	30.0	2.5	3.60	278	21.9	46
70.0	30.0	2.9	70.0	30.0	2.9	4.12	243	25.1	40
70.0	30.0	3.2	70.0	30.0	3.2	4.50	222	27.4	36
70.0	30.0	4.0	70.0	30.0	4.0	5.45	183	33.2	30
70.0	50.0	2.0	70.0	50.0	2.0	3.56	281	21.7	46
70.0	50.0	2.5	70.0	50.0	2.5	4.39	228	26.8	37
70.0	50.0	3.2	70.0	50.0	3.2	5.50	182	33.5	30
70.0	50.0	4.0	70.0	50.0	4.0	6.71	149	40.9	24
70.0	50.0	5.0	70.0	50.0	5.0	8.13	123	49.6	20
75.0	25.0	2.6	75.0	25.0	2.6	3.73	268	22.7	44
75.0	40.0	2.9	75.0	40.0	2.9	4.22	237	25.7	39
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	2.0	80.0	40.0	2.0	3.56	281	21.7	46

TECHNICAL DATA FOR HOLLOW STEEL SECTIONS FOR STRUCTURAL USE CONFIRMING 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
80.0	40.0	2.5	80.0	40.0	2.5	4.39	228	26.8	37
80.0	40.0	2.9	80.0	40.0	2.9	5.03	199	30.7	33
80.0	40.0	3.0	80.0	40.0	3.0	5.19	193	31.6	32
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
80.0	40.0	5.0	80.0	40.0	5.0	8.13	123	49.6	20
80.0	50.0	2.0	80.0	50.0	2.0	3.88	258	23.7	42
80.0	50.0	2.5	80.0	50.0	2.5	4.78	209	29.1	34
80.0	50.0	3.0	80.0	50.0	3.0	5.66	177	34.5	29
80.0	50.0	4.0	80.0	50.0	4.0	7.34	136	44.7	22
80.0	50.0	4.5	80.0	50.0	4.5	8.14	123	49.6	20
80.0	50.0	5.0	80.0	50.0	5.0	8.92	112	54.4	18
80.0	60.0	2.0	80.0	60.0	2.0	4.19	239	25.5	39
80.0	60.0	2.5	80.0	60.0	2.5	5.17	193	31.5	32
80.0	60.0	3.0	80.0	60.0	3.0	6.13	163	37.4	27
80.0	60.0	4.0	80.0	60.0	4.0	7.97	125	48.6	21
80.0	60.0	5.0	80.0	60.0	5.0	9.70	103	59.1	17
90.0	50.0	2.0	90.0	50.0	2.0	4.19	239	25.5	39
90.0	50.0	2.5	90.0	50.0	2.5	5.17	193	31.5	32
90.0	50.0	3.0	90.0	50.0	3.0	6.13	163	37.4	27
90.0	50.0	4.0	90.0	50.0	4.0	7.97	125	48.6	21
90.0	50.0	5.0	90.0	50.0	5.0	9.70	103	59.1	17
92.0	48.0	2.4	92.0	48.0	2.4	5.12	195	31.2	32
96.0	48.0	2.0	96.0	48.0	2.0	4.32	231	26.3	38
96.0	48.0	2.5	96.0	48.0	2.5	5.33	188	32.5	31
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	40.0	2.5	100.0	40.0	2.5	5.17	193	31.5	32
100.0	40.0	3.0	100.0	40.0	3.0	6.13	163	37.4	27
100.0	40.0	4.0	100.0	40.0	4.0	7.97	125	48.6	21
100.0	40.0	5.0	100.0	40.0	5.0	9.70	103	59.1	17
100.0	50.0	2.5	100.0	50.0	2.5	5.57	180	34.0	29
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
100.0	60.0	2.5	100.0	60.0	2.5	5.96	168	36.3	28
100.0	60.0	3.0	100.0	60.0	3.0	7.07	141	43.1	23
100.0	60.0	4.0	100.0	60.0	4.0	9.22	108	56.2	18
100.0	60.0	5.0	100.0	60.0	5.0	11.27	89	68.7	15
100.0	60.0	6.0	100.0	60.0	6.0	13.21	76	80.5	12
100.0	60.0	6.3	100.0	60.0	6.3	13.78	73	84.0	12
100.0	80.0	2.5	100.0	80.0	2.5	6.74	148	41.1	24
100.0	80.0	3.0	100.0	80.0	3.0	8.01	125	48.8	20

TECHNICAL DATA FOR HOLLOW STEEL SECTIONS FOR STRUCTURAL USE CONFIRMING 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
100.0	80.0	4.0	100.0	80.0	4.0	10.48	95	63.9	16
100.0	80.0	5.0	100.0	80.0	5.0	12.84	78	78.3	13
100.0	80.0	6.0	100.0	80.0	6.0	15.10	66	92.0	11
100.0	80.0	6.3	100.0	80.0	6.3	15.76	63	96.1	10
115.0	60.0	3.0	115.0	60.0	3.0	8.01	125	48.8	20
115.0	60.0	4.0	115.0	60.0	4.0	10.58	95	64.5	16
115.0	60.0	5.0	115.0	60.0	5.0	13.11	76	79.9	13
115.0	69.0	2.5	115.0	69.0	2.5	6.89	145	42.0	24
120.0	60.0	2.5	120.0	60.0	2.5	6.74	148	41.1	24
120.0	60.0	3.0	120.0	60.0	3.0	8.01	125	48.8	20
120.0	60.0	4.0	120.0	60.0	4.0	10.48	95	63.9	16
120.0	60.0	5.0	120.0	60.0	5.0	12.48	80	76.1	13
120.0	60.0	6.0	120.0	60.0	6.0	15.10	66	92.0	11
120.0	60.0	6.3	120.0	60.0	6.3	15.76	63	96.1	10
120.0	60.0	8.0	120.0	60.0	8.0	19.31	52	117.7	8
120.0	80.0	3.0	120.0	80.0	3.0	8.96	112	54.6	18
120.0	80.0	4.0	120.0	80.0	4.0	11.73	85	71.5	14
120.0	80.0	5.0	120.0	80.0	5.0	14.41	69	87.8	11
120.0	80.0	6.0	120.0	80.0	6.0	16.98	59	103.5	10
120.0	80.0	6.3	120.0	80.0	6.3	17.73	56	108.1	9
120.0	80.0	8.0	120.0	80.0	8.0	21.82	46	133.0	8
122.0	61.0	2.5	122.0	61.0	2.5	6.86	146	41.8	24
122.0	61.0	3.0	122.0	61.0	3.0	8.16	123	49.7	20
122.0	61.0	3.6	122.0	61.0	3.6	9.67	103	58.9	17
122.0	61.0	4.0	122.0	61.0	4.0	10.67	94	65.0	15
122.0	61.0	4.5	122.0	61.0	4.5	11.88	84	72.4	14
122.0	61.0	5.0	122.0	61.0	5.0	13.08	76	79.7	13
122.0	61.0	5.4	122.0	61.0	5.4	14.01	71	85.4	12
127.0	50.0	3.0	127.0	50.0	3.0	6.62	151	40.4	25
127.0	50.0	3.6	127.0	50.0	3.6	7.87	127	48.0	21
127.0	50.0	4.6	127.0	50.0	4.6	11.69	86	71.3	14
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
140.0	80.0	4.0	140.0	80.0	4.0	12.99	77	79.2	13
140.0	80.0	5.0	140.0	80.0	5.0	15.98	63	97.4	10
140.0	80.0	6.0	140.0	80.0	6.0	18.87	53	115.0	9
140.0	80.0	6.3	140.0	80.0	6.3	19.71	51	120.2	8
140.0	80.0	8.0	140.0	80.0	8.0	24.33	41	148.3	7
145.0	82.0	4.0	145.0	82.0	4.0	13.43	74	81.9	12
145.0	82.0	4.8	145.0	82.0	4.8	15.92	63	97.0	10
145.0	82.0	5.0	145.0	82.0	5.0	16.53	60	100.8	10

TECHNICAL DATA FOR HOLLOW STEEL SECTIONS FOR STRUCTURAL USE CONFIRMING 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
145.0	82.0	5.4	145.0	82.0	5.4	17.74	56	108.1	9
150.0	50.0	3.0	150.0	50.0	3.0	9.17	109	55.9	18
150.0	50.0	5.0	150.0	50.0	5.0	15.04	66	91.7	11
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	4.0	150.0	100.0	4.0	13.62	73	83.0	12
150.0	100.0	5.0	150.0	100.0	5.0	16.77	60	102.2	10
150.0	100.0	6.0	150.0	100.0	6.0	19.81	50	120.8	8
150.0	100.0	6.3	150.0	100.0	6.3	20.70	48	126.2	8
150.0	100.0	8.0	150.0	100.0	8.0	25.59	39	156.0	6
150.0	100.0	10.0	150.0	100.0	10.0	30.95	32	188.7	5
150.0	100.0	12.0	150.0	100.0	12.0	35.90	28	218.8	5
150.0	100.0	12.5	150.0	100.0	12.5	37.08	27	226.0	4
160.0	80.0	4.0	160.0	80.0	4.0	14.25	70	86.9	12
160.0	80.0	5.0	160.0	80.0	5.0	17.55	57	107.0	9
160.0	80.0	6.0	160.0	80.0	6.0	20.75	48	126.5	8
160.0	80.0	6.3	160.0	80.0	6.3	21.69	46	132.2	8
160.0	80.0	8.0	160.0	80.0	8.0	26.84	37	163.6	6
160.0	80.0	10.0	160.0	80.0	10.0	32.52	31	198.2	5
160.0	80.0	12.5	160.0	80.0	12.5	39.04	26	238.0	4
172.0	92.0	4.0	172.0	92.0	4.0	15.75	63	96.0	10
172.0	92.0	4.8	172.0	92.0	4.8	18.71	53	114.1	9
172.0	92.0	5.0	172.0	92.0	5.0	19.43	51	118.4	8
172.0	92.0	5.4	172.0	92.0	5.4	20.88	48	127.3	8
180.0	80.0	4.8	180.0	80.0	4.8	18.97	53	115.6	9
180.0	80.0	5.4	180.0	80.0	5.4	21.27	47	129.7	8
180.0	100.0	4.0	180.0	100.0	4.0	16.76	60	102.2	10
180.0	100.0	5.0	180.0	100.0	5.0	20.69	48	126.1	8
180.0	100.0	6.0	180.0	100.0	6.0	24.52	41	149.5	7
180.0	100.0	6.3	180.0	100.0	6.3	25.65	39	156.4	6
180.0	100.0	8.0	180.0	100.0	8.0	31.87	31	194.3	5
180.0	100.0	10.0	180.0	100.0	10.0	38.80	26	236.5	4
180.0	100.0	12.0	180.0	100.0	12.0	45.32	22	276.3	4
180.0	100.0	12.5	180.0	100.0	12.5	46.89	21	285.8	3
200.0	100.0	4.0	200.0	100.0	4.0	18.01	56	109.8	9
200.0	100.0	5.0	200.0	100.0	5.0	22.26	45	135.7	7
200.0	100.0	6.0	200.0	100.0	6.0	26.40	38	160.9	6
200.0	100.0	6.3	200.0	100.0	6.3	27.63	36	168.4	6
200.0	100.0	8.0	200.0	100.0	8.0	34.38	29	209.6	5
200.0	100.0	10.0	200.0	100.0	10.0	41.94	24	255.7	4
200.0	100.0	12.5	200.0	100.0	12.5	50.81	20	309.7	3

TECHNICAL DATA FOR HOLLOW STEEL SECTIONS FOR STRUCTURAL USE CONFIRMING 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
200.0	120.0	4.0	200.0	120.0	4.0	19.27	52	117.5	9
200.0	120.0	5.0	200.0	120.0	5.0	23.83	42	145.3	7
200.0	120.0	6.0	200.0	120.0	6.0	28.29	35	172.5	6
200.0	120.0	6.3	200.0	120.0	6.3	29.60	34	180.4	6
200.0	120.0	8.0	200.0	120.0	8.0	36.89	27	224.9	4
200.0	120.0	10.0	200.0	120.0	10.0	45.08	22	274.8	4
200.0	120.0	12.0	200.0	120.0	12.0	52.86	19	322.2	3
200.0	120.0	12.5	200.0	120.0	12.5	54.74	18	333.7	3
200.0	150.0	6.0	200.0	150.0	6.0	31.53	32	192.2	5
200.0	150.0	8.0	200.0	150.0	8.0	41.65	24	253.9	4
200.0	150.0	10.0	200.0	150.0	10.0	51.56	19	314.3	3
220.0	140.0	4.0	220.0	140.0	4.0	21.78	46	132.8	8
220.0	140.0	5.0	220.0	140.0	5.0	26.97	37	164.4	6
220.0	140.0	6.0	220.0	140.0	6.0	32.05	31	195.4	5
220.0	140.0	6.3	220.0	140.0	6.3	33.56	30	204.6	5
220.0	140.0	8.0	220.0	140.0	8.0	41.91	24	255.5	4
240.0	120.0	4.0	240.0	120.0	4.0	21.78	46	132.8	8
240.0	120.0	5.0	240.0	120.0	5.0	26.97	37	164.4	6
240.0	120.0	6.0	240.0	120.0	6.0	32.05	31	195.4	5
240.0	120.0	8.0	240.0	120.0	8.0	41.91	24	255.5	4
250.0	150.0	5.0	250.0	150.0	5.0	30.11	33	183.6	5
250.0	150.0	6.0	250.0	150.0	6.0	35.82	28	218.4	5
250.0	150.0	6.3	250.0	150.0	6.3	37.52	27	228.7	4
250.0	150.0	8.0	250.0	150.0	8.0	46.94	21	286.1	3
250.0	150.0	10.0	250.0	150.0	10.0	57.64	17	351.4	3
250.0	150.0	12.0	250.0	150.0	12.0	67.93	15	414.1	2
250.0	150.0	12.5	250.0	150.0	12.5	70.44	14	429.4	2
250.0	200.0	6.0	250.0	200.0	6.0	40.54	25	247.1	4
250.0	200.0	8.0	250.0	200.0	8.0	53.66	19	327.1	3
260.0	180.0	5.0	260.0	180.0	5.0	33.25	30	202.7	5
260.0	180.0	6.0	260.0	180.0	6.0	39.59	25	241.3	4
260.0	180.0	6.3	260.0	180.0	6.3	41.47	24	252.8	4
260.0	180.0	8.0	260.0	180.0	8.0	51.96	19	316.7	3
260.0	180.0	10.0	260.0	180.0	10.0	63.92	16	389.7	3
260.0	180.0	12.0	260.0	180.0	12.0	56.63	18	345.2	3
260.0	180.0	12.5	260.0	180.0	12.5	78.29	13	477.3	2
300.0	100.0	6.0	300.0	100.0	6.0	35.82	28	218.4	5
300.0	100.0	6.3	300.0	100.0	6.3	37.52	27	228.7	4
300.0	100.0	8.0	300.0	100.0	8.0	46.94	21	286.1	3
300.0	100.0	10.0	300.0	100.0	10.0	57.64	17	351.4	3
300.0	100.0	12.0	300.0	100.0	12.0	67.93	15	414.1	2
300.0	100.0	12.5	300.0	100.0	12.5	70.44	14	429.4	2
300.0	150.0	6.0	300.0	150.0	6.0	40.53	25	247.1	4

TECHNICAL DATA FOR HOLLOW STEEL SECTIONS FOR STRUCTURAL USE CONFIRMING 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
300.0	150.0	6.3	300.0	150.0	6.3	42.46	24	258.8	4
300.0	150.0	8.0	300.0	150.0	8.0	53.22	19	324.4	3
300.0	150.0	10.0	300.0	150.0	10.0	65.49	15	399.2	3
300.0	150.0	12.0	300.0	150.0	12.0	77.35	13	471.5	2
300.0	150.0	12.5	300.0	150.0	12.5	80.25	12	489.2	2
300.0	200.0	6.0	300.0	200.0	6.0	45.24	22	275.8	4
300.0	200.0	6.3	300.0	200.0	6.3	47.41	21	289.0	3
300.0	200.0	8.0	300.0	200.0	8.0	59.50	17	362.7	3
300.0	200.0	10.0	300.0	200.0	10.0	73.34	14	447.1	2
300.0	200.0	12.0	300.0	200.0	12.0	86.77	12	528.9	2
300.0	200.0	12.5	300.0	200.0	12.5	90.06	11	549.0	2
350.0	250.0	6.0	350.0	250.0	6.0	54.66	18	333.2	3
350.0	250.0	6.3	350.0	250.0	6.3	57.30	17	349.3	3
350.0	250.0	8.0	350.0	250.0	8.0	72.06	14	439.3	2
350.0	250.0	10.0	350.0	250.0	10.0	89.04	11	542.8	2
350.0	250.0	12.0	350.0	250.0	12.0	105.61	9	643.8	2
350.0	250.0	12.5	350.0	250.0	12.5	109.69	9	668.7	1
350.0	250.0	16.0	350.0	250.0	16.0	137.51	7	838.3	1
400.0	200.0	8.0	400.0	200.0	8.0	72.06	14	439.3	2
400.0	200.0	10.0	400.0	200.0	10.0	89.04	11	542.8	2
400.0	200.0	12.0	400.0	200.0	12.0	105.61	9	643.8	2
400.0	200.0	12.5	400.0	200.0	12.5	109.69	9	668.7	1
400.0	200.0	16.0	400.0	200.0	16.0	137.51	7	838.3	1
400.0	300.0	8.0	400.0	300.0	8.0	84.62	12	515.8	2
400.0	300.0	10.0	400.0	300.0	10.0	104.74	10	638.5	2
400.0	300.0	12.0	400.0	300.0	12.0	124.45	8	758.6	1
400.0	300.0	12.5	400.0	300.0	12.5	129.31	8	788.3	1
400.0	300.0	16.0	400.0	300.0	16.0	162.63	6	991.4	1

Following Manufacturing Tolerance shall be permitted on Thickness and Mass

Outside dimensions of sides : ± 1 percent of length of the side to be measured with a minimum of ± 0.5 mm	Thickness for all Sizes : ± 7.5 percent	Squareness of Corner : 90° ± 2°
	Weight on On lots of 10 tones : ± 7.5 %	
Radii of Outside Corners : 3t max, where t is the thickness of section	Weight: ± 6 % on individual delivered lengths	

Light & Heavy Thickness other than those given in the above table may be supplied as per customer requirements

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

TECHNICAL DATA FOR COLD FORMED WELDED CARBON STEEL SQUARE AND RECTANGULAR HOLLOW SECTIONS FOR MECHANICAL, GENERAL ENGINEERING AND DECORATIVE PURPOSES CONFIRMING TO IS: 18573 -2024 DIMENSIONS AND PROPERTIES OF RECTANGULAR HOLLOW SECTIONS (RHS)

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
25.0	12.0	0.8	25.0	12.0	0.8	0.45	2222	2.7	365
40.0	20.0	1.2	40.0	20.0	1.2	1.06	943	6.5	155
40.0	20.0	1.4	40.0	20.0	1.4	1.22	820	7.4	134
40.0	20.0	1.6	40.0	20.0	1.6	1.37	730	8.4	120
40.0	20.0	1.8	40.0	20.0	1.8	1.53	654	9.3	107
40.0	20.0	1.9	40.0	20.0	1.9	1.60	625	9.8	103
50.0	25.0	1.2	50.0	25.0	1.2	1.34	746	8.2	122
50.0	25.0	1.4	50.0	25.0	1.4	1.55	645	9.4	106
50.0	25.0	1.6	50.0	25.0	1.6	1.75	571	10.7	94
50.0	25.0	1.8	50.0	25.0	1.8	1.95	513	11.9	84
50.0	25.0	1.9	50.0	25.0	1.9	2.05	488	12.5	80
50.0	30.0	1.2	50.0	30.0	1.2	1.43	699	8.7	115
50.0	30.0	1.4	50.0	30.0	1.4	1.66	602	10.1	99
50.0	30.0	1.6	50.0	30.0	1.6	1.88	532	11.5	87
50.0	30.0	1.8	50.0	30.0	1.8	2.09	478	12.7	78
50.0	30.0	1.9	50.0	30.0	1.9	2.20	455	13.4	75
60.0	40.0	1.2	60.0	40.0	1.2	1.81	552	11.0	91
60.0	40.0	1.4	60.0	40.0	1.4	2.10	476	12.8	78
60.0	40.0	1.6	60.0	40.0	1.6	2.38	420	14.5	69
60.0	40.0	1.8	60.0	40.0	1.8	2.66	376	16.2	62
60.0	40.0	1.9	60.0	40.0	1.9	2.80	357	17.1	59
66.0	33.0	1.2	66.0	33.0	1.2	1.79	559	10.9	92
66.0	33.0	1.4	66.0	33.0	1.4	2.07	483	12.6	79
66.0	33.0	1.6	66.0	33.0	1.6	2.35	426	14.3	70
66.0	33.0	1.8	66.0	33.0	1.8	2.63	380	16.0	62
66.0	33.0	1.9	66.0	33.0	1.9	2.77	361	16.9	59
70.0	30.0	1.2	70.0	30.0	1.2	1.81	552	11.0	91
70.0	30.0	1.4	70.0	30.0	1.4	1.66	602	10.1	99
70.0	30.0	1.6	70.0	30.0	1.6	1.88	532	11.5	87
70.0	30.0	1.8	70.0	30.0	1.8	2.09	478	12.7	78
70.0	30.0	1.9	70.0	30.0	1.9	2.20	455	13.4	75
70.0	50.0	1.2	70.0	50.0	1.2	2.19	457	13.4	75
70.0	50.0	1.4	70.0	50.0	1.4	2.54	394	15.5	65
70.0	50.0	1.6	70.0	50.0	1.6	2.88	347	17.6	57
70.0	50.0	1.8	70.0	50.0	1.8	3.22	311	19.6	51
70.0	50.0	1.9	70.0	50.0	1.9	3.39	295	20.7	48
80.0	40.0	1.2	80.0	40.0	1.2	2.19	457	13.4	75
80.0	40.0	1.4	80.0	40.0	1.4	2.54	394	15.5	65
80.0	40.0	1.6	80.0	40.0	1.6	2.88	347	17.6	57
80.0	40.0	1.8	80.0	40.0	1.8	3.22	311	19.6	51
80.0	40.0	1.9	80.0	40.0	1.9	3.39	295	20.7	48
80.0	50.0	1.2	80.0	50.0	1.2	2.37	422	14.4	69
80.0	50.0	1.4	80.0	50.0	1.4	2.76	362	16.8	59

TECHNICAL DATA FOR COLD FORMED WELDED CARBON STEEL SQUARE AND RECTANGULAR HOLLOW SECTIONS FOR MECHANICAL, GENERAL ENGINEERING AND DECORATIVE PURPOSES CONFIRMING TO IS: 18573 -2024 DIMENSIONS AND PROPERTIES OF RECTANGULAR HOLLOW SECTIONS (RHS)

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
80.0	50.0	1.6	80.0	50.0	1.6	3.13	319	19.1	52
80.0	50.0	1.8	80.0	50.0	1.8	3.51	285	21.4	47
80.0	50.0	1.9	80.0	50.0	1.9	3.69	271	22.5	44
80.0	60.0	1.2	80.0	60.0	1.2	2.56	391	15.6	64
80.0	60.0	1.4	80.0	60.0	1.4	2.98	336	18.2	55
80.0	60.0	1.6	80.0	60.0	1.6	3.38	296	20.6	49
80.0	60.0	1.8	80.0	60.0	1.8	3.79	264	23.1	43
80.0	60.0	1.9	80.0	60.0	1.9	3.99	251	24.3	41
90.0	50.0	1.2	90.0	50.0	1.2	2.56	391	15.6	64
90.0	50.0	1.4	90.0	50.0	1.4	2.98	336	18.2	55
90.0	50.0	1.6	90.0	50.0	1.6	3.38	296	20.6	49
90.0	50.0	1.8	90.0	50.0	1.8	3.79	264	23.1	43
90.0	50.0	1.9	90.0	50.0	1.9	3.99	251	24.3	41
96.0	48.0	1.2	96.0	48.0	1.2	2.64	379	16.1	62
96.0	48.0	1.4	96.0	48.0	1.4	3.06	327	18.7	54
96.0	48.0	1.6	96.0	48.0	1.6	3.49	287	21.3	47
96.0	48.0	1.8	96.0	48.0	1.8	3.90	256	23.8	42
96.0	48.0	1.9	96.0	48.0	1.9	4.11	243	25.1	40
100.0	40.0	1.2	100.0	40.0	1.2	2.56	391	15.6	64
100.0	40.0	1.4	100.0	40.0	1.4	2.98	336	18.2	55
100.0	40.0	1.6	100.0	40.0	1.6	3.38	296	20.6	49
100.0	40.0	1.8	100.0	40.0	1.8	3.79	264	23.1	43
100.0	40.0	1.9	100.0	40.0	1.9	3.99	251	24.3	41
100.0	40.0	2.0	100.0	40.0	2.0	4.19	239	25.5	39
100.0	40.0	2.4	100.0	40.0	2.4	4.98	201	30.4	33
100.0	50.0	1.2	100.0	50.0	1.2	2.75	364	16.8	60
100.0	50.0	1.4	100.0	50.0	1.4	3.20	313	19.5	51
100.0	50.0	1.6	100.0	50.0	1.6	3.64	275	22.2	45
100.0	50.0	1.8	100.0	50.0	1.8	4.07	246	24.8	40
100.0	50.0	1.9	100.0	50.0	1.9	4.29	233	26.2	38
100.0	50.0	2.0	100.0	50.0	2.0	4.50	222	27.4	36
100.0	50.0	2.4	100.0	50.0	2.4	5.35	187	32.6	31
100.0	60.0	1.2	100.0	60.0	1.2	2.94	340	17.9	56
100.0	60.0	1.4	100.0	60.0	1.4	3.42	292	20.8	48
100.0	60.0	1.6	100.0	60.0	1.6	3.89	257	23.7	42
100.0	60.0	1.8	100.0	60.0	1.8	4.35	230	26.5	38
100.0	60.0	1.9	100.0	60.0	1.9	4.59	218	28.0	36
100.0	60.0	2.0	100.0	60.0	2.0	4.82	207	29.4	34
100.0	60.0	2.4	100.0	60.0	2.4	5.73	175	34.9	29
100.0	80.0	1.2	100.0	80.0	1.2	3.32	301	20.2	49
100.0	80.0	1.4	100.0	80.0	1.4	3.86	259	23.5	42
100.0	80.0	1.6	100.0	80.0	1.6	4.39	228	26.8	37
100.0	80.0	1.8	100.0	80.0	1.8	4.92	203	30.0	33

TECHNICAL DATA FOR COLD FORMED WELDED CARBON STEEL SQUARE AND RECTANGULAR HOLLOW SECTIONS FOR MECHANICAL, GENERAL ENGINEERING AND DECORATIVE PURPOSES CONFIRMING TO IS: 18573 -2024 DIMENSIONS AND PROPERTIES OF RECTANGULAR HOLLOW SECTIONS (RHS)

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
100.0	80.0	1.9	100.0	80.0	1.9	5.18	193	31.6	32
100.0	80.0	2.0	100.0	80.0	2.0	5.45	183	33.2	30
100.0	80.0	2.4	100.0	80.0	2.4	6.48	154	39.5	25
120.0	60.0	1.2	120.0	60.0	1.2	3.32	301	20.2	49
120.0	60.0	1.4	120.0	60.0	1.4	3.86	259	23.5	42
120.0	60.0	1.6	120.0	60.0	1.6	4.39	228	26.8	37
120.0	60.0	1.8	120.0	60.0	1.8	4.92	203	30.0	33
120.0	60.0	1.9	120.0	60.0	1.9	5.18	193	31.6	32
120.0	60.0	2.0	120.0	60.0	2.0	5.45	183	33.2	30
120.0	60.0	2.4	120.0	60.0	2.4	6.48	154	39.5	25
120.0	80.0	1.2	120.0	80.0	1.2	3.69	271	22.5	44
120.0	80.0	1.4	120.0	80.0	1.4	4.29	233	26.2	38
120.0	80.0	1.6	120.0	80.0	1.6	4.89	204	29.8	34
120.0	80.0	1.8	120.0	80.0	1.8	5.48	182	33.4	30
120.0	80.0	1.9	120.0	80.0	1.9	5.78	173	35.2	28
120.0	80.0	2.0	120.0	80.0	2.0	6.07	165	37.0	27
120.0	80.0	2.4	120.0	80.0	2.4	7.24	138	44.1	23
120.0	80.0	2.9	120.0	80.0	2.9	8.67	115	52.9	19
122.0	61.0	1.2	122.0	61.0	1.2	3.37	297	20.5	49
122.0	61.0	1.4	122.0	61.0	1.4	3.92	255	23.9	42
122.0	61.0	1.6	122.0	61.0	1.6	4.46	224	27.2	37
122.0	61.0	1.8	122.0	61.0	1.8	5.00	200	30.5	33
122.0	61.0	1.9	122.0	61.0	1.9	5.27	190	32.1	31
122.0	61.0	2.0	122.0	61.0	2.0	5.54	181	33.8	30
122.0	61.0	2.4	122.0	61.0	2.4	6.60	152	40.2	25
127.0	50.0	1.2	127.0	50.0	1.2	3.26	307	19.9	50
127.0	50.0	1.4	127.0	50.0	1.4	3.79	264	23.1	43
127.0	50.0	1.6	127.0	50.0	1.6	4.31	232	26.3	38
127.0	50.0	1.8	127.0	50.0	1.8	4.83	207	29.4	34
127.0	50.0	1.9	127.0	50.0	1.9	5.09	196	31.0	32
127.0	50.0	2.0	127.0	50.0	2.0	5.35	187	32.6	31
127.0	50.0	2.4	127.0	50.0	2.4	6.37	157	38.8	26
127.0	50.0	2.9	127.0	50.0	2.9	7.62	131	46.5	22
140.0	80.0	1.6	140.0	80.0	1.6	5.39	186	32.9	30
140.0	80.0	2.0	140.0	80.0	2.0	6.70	149	40.8	24
140.0	80.0	2.9	140.0	80.0	2.9	9.58	104	58.4	17
140.0	80.0	3.2	140.0	80.0	3.2	10.52	95	64.1	16
140.0	80.0	3.6	140.0	80.0	3.6	11.76	85	71.7	14
140.0	80.0	3.9	140.0	80.0	3.9	12.68	79	77.3	13
145.0	82.0	1.6	145.0	82.0	1.6	5.57	180	34.0	29
145.0	82.0	2.0	145.0	82.0	2.0	6.92	145	42.2	24
145.0	82.0	2.9	145.0	82.0	2.9	9.90	101	60.4	17
145.0	82.0	3.2	145.0	82.0	3.2	10.88	92	66.3	15

TECHNICAL DATA FOR COLD FORMED WELDED CARBON STEEL SQUARE AND RECTANGULAR HOLLOW SECTIONS FOR MECHANICAL, GENERAL ENGINEERING AND DECORATIVE PURPOSES CONFIRMING TO IS: 18573 -2024 DIMENSIONS AND PROPERTIES OF RECTANGULAR HOLLOW SECTIONS (RHS)

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
145.0	82.0	3.6	145.0	82.0	3.6	12.16	82	74.1	13
145.0	82.0	3.9	145.0	82.0	3.9	13.11	76	79.9	13
150.0	100.0	1.6	150.0	100.0	1.6	6.15	163	37.5	27
150.0	100.0	2.0	150.0	100.0	2.0	7.64	131	46.6	21
150.0	100.0	2.9	150.0	100.0	2.9	10.95	91	66.8	15
150.0	100.0	3.2	150.0	100.0	3.2	12.03	83	73.3	14
150.0	100.0	3.6	150.0	100.0	3.6	13.46	74	82.1	12
150.0	100.0	3.9	150.0	100.0	3.9	14.52	69	88.5	11
160.0	80.0	1.6	160.0	80.0	1.6	5.90	169	36.0	28
160.0	80.0	2.0	160.0	80.0	2.0	7.33	136	44.7	22
160.0	80.0	2.9	160.0	80.0	2.9	10.49	95	63.9	16
160.0	80.0	3.2	160.0	80.0	3.2	11.53	87	70.3	14
160.0	80.0	3.6	160.0	80.0	3.6	12.90	78	78.6	13
160.0	80.0	3.9	160.0	80.0	3.9	13.91	72	84.8	12
172.0	92.0	3.2	172.0	92.0	3.2	12.73	79	77.6	13
172.0	92.0	3.6	172.0	92.0	3.6	14.25	70	86.9	12
172.0	92.0	3.9	172.0	92.0	3.9	15.38	65	93.8	11
180.0	100.0	3.2	180.0	100.0	3.2	13.54	74	82.5	12
180.0	100.0	3.6	180.0	100.0	3.6	15.16	66	92.4	11
180.0	100.0	3.9	180.0	100.0	3.9	16.36	61	99.7	10
200.0	100.0	3.6	200.0	100.0	3.6	16.29	61	99.3	10
200.0	100.0	3.9	200.0	100.0	3.9	17.58	57	107.2	9

Following Manufacturing Tolerance shall be permitted on Thickness and Mass

Outside dimensions of sides : ± 1 percent of length of the side to be measured with a minimum of ± 0.5 mm	Thickness for all Sizes : ± 10 percent	Squareness of Corner : 90° ± 2°
	Weight : ± 10 percent	
Radii of Outside Corners : 3t max, where t is the thickness of section	Weight: ± 6 % on individual delivered lengths	

Thickness other than those given in the above table may be supplied as per customer requirements

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

TECHNICAL DATA FOR COLD FORMED WELDED RECTANGULAR HOLLOW SECTION OF NON-ALLOY AND FINE GRAIN STEELS. CONFIRMING TO EN 10219, DIMENSIONS AND PROPERTIES OF RECTANGULAR HOLLOW SECTION (RHS)

DIMENSION			DEPTH OF SECTION	WIDTH OF SECTION	THICKNESS OF SECTION	NOMINAL MASS OF STEEL TUBES PLAIN END			
mm	mm	mm	(H) mm	(B) mm	mm	kg/mtr	mts/t	kgs/20'	pcs/mt
40.0	20.0	2.0	40.0	20.0	2.0	1.7	595.2	10.2	97.6
40.0	20.0	2.0	40.0	20.0	2.0	1.7	595.2	10.2	97.6
40.0	20.0	2.5	40.0	20.0	2.5	2.0	492.6	12.4	80.8
40.0	20.0	3.0	40.0	20.0	3.0	2.4	423.7	14.4	69.5
50.0	30.0	2.0	50.0	30.0	2.0	2.3	432.9	14.1	71.0
50.0	30.0	2.5	50.0	30.0	2.5	2.8	354.6	17.2	58.2
50.0	30.0	3.0	50.0	30.0	3.0	3.3	303.0	20.1	49.7
50.0	30.0	4.0	50.0	30.0	4.0	4.2	238.1	25.6	39.1
60.0	40.0	2.0	60.0	40.0	2.0	2.9	341.3	17.9	56.0
60.0	40.0	2.5	60.0	40.0	2.5	3.6	277.8	21.9	45.6
60.0	40.0	3.0	60.0	40.0	3.0	4.3	235.3	25.9	38.6
60.0	40.0	4.0	60.0	40.0	4.0	5.5	183.5	33.2	30.1
60.0	40.0	5.0	60.0	40.0	5.0	6.6	152.4	40.0	25.0
70.0	50.0	2.0	70.0	50.0	2.0	3.6	280.9	21.7	46.1
70.0	50.0	2.5	70.0	50.0	2.5	4.4	227.8	26.8	37.4
70.0	50.0	3.0	70.0	50.0	3.0	5.2	192.7	31.6	31.6
70.0	50.0	4.0	70.0	50.0	4.0	6.7	149.0	40.9	24.4
70.0	50.0	5.0	70.0	50.0	5.0	8.1	123.0	49.6	20.2
80.0	40.0	2.0	80.0	40.0	2.0	3.6	280.9	21.7	46.1
80.0	40.0	2.5	80.0	40.0	2.5	4.4	227.8	26.8	37.4
80.0	40.0	3.0	80.0	40.0	3.0	5.2	192.7	31.6	31.6
80.0	40.0	4.0	80.0	40.0	4.0	6.7	149.0	40.9	24.4
80.0	40.0	5.0	80.0	40.0	5.0	8.1	123.0	49.6	20.2
80.0	60.0	2.0	80.0	60.0	2.0	4.2	238.7	25.5	39.2
80.0	60.0	2.5	80.0	60.0	2.5	5.2	193.4	31.5	31.7
80.0	60.0	3.0	80.0	60.0	3.0	6.1	163.1	37.4	26.8
80.0	60.0	4.0	80.0	60.0	4.0	8.0	125.5	48.6	20.6
80.0	60.0	5.0	80.0	60.0	5.0	9.7	103.1	59.1	16.9
90.0	50.0	2.0	90.0	50.0	2.0	4.2	238.7	25.5	39.2
90.0	50.0	2.5	90.0	50.0	2.5	5.2	193.4	31.5	31.7
90.0	50.0	5.0	90.0	50.0	5.0	6.1	163.1	37.4	26.8
90.0	50.0	4.0	90.0	50.0	4.0	8.0	125.5	48.6	20.6
90.0	50.0	5.0	90.0	50.0	5.0	9.7	103.1	59.1	16.9
100.0	40.0	2.5	100.0	40.0	2.5	5.2	193.4	31.5	31.7
100.0	40.0	3.0	100.0	40.0	3.0	6.1	163.1	37.4	26.8
100.0	40.0	4.0	100.0	40.0	4.0	8.0	125.5	48.6	20.6
100.0	40.0	5.0	100.0	40.0	5.0	9.7	103.1	59.1	16.9
100.0	50.0	2.5	100.0	50.0	2.5	5.6	179.9	33.9	29.5
100.0	50.0	3.0	100.0	50.0	3.0	6.6	151.5	40.2	24.9
100.0	50.0	4.0	100.0	50.0	4.0	8.6	116.4	52.4	19.1
100.0	50.0	5.0	100.0	50.0	5.0	10.5	95.2	64.0	15.6
100.0	50.0	6.0	100.0	50.0	6.0	12.3	81.3	75.0	13.3
100.0	50.0	6.3	100.0	50.0	6.3	12.5	80.0	76.2	13.1

TECHNICAL DATA FOR COLD FORMED WELDED RECTANGULAR HOLLOW SECTION OF NON-ALLOY AND FINE GRAIN STEELS. CONFIRMING TO EN 10219, DIMENSIONS AND PROPERTIES OF RECTANGULAR HOLLOW SECTION (RHS)

DIMENSION			DEPTH OF SECTION	WIDTH OF SECTION	THICKNESS OF SECTION	NOMINAL MASS OF STEEL TUBES PLAIN END			
mm	mm	mm	(H) mm	(B) mm	mm	kg/mtr	mts/t	kgs/20'	pcs/mt
100.0	60.0	2.5	100.0	60.0	2.5	6.0	167.8	36.3	27.5
100.0	60.0	3.0	100.0	60.0	3.0	7.1	141.4	43.1	23.2
100.0	60.0	4.0	100.0	60.0	4.0	9.2	108.5	56.2	17.8
100.0	60.0	5.0	100.0	60.0	5.0	11.3	88.5	68.9	14.5
100.0	60.0	6.0	100.0	60.0	6.0	13.2	75.8	80.5	12.4
100.0	60.0	6.3	100.0	60.0	6.3	13.5	74.1	82.3	12.2
100.0	80.0	2.5	100.0	80.0	2.5	6.7	148.4	41.1	24.3
100.0	80.0	3.0	100.0	80.0	3.0	8.0	124.8	48.8	20.5
100.0	80.0	4.0	100.0	80.0	4.0	10.5	95.2	64.0	15.6
100.0	80.0	5.0	100.0	80.0	5.0	12.8	78.1	78.0	12.8
100.0	80.0	6.0	100.0	80.0	6.0	15.1	66.2	92.0	10.9
100.0	80.0	6.3	100.0	80.0	6.3	15.5	64.5	94.5	10.6
120.0	60.0	2.5	120.0	60.0	2.5	6.7	148.4	41.1	24.3
120.0	60.0	3.0	120.0	60.0	3.0	8.0	124.8	48.8	20.5
120.0	60.0	4.0	120.0	60.0	4.0	10.5	95.2	64.0	15.6
120.0	60.0	5.0	120.0	60.0	5.0	12.8	78.1	78.0	12.8
120.0	60.0	6.0	120.0	60.0	6.0	15.1	66.2	92.0	10.9
120.0	60.0	6.3	120.0	60.0	6.3	15.5	64.5	94.5	10.6
120.0	60.0	8.0	120.0	60.0	8.0	18.9	52.9	115.2	8.7
120.0	80.0	3.0	120.0	80.0	3.0	9.0	111.6	54.6	18.3
120.0	80.0	4.0	120.0	80.0	4.0	11.7	85.5	71.3	14.0
120.0	80.0	5.0	120.0	80.0	5.0	14.4	69.4	87.8	11.4
120.0	80.0	6.0	120.0	80.0	6.0	17.0	58.8	103.6	9.6
120.0	80.0	6.3	120.0	80.0	6.3	17.5	57.1	106.7	9.4
120.0	80.0	8.0	120.0	80.0	8.0	21.4	46.7	130.5	7.7
140.0	80.0	4.0	140.0	80.0	4.0	13.0	76.9	79.2	12.6
140.0	80.0	5.0	140.0	80.0	5.0	16.0	62.5	97.5	10.3
140.0	80.0	6.0	140.0	80.0	6.0	18.9	52.9	115.2	8.7
140.0	80.0	6.3	140.0	80.0	6.3	19.4	51.5	118.3	8.5
140.0	80.0	8.0	140.0	80.0	8.0	23.9	41.8	145.7	6.9
150.0	100.0	4.0	150.0	100.0	4.0	14.9	67.1	90.8	11.0
150.0	100.0	5.0	150.0	100.0	5.0	18.3	54.6	111.6	9.0
150.0	100.0	6.0	150.0	100.0	6.0	21.7	46.1	132.3	7.6
150.0	100.0	6.3	150.0	100.0	6.3	22.4	44.6	136.6	7.3
150.0	100.0	8.0	150.0	100.0	8.0	27.7	36.1	168.9	5.9
150.0	100.0	10.0	150.0	100.0	10.0	33.4	29.9	203.6	4.9
150.0	100.0	12.0	150.0	100.0	12.0	37.7	26.5	229.8	4.4
150.0	100.0	12.5	150.0	100.0	12.5	38.9	25.7	237.1	4.2
160.0	80.0	4.0	160.0	80.0	4.0	14.2	70.4	86.6	11.6
160.0	80.0	5.0	160.0	80.0	5.0	17.5	57.1	106.7	9.4
160.0	80.0	6.0	160.0	80.0	6.0	20.7	48.3	126.2	7.9
160.0	80.0	6.3	160.0	80.0	6.3	21.4	46.7	130.5	7.7
160.0	80.0	8.0	160.0	80.0	8.0	26.4	37.9	160.9	6.2

TECHNICAL DATA FOR COLD FORMED WELDED RECTANGULAR HOLLOW SECTION OF NON-ALLOY AND FINE GRAIN STEELS.
CONFIRMING TO EN 10219, DIMENSIONS AND PROPERTIES OF RECTANGULAR HOLLOW SECTION (RHS)

DIMENSION			DEPTH OF SECTION	WIDTH OF SECTION	THICKNESS OF SECTION	NOMINAL MASS OF STEEL TUBES PLAIN END			
mm	mm	mm	(H) mm	(B) mm	mm	kg/mtr	mts/t	kgs/20'	pcs/mt
160.0	80.0	10.0	160.0	80.0	10.0	31.8	31.4	193.9	5.2
160.0	80.0	12.0	160.0	80.0	12.0	35.8	27.9	218.2	4.6
160.0	80.0	12.5	160.0	80.0	12.5	36.9	27.1	224.9	4.4
180.0	100.0	4.0	180.0	100.0	4.0	16.8	59.5	102.4	9.8
180.0	100.0	5.0	180.0	100.0	5.0	20.7	48.3	126.2	7.9
180.0	100.0	6.0	180.0	100.0	6.0	24.5	40.8	149.4	6.7
180.0	100.0	6.3	180.0	100.0	6.3	25.4	39.4	154.8	6.5
180.0	100.0	8.0	180.0	100.0	8.0	31.4	31.8	191.4	5.2
180.0	100.0	10.0	180.0	100.0	10.0	38.1	26.2	232.3	4.3
180.0	100.0	12.0	180.0	100.0	12.0	43.4	23.0	264.6	3.8
180.0	100.0	12.5	180.0	100.0	12.5	44.8	22.3	273.1	3.7
200.0	100.0	4.0	200.0	100.0	4.0	18.0	55.6	109.7	9.1
200.0	100.0	5.0	200.0	100.0	5.0	22.3	44.8	135.9	7.4
200.0	100.0	6.0	200.0	100.0	6.0	26.4	37.9	160.9	6.2
200.0	100.0	6.3	200.0	100.0	6.3	27.4	36.5	167.0	6.0
200.0	100.0	8.0	200.0	100.0	8.0	33.9	29.5	206.7	4.8
200.0	100.0	10.0	200.0	100.0	10.0	41.3	24.2	251.8	4.0
200.0	100.0	12.0	200.0	100.0	12.0	47.1	21.2	287.1	3.5
200.0	100.0	12.5	200.0	100.0	12.5	48.7	20.5	296.9	3.4
200.0	120.0	4.0	200.0	120.0	4.0	19.3	51.8	117.7	8.5
200.0	120.0	5.0	200.0	120.0	5.0	23.8	42.0	145.1	6.9
200.0	120.0	6.0	200.0	120.0	6.0	28.3	35.3	172.5	5.8
200.0	120.0	6.3	200.0	120.0	6.3	29.3	34.1	178.6	5.6
200.0	120.0	8.0	200.0	120.0	8.0	36.5	27.4	222.5	4.5
200.0	120.0	10.0	200.0	120.0	10.0	44.4	22.5	270.7	3.7
200.0	120.0	12.0	200.0	120.0	12.0	50.9	19.6	310.3	3.2
200.0	120.0	12.5	200.0	120.0	12.5	52.6	19.0	320.6	3.1
250.0	150.0	5.0	250.0	150.0	5.0	30.1	33.2	183.5	5.4
250.0	150.0	6.0	250.0	150.0	6.0	35.8	27.9	218.2	4.6
250.0	150.0	6.3	250.0	150.0	6.3	37.2	26.9	226.8	4.4
250.0	150.0	8.0	250.0	150.0	8.0	46.5	21.5	283.5	3.5
250.0	150.0	10.0	250.0	150.0	10.0	57.0	17.5	347.5	2.9
250.0	150.0	12.0	250.0	150.0	12.0	66.0	15.2	402.3	2.5
250.0	150.0	12.5	250.0	150.0	12.5	68.3	14.6	416.4	2.4
260.0	180.0	5.0	260.0	180.0	5.0	33.2	30.1	202.4	4.9
260.0	180.0	6.3	260.0	180.0	6.3	41.2	24.3	251.2	4.0
260.0	180.0	8.0	260.0	180.0	8.0	51.5	19.4	313.9	3.2
260.0	180.0	10.0	260.0	180.0	10.0	63.2	15.8	385.3	2.6
260.0	100.0	12.0	260.0	100.0	12.0	73.5	13.6	448.1	2.2
260.0	180.0	12.5	260.0	180.0	12.5	76.2	13.1	464.5	2.2
300.0	100.0	6.0	300.0	100.0	6.0	35.8	27.9	218.2	4.6
300.0	100.0	6.3	300.0	100.0	6.3	37.2	26.9	226.8	4.4
300.0	100.0	8.0	300.0	100.0	8.0	46.5	21.5	283.5	3.5

TECHNICAL DATA FOR COLD FORMED WELDED RECTANGULAR HOLLOW SECTION OF NON-ALLOY AND FINE GRAIN STEELS.
CONFIRMING TO EN 10219, DIMENSIONS AND PROPERTIES OF RECTANGULAR HOLLOW SECTION (RHS)

DIMENSION			DEPTH OF SECTION	WIDTH OF SECTION	THICKNESS OF SECTION	NOMINAL MASS OF STEEL TUBES PLAIN END			
mm	mm	mm	(H) mm	(B) mm	mm	kg/mtr	mts/t	kgs/20'	pcs/mt
300.0	100.0	10.0	300.0	100.0	10.0	57.0	17.5	347.5	2.9
300.0	100.0	12.0	300.0	100.0	12.0	66.0	15.2	402.3	2.5
300.0	100.0	12.5	300.0	100.0	12.5	68.3	14.6	416.4	2.4
300.0	150.0	6.0	300.0	150.0	6.0	40.5	24.7	246.9	4.1
300.0	150.0	6.3	300.0	150.0	6.3	42.2	23.7	257.3	3.9
300.0	150.0	8.0	300.0	150.0	8.0	52.8	18.9	321.9	3.1
300.0	150.0	10.0	300.0	150.0	10.0	64.8	15.4	395.0	2.5
300.0	150.0	12.0	300.0	150.0	12.0	75.4	13.3	459.6	2.2
300.0	150.0	12.5	300.0	150.0	12.5	78.1	12.8	476.1	2.1
300.0	200.0	6.0	300.0	200.0	6.0	45.2	22.1	275.5	3.6
300.0	200.0	6.3	300.0	200.0	6.3	47.1	21.2	287.1	3.5
300.0	200.0	8.0	300.0	200.0	8.0	59.1	16.9	360.3	2.8
300.0	200.0	10.0	300.0	200.0	10.0	72.7	13.8	443.2	2.3
300.0	200.0	12.0	300.0	200.0	12.0	84.8	11.8	516.9	1.9
300.0	200.0	12.5	300.0	200.0	12.5	88.0	11.4	536.4	1.9
350.0	250.0	6.0	350.0	250.0	6.0	54.7	18.3	333.5	3.0
350.0	250.0	6.3	350.0	250.0	6.3	57.0	17.5	347.5	2.9
350.0	250.0	8.0	350.0	250.0	8.0	71.6	14.0	436.5	2.3
350.0	250.0	10.0	350.0	250.0	10.0	88.4	11.3	538.9	1.9
350.0	250.0	12.0	350.0	250.0	12.0	104.0	9.6	634.0	1.6
350.0	250.0	12.5	350.0	250.0	12.5	108.0	9.3	658.4	1.5
400.0	200.0	8.0	400.0	200.0	8.0	71.6	14.0	436.5	2.3
400.0	200.0	12.5	400.0	200.0	12.5	108.0	9.3	658.4	1.5
400.0	300.0	8.0	400.0	300.0	8.0	84.2	11.9	513.3	1.9
400.0	300.0	10.0	400.0	300.0	10.0	104.0	9.6	634.0	1.6
400.0	300.0	12.0	400.0	300.0	12.0	123.0	8.1	749.8	1.3
400.0	300.0	12.5	400.0	300.0	12.5	127.0	7.9	774.2	1.3

Following Manufacturing Tolerance shall be permitted on Thickness and Mass

Outside dimensions of sides : H, B < 100 : ± 1 % with a minimum of 0.5mm 100 ≤ H, B ≤ 200 : ± 0.8% H, B > 200 : ± 0.6%	Thickness: T ≤ 5 mm: ± 10 % T > 5 mm: ± 0.5 mm	Length (Random length / Unless Otherwise Specified) 4-16 Mtrs (10 % of sections supplied may be below the min. for the ordered range but not shorter than 75 % of the min. range length).
External corner profile: T ≤ 6 mm: 1.6T to 2.4T 6 < T ≤ 10mm: 2.0T to 3.0T 10 < T mm: 2.4 T to 3.6T	Twist: 2.0mm plus 0.5mm / mtrs length	
Squareness of sides: 90 Degree, ± 1 Degree	Weight: ± 6 % on individual delivered lengths	Straightness: 0.15 % of total length and 3 mm over any 1 mtr length
	Concavity/Convexity: Max. 0.8% with a minimum of 0.5mm	

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

TECHNICAL DATA FOR COLD FORMED WELDED RECTANGULAR HOLLOW SECTION OF NON-ALLOY AND FINE GRAIN STEELS. CONFIRMING TO EN 10210, DIMENSIONS AND PROPERTIES OF RECTANGULAR HOLLOW SECTION (RHS)

DIMENSION			DEPTH OF SECTION	WIDTH OF SECTION	THICKNESS OF SECTION	NOMINAL MASS OF STEEL TUBES PLAIN END			
mm	mm	mm	(H) mm	(B) mm	mm	kg/mtr	mts/t	kgs/20'	pcs/mt
40	20	2	40	20	2.0	1.68	595.2	10.2	98
40	20	2	40	20	2.0	1.68	595.2	10.2	98
40	20	3	40	20	2.5	2.03	492.6	12.4	81
40	20	3	40	20	3.0	2.36	423.7	14.4	70
50	30	2.6	50	30	2.6	3.00	333.3	18.3	55
50	30	3.2	50	30	3.2	3.61	277.0	22.0	45
50	30	4.0	50	30	4.0	4.39	227.8	26.8	37
50	30	5.0	50	30	5.0	5.28	189.4	32.2	31
60	40	2.6	60	40	2.6	3.81	262.5	23.2	43
60	40	3.2	60	40	3.2	4.62	216.5	28.2	36
60	40	4.0	60	40	4.0	5.64	177.3	34.4	29
60	40	5.0	60	40	5.0	6.85	146.0	41.8	24
60	40	6.3	60	40	6.3	8.31	120.3	50.7	20
80	40	3.2	80	40	3.2	5.62	177.9	34.3	29
80	40	4.0	80	40	4.0	6.90	144.9	42.1	24
80	40	5.0	80	40	5.0	8.42	118.8	51.3	19
80	40	6.3	80	40	6.3	10.3	97.1	62.8	16
80	40	8.0	80	40	8.0	12.5	80.0	76.2	13
90	50	3.2	90	50	3.2	6.63	150.8	40.4	25
90	50	4.0	90	50	4.0	8.15	122.7	49.7	20
90	50	5.0	90	50	5.0	9.99	100.1	60.9	16
90	50	6.3	90	50	6.3	12.3	81.3	75.0	13
90	50	8.0	90	50	8.0	15.0	66.7	91.4	11
100	50	3.2	100	50	3.2	7.13	140.3	43.5	23
100	50	4.0	100	50	4.0	8.78	113.9	53.5	19
100	50	5.0	100	50	5.0	10.8	92.6	65.8	15
100	50	6.3	100	50	6.3	13.3	75.2	81.1	12
100	50	8.0	100	50	8.0	16.3	61.3	99.4	10
100	60	3.2	100	60	3.2	7.63	131.1	46.5	21
100	60	4.0	100	60	4.0	9.41	106.3	57.4	17
100	60	5.0	100	60	5.0	11.6	86.2	70.7	14
100	60	6.3	100	60	6.3	14.2	70.4	86.6	12
100	60	8.0	100	60	8.0	17.5	57.1	106.7	9
120	60	4.0	120	60	4.0	10.7	93.5	65.2	15
120	60	5.0	120	60	5.0	13.1	76.3	79.9	13
120	60	6.3	120	60	6.3	16.2	61.7	98.8	10
120	60	8.0	120	60	8.0	20.1	49.8	122.5	8
120	60	10.0	120	60	10.0	24.3	41.2	148.1	7
120	80	4.0	120	80	4.0	11.9	84.0	72.5	14
120	80	5.0	120	80	5.0	14.7	68.0	89.6	11
120	80	6.3	120	80	6.3	18.2	54.9	110.9	9
120	80	8.0	120	80	8.0	22.6	44.2	137.8	7
120	80	10.0	120	80	10.0	27.4	36.5	167.0	6

TECHNICAL DATA FOR COLD FORMED WELDED RECTANGULAR HOLLOW SECTION OF NON-ALLOY AND FINE GRAIN STEELS. CONFIRMING TO EN 10210, DIMENSIONS AND PROPERTIES OF RECTANGULAR HOLLOW SECTION (RHS)

DIMENSION			DEPTH OF SECTION	WIDTH OF SECTION	THICKNESS OF SECTION	NOMINAL MASS OF STEEL TUBES PLAIN END			
mm	mm	mm	(H) mm	(B) mm	mm	kg/mtr	mts/t	kgs/20'	pcs/mt
140	80	4.0	140	80	4.0	13.2	75.8	80.5	12
140	80	5.0	140	80	5.0	16.3	61.3	99.4	10
140	80	6.3	140	80	6.3	20.2	49.5	123.1	8
140	80	8.0	140	80	8.0	25.1	39.8	153.0	7
140	80	10.0	140	80	10.0	30.6	32.7	186.5	5
150	100	4.0	150	100	4.0	15.1	66.2	92.0	11
150	100	5.0	150	100	5.0	18.6	53.8	113.4	9
150	100	6.3	150	100	6.3	23.1	43.3	140.8	7
150	100	8.0	150	100	8.0	28.9	34.6	176.2	6
150	100	10.0	150	100	10.0	35.3	28.3	215.2	5
150	100	12.5	150	100	12.5	42.8	23.4	260.9	4
160	80	4.0	160	80	4.0	14.4	69.4	87.8	11
160	80	5.0	160	80	5.0	17.8	56.2	108.5	9
160	80	6.3	160	80	6.3	22.2	45.0	135.3	7
160	80	8.0	160	80	8.0	27.6	36.2	168.2	6
160	80	10.0	160	80	10.0	33.7	29.7	205.4	5
160	80	12.5	160	80	12.5	40.9	24.4	249.3	4
180	100	4.0	180	100	4.0	16.9	59.2	103.0	10
180	100	5.0	180	100	5.0	21.0	47.6	128.0	8
180	100	6.3	180	100	6.3	26.1	38.3	159.1	6
180	100	8.0	180	100	8.0	32.6	30.7	198.7	5
180	100	10.0	180	100	10.0	40.0	25.0	243.8	4
180	100	12.5	180	100	12.5	48.7	20.5	296.9	3
200	100	4.0	200	100	4.0	18.2	54.9	110.9	9
200	100	5.0	200	100	5.0	22.6	44.2	137.8	7
200	100	6.3	200	100	6.3	28.1	35.6	171.3	6
200	100	8.0	200	100	8.0	35.1	28.5	214.0	5
200	100	10.0	200	100	10.0	43.1	23.2	262.7	4
200	100	12.5	200	100	12.5	52.7	19.0	321.3	3
200	100	16.0	200	100	16.0	65.2	15.3	397.5	
200	120	6.3	200	120	6.3	30.1	33.2	183.5	5
200	120	8.0	200	120	8.0	37.6	26.6	229.2	4
200	120	10.0	200	120	10.0	46.3	21.6	282.2	4
200	120	12.5	200	120	12.5	56.6	17.7	345.0	3
250	150	6.3	250	150	6.3	38.0	26.3	231.6	4
250	150	8.0	250	150	8.0	47.7	21.0	290.8	3
250	150	10.0	250	150	10.0	58.8	17.0	358.4	3
250	150	12.5	250	150	12.5	72.3	13.8	440.7	2
250	150	14.2	250	150	14.2	81.1	12.3	494.4	2
250	150	16.0	250	150	16.0	90.3	11.1	550.5	2
260	180	6.3	260	180	6.3	41.9	23.9	255.4	4
260	180	8.0	260	180	8.0	52.7	19.0	321.3	3
260	180	10.0	260	180	10.0	65.1	15.4	396.8	3

METPRO GALV

Value addition is a part of MKK's vision 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



Greenhouse
Structures



Transmission
Line Towers



Structural applications
(Solar power plant & wind mills)



Plumbing and Agricultural
(Water & irrigation transport)

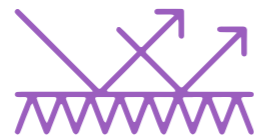
We have an in-house Galvanising Plant

MKK offers GI Round Sections in sizes ranging from **15mm NB to 450mm NB** 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



Environmentally Sustainable



Abrasion Resistant



Maintenance-Free Life of 15 Years



TECHNICAL DATA FOR STEEL TUBES FOR USES IN WATER, GAS, AIR & STEAM, CONFIRMING 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'
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")	L	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
	M	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
	H	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 (3")	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

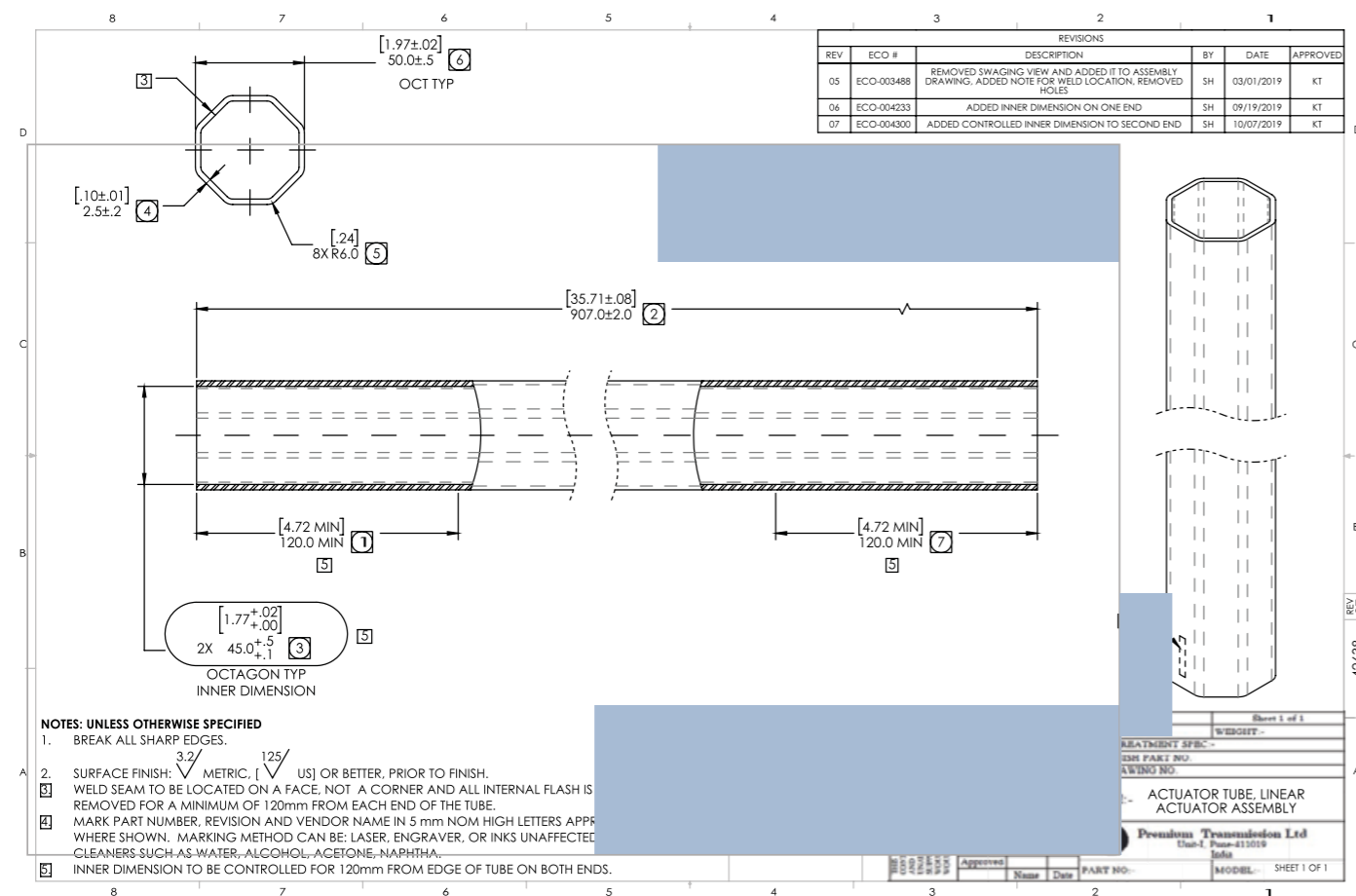
Following Manufacturing Tolerance shall be permitted on Thickness and Mass

Class	Thickness	Mass Single Tube	Mass Per Load of 10T Min	Length Unless Otherwise Specified	Hydrostatic Test Pressure
L - Light	+Not Limited	+10 Percent	+7.5 Percent	4 to 7 Mtrs	5 MPa
	-8 Percent	-8 Percent	-5.0 Percent		
M - Medium	+Not Limited	+10 Percent	+7.5 Percent	4 to 7 Mtrs	5 MPa
H - Heavy	-Not Limited	-10 Percent	-7.5 Percent		

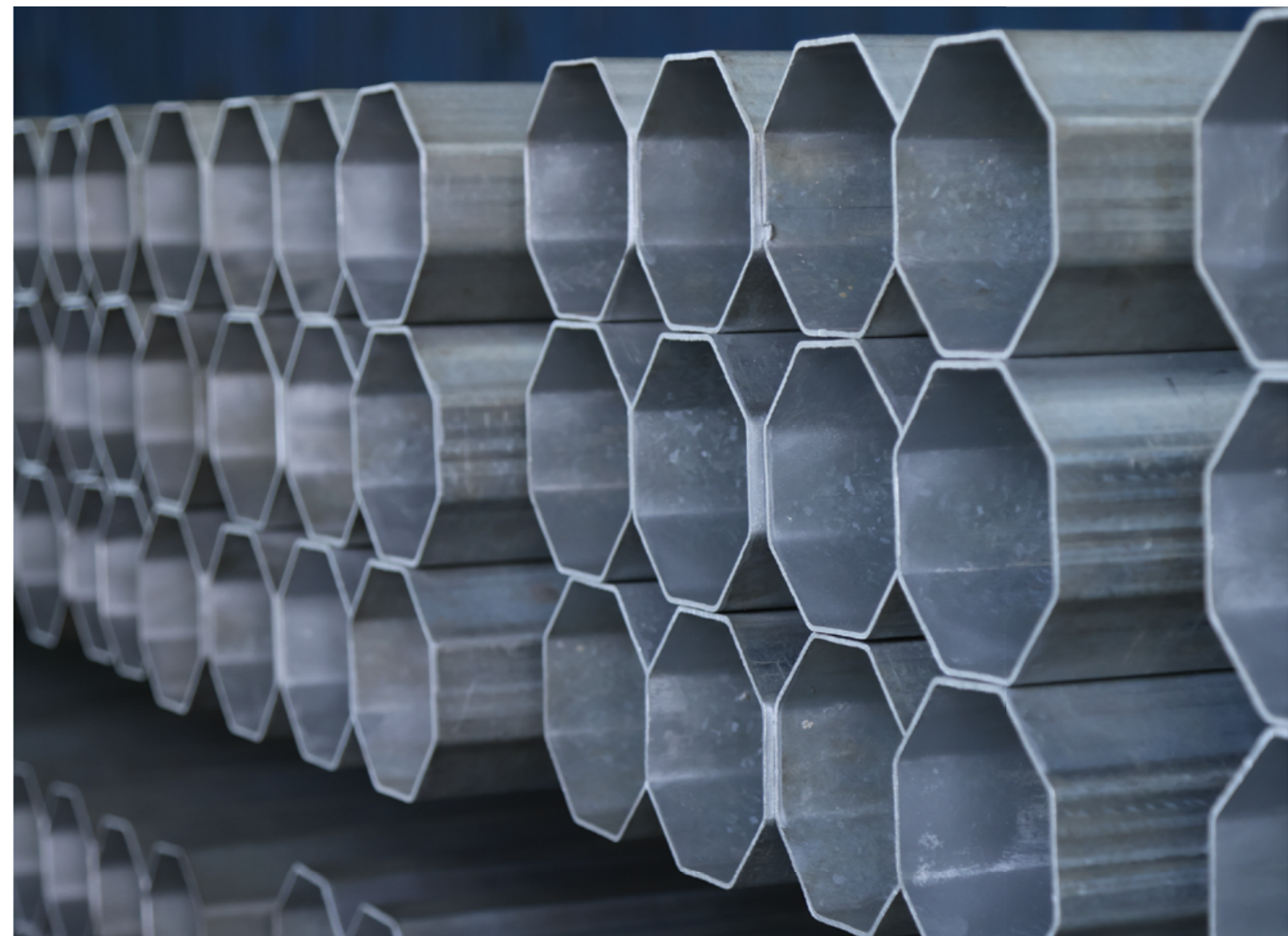
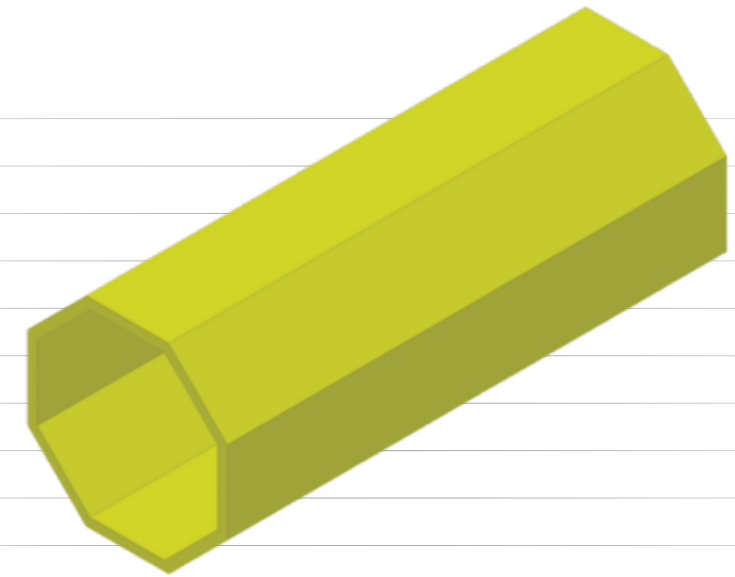
From receiving complex designs,
to challenging specifications

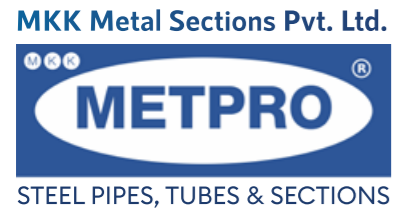
**MKK has been able to deliver
what the world needs.**

**Step 1
Design Conceptualization**



**Step 2
3D Drawing**





Delivering Excellence

Since 2002



USA | UK | UAE | Canada | Spain | Malaysia | Sri Lanka
 South America | Germany | Australia | Bangladesh

Clean Energy & Climate Action has never been more urgent.

MKK is striving to bring new means for long term sustainability solutions in manufacturing



On Time



Cost Effective



Good Quality



Reliable



Sustainable



Durable



UNMATCHED QUALITY DULY CERTIFIED

DNV

CERTIFICATE OF CONFORMITY OF THE FACTORY PRODUCTION CONTROL

Certificate No.: 2002079 Rev. 0.0 Initial certification date: 02-08-2010 Validity end date: 02-08-2017

In compliance with Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011 (the Construction products Regulation or CPR), this certificate applies to the construction product(s):

Hot finished structural hollow sections of non-alloy & fine grain steels to be used in metal structures or in composite metal and concrete structures

placed on the market under the name or trademark of **MKK METAL SECTIONS PRIVATE LIMITED**
Plot No M1 & S99 - S108, SIPCOT Phase III, Mukundarayapuram Post, Ranipet Dist-632405, Tamilnadu, India and produced in the manufacturing plant(s) **MKK METAL SECTIONS PRIVATE LIMITED**
Plot No M1 & S99 - S108, SIPCOT Phase III, Mukundarayapuram Post, Ranipet Dist-632405, Tamilnadu, India

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard(s)

EN 10210-1:2006 under system 2+ are applied and that **THE FACTORY PRODUCTION CONTROL IS ASSESSED TO BE IN CONFORMITY WITH THE APPLICABLE REQUIREMENTS**

This certificate will remain valid as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified factory production control certification body.

For more details see Appendix accompanying this Certificate.

Place and date: Ranipet, 02-08-2010 For the issuing office: DNV Business Assurance India Pvt Ltd, Chennai, India
Class Validity: 02-08-2010 to 02-08-2017

DNV

Appendix to Certificate

Certificate history:

Revision	Description	Issue Date
01	Original Certificate	2010-08-02

Additional information to the scope of certificate

Material	Steel grade & quality	Section	Dimensions (mm)	Weight (kg/m)	Yield strength (N/mm ²)	Tensile strength (N/mm ²)	Elongation (%)	Marked
S275JR	S275JR	Hollow section	100x100x6	10.2	275	475	22	Marked
			100x100x8	13.6	275	475	22	Marked
S355JR	S355JR	Hollow section	100x100x6	10.2	355	510	22	Marked
			100x100x8	13.6	355	510	22	Marked

Declaration of performance and marking of product
When meeting with the terms and conditions, as required, the manufacturer shall draw up an EC Declaration of product performance and legally affix the CE mark followed by the notified factory production control certification body identification number of DNV (2385).

DNV

CERTIFICATE OF CONFORMITY OF THE FACTORY PRODUCTION CONTROL

Certificate No.: 2002079 Rev. 0.0 Initial certification date: 02-08-2010 Validity end date: 02-08-2017

In compliance with Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011 (the Construction products Regulation or CPR), this certificate applies to the construction product(s):

Cold formed welded structural hollow sections of non-alloy & fine grain steels to be used in metal structures or in composite metal and concrete structures

placed on the market under the name or trademark of **MKK METAL SECTIONS PRIVATE LIMITED**
Plot No M1 & S99 - S108, SIPCOT Phase III, Mukundarayapuram Post, Ranipet Dist-632405, Tamilnadu, India and produced in the manufacturing plant(s) **MKK METAL SECTIONS PRIVATE LIMITED**
Plot No M1 & S99 - S108, SIPCOT Phase III, Mukundarayapuram Post, Ranipet Dist-632405, Tamilnadu, India

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard(s)

EN 10218-1:2006 under system 2+ are applied and that **THE FACTORY PRODUCTION CONTROL IS ASSESSED TO BE IN CONFORMITY WITH THE APPLICABLE REQUIREMENTS**

This certificate will remain valid as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified factory production control certification body.

For more details see Appendix accompanying this Certificate.

Place and date: Ranipet, 02-08-2010 For the issuing office: DNV Business Assurance India Pvt Ltd, Chennai, India
Class Validity: 02-08-2010 to 02-08-2017

DNV

Appendix to Certificate

Certificate history:

Revision	Description	Issue Date
01	Original Certificate	2010-08-02

Additional information to the scope of certificate

Material	Steel grade & quality	Section	Dimensions (mm)	Weight (kg/m)	Yield strength (N/mm ²)	Tensile strength (N/mm ²)	Elongation (%)	Marked
S275JR	S275JR	Cold formed hollow section	100x100x6	10.2	275	475	22	Marked
			100x100x8	13.6	275	475	22	Marked
S355JR	S355JR	Cold formed hollow section	100x100x6	10.2	355	510	22	Marked
			100x100x8	13.6	355	510	22	Marked

Declaration of performance and marking of product
When meeting with the terms and conditions, as required, the manufacturer shall draw up an EC Declaration of product performance and legally affix the CE mark followed by the notified factory production control certification body identification number of DNV (2385).

DNV

CERTIFICATE OF FACTORY PRODUCTION CONTROL

Certificate No.: C308776 Rev. 0 Initial certification date: 16-06-2014 Validity end date: 16-06-2019

This certificate consists of 02 page(s)

This is to certify that the product(s):

Non-alloy Steel tubes suitable for Welding and Threading.

Manufactured by **MKK METAL SECTIONS PRIVATE LIMITED**
Plot No M1 & S99 - S108, SIPCOT Phase III, Mukundarayapuram Post, Ranipet Dist-632405, Tamilnadu, India

has on a voluntary basis been assessed with respect to the conformity assessment procedure "Factory Production Control" as described in EN 10204:2004+A1:2007 Annex ZA Clause 12.3 of the standard on structural steel, as amended and found to comply.

Applications/Limitations
In compliance with the Construction Product Regulation 305/2011, CE marking & provide Declaration of Performance and assessment procedure A1, which is described in the Standard EN 10204:2004+A1:2007 according to the Annex ZA, Initial Type Testing (ITT) Clause 12.2 shall meet the requirements and compliance of the same under responsibility of the Manufacturer.

This certificate remains valid during a three year period as long as the conditions laid down in the harmonized technical specification in reference to the manufacturing conditions at the factory or the factory production control plant are not modified significantly. The product liability rests with the manufacturer or his representative.

Place and date: Ammadahai, 10 January 2014 For the issuing office: DNV Business Assurance India Pvt Ltd, Chennai, India
Class Validity: 10-01-2014 to 10-01-2017

Manojkumar Panichal
Head of Section, Manager - Product Assurance

DNV

Products covered by this Certificate:

Product description	Product Type	Category	Applied Standard
Non-Alloy Steel Tubes for welding & Threading (Black & Galvanized)	Non alloy steel tubes suitable for welding, Threading.	Voluntary Scheme	EN 10204:2004 + A1:2007

Sites covered by this Certificate:
Manufacturer: **MKK METAL SECTIONS PRIVATE LIMITED**
Plot No M1 & S99 - S108, SIPCOT Phase III, Mukundarayapuram Post, Ranipet Dist-632405, Tamilnadu, India

Terms and conditions:
The certificate holder is subject to the following terms and conditions:
• Any producer/Manufacturer (per 2002/95/EC for a precise definition) is liable for damage caused by a defect in the product(s), in accordance with Directive 85/374/EEC, as amended, concerning liability of defective products.
• The certificate is only valid for the products and/or manufacturing premises listed above.
• The manufacturer shall fulfil the obligations arising out of the quality system as approved and uphold it so that it remains accurate and efficient.
• The assessment scope of this certificate excludes Initial Type Testing and other conditions as in the Application of Limitations. The Initial Type Testing (ITT) by notified laboratory as described in the standard shall be met which is under the responsibility of a manufacturer.
• The Manufacturer shall inform the local DNV office of any intended updating of the quality system and DNV will assess the changes and decide if the certificate remains valid.
• Periodic audits will be held, in order to verify that the Manufacturer maintains and applies the quality system. DNV reserves the right to perform unannounced visits.

The following may render this Statement Invalid:
• Changes in the quality system affecting production.
• Periodic audits not held within the allowed time interval.

END OF CERTIFICATE

IAF **JAS-ANZ** **ICC**

Certificate of Compliance

INTEGRATED QUALITY CERTIFICATION PRIVATE LIMITED hereby certifies that the Environmental Management Systems of **MKK Metal Sections Private Limited**

Head Office: Fagun Mansion, 3rd Floor, No. 74, Ehiraj Salai, Egmore, Chennai - 600 008, Plant: Plot No. M1 & S99 -S108, SIPCOT Phase III, Mukundarayapuram Post, Ranipet Dist - 632 405, Tamil Nadu, India.

has been assessed and conforms to the Environmental Management Systems **ISO 14001:2015**

Scope: Manufacture of cold rolled formed metal sections, colour coated corrugated sheets, MS ERW pipe/tubes, RHS, SHS & octagonal hollow sections, hot dip galvanized steel products, MMS solar structures, handrails, cable trays and railway coach components.

Subdivision: 21, 22 Initial issue date: 03.11.2013
Class: 2110, 2221, 2293 Current issue date: 02.11.2016
Process(es) not applicable: None 1st Surveillance due: 02.11.2014
Certificate number: IND/IMS-QR0/JAS-C092/0192 2nd Surveillance due: 02.11.2015
Attachment(s): None

Suma Shankar
Director

Certificate of compliance has an expiry period of 3 years from the current certification cycle start date but shall be considered as expired if the surveillance audit programme indicated in this certificate of compliance is not implemented to maintain compliance. The certified management system continues to fulfil requirements unless otherwise supported by a letter of continued compliance issued by the registered office of Integrated Quality Certification Pvt Ltd. Certificate of compliance shall be applied in website/register as suspended and/or withdrawn if the surveillance programme prior to the due date indicated above is not coordinated and implemented. Written information on any significant organizational change with impact on the certificate of compliance shall be communicated to Integrated Quality Certification Pvt Ltd prior to the stated validity of the certificate.

Company Office: Chennai City, G-11/115, 5th Floor, No. 13/11, 11st Road, Velupillai Prasad Nagar, 600032, India. Tel: +91-98491 41272/41277/41282/41283, Email: iqcp@integratedqcp.com, Website: www.iqcp.com
Please visit www.iqcp.com to verify the authenticity and validity of this certificate of compliance. IQ-CMA No. 01 dated 04.12.2013

IAF **JAS-ANZ** **ICC**

Certificate of Compliance

INTEGRATED QUALITY CERTIFICATION PRIVATE LIMITED hereby certifies that the Occupational Health and Safety Management Systems of **MKK Metal Sections Private Limited**

Head Office: Fagun Mansion, 3rd Floor, No. 74, Ehiraj Salai, Egmore, Chennai - 600 008, Plant: Plot No. M1 & S99 -S108, SIPCOT Phase III, Mukundarayapuram Post, Ranipet Dist - 632 405, Tamil Nadu, India.

has been assessed and conforms to the Occupational Health and Safety Management Systems **ISO 45001:2018**

Scope: Manufacture of cold rolled formed metal sections, colour coated corrugated sheets, MS ERW pipe/tubes, RHS, SHS & octagonal hollow sections, hot dip galvanized steel products, MMS solar structures, handrails, cable trays and railway coach components.

Subdivision: 21, 22 Initial issue date: 03.11.2013
Class: 2110, 2221, 2293 Current issue date: 02.11.2016
Process(es) not applicable: None 1st Surveillance due: 02.11.2014
Certificate number: IND/IMS-QR0/JAS-C092/0444 2nd Surveillance due: 02.11.2015
Attachment(s): None

Suma Shankar
Director

Certificate of compliance has an expiry period of 3 years from the current certification cycle start date but shall be considered as expired if the surveillance audit programme indicated in this certificate of compliance is not implemented to maintain compliance. The certified management system continues to fulfil requirements unless otherwise supported by a letter of continued compliance issued by the registered office of Integrated Quality Certification Pvt Ltd. Certificate of compliance shall be applied in website/register as suspended and/or withdrawn if the surveillance programme prior to the due date indicated above is not coordinated and implemented. Written information on any significant organizational change with impact on the certificate of compliance shall be communicated to Integrated Quality Certification Pvt Ltd prior to the stated validity of the certificate.

Company Office: Chennai City, G-11/115, 5th Floor, No. 13/11, 11st Road, Velupillai Prasad Nagar, 600032, India. Tel: +91-98491 41272/41277/41282/41283, Email: iqcp@integratedqcp.com, Website: www.iqcp.com
Please visit www.iqcp.com to verify the authenticity and validity of this certificate of compliance. IQ-CMA No. 01 dated 04.12.2013

IAF **JAS-ANZ** **ICC**

Certificate of Compliance

INTEGRATED QUALITY CERTIFICATION PRIVATE LIMITED hereby certifies that the Quality Management Systems of **MKK Metal Sections Private Limited**

Head Office: Fagun Mansion, 3rd Floor, No. 74, Ehiraj Salai, Egmore, Chennai - 600 008, Plant: Plot No. M1 & S99 -S108, SIPCOT Phase III, Mukundarayapuram Post, Ranipet Dist - 632 405, Tamil Nadu, India.

has been assessed and conforms to the Quality Management Systems **ISO 9001:2015**

Scope: Manufacture of cold rolled formed metal sections, colour coated corrugated sheets, MS ERW pipe/tubes, RHS, SHS & octagonal hollow sections, hot dip galvanized steel products, MMS solar structures, handrails, cable trays and railway coach components.

Subdivision: 21, 22 Initial issue date: 26.08.2012
Class: 2110, 2221, 2293 Current issue date: 03.11.2013
Process(es) not applicable: 83 Current issue date: 02.11.2016
Certificate number: IND/IMS-QR0/JAS-C092/1451 1st Surveillance due: 02.11.2014
Attachment(s): None 2nd Surveillance due: 02.11.2015

Suma Shankar
Director

Certificate of compliance has an expiry period of 3 years from the current certification cycle start date but shall be considered as expired if the surveillance audit programme indicated in this certificate of compliance is not implemented to maintain compliance. The certified management system continues to fulfil requirements unless otherwise supported by a letter of continued compliance issued by the registered office of Integrated Quality Certification Pvt Ltd. Certificate of compliance shall be applied in website/register as suspended and/or withdrawn if the surveillance programme prior to the due date indicated above is not coordinated and implemented. Written information on any significant organizational change with impact on the certificate of compliance shall be communicated to Integrated Quality Certification Pvt Ltd prior to the stated validity of the certificate.

Company Office: Chennai City, G-11/115, 5th Floor, No. 13/11, 11st Road, Velupillai Prasad Nagar, 600032, India. Tel: +91-98491 41272/41277/41282/41283, Email: iqcp@integratedqcp.com, Website: www.iqcp.com
Please visit www.iqcp.com to verify the authenticity and validity of this certificate of compliance. IQ-CMA No. 01 dated 04.12.2013



Our Clients



Contact Us

 www.mkkmetal.in

 mkkmetsec@mkkmetal.in



Head Office

MKK Metal Sections Pvt Ltd.
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Chennai 600008, TN, India
+91 9840942571, 72

Manufacturing Unit 1

Plot No. M 1, SIPCOT
Phase III, Mukundrayapuram,
Ranipet - 632405, TN, India
+91 4172-298030, 40, 50
+91 8754464929

Manufacturing Unit 2

Plot No. S 99 to S 108,
SIPCOT, Phase III,
Mukundrayapuram,
Ranipet - 632405, TN, India
+91 4172 - 290040
+91 8754464929

MKK Metal Sections Pvt. Ltd.



STEEL PIPES, TUBES & SECTIONS

Sales Office

Bengaluru

#22, Sampurna - 9, 1st Cross-CSI Compound,
4th Floor, Lalbagh Road, Bengaluru,
Karnataka - 560027

Mumbai

1112 corporate Annexe, Sonawala Rd,
next to Udyog bhawan, Sonawala Industry
Estate, Goregaon, Mumbai,
Maharashtra 400063



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