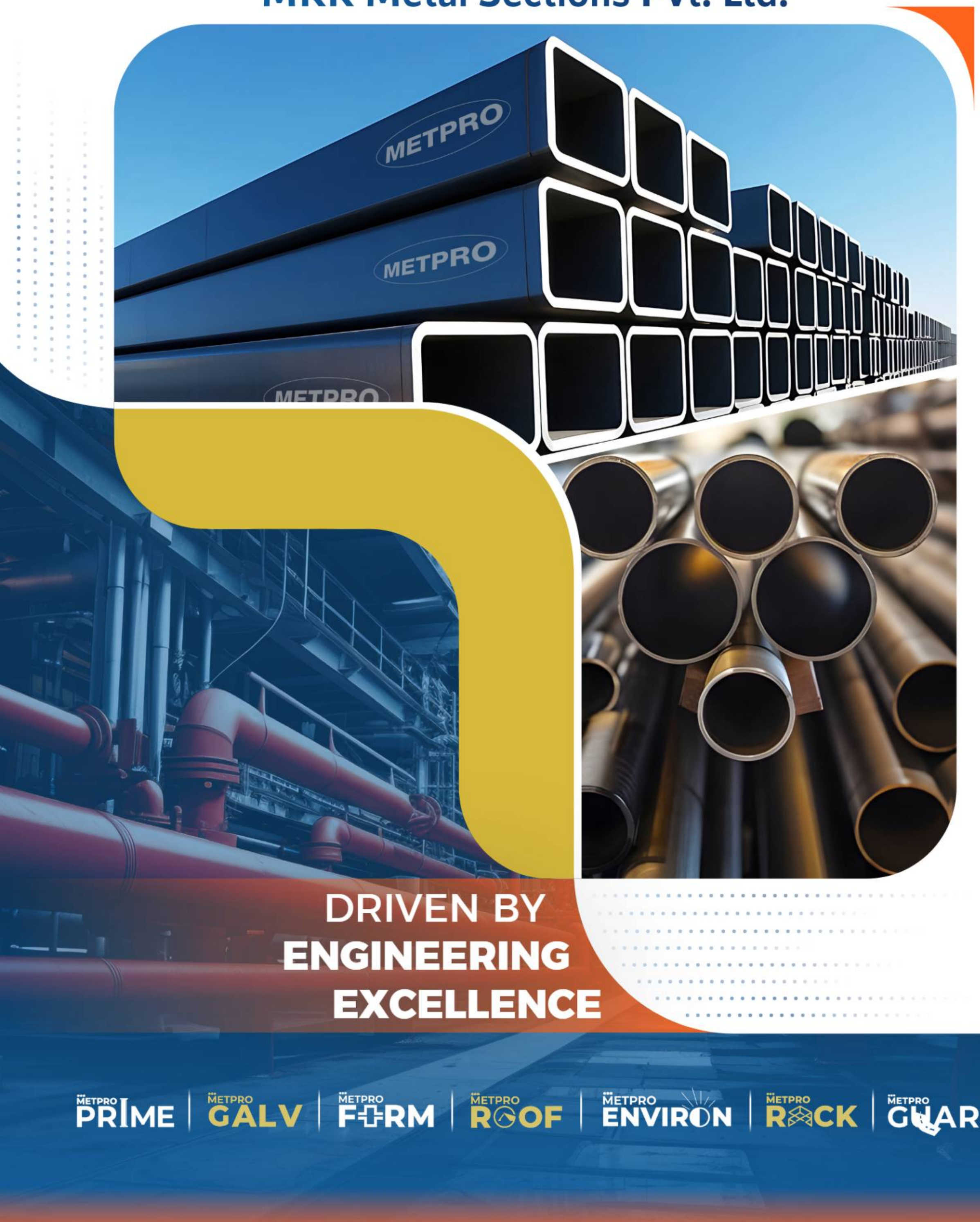
MKK METPRO®

STEEL PIPES, TUBES & SECTIONS

MKK Metal Sections Pvt. Ltd.



DRIVEN BY ENGINEERING EXCELLENCE

METPRO PRIME | METPRO GALV | METPRO FORM | METPRO ROOF | METPRO ENVIRON | METPRO RACK | METPRO GUARD

Table of Contents

About Us

MKK Metal Sections Pvt. Ltd., was setup in 2008 by Late Mr. Mahesh Kumar 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 9 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.

Founder's Legacy

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

- Shri. Mahesh Kumar Khandelwal

Born on December 22nd 1952, in the heart of the country, Gwalior, Late Shri. Mahesh Kumar 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-previliged, 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 serviceof 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

2008

Commissioning of 5 tube mills at SIPCOT, Ranipet, Tamil Nadu, India.

Capacity: **1,00,000 MTPA**

2010

Received **ISO 9001:2000** certification.

2010

Acquired new identity with registered brand name: **METPRO**

2015

Keeping up changing times, started production of **Solar Mounting Structures** Fixed and rotary.

2018

Three wider width mills commissioned Capacity ramped up to **1,50,000 MTPA.** Pioneer in R&D, developed the octangonal pipe.

2019

First in South India to manufacture tube sizes of **CHS upto 457 mm OD, SHS 350 mm x 350 mm** and **RHS 400 mm x 300 mm.**

2020

Constant R&D enabled production of Warehouse Racking Systems, Cantilevers and Crash Barriers for highways.

2021

Expanding horizons, Commissioned a new **Hot Dip Galvanized Plant** for galvanizing tubes and structures.

2023

Received **ISO 14001:2015, ISO 45001:2018** certification along with CE certification.

2024

Commissioning of a new **DFT mill** with a capacity of **2,00,000 MT**

2025

Commissioning 4 new high speed Solar Module Mounting Structure mills increasing our production capacity to **100000 MT.**

Being the only pipe and tube manufacturer in southern India to commission tube line with laser cutting technology for sizes upto 24" (610OD)

20+
Years

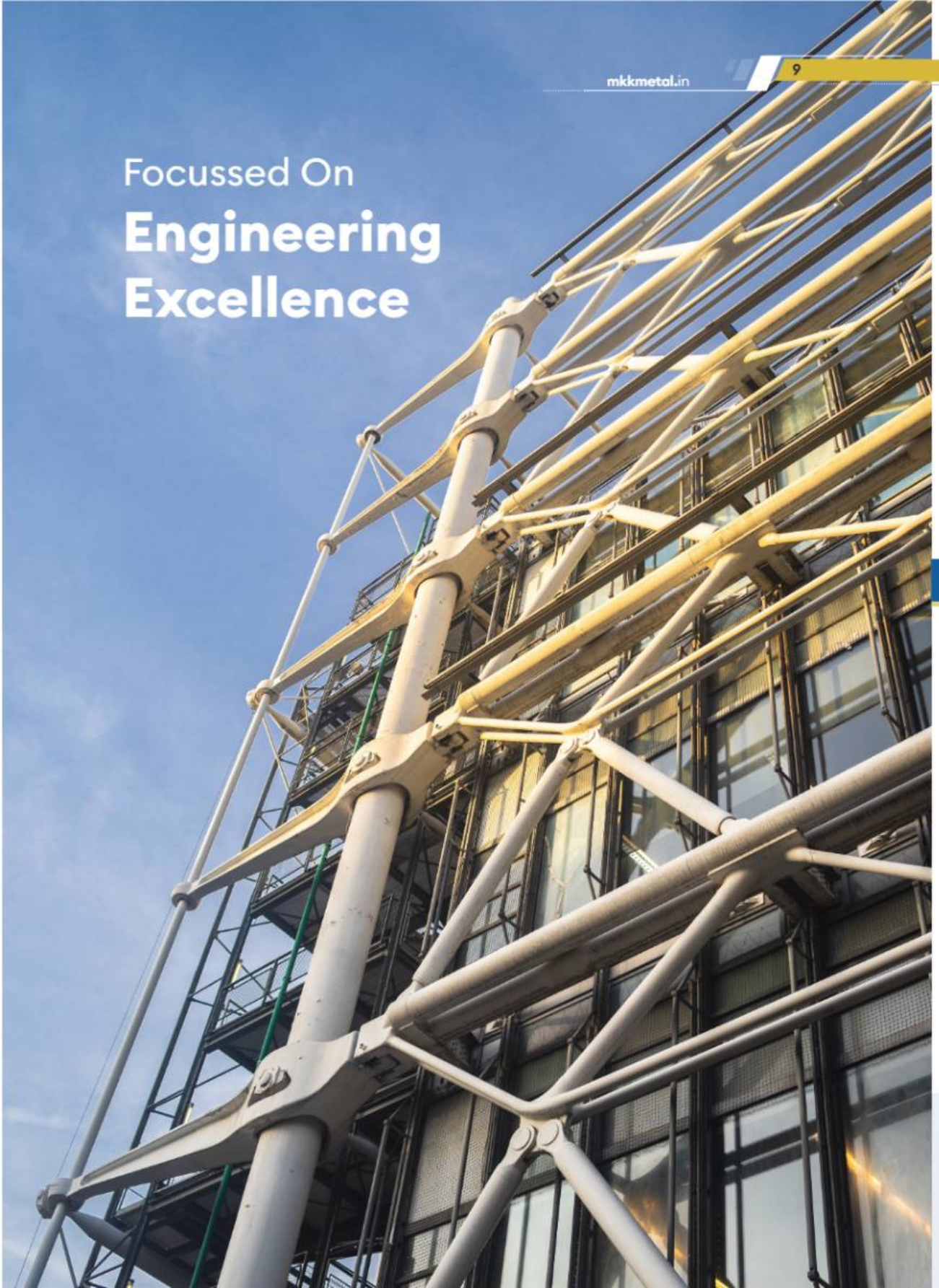
1100+
Products

800+
Customers

750+
Workforce

State-of-the-art manufacturing facilities.

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



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 - 12.7 | **Length** (m): 4 - 18

12.7 OD
610 OD
Circular Hollow Sections (CHS)

15 x 15 mm
350 x 350 mm
Square Hollow Sections (SHS)

26 x 13 mm
450 x 250 mm
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 EN10210

Highways and Warehouses

IS:4923, EN 10219, ASTM A500, IS:1161 EN10210

Steel Tubes for Mechanical, General Engineering and Decorative Purposes

Energy Projects, Sugar Industries, Automobile, AeroSpace Industries, Defence etc. **IS:3601, ASTM A513 IS 18573**

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 - Cold formed structural Hollow Sections of non-alloy & fine grain steels (CFCHS - Circular, CFRHS - Square & Rectangular) (Black & Galvanized)
2. EN 10255:2004+A 1 :2007 - Non-Alloy Steel Tubes Suitable for Welding and Threading - Circular Hollow Sections (CHS) - Black and Galvanized
3. EN 10210-1 :2006 - Hot finished structural Hollow Sections of non-alloy & fine grain steels (CFCHS - Circular, CFRHS - Square & Rectangular) (Black & Galvanized)
4. EN 10217-1-Welded Steel Tubes (CHS) for Pressure Purposes
5. Underwriters Laboratories-UL
6. SLS 829:2009 - GI Pipes
7. AFP-3206 (Activfire) for ASTM A 135/A53
8. AFP-2977 (Activfire) for AS1074
9. BIS Licenses IS 1239 (part-1), IS 3589, IS 4270, IS 1161, IS 4923, IS 3601, IS 9295, IS 18573

ACTIVFIRE ACTIVE FIRE PROTECTION – PRODUCT CERTIFICATION

CE

Underwriters Laboratories

SLS

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-11 39, 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/ IS 18573	-	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	AP15L	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.

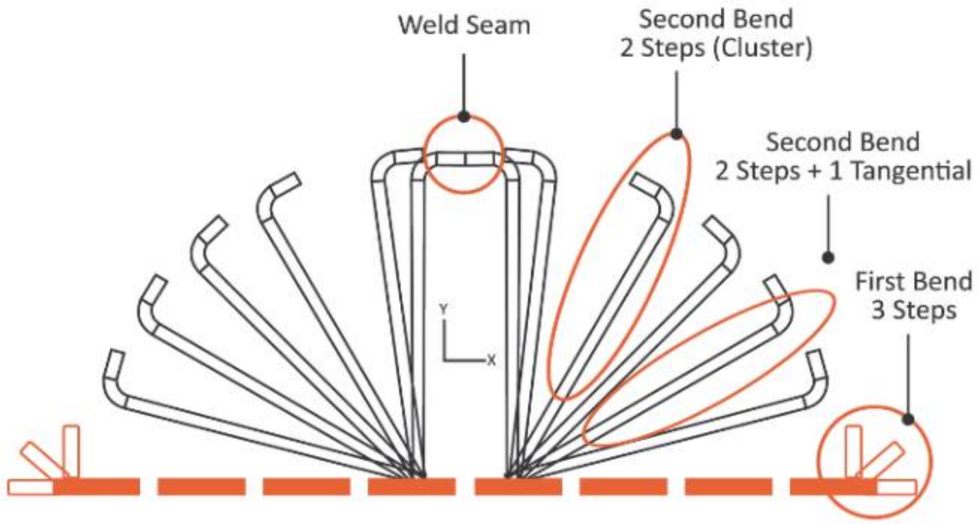
4 **Cost-Effectiveness:**
By eliminating the need for multiple forming and welding steps, our DFT Tube Mill reduces labor costs, energy consumption, and material waste, resulting in substantial cost savings for our customers.

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.

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 seam less, high-quality tubes produced with unmatched speed and efficiency.



Design of Section Pipe

Information on Specification, Grades & Sizes Covered in DFT

Specification	Grades	Sizes covered in SHS	Sizes covered in RHS
IS:4923	YST 210, 240, 310, 355	100 x 100 x 2.5 to 12.7 mm	100 x 150 x 2.5 to 12.7 mm
ASTM A500	A500-Gr A, B & C	120 x 120 x 2.5 to 12.7 mm	100 x 200 x 3 to 12.7 mm
EN 10219/10210	S235, S275, S355	135 x 135 x 2.5 to 12.7 mm	100 x 250 x 3 to 12.7 mm
	G40.20-13	150 x 150 x 3 to 12.7 mm	100 x 300 x 3 to 12.7 mm
	G40.21-13	160 x 160 x 3 to 12.7 mm	120 x 200 x 3 to 12.7 mm
		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	250 x 450 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.

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 610 OD** with thickness up to 12.7mm, 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

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	110.24	9	672.0	1
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
500	20"	513.1	508.0	502.9	6.0	4	74.28	13	452.8	2
500	20"	513.1	508.0	502.9	6.3	3	77.95	13	475.2	2
500	20"	513.1	508.0	502.9	8.0	0	98.65	10	601.4	2
500	20"	513.1	508.0	502.9	10.0	0	122.81	8	748.6	1
500	20"	513.1	508.0	502.9	12.0	0	146.79	7	894.8	1
500	20"	513.1	508.0	502.9	12.5	0	152.75	7	931.2	1
600	24"	616.1	610.0	603.9	6.0	4	89.37	11	544.8	2
600	24"	616.1	610.0	603.9	6.3	3	93.80	11	571.8	2
600	24"	616.1	610.0	603.9	8.0	0	118.77	8	724.0	1
600	24"	616.1	610.0	603.9	10.0	0	147.97	7	902.0	1
600	24"	616.1	610.0	603.9	12.0	0	176.97	6	1078.8	1
600	24"	616.1	610.0	603.9	12.5	0	184.19	5	1122.8	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 TUBES FOR MECHANICAL & GENERAL ENGINEERING PURPOSES CONFIRMING TO IS:3601 - 2006

OUTSIDE DIAMETER			WALL THICKNESS		NOMINAL MASS OF STEEL TUBES PLAIN END			
Max	Mean	Min	mm	SWG	KG/MTR	Mtrs/ Tonne	Kgs/20'	Pcs / MT
15.95	15.8	15.65	1.6	16	0.58	1724	3.5	283
15.95	15.8	15.65	1.8	15	0.64	1563	3.9	256
15.95	15.8	15.65	2.0	14	0.70	1429	4.3	234
21.45	21.3	21.15	1.8	15	0.87	1155	5.3	189
21.45	21.3	21.15	2.0	14	0.95	1050	5.8	172
21.45	21.3	21.15	2.6	12	1.20	833	7.3	137
21.45	21.3	21.15	3.2	10	1.43	699	8.7	115
21.45	21.3	21.15	4.0	8	1.71	585	10.4	96
25.58	25.4	25.22	1.6	16	0.93	1075	5.7	176
25.58	25.4	25.22	1.8	15	1.04	962	6.3	158
25.58	25.4	25.22	2.0	14	1.15	870	7.0	143
27.08	26.9	26.72	1.8	15	1.11	901	6.8	148
27.08	26.9	26.72	2.0	14	1.23	813	7.5	133
27.08	26.9	26.72	2.3	13	1.40	714	8.5	117
27.08	26.9	26.72	2.6	12	1.56	641	9.5	105
27.08	26.9	26.72	3.2	10	1.87	535	11.4	88
27.08	26.9	26.72	4.0	8	2.26	442	13.8	73
31.9	31.75	31.60	1.6	16	1.20	833	7.3	137
31.9	31.75	31.60	1.8	15	1.35	741	8.2	122
31.9	31.75	31.60	2.0	14	1.49	671	9.1	110
33.88	33.7	33.52	2.0	14	1.56	641	9.5	105
33.88	33.7	33.52	2.3	13	1.78	562	10.9	92
33.88	33.7	33.52	2.6	12	1.99	503	12.1	82
33.88	33.7	33.52	3.2	10	2.41	415	14.7	68
33.88	33.7	33.52	4.0	8	2.93	341	17.9	56
38.28	38.1	37.92	2.0	14	1.78	562	10.9	92
38.28	38.1	37.92	2.6	12	2.27	441	13.8	72
38.28	38.1	37.92	3.2	10	2.75	364	16.8	60
38.28	38.1	37.92	4.0	8	3.36	298	20.5	49
40.18	40.0	39.82	2.0	14	1.87	535	11.4	88
40.18	40.0	39.82	2.3	13	2.13	469	13.0	77
40.18	40.0	39.82	2.6	12	2.39	418	14.6	69
40.18	40.0	39.82	3.2	10	3.55	282	21.6	46
42.58	42.4	42.22	2.3	13	2.27	441	13.8	72
42.58	42.4	42.22	2.6	12	2.55	392	15.5	64
42.58	42.4	42.22	3.2	10	3.09	324	18.8	53
42.58	42.4	42.22	3.6	9	3.44	291	21.0	48
42.58	42.4	42.22	4.0	8	3.79	264	23.1	43
42.58	42.4	42.22	5.4	5	4.92	203	30.0	33

TECHNICAL DATA FOR STEEL TUBES FOR MECHANICAL & GENERAL ENGINEERING PURPOSES CONFIRMING TO IS:3601 - 2006

OUTSIDE DIAMETER			WALL THICKNESS		NOMINAL MASS OF STEEL TUBES PLAIN END			
Max	Mean	Min	mm	SWG	KG/MTR	Mtrs/ Tonne	Kgs/20'	Pcs / MT
45.38	45.2	45.02	2.3	13	2.43	412	14.8	68
45.38	45.2	45.02	2.6	12	2.73	366	16.6	60
45.38	45.2	45.02	3.2	10	3.31	302	20.2	50
45.38	45.2	45.02	3.6	9	3.69	271	22.5	44
45.38	45.2	45.02	4.0	8	4.06	246	24.7	40
48.48	48.3	48.12	2.3	13	2.61	383	15.9	63
48.48	48.3	48.12	2.6	12	2.93	341	17.9	56
48.48	48.3	48.12	2.9	11	3.25	308	19.8	50
48.48	48.3	48.12	3.2	10	3.56	281	21.7	46
48.48	48.3	48.12	3.6	9	3.97	252	24.2	41
48.48	48.3	48.12	4.0	8	4.37	229	26.6	38
48.48	48.3	48.12	4.9	6	5.24	191	31.9	31
50.98	50.8	50.62	2.3	13	2.75	364	16.8	60
50.98	50.8	50.62	2.6	12	3.09	324	18.8	53
50.98	50.8	50.62	3.2	10	3.75	267	22.9	44
50.98	50.8	50.62	3.6	9	4.19	239	25.5	39
50.98	50.8	50.62	4.0	8	4.61	217	28.1	36
53.25	53.0	52.75	3.2	10	3.93	254	24.0	42
53.25	53.0	52.75	4.5	7	5.38	186	32.8	30
53.25	53.0	52.75	5.4	5	6.33	158	38.6	26
53.25	53.0	52.75	6.3	3	7.25	138	44.2	23
53.25	53.0	52.75	8.0	0	8.87	113	54.1	18
60.55	60.3	60.05	2.3	13	3.29	304	20.1	50
60.55	60.3	60.05	2.6	12	3.70	270	22.6	44
60.55	60.3	60.05	2.9	11	4.11	243	25.1	40
60.55	60.3	60.05	3.2	10	4.51	222	27.5	36
60.55	60.3	60.05	3.6	9	5.03	199	30.7	33
60.55	60.3	60.05	4.0	8	5.55	180	33.8	30
60.55	60.3	60.05	4.5	7	6.19	162	37.7	27
60.55	60.3	60.05	8.0	0	10.31	97	62.8	16
63.75	63.5	63.25	2.3	13	3.47	288	21.2	47
63.75	63.5	63.25	2.6	12	3.90	256	23.8	42
63.75	63.5	63.25	3.2	10	4.75	211	29.0	35
63.75	63.5	63.25	3.6	9	5.39	186	32.9	30
63.75	63.5	63.25	4.5	7	6.55	153	39.9	25
76.35	76.1	75.85	2.6	12	4.71	212	28.7	35
76.35	76.1	75.85	2.9	11	5.24	191	31.9	31
76.35	76.1	75.85	3.2	10	5.75	174	35.1	29
76.35	76.1	75.85	3.6	9	6.44	155	39.3	25
76.35	76.1	75.85	4.5	7	7.95	126	48.5	21
76.35	76.1	75.85	5.0	6	8.77	114	53.5	19
76.35	76.1	75.85	5.4	5	9.42	106	57.4	17

TECHNICAL DATA FOR STEEL TUBES FOR MECHANICAL & GENERAL ENGINEERING PURPOSES CONFIRMING TO IS:3601 - 2006

OUTSIDE DIAMETER			WALL THICKNESS		NOMINAL MASS OF STEEL TUBES PLAIN END			
Max	Mean	Min	mm	SWG	KG/MTR	Mtrs/ Tonne	Kgs/20'	Pcs / MT
76.35	76.1	75.85	6.3	3	10.80	93	65.8	15
76.35	76.1	75.85	7.1	2	12.10	83	73.8	14
89.21	88.9	88.59	2.9	11	6.15	163	37.5	27
89.21	88.9	88.59	3.2	10	6.76	148	41.2	24
89.21	88.9	88.59	4.0	8	8.38	119	51.1	20
89.21	88.9	88.59	5.0	6	10.30	97	62.8	16
89.21	88.9	88.59	5.4	5	11.10	90	67.7	15
89.21	88.9	88.59	6.3	3	12.80	78	78.0	13
101.96	101.6	101.24	3.6	9	8.70	115	53.0	19
101.96	101.6	101.24	4.0	8	9.63	104	58.7	17
101.96	101.6	101.24	5.0	6	11.90	84	72.5	14
112.93	112.5	112.07	2.9	11	7.83	128	47.7	21
112.93	112.5	112.07	3.2	10	8.62	116	52.5	19
114.73	114.3	113.87	3.2	10	8.77	114	53.5	19
114.73	114.3	113.87	3.6	9	9.83	102	59.9	17
114.73	114.3	113.87	4.5	7	12.20	82	74.4	13
114.73	114.3	113.87	5.4	5	14.50	69	88.4	11
114.73	114.3	113.87	6.3	3	16.80	60	102.4	10
114.73	114.3	113.87	8.0	0	21.00	48	128.0	8
127.58	127.0	126.42	4.5	7	13.60	74	82.9	12
127.58	127.0	126.42	5.0	6	15.00	67	91.4	11
127.58	127.0	126.42	5.4	5	16.20	62	98.8	10
133.58	133.0	132.42	5.0	6	15.78	63	96.2	10
133.58	133.0	132.42	6.3	3	19.68	51	120.0	8
133.58	133.0	132.42	8.0	0	24.66	41	150.3	7
140.28	139.7	139.12	3.6	9	12.10	83	73.8	14
140.28	139.7	139.12	4.0	8	13.40	75	81.7	12
140.28	139.7	139.12	4.5	7	15.00	67	91.4	11
140.28	139.7	139.12	5.0	6	16.60	60	101.2	10
140.28	139.7	139.12	5.4	5	17.90	56	109.1	9
140.28	139.7	139.12	6.3	3	20.70	48	126.2	8
140.28	139.7	139.12	8.0	0	26.00	38	158.5	6
152.98	152.4	151.82	4.5	7	16.40	61	100.0	10
152.98	152.4	151.82	4.8	6	17.60	57	107.3	9
152.98	152.4	151.82	5.4	5	19.58	51	119.4	8
152.98	152.4	151.82	6.3	3	22.70	44	138.4	7
158.35	159.0	159.65	4.5	7	17.10	58	104.2	10
158.35	159.0	159.65	4.8	6	18.44	54	112.4	9
158.35	159.0	159.65	5.4	5	20.46	49	124.7	8
158.35	159.0	159.65	6.3	3	23.72	42	144.6	7
165.75	165.1	164.45	4.5	7	17.80	56	108.5	9

TECHNICAL DATA FOR STEEL TUBES FOR MECHANICAL & GENERAL ENGINEERING PURPOSES CONFIRMING TO IS:3601 - 2006

OUTSIDE DIAMETER			WALL THICKNESS		NOMINAL MASS OF STEEL TUBES PLAIN END			
Max	Mean	Min	mm	SWG	KG/MTR	Mtrs/ Tonne	Kgs/20'	Pcs / MT
165.75	165.1	164.45	5.0	6	19.70	51	120.1	8
165.75	165.1	164.45	5.4	5	21.20	47	129.2	8
165.75	165.1	164.45	6.3	3	24.80	40	151.2	7
168.95	168.3	167.65	4.0	8	16.20	62	98.8	10
168.95	168.3	167.65	4.5	7	18.20	55	110.9	9
168.95	168.3	167.65	5.0	6	20.10	50	122.5	8
168.95	168.3	167.65	5.4	5	21.70	46	132.3	8
168.95	168.3	167.65	6.3	3	25.20	40	153.6	7
168.95	168.3	167.65	7.1	2	28.20	35	171.9	6
168.95	168.3	167.65	8.0	0	31.60	32	192.6	5
194.45	193.7	192.95	5.0	6	23.30	43	142.0	7
194.45	193.7	192.95	5.4	5	25.10	40	153.0	7
194.45	193.7	192.95	5.9	4	27.30	37	166.4	6
194.45	193.7	192.95	6.3	3	29.10	34	177.4	6
194.45	193.7	192.95	8.0	0	36.60	27	223.1	4
219.85	219.1	218.35	4.5	7	23.80	42	145.1	7
219.85	219.1	218.35	5.0	6	26.40	38	160.9	6
219.85	219.1	218.35	5.6	5	29.50	34	179.8	6
219.85	219.1	218.35	6.3	3	33.10	30	201.8	5
219.85	219.1	218.35	8.0	0	41.60	24	253.6	4
245.25	244.5	243.75	5.9	4	34.20	29	208.5	5
245.25	244.5	243.75	7.1	2	41.70	24	254.2	4
245.25	244.5	243.75	8.0	0	46.10	22	281.0	4
273.75	273.0	272.25	5.0	6	33.00	30	201.2	5
273.75	273.0	272.25	6.3	3	41.40	24	252.4	4
273.75	273.0	272.25	7.1	2	46.60	21	284.1	4
273.75	273.0	272.25	8.0	0	52.20	19	318.2	3
273.75	273.0	272.25	10.0	0	64.90	15	395.6	3
324.65	323.9	323.15	5.6	5	44.00	23	268.2	4
324.65	323.9	323.15	7.1	2	55.50	18	338.3	3
324.65	323.9	323.15	8.0	0	62.30	16	379.8	3
324.65	323.9	323.15	10.0	0	77.40	13	471.8	2
356.35	355.6	354.85	5.6	5	48.30	21	294.4	3
356.35	355.6	354.85	8.0	0	68.60	15	418.2	2
356.35	355.6	354.85	10.0	0	85.20	12	519.4	2
356.35	355.6	354.85	11.0	0	93.50	11	570.0	2
356.35	355.6	354.85	12.5	0	106.00	9	646.2	2
377.75	377.0	376.25	5.6	5	51.37	19	313.2	3
377.75	377.0	376.25	8.0	0	72.80	14	443.8	2
377.75	377.0	376.25	10.0	0	90.50	11	551.7	2
377.75	377.0	376.25	12.5	0	112.36	9	684.9	1

Circular Hollow Sections (CHS)

TECHNICAL DATA FOR STEEL TUBES FOR MECHANICAL & GENERAL ENGINEERING PURPOSES CONFIRMING TO IS:3601 - 2006

OUTSIDE DIAMETER			WALL THICKNESS		NOMINAL MASS OF STEEL TUBES PLAIN END			
Max	Mean	Min	mm	SWG	KG/MTR	Mtrs/ Tonne	Kgs/20'	Pcs / MT
407.15	406.4	405.65	6.3	5	62.20	16	379.2	3
407.15	406.4	405.65	8.8	0	86.30	12	526.1	2
407.15	406.4	405.65	10.0	0	97.80	10	596.2	2
407.15	406.4	405.65	12.5	0	121.00	8	737.6	1

Manufacturing Tolerance shall be permitted on Thickness +/- 10 percent

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.

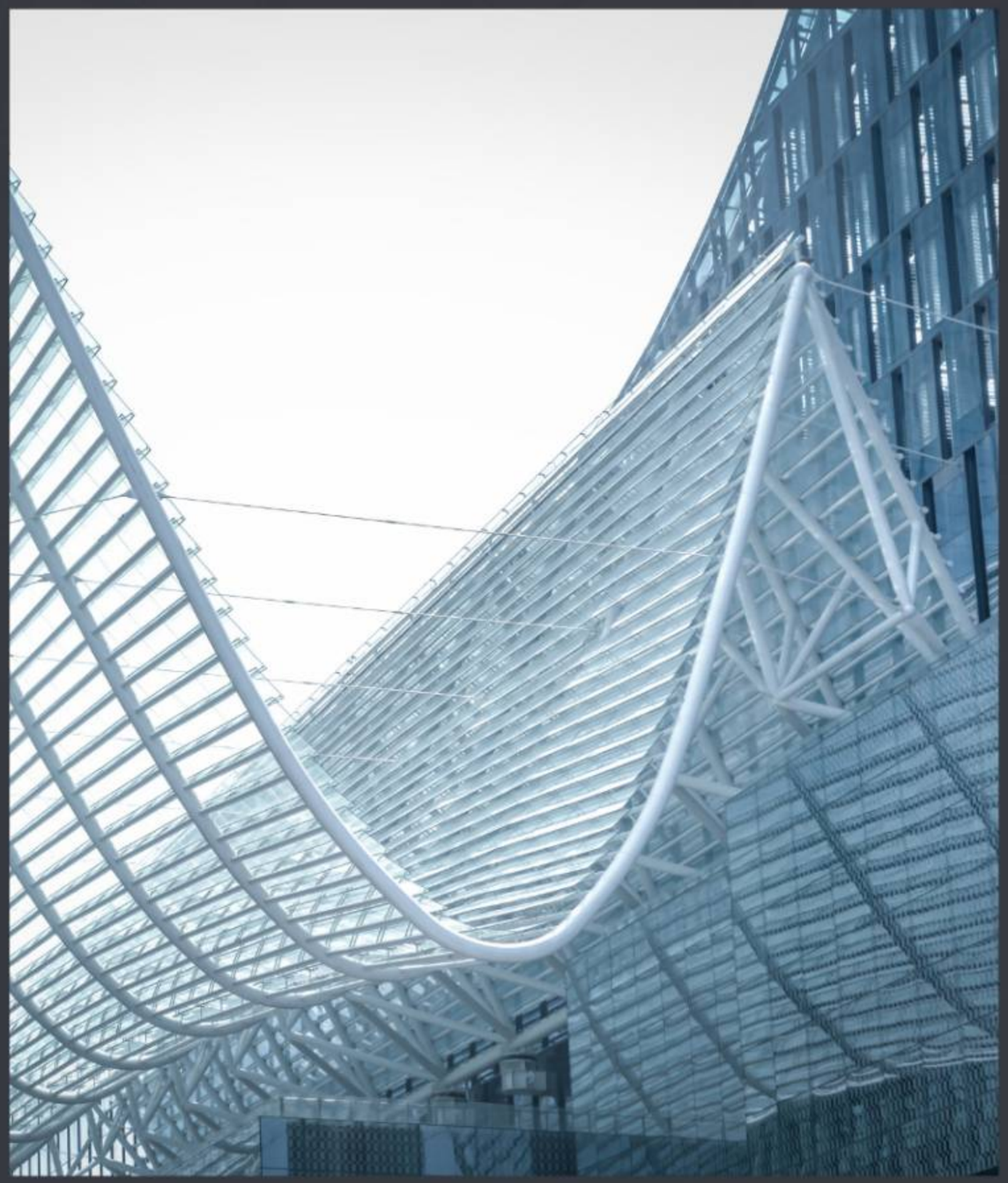
TECHNICAL DATA FOR STEEL PIPES FOR WATER AND SEWAGE, CONFORMING TO IS:3589 - 2001

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
169.56	168.3	167.03	3.2	10	12.00	83	73.15	14
169.56	168.3	167.03	4.0	8	16.20	62	98.76	10
169.56	168.3	167.03	4.5	7	18.20	55	110.95	9
220.74	219.1	217.45	2.6	12	13.90	72	84.73	12
220.74	219.1	217.45	3.6	9	19.TO	52	116.43	9
220.74	219.1	217.45	4.5	7	23.80	42	145.08	7
220.74	219.1	217.45	6.3	3	33.TO	30	201.78	5
275.04	273.0	270.95	3.6	9	23.90	42	145.69	7
275.04	273.0	270.95	4.0	8	26.50	38	161.54	6
275.04	273.0	270.95	5.0	6	33.00	30	201.17	5
275.04	273.0	270.95	6.3	3	41.10	24	250.55	4
326.32	323.9	321.47	4.0	8	31.80	31	193.85	5
326.32	323.9	321.47	4.5	7	35.40	28	215.80	5
326.32	323.9	321.47	5.6	5	44.00	23	268.22	4
326.32	323.9	321.47	7.1	2	55.50	18	338.33	3
358.26	355.6	352.93	4.0	8	34.70	29	211.53	5
358.26	355.6	352.93	5.0	6	43.20	23	263.35	4
358.26	355.6	352.93	5.6	5	48.30	21	294.44	3
358.26	355.6	352.93	8.0	0	68.60	15	418.19	2
409.44	406.4	403.35	4.0	8	39.70	25	242.01	4
409.44	406.4	403.35	5.0	6	49.50	20	301.75	3
409.44	406.4	403.35	6.3	3	62.20	16	379.17	3
409.44	406.4	403.35	8.8	0	86.30	12	526.08	2
460.42	457.0	453.57	4.0	8	44.70	22	272.49	4
460.42	457.0	453.57	5.0	6	55.70	8	339.55	3
460.42	457.0	453.57	6.3	3	70.00	14	426.72	2
460.42	457.0	453.57	10.0	0	110.00	9	670.56	1
511.81	508.0	504.19	5.0	6	62.00	16	377.95	3
511.81	508.0	504.19	5.6	5	69.40	14	423.06	2
511.81	508.0	504.19	6.3	3	77.90	13	474.88	2
511.81	508.0	504.19	11.0	0	135.00	7	822.96	1
614.575	610.0	605.43	5.8	4	83.50	12	509.02	2
614.575	610.0	605.43	6.3	3	93.80	11	571.80	2
614.575	610.0	605.43	12.5	0	184.00	5	1121.66	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.



Circular Hollow Sections (CHS)

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	Z8	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.Z	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.

Circular Hollow Sections (CHS)

TECHNICAL DATA FOR STEEL TUBES FOR IDLERS FOR BELT CONVEYORS, CONFORMING TO IS:9295 -2024

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
64.01	63.5	62.99	4.50	7	6.55	153	39.93	25
76.71	76.1	75.49	3.65	9	6.52	153	39.75	25
76.71	76.1	75.49	4.50	7	7.95	126	48.46	21
76.71	76.1	75.49	5.00	6	8.77	114	53.46	19
89.61	88.9	88.19	4.05	8	8.47	118	51.63	19
89.61	88.9	88.19	4.85	6	10.05	100	61.26	16
89.61	88.9	88.19	6.30	3	12.83	78	78.21	13
102.41	101.6	100.79	4.05	8	9.74	103	59.38	17
102.41	101.6	100.79	4.85	6	11.57	86	70.53	14
102.41	101.6	100.79	6.30	3	14.81	68	90.28	11
115.21	114.3	113.39	4.50	7	12.19	82	74.31	13
115.21	114.3	113.39	5.40	5	14.50	69	88.39	11
115.21	114.3	113.39	6.30	3	16.78	60	102.29	10
128.02	127.0	125.98	4.50	7	13.60	74	82.91	12
128.02	127.0	125.98	4.85	6	14.61	68	89.06	11
128.02	127.0	125.98	5.40	5	16.10	62	98.15	10
128.02	127.0	125.98	6.30	3	18.75	53	114.30	9
134.06	133.0	131.94	4.50	7	14.30	70	87.17	11
134.06	133.0	131.94	4.85	6	15.33	65	93.45	11
134.06	133.0	131.94	5.40	5	16.99	59	103.57	10
134.06	133.0	131.94	6.30	3	19.69	51	120.03	8
140.82	139.7	138.58	4.50	7	15.00	67	91.44	11
140.82	139.7	138.58	4.85	6	16.13	62	98.33	10
140.82	139.7	138.58	5.40	5	17.89	56	109.06	9
140.82	139.7	138.58	6.30	3	20.73	48	126.37	8
153.62	152.4	151.18	4.50	7	16.40	61	99.97	10
153.62	152.4	151.18	4.85	6	17.65	57	107.59	9
153.62	152.4	151.18	5.40	5	19.58	51	119.36	8
153.62	152.4	151.18	6.30	3	22.70	44	138.38	7
160.27	159.0	157.73	4.50	7	17.10	58	104.24	10
160.27	159.0	157.73	4.85	6	18.44	54	112.41	9
160.27	159.0	157.73	5.40	5	20.46	49	124.72	8
160.27	159.0	157.73	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
166.42	165.1	163.78	4.85	6	19.17	52	116.86	9
166.42	165.1	163.78	5.40	5	21.27	47	129.66	8
166.42	165.1	163.78	6.30	3	24.67	41	150.39	7
169.65	168.3	166.95	4.50	7	18.20	55	110.95	9
169.65	168.3	166.95	4.85	6	19.55	51	119.18	8
169.65	168.3	166.95	5.40	5	21.69	46	132.22	8
169.65	168.3	166.95	6.30	3	25.17	40	153.44	7
195.25	193.7	192.15	5.00	6	23.30	43	142.04	7
195.25	193.7	192.15	5.40	5	25.10	40	153.01	7
195.25	193.7	192.15	6.30	3	29.12	34	177.52	6
195.25	193.7	192.15	7.10	2	32.67	31	199.16	5
220.85	219.1	217.35	5.40	5	28.50	35	173.74	6
220.85	219.1	217.35	6.30	3	33.06	30	201.53	5
220.85	219.1	217.35	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.

Comprehensive Size Range for CHS

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	12.7
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								■	■	■	■	■	■	■	■	■
508 OD								■	■	■	■	■	■	■	■	■
610 OD								■	■	■	■	■	■	■	■	■

Square Hollow Sections (SHS)

• Introduction

METPRO square hollow sections ranging from **15x15 mm to 350x350 mm** and thickness ranging from 1.6mm to 12.7mm 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

IS 4923, IS 18573

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

Square Hollow Sections (SHS)

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

DIMENSION			DEPTH OF SECTION	WIDTH OF SECTION	THICKNESS OF SECTION	NOMINAL MASS OF STEEL TUBES PLAIN END			
mm	mm	mm	(D) mm	(B) mm	mm	kg/mtr	mts/t	kgs/20'	pcs/mt
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 Weight on Individual Length : + 10 % & - 8% Weight on On lots of 10 tones : ± 7.5 %	Squareness of Corner : 90° ± 2°	Radii of Outside Corners : 3t max, where t is the thickness of section

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 SQUARE HOLLOW SECTIONS (SHS)

DIMENSION			DEPTH OF SECTION	WIDTH OF SECTION	THICKNESS OF SECTION	NOMINAL MASS OF STEEL HOLLOW PLAIN END			
mm	mm	mm	(D) mm	(B) mm	mm	kg/mtr	mtrs/t	kgs/20'	pcs/mt
20.0	20.0	0.9	20.0	20.0	0.9	0.52	1923	3.2	315
20.0	20.0	1.2	20.0	20.0	1.2	0.68	1471	4.1	241
20.0	20.0	1.4	20.0	20.0	1.4	0.78	1282	4.8	210
20.0	20.0	1.6	20.0	20.0	1.6	0.87	1149	5.3	189
20.0	20.0	1.8	20.0	20.0	1.8	0.96	1042	5.9	171
20.0	20.0	1.9	20.0	20.0	1.9	1.01	990	6.2	162
25.0	25.0	0.9	25.0	25.0	0.9	0.66	1515	4.0	249
25.0	25.0	1.2	25.0	25.0	1.2	0.87	1149	5.3	189
25.0	25.0	1.4	25.0	25.0	1.4	1.00	1000	6.1	164
25.0	25.0	1.6	25.0	25.0	1.6	1.12	893	6.8	146
25.0	25.0	1.8	25.0	25.0	1.8	1.25	800	7.6	131
25.0	25.0	1.9	25.0	25.0	1.9	1.31	763	8.0	125
30.0	30.0	1.2	30.0	30.0	1.2	1.06	943	6.5	155
30.0	30.0	1.4	30.0	30.0	1.4	1.22	820	7.4	134
30.0	30.0	1.6	30.0	30.0	1.6	1.37	730	8.4	120
30.0	30.0	1.8	30.0	30.0	1.8	1.53	654	9.3	107
30.0	30.0	1.9	30.0	30.0	1.9	1.60	625	9.8	103
32.0	32.0	1.2	32.0	32.0	1.2	1.13	885	6.9	145
32.0	32.0	1.4	32.0	32.0	1.4	1.31	763	8.0	125
32.0	32.0	1.6	32.0	32.0	1.6	1.48	676	9.0	111
32.0	32.0	1.8	32.0	32.0	1.8	1.64	610	10.0	100
32.0	32.0	1.9	32.0	32.0	1.9	1.72	581	10.5	95
35.0	35.0	1.2	35.0	35.0	1.2	1.24	806	7.6	132
35.0	35.0	1.4	35.0	35.0	1.4	1.44	694	8.8	114
35.0	35.0	1.6	35.0	35.0	1.6	1.63	613	9.9	101
35.0	35.0	1.8	35.0	35.0	1.8	1.81	552	11.0	91
35.0	35.0	1.9	35.0	35.0	1.9	1.90	526	11.6	86
38.0	38.0	1.2	38.0	38.0	1.2	1.36	735	8.3	121
38.0	38.0	1.4	38.0	38.0	1.4	1.57	637	9.6	104
38.0	38.0	1.6	38.0	38.0	1.6	1.78	562	10.9	92
38.0	38.0	1.8	38.0	38.0	1.8	1.98	505	12.1	83
38.0	38.0	1.9	38.0	38.0	1.9	2.08	481	12.7	79
40.0	40.0	1.2	40.0	40.0	1.2	1.43	699	8.7	115
40.0	40.0	1.4	40.0	40.0	1.4	1.66	602	10.1	99
40.0	40.0	1.6	40.0	40.0	1.6	1.88	532	11.5	87
40.0	40.0	1.8	40.0	40.0	1.8	2.09	478	12.7	78
40.0	40.0	1.9	40.0	40.0	1.9	2.20	455	13.4	75
45.0	45.0	1.2	45.0	45.0	1.2	1.62	617	9.9	101
45.0	45.0	1.4	45.0	45.0	1.4	1.88	532	11.5	87
45.0	45.0	1.6	45.0	45.0	1.6	2.13	469	13.0	77
45.0	45.0	1.8	45.0	45.0	1.8	2.38	420	14.5	69
45.0	45.0	1.9	45.0	45.0	1.9	2.50	400	15.2	66

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 SQUARE HOLLOW SECTIONS (SHS)

DIMENSION			DEPTH OF SECTION	WIDTH OF SECTION	THICKNESS OF SECTION	NOMINAL MASS OF STEEL HOLLOW PLAIN END			
mm	mm	mm	(D) mm	(B) mm	mm	kg/mtr	mtrs/t	kgs/20'	pcs/mt
49.5	49.5	1.2	49.5	49.5	1.2	1.79	559	10.9	92
49.5	49.5	1.4	49.5	49.5	1.4	2.07	483	12.6	79
49.5	49.5	1.6	49.5	49.5	1.6	2.35	426	14.3	70
49.5	49.5	1.8	49.5	49.5	1.8	2.63	380	16.0	62
49.5	49.5	1.9	49.5	49.5	1.9	2.77	361	16.9	59
50.0	50.0	1.2	50.0	50.0	1.2	1.81	552	11.0	91
50.0	50.0	1.4	50.0	50.0	1.4	2.10	476	12.8	78
50.0	50.0	1.6	50.0	50.0	1.6	2.38	420	14.5	69
50.0	50.0	1.8	50.0	50.0	1.8	2.66	376	16.2	62
50.0	50.0	1.9	50.0	50.0	1.9	2.80	357	17.1	59
60.0	60.0	1.2	60.0	60.0	1.2	2.19	457	13.4	75
60.0	60.0	1.4	60.0	60.0	1.4	2.54	394	15.5	65
60.0	60.0	1.6	60.0	60.0	1.6	2.88	347	17.6	57
60.0	60.0	1.8	60.0	60.0	1.8	3.22	311	19.6	51
60.0	60.0	1.9	60.0	60.0	1.9	3.39	295	20.7	48
63.5	63.5	1.2	63.5	63.5	1.2	2.32	431	14.1	71
63.5	63.5	1.4	63.5	63.5	1.4	2.69	372	16.4	61
63.5	63.5	1.6	63.5	63.5	1.6	3.06	327	18.7	54
63.5	63.5	1.8	63.5	63.5	1.8	3.42	292	20.8	48
63.5	63.5	1.9	63.5	63.5	1.9	3.60	278	21.9	46
63.5	63.5	2.4	63.5	63.5	2.4	4.49	223	27.4	37
70.0	70.0	1.2	70.0	70.0	1.2	2.56	391	15.6	64
70.0	70.0	1.4	70.0	70.0	1.4	2.98	336	18.2	55
70.0	70.0	1.6	70.0	70.0	1.6	3.38	296	20.6	49
70.0	70.0	1.8	70.0	70.0	1.8	3.79	264	23.1	43
70.0	70.0	1.9	70.0	70.0	1.9	3.99	251	24.3	41
70.0	70.0	2.4	70.0	70.0	2.4	4.98	201	30.4	33
72.0	72.0	1.2	72.0	72.0	1.2	2.64	379	16.1	62
72.0	72.0	1.4	72.0	72.0	1.4	3.06	327	18.7	54
72.0	72.0	1.6	72.0	72.0	1.6	3.49	287	21.3	47
72.0	72.0	1.8	72.0	72.0	1.8	3.90	256	23.8	42
72.0	72.0	1.9	72.0	72.0	1.9	4.11	243	25.1	40
72.0	72.0	2.4	72.0	72.0	2.4	5.13	195	31.3	32
75.0	75.0	1.2	75.0	75.0	1.2	2.75	364	16.8	60
75.0	75.0	1.4	75.0	75.0	1.4	3.20	313	19.5	51
75.0	75.0	1.6	75.0	75.0	1.6	3.64	275	22.2	45
75.0	75.0	1.8	75.0	75.0	1.8	4.07	246	24.8	40
75.0	75.0	1.9	75.0	75.0	1.9	4.29	233	26.2	38
75.0	75.0	2.5	75.0	75.0	2.5	5.56	180	33.9	30
75.0	75.0	2.9	75.0	75.0	2.9	6.40	156	39.0	26
80.0	80.0	1.2	80.0	80.0	1.2	2.94	340	17.9	56
80.0	80.0	1.4	80.0	80.0	1.4	3.42	292	20.8	48

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 SQUARE HOLLOW SECTIONS (SHS)

DIMENSION			DEPTH OF SECTION	WIDTH OF SECTION	THICKNESS OF SECTION	NOMINAL MASS OF STEEL HOLLOW PLAIN END			
mm	mm	mm	(D) mm	(B) mm	mm	kg/mtr	mtrs/t	kgs/20'	pcs/mt
80.0	80.0	1.6	80.0	80.0	1.6	3.89	257	23.7	42
80.0	80.0	1.8	80.0	80.0	1.8	4.35	230	26.5	38
80.0	80.0	1.9	80.0	80.0	1.9	4.59	218	28.0	36
80.0	80.0	2.0	80.0	80.0	2.0	4.82	207	29.4	34
80.0	80.0	2.5	80.0	80.0	2.5	5.96	168	36.3	28
80.0	80.0	2.9	80.0	80.0	2.9	6.85	146	41.8	24
88.9	88.9	1.2	88.9	88.9	1.2	3.28	305	20.0	50
88.9	88.9	1.4	88.9	88.9	1.4	3.81	262	23.2	43
88.9	88.9	1.6	88.9	88.9	1.6	4.33	231	26.4	38
88.9	88.9	1.8	88.9	88.9	1.8	4.86	206	29.6	34
88.9	88.9	1.9	88.9	88.9	1.9	5.12	195	31.2	32
88.9	88.9	2.0	88.9	88.9	2.0	5.38	186	32.8	30
88.9	88.9	2.5	88.9	88.9	2.5	6.66	150	40.6	25
88.9	88.9	2.9	88.9	88.9	2.9	7.66	131	46.7	21
90.0	90.0	1.2	90.0	90.0	1.2	3.32	301	20.2	49
90.0	90.0	1.4	90.0	90.0	1.4	3.86	259	23.5	42
90.0	90.0	1.6	90.0	90.0	1.6	4.39	228	26.8	37
90.0	90.0	1.8	90.0	90.0	1.8	4.92	203	30.0	33
90.0	90.0	1.9	90.0	90.0	1.9	5.18	193	31.6	32
90.0	90.0	2.0	90.0	90.0	2.0	5.45	183	33.2	30
90.0	90.0	2.5	90.0	90.0	2.5	6.74	148	41.1	24
90.0	90.0	2.9	90.0	90.0	2.9	7.76	129	47.3	21
91.5	91.5	1.2	91.5	91.5	1.2	3.37	297	20.5	49
91.5	91.5	1.4	91.5	91.5	1.4	3.92	255	23.9	42
91.5	91.5	1.6	91.5	91.5	1.6	4.46	224	27.2	37
91.5	91.5	1.8	91.5	91.5	1.8	5.00	200	30.5	33
91.5	91.5	1.9	91.5	91.5	1.9	5.27	190	32.1	31
91.5	91.5	2.0	91.5	91.5	2.0	5.54	181	33.8	30
91.5	91.5	2.5	91.5	91.5	2.5	6.86	146	41.8	24
91.5	91.5	2.9	91.5	91.5	2.9	7.90	127	48.2	21
100.0	100.0	1.2	100.0	100.0	1.2	3.69	271	22.5	44
100.0	100.0	1.4	100.0	100.0	1.4	4.29	233	26.2	38
100.0	100.0	1.6	100.0	100.0	1.6	4.89	204	29.8	34
100.0	100.0	1.8	100.0	100.0	1.8	5.48	182	33.4	30
100.0	100.0	1.9	100.0	100.0	1.9	5.78	173	35.2	28
100.0	100.0	2.0	100.0	100.0	2.0	6.07	165	37.0	27
100.0	100.0	2.5	100.0	100.0	2.5	7.53	133	45.9	22
100.0	100.0	2.9	100.0	100.0	2.9	8.67	115	52.9	19
113.5	113.5	1.6	113.5	113.5	1.6	5.57	180	34.0	29
113.5	113.5	1.8	113.5	113.5	1.8	6.25	160	38.1	26
113.5	113.5	1.9	113.5	113.5	1.9	6.58	152	40.1	25
113.5	113.5	2.0	113.5	113.5	2.0	6.92	145	42.2	24

Square Hollow Sections (SHS)

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 SQUARE HOLLOW SECTIONS (SHS)

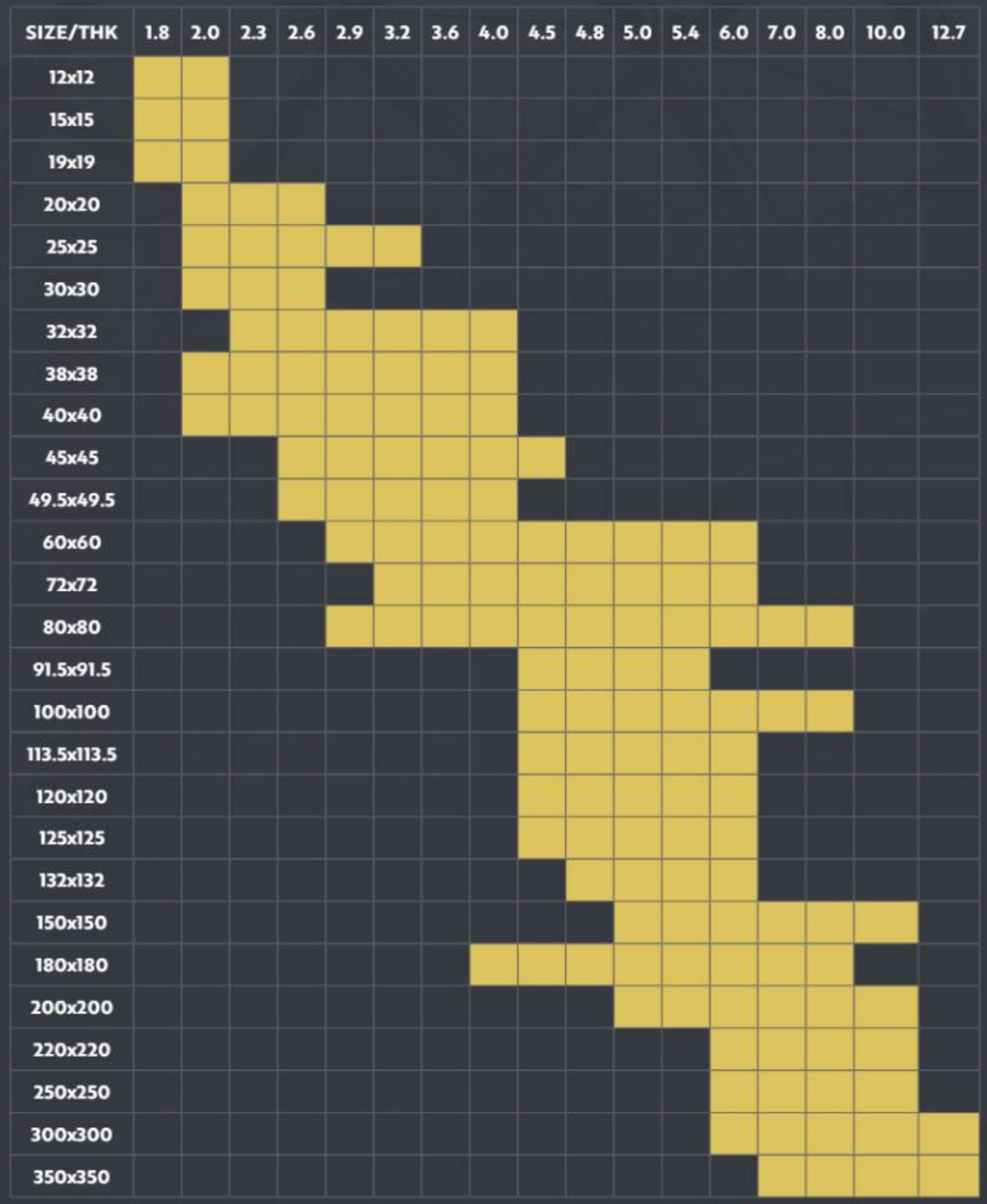
DIMENSION			DEPTH OF SECTION	WIDTH OF SECTION	THICKNESS OF SECTION	NOMINAL MASS OF STEEL HOLLOW PLAIN END			
mm	mm	mm	(D) mm	(B) mm	mm	kg/mtr	mtrs/t	kgs/20'	pcs/mt
113.5	113.5	2.5	113.5	113.5	2.5	8.59	116	52.4	19
113.5	113.5	2.9	113.5	113.5	2.9	9.90	101	60.4	17
120.0	120.0	1.8	120.0	120.0	1.8	6.62	151	40.4	25
120.0	120.0	1.9	120.0	120.0	1.9	6.97	143	42.5	24
120.0	120.0	2.0	120.0	120.0	2.0	7.33	136	44.7	22
120.0	120.0	2.5	120.0	120.0	2.5	9.10	110	55.5	18
120.0	120.0	2.9	120.0	120.0	2.9	10.49	95	63.9	16
125.0	125.0	2.0	125.0	125.0	2.0	7.64	131	46.6	21
125.0	125.0	2.5	125.0	125.0	2.5	9.49	105	57.9	17
125.0	125.0	2.9	125.0	125.0	2.9	10.95	91	66.8	15
132.0	132.0	3.2	132.0	132.0	3.2	12.73	79	77.6	13
132.0	132.0	3.6	132.0	132.0	3.6	14.25	70	86.9	12
132.0	132.0	3.9	132.0	132.0	3.9	15.38	65	93.8	11
140.0	140.0	3.2	140.0	140.0	3.2	13.54	74	82.5	12
140.0	140.0	3.6	140.0	140.0	3.6	15.16	66	92.4	11
140.0	140.0	3.9	140.0	140.0	3.9	16.36	61	99.7	10
150.0	150.0	3.2	150.0	150.0	3.2	14.54	69	88.6	11
150.0	150.0	3.6	150.0	150.0	3.6	16.29	61	99.3	10
150.0	150.0	3.9	150.0	150.0	3.9	17.58	57	107.2	9
160.0	160.0	3.2	160.0	160.0	3.2	15.55	64	94.8	11
160.0	160.0	3.6	160.0	160.0	3.6	17.42	57	106.2	9
160.0	160.0	3.9	160.0	160.0	3.9	18.81	53	114.7	9
180.0	180.0	3.6	180.0	180.0	3.6	19.68	51	120.0	8
180.0	180.0	3.9	180.0	180.0	3.9	21.26	47	129.6	8

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°	Radii of Outside Corners : 3t max, where t is the thickness of section
	Weight on Individual Length : + 10 % & - 8%		

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.



Rectangular Hollow Sections (RHS)

Introduction

METPRO rectangular hollow steel sections that range from **26x13 mm to 400x300 mm** with thickness upto 12.7 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

IS 4923, IS 18573

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 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	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 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	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 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	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 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	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 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
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 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
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
450.0	250.0	8.0	400.0	300.0	8.0	84.62	12	515.8	2
450.0	250.0	10.0	400.0	300.0	10.0	104.74	10	638.5	2
450.0	250.0	12.0	400.0	300.0	12.0	124.45	8	758.6	1
450.0	250.0	12.5	400.0	300.0	12.5	129.31	8	788.3	1
450.0	250.0	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.

Rectangular Hollow Sections (RHS)

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.

Rectangular Hollow Sections (RHS)

SIZE/THK	2.5	2.6	2.9	3.2	3.6	4.0	4.5	4.8	5.0	5.4	6.0	8.0	10.0	12.7
40x20			■	■										
50x25			■	■										
60x40			■											
66x33		■	■	■	■	■	■							
75x25		■												
75x50			■	■	■	■								
80x40			■	■	■	■								
96x48				■	■	■	■	■						
100x50				■	■	■								
110x55	■	■	■	■	■									
122x61				■	■	■	■	■	■	■				
130x50			■	■										
140x60		■	■	■	■	■	■	■	■					
145x82								■	■	■				
150x75			■	■	■	■	■	■	■	■	■			
150x100								■	■	■	■	■	■	
172x92								■	■	■				
200x100						■	■	■	■	■	■	■	■	
200x120						■	■	■	■	■	■	■	■	
200x150						■	■	■	■	■	■	■		
240x120						■	■	■	■	■	■	■		
250x100						■	■	■	■	■	■	■		
250x150						■	■	■	■	■	■	■	■	
300x100									■	■	■			
300x150											■	■	■	■
300x200											■	■	■	■
350x250											■	■	■	■
400x200												■	■	■
400x300												■	■	■
450x250												■	■	■

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
IS 1239, IS 1161, IS 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

Galvanising Structures

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'	pcs/mt	mm	swg
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
15 (1/2")	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
15 (1/2")	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
20 (3/4")	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
20 (3/4")	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
25 (1")	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
25 (1")	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
32 (1.1/4")	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
32 (1.1/4")	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
40 (1.1/2")	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
40 (1.1/2")	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
50 (2")	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
50 (2")	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
65 (2.1/2")	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
65 (2.1/2")	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
80 (3")	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
80 (3")	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
100 (4")	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
100 (4")	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
125 (5")	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
150 (6")	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		

METPRO ENVIRON

SOLAR MODULE MOUNTING STRUCTURES

Today, being environmentally conscious and reducing our carbon footprints is the only way to go forward. With our ENVIRON range of products, METPRO is trying to do its part in maintaining a cleaner and greener Earth.

MKK builds module mounting structures that are the backbone of a solar power plant. These support structures raise solar panels at appropriate angles to ensure that they receive maximum solar irradiation.

OUR CAPACITY

1,00,000 MT of structure = **4 GW** of energy

We're changing the world by making solar energy affordable

2 GW+ Solar systems

5.8 million+ Structures for solar modules

40 million+ CO_2 tons offset over 10 years

5.5 billion+ Oil gallons offset over 10 years

3 million+ Homes can be powered

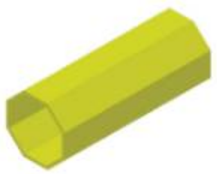
From receiving complex designs, to challenging specifications

MKK has been able to deliver what the world needs.

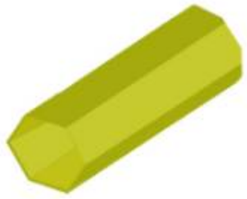
TORQUE TUBES

SQUARE

OCTAGONAL



HEXAGONAL

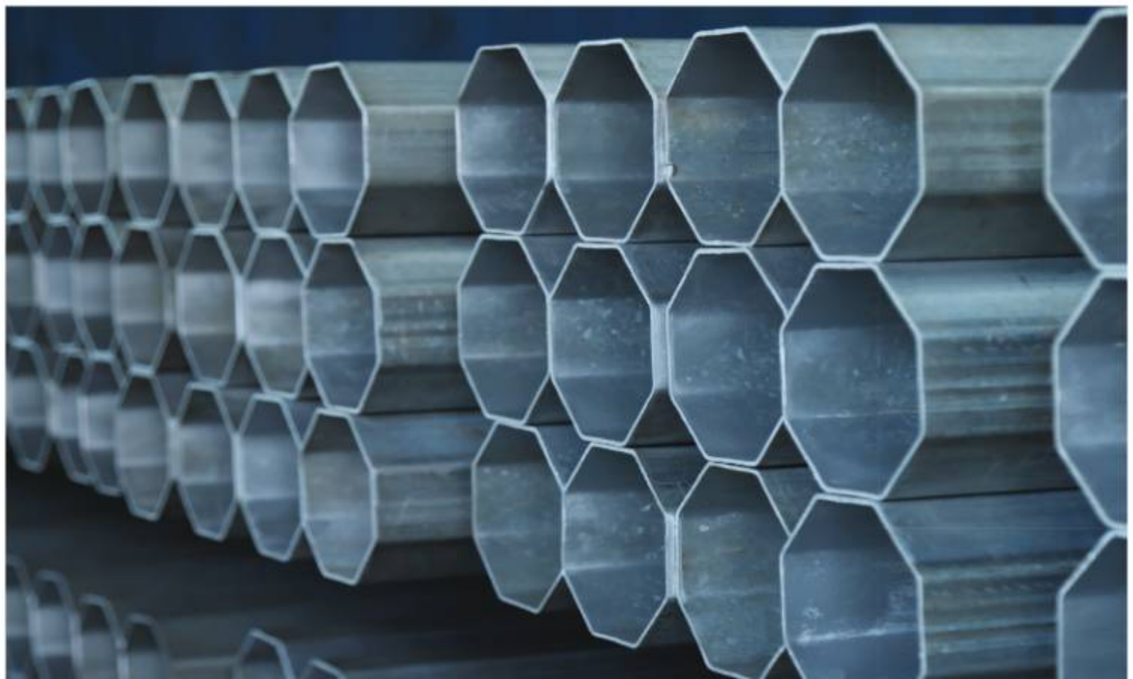


Z SECTIONS

C & U SECTIONS

HAT

TOP HAT



Clean Energy & Climate Action has never been more urgent.

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

- On Time
- Cost Effective
- Good Quality
- Reliable
- Sustainable
- Durable

UNMATCHED QUALITY
DULY CERTIFIED

DNV

CERTIFICATE OF CONFORMITY OF THE FACTORY PRODUCTION CONTROL

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 use 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

and produced in the manufacturing plant(s)

MKK METAL SECTIONS PRIVATE LIMITED

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

EN 10219-1:2006

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.

PRODUCTS RvA C 312

DNV

Appendix to Certificate

Certificate history:

Revision	Description	Issue Date
0	Original Certificate	

Additional information to the scope of certificate

Declaration of performance and marking of product

When meeting with the terms and conditions, as required, the manufacture 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 (2388).

DNV

CERTIFICATE OF CONFORMITY OF THE FACTORY PRODUCTION CONTROL

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 use 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

and produced in the manufacturing plant(s)

MKK METAL SECTIONS PRIVATE LIMITED

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

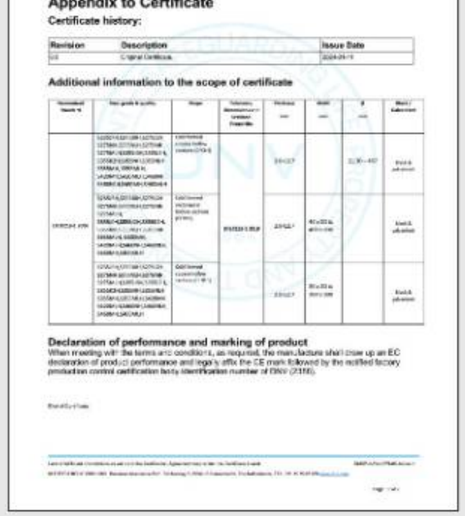
under system 2+ are applied and that:

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.

PRODUCTS RvA C 312



DNV

Appendix to Certificate

Certificate history:

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Additional information to the scope of certificate

Declaration of performance and marking of product

When meeting with the terms and conditions, as required, the manufacture 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 (2388).

DNV

CERTIFICATE OF FACTORY PRODUCTION CONTROL

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

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 under ZA Clause 3.3 of the standard as attached sheet, as annexed and found to comply.

Applications/Limitations:

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

Place and date:
Ahmedabad: 10 January 2024

For the issuing office:
DNV Business Assurance India Pvt Ltd.

Mangkumar Panchal
Head of Section, Manager - Product Assurance

DNV

Certificate no.: CERT/0 Rev. 0
Project no.: PRJ/0-037560

Certificate history:

Revision	Description	Issue Date
00	Initial Audit	2024-01-10

Products covered by this Certificate:

Product description	Product Type	Category	Applied standard
Non-Alloy Steel Tubes for welding & Threading (Black & Galvanized) Type: L1 & L2 Material grade: Steel Name: S235T and Steel Number: 1.0039 Size (OD): 21.3 mm to 114.3 mm; for type L1 & L2 Wall Thickness: Specified as per Type L1 & L2 in the standard	Non-alloy steel tubes suitable for welding, threading	Voluntary Scheme	EN 10255:2004 + A1:2007

Sites covered by this Certificate:

Manufacturer	:	**MKK METAL SECTIONS PRIVATE LIMITED** Plot No.90 & 91(P) - 93(P), SIPCOT Phase III, Mallankaraiyaiurm Post, Ranipet Dist-632403, Tamil nadu, India

Terms and conditions

The certificate valid is subject to the following terms and conditions:

- Any producer (Manufacturer (see 3.03/06/EC for a precise definition) is liable for damage caused by a defect in his production, in accordance with directive 85/374/EEC, as amended, concerning liability of defective products.
- This 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 adequate and efficient.
- The assessment scope of this certificate excludes Initial Type Testing and other condition as in the Application / Limitation. The Initial Type Testing (ITT) by certified laboratory as described in the standard or as per shall 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.
- Production audits not held within the allowed time window.

END OF CERTIFICATE

Chennai Metro Rail Limited
(A Joint Venture of Govt. of India and Govt. of Tamil Nadu)

T. Livingstone Eliazer
Chief General Manager (PP & D)
Lr. No. CMRL/CON/DES/0009/2025

Tel: 044 24378326
livingstone.eliazer@cmrl.in
Date:10.02.2025

To Whomsoever it may concern

Sub: No objection to use products of "M/s MKK Metal Sections Private Limited" in CMRL Projects – Reg.

CMRL has "No objection" in usage of the following products of **M/s MKK Metal Sections Private Limited** by the contractors of Chennai Metro Project, provided the quality of the products meet the specifications as stipulated in the Contract.

1. Structural steel
2. Color Coated Roofing Sheets

The approval is subject to the following conditions.

1. This approval is here by accorded on the condition of maintaining of quality as per stipulated Standards.
2. Mandatory quality checks will be carried out as and when required so as to satisfy the qualitative requirements.
3. Satisfactory performance tests to be conducted as site/approved laboratory initially & from time to as per standard practice / codes and also as directed by the Engineer in charge.
4. In case of negative feedback or deterioration in quality, this approval will stand cancelled automatically.
5. CMRL reserves the right to suspend the usage on the basis of review any time.

However, it will not be binding on CMRL or their Contractors in any way for the usage of the above products in the project.

For Chennai Metro Rail Ltd.

COM – Project Planning and Design

Copy to: DP/CMRL for kind information please.

T. LIVINGSTONE ELIAZER
Chief General Manager (PP&D)
CHENNAI METRO RAIL LIMITED

ANNEXE, Anna Salai, Nandanam, Chennai - 600 035.
Phone: 044 2437 8000 / Email: chennaimetrorail@gov.in / Website: www.chennaimetrorail.org
CIN - U60100TN2007SGC063516

INTEGRAL COACH FACTORY

IR EPS

Sub : Registration of your firm as approved supplier of stores
Ref : Your Letter No.APP/S2/STORES/0 dated 15.05.25

1.0 I am directed to inform you that, your application for enlistment of your concern in the approved list of supplier to this Railway has been carefully considered and it has been decided to enlist your firm on the list of approved suppliers with the details mentioned below:

Registration No.	
Monetary limit/Category (per individual order)	
Validity :	

The following trade groups are advised:

Grp	Description of Trade Group

2.0 It should be noted that this registration is valid for the Trade Groups and monetary value as indicated above, and any quotation received for other than the above mentioned trade groups are necessary trick, will be treated at par with the offers received from un-registered firms and will be dealt accordingly.

3.0 This registration is subject to condition review from time to time in consistent with your performance for supply of stores to this Railway. Please note that you may apply for renewal of registration, add or advance items the expiry of the present registration and ensure to attach the details of the orders executed by you during the last 3 years.

4.0 Please note that as an approved registered supplier of this Railway, you shall abide by the **RS Conditions of Contract** supplemented by the instructions to tenderers, which are in the IREPS website under the link (public documents/manuals/guides).

5.0 You are also advised that any subsequent changes in the constitution of working of the firm should be promptly communicated to this office.

Yours faithfully
For PRINCIPAL CHIEF MATERIALS MANAGER

Copy to:

Assistant Materials Manager / Gen.
Integral Coach Factory, Chennai-38.

MADE IN INDIA
INDIA
MADE IN INDIA


Certificate of Compliance

Certificate Number:
UL-US-2561456-0

Report Reference:
EX29496-20250326

Issue Date:
2025-03-27

Issued to:
MKK METAL SECTIONS PRIVATE LIMITED
Plot No. M1 & 599-S108, Sipcot Phase III, Mukundarayapuram Post, Ranipet, Tamil Nadu, 632405, IN

VIZY - Metallic Sprinkler Pipe

UL 852, Edition 2, Issue Date 2008-10-01, Revision Date 2023-03-07

Look for the UL Certification Mark on the product.

UL Solutions


CERTIFICATE OF COMPLIANCE

Certificate number UL-US-2561456-0
Report reference EX29496-20250326
Date 2025-03-27

Schedule Pipe

UL Solutions


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, Ethiraj Salai, Egmore, Chennai – 600 008,
Plant: Plot No. M1 & 599 -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

Suma Shankar
Director


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, Ethiraj Salai, Egmore, Chennai – 600 008,
Plant: Plot No. M1 & 599 -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

Suma Shankar
Director


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, Ethiraj Salai, Egmore, Chennai – 600 008,
Plant: Plot No. M1 & 599 -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

Suma Shankar
Director

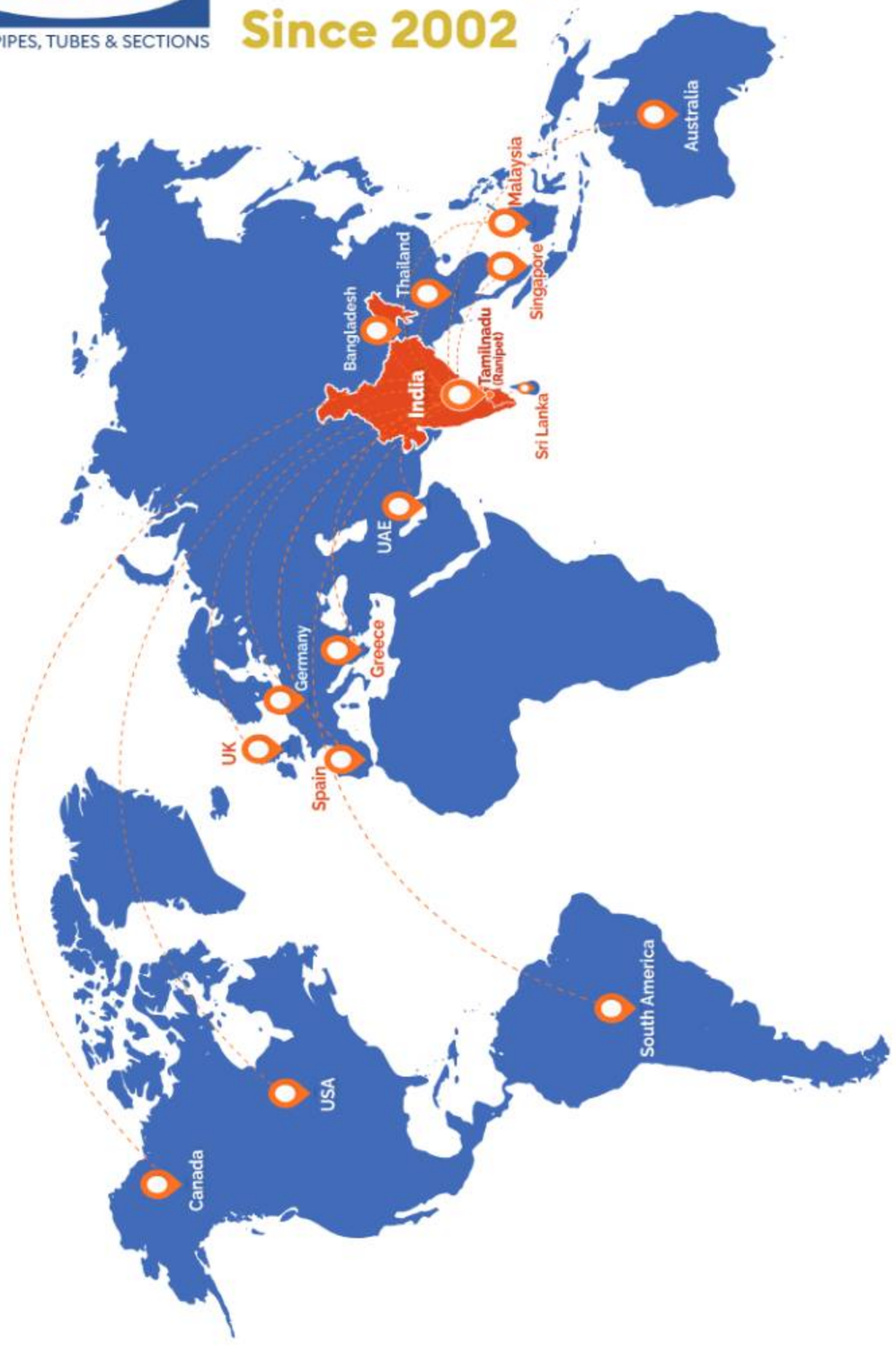
MKK Metal Sections Pvt. Ltd.

METPRO®

STEEL PIPES, TUBES & SECTIONS

Delivering Excellence

Since 2002



Our Clients

adani

ASHOK LEYLAND

BHEL

Brakes India Limited

BULL

CATERPILLAR

DAIMLER

FTC SOLAR

GAMECHANGE SOLAR
REPOWERING THE PLANET

GE - BGR

HINDUJA RENEWABLES

INTEGRAL COACH FACTORY
INDIAN RAILWAYS

JAKSON

JCB

JCBL
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JOHN DEERE

WIRTGEN GROUP

JSW

KEC
KEC INTERNATIONAL LIMITED

LARSEN & TOUBRO

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OCL INDIA LIMITED
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SIEMENS Gamesa
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TATA POWER

TI
INDIA

UNIMACTS

WHEELS INDIA LIMITED

Contact Us

www.**mkkmetal.in**

mkkmetsec@mkkmetal.in

Head Office

MKK Metal Sections Pvt Ltd.
3rd Floor, FAGUN MANSION,
74, Ethiraj Salai, Egmore,
Chennai 600008, Tamilnadu, India
+91 9840942571, 72
+91 44 4266 5510

Manufacturing Unit 1

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

Manufacturing Unit 2

Plot No. S 99 to S 108,
SIPCOT, Phase III,
Mukundrayapuram Post,
Ranipet - 632405, Tamilnadu, India
+91 4172 - 298040
+91 8754464929

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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MKK Metal Sections Pvt. Ltd.

MKK METPRO®

STEEL PIPES, TUBES & SECTIONS