



STEEL PIPES, TUBES & SECTIONS

MKK Metal Sections Pvt. Ltd.



**DRIVEN BY
ENGINEERING
EXCELLENCE**

METPRO
PRIME

METPRO
GALV

METPRO
F+RM

METPRO
ROOF

METPRO
ENVIRON

METPRO
RACK

METPRO
GUARD

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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-privileged, built schools to promote girls education in remote villages and also contributed in making sheds for gaushalas.

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

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



Mission

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

Vision

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

A versatile business group with strong foundation



Milestones

2008

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

Capacity:
1,00,000 MTPA

2010

Acquired new identity with registered brand name:
METPRO

2010

Received
ISO 9001:2000
certification.

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 octagonal 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 MTPA**

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)





25+
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

Focussed On **Engineering Excellence**



METPRO PRIME

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



Our Capacity
5,00,000 MT
in 9 lines

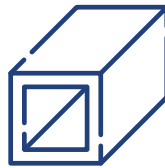
Our Product Range

Wall Thickness (mm): 0.7 - 12.7 | Length (m): 4 - 18



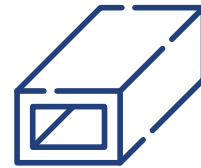
12.7 OD
610 OD

**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. EN10219-1:2006 - Cold formed structural Hollow Sections of non-alloy & fine grain steels (CFCHS - Circular, CFRHS - Square & Rectangular) (Black & Galvanized)
2. EN 10255:2004+A1:2007 - 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



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	API5L	JIS G 3452	DIN-17177	-
9	Mechanical Application	IS-3601	BS-6323	-	JIS G 3445	DIN-2393	-
10	Hydro Carbon & Process Industries	IS-6286	-	-	-	-	-
11	Boiler & APH Tubes	-	BS:3059, 6323	-	-	-	-

Introducing DFT

Direct Forming Technology (DFT) Tube Mill Revolutionizing Tube Production

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



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

Key features of our DFT Tube Mill

1 Single-Pass Efficiency:
With DFT tube forming is accomplished in a single pass, minimizing handling and reducing production time significantly.

2 Precise Control:
Advanced automation and control systems ensure precise dimensional accuracy and consistency across every tube produced, meeting even the most stringent quality standards.

3 Versatility:
Our DFT Tube Mill accommodates a wide range of materials, thicknesses, and diameters, offering unparalleled versatility to meet diverse customer needs.

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

5

Seamless Integration:

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

6

High-Speed Performance:

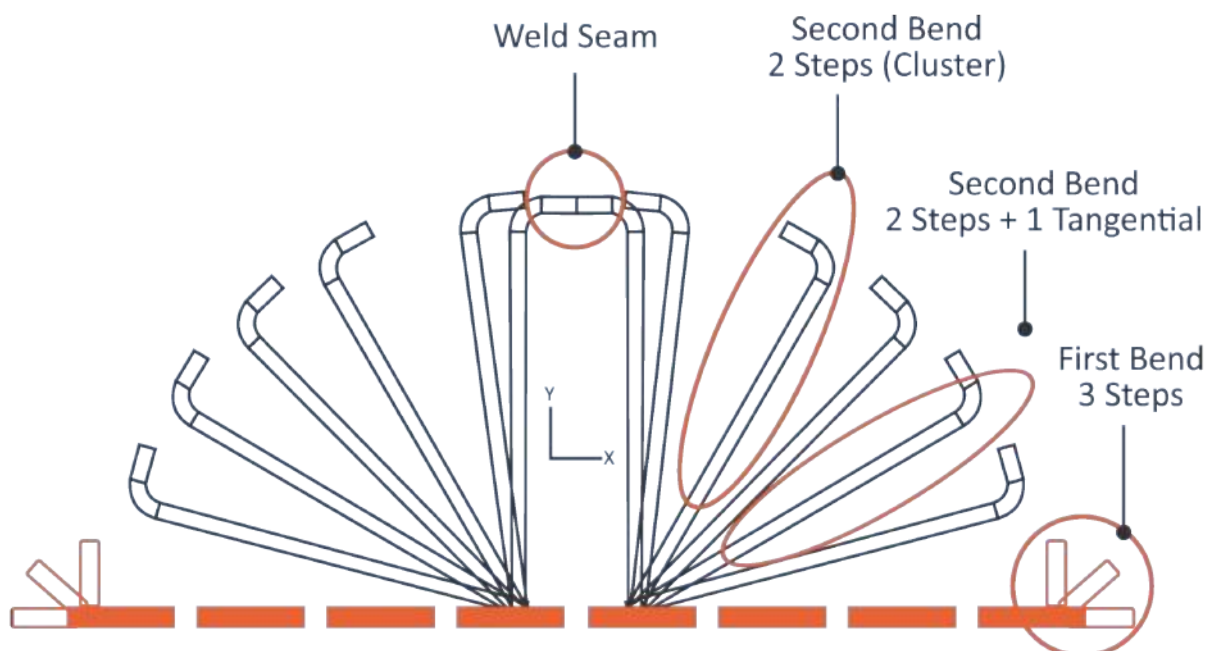
Equipped with cutting-edge technology and high-speed components, our DFT Tube Mill delivers superior throughput and productivity, maximizing output without compromising quality.

7

Quality Assurance:

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

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



Design of Section Pipe

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 : $\pm 10\%$	Length (unless otherwise specified) : 4 to 7 Meters
	Weight on Individual Length : $\pm 10\%$	
	Weight on On lot of 10 tones : $\pm 7.5\%$	

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

**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.



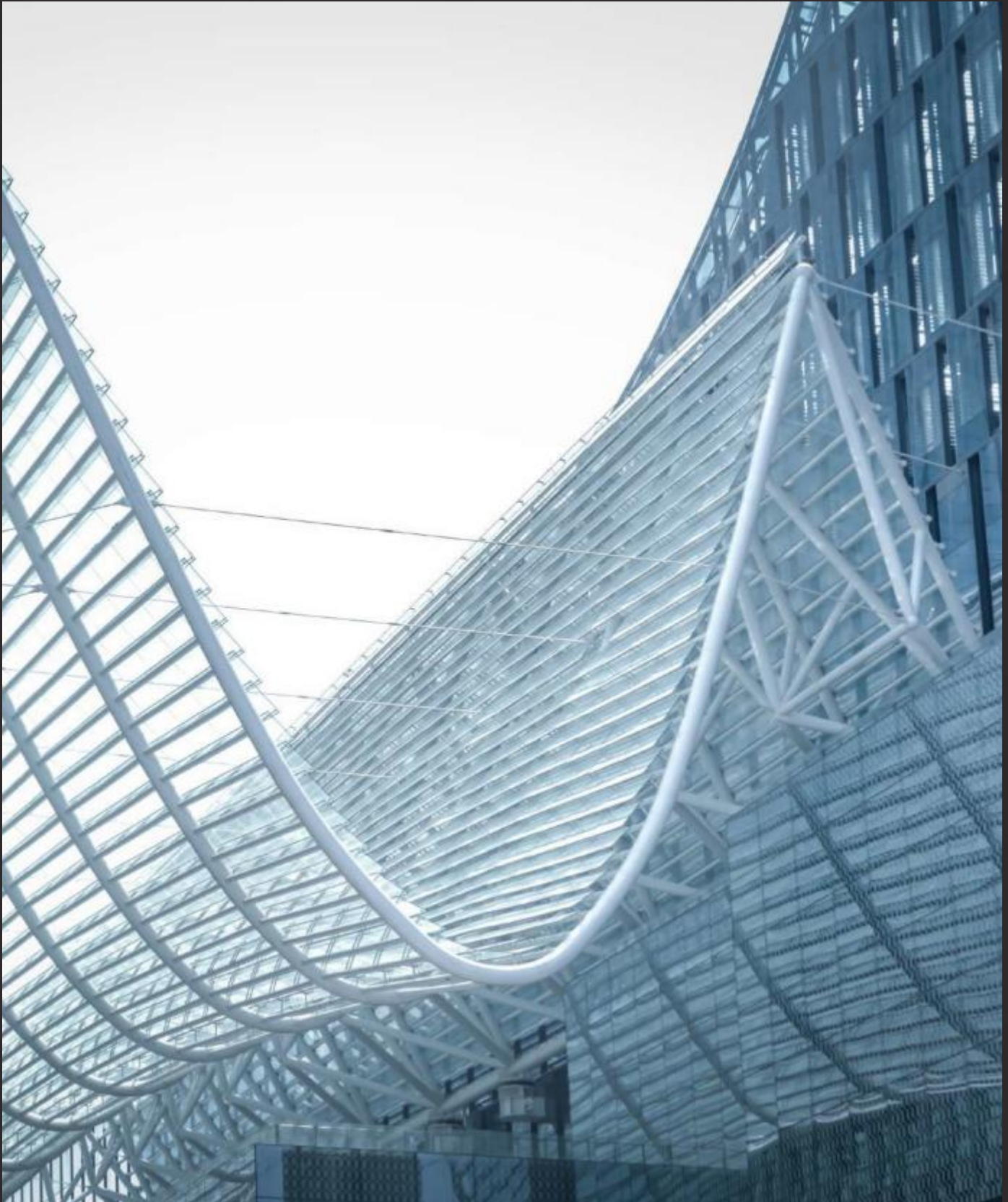
**TECHNICAL DATA FOR STEEL PIPES FOR WATER AND SEWAGE,
CONFORMING TO IS:3589 - 2001**

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	19.10	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	33.10	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	18	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.



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

NOMINAL BORE & SERIES	OUTER DIAMETER			WALL THICKNESS		NOMINAL MASS OF STEEL TUBES PLAIN END			
mm	Max	Mean	Min	mm	swg	kg/mtr	mts/t	kgs/20'	pcs/mt
100	113.2	114.3	115.4	5.00	6	13.48	74	82.17	12
125	139.9	141.3	142.7	5.00	6	16.80	60	102.41	10
150	166.6	168.3	170.0	5.00	6	20.13	50	122.71	8
175	191.8	193.7	195.6	5.40	5	25.10	40	153.01	7
200	216.9	219.1	221.3	5.40	5	28.46	35	173.49	6
225	242.1	244.5	246.9	6.00	4	35.29	28	215.13	5
250	270.4	273.1	275.8	7.10	2	46.57	21	283.89	4
300	320.7	323.9	327.1	7.10	2	55.47	18	338.15	3
350	352.0	355.6	359.2	8.00	0	68.57	15	418.00	2
350	352.0	355.6	359.2	10.00	0	85.22	12	519.50	2
350	352.0	355.6	359.2	12.00	0	101.67	10	619.78	2
400	402.3	406.4	410.5	8.00	0	78.60	13	479.15	2
400	402.3	406.4	410.5	10.00	0	97.75	10	595.88	2
400	402.3	406.4	410.5	12.00	0	116.71	9	711.46	2
450	452.4	457.0	461.6	10.00	0	110.28	9	672.27	1
450	452.4	457.0	461.6	12.00	0	131.74	8	803.09	1

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

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

Hydrostatic test pressure is 7MPa

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

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

**TECHNICAL DATA FOR STEEL TUBES FOR IDLERS FOR BELT CONVEYORS,
CONFORMING TO IS:9295 -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) : $\pm 10\%$

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

[illegible]

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

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

DIMENSION			DEPTH OF SECTION	WIDTH OF SECTION	THICKNESS OF SECTION	NOMINAL MASS OF STEEL TUBES PLAIN END			
mm	mm	mm	(D) mm	(B) mm	mm	kg/mtr	mts/t	kgs/20'	pcs/mt
15.0	15.0	1.8	15.0	15.0	1.8	0.68	1471	4.1	241
15.0	15.0	2.0	15.0	15.0	2.0	0.73	1370	4.5	225
19.0	19.0	1.8	19.0	19.0	1.8	0.90	1111	5.5	182
19.0	19.0	2.0	19.0	19.0	2.0	0.98	1020	6.0	167
20.0	20.0	2.0	20.0	20.0	2.0	1.05	952	6.4	156
25.0	25.0	2.0	25.0	25.0	2.0	1.36	735	8.3	121
25.0	25.0	2.5	25.0	25.0	2.5	1.64	610	10.0	100
25.0	25.0	2.6	25.0	25.0	2.6	1.69	592	10.3	97
25.0	25.0	3.0	25.0	25.0	3.0	1.89	529	11.5	87
25.0	25.0	3.2	25.0	25.0	3.2	1.98	505	12.1	83
30.0	30.0	2.0	30.0	30.0	2.0	1.68	595	10.2	98
30.0	30.0	2.5	30.0	30.0	2.5	2.03	493	12.4	81
30.0	30.0	2.6	30.0	30.0	2.6	2.10	476	12.8	78
30.0	30.0	3.0	30.0	30.0	3.0	2.36	424	14.4	70
30.0	30.0	3.2	30.0	30.0	3.2	2.49	402	15.2	66
32.0	32.0	2.0	32.0	32.0	2.0	1.80	556	11.0	91
32.0	32.0	2.5	32.0	32.0	2.5	2.19	457	13.4	75
32.0	32.0	2.6	32.0	32.0	2.6	2.26	442	13.8	73
32.0	32.0	3.0	32.0	32.0	3.0	2.55	392	15.5	64
32.0	32.0	3.2	32.0	32.0	3.2	2.69	372	16.4	61
32.0	32.0	4.0	32.0	32.0	4.0	3.19	313	19.4	51
35.0	35.0	2.0	35.0	35.0	2.0	1.99	503	12.1	82
35.0	35.0	2.6	35.0	35.0	2.6	2.51	398	15.3	65
35.0	35.0	3.2	35.0	35.0	3.2	2.99	334	18.2	55
35.0	35.0	4.0	35.0	35.0	4.0	3.57	280	21.8	46
38.0	38.0	2.0	38.0	38.0	2.0	2.18	459	13.3	75
38.0	38.0	2.6	38.0	38.0	2.6	2.75	364	16.8	60
38.0	38.0	3.2	38.0	38.0	3.2	3.29	304	20.1	50
38.0	38.0	4.0	38.0	38.0	4.0	3.95	253	24.1	42
40.0	40.0	2.0	40.0	40.0	2.0	2.31	433	14.1	71
40.0	40.0	2.6	40.0	40.0	2.6	2.92	342	17.8	56
40.0	40.0	3.0	40.0	40.0	3.0	3.30	303	20.1	50
40.0	40.0	3.2	40.0	40.0	3.2	3.49	287	21.3	47
40.0	40.0	4.0	40.0	40.0	4.0	4.20	238	25.6	39
45.0	45.0	2.0	45.0	45.0	2.0	2.62	382	16.0	63
45.0	45.0	2.6	45.0	45.0	2.6	3.33	300	20.3	49
45.0	45.0	2.9	45.0	45.0	2.9	3.66	273	22.3	45
45.0	45.0	3.0	45.0	45.0	3.0	3.77	265	23.0	44
45.0	45.0	3.2	45.0	45.0	3.2	3.99	251	24.3	41
45.0	45.0	4.0	45.0	45.0	4.0	4.83	207	29.4	34
49.5	49.5	2.0	49.5	49.5	2.0	2.90	345	17.7	57
49.5	49.5	2.6	49.5	49.5	2.6	3.69	271	22.5	44

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

DIMENSION			DEPTH OF SECTION	WIDTH OF SECTION	THICKNESS OF SECTION	NOMINAL MASS OF STEEL TUBES PLAIN END			
mm	mm	mm	(D) mm	(B) mm	mm	kg/mtr	mts/t	kgs/20'	pcs/mt
49.5	49.5	3.0	49.5	49.5	3.0	4.20	238	25.6	39
49.5	49.5	3.2	49.5	49.5	3.2	4.45	225	27.1	37
49.5	49.5	4.0	49.5	49.5	4.0	5.39	186	32.9	30
49.5	49.5	5.0	49.5	49.5	5.0	6.48	154	39.5	25
50.0	50.0	2.0	50.0	50.0	2.0	2.93	341	17.9	56
50.0	50.0	2.5	50.0	50.0	2.5	3.60	278	21.9	46
50.0	50.0	3.2	50.0	50.0	3.2	4.50	222	27.4	36
50.0	50.0	4.0	50.0	50.0	4.0	5.45	183	33.2	30
50.0	50.0	5.0	50.0	50.0	5.0	6.56	152	40.0	25
60.0	60.0	2.0	60.0	60.0	2.0	3.56	281	21.7	46
60.0	60.0	2.5	60.0	60.0	2.5	4.39	228	26.8	37
60.0	60.0	3.0	60.0	60.0	3.0	5.19	193	31.6	32
60.0	60.0	4.0	60.0	60.0	4.0	6.71	149	40.9	24
60.0	60.0	5.0	60.0	60.0	5.0	8.13	123	49.6	20
60.0	60.0	6.0	60.0	60.0	6.0	9.45	106	57.6	17
60.0	60.0	6.3	60.0	60.0	6.3	9.82	102	59.9	17
63.5	63.5	2.5	63.5	63.5	2.5	4.66	215	28.4	35
63.5	63.5	3.2	63.5	63.5	3.2	5.85	171	35.7	28
63.5	63.5	3.6	63.5	63.5	3.6	6.51	154	39.7	25
63.5	63.5	4.5	63.5	63.5	4.5	7.93	126	48.3	21
70.0	70.0	2.5	70.0	70.0	2.5	5.17	193	31.5	32
70.0	70.0	3.0	70.0	70.0	3.0	6.13	163	37.4	27
70.0	70.0	4.0	70.0	70.0	4.0	7.97	125	48.6	21
70.0	70.0	5.0	70.0	70.0	5.0	9.70	103	59.1	17
70.0	70.0	6.0	70.0	70.0	6.0	11.33	88	69.1	14
70.0	70.0	6.3	70.0	70.0	6.3	11.80	85	71.9	14
72.0	72.0	2.5	72.0	72.0	2.5	5.33	188	32.5	31
72.0	72.0	3.0	72.0	72.0	3.0	6.32	158	38.5	26
72.0	72.0	3.2	72.0	72.0	3.2	6.71	149	40.9	24
72.0	72.0	4.0	72.0	72.0	4.0	8.22	122	50.1	20
72.0	72.0	4.8	72.0	72.0	4.8	9.66	104	58.9	17
72.0	72.0	5.0	72.0	72.0	5.0	10.01	100	61.0	16
75.0	75.0	3.0	75.0	75.0	3.0	6.60	152	40.2	25
75.0	75.0	3.2	75.0	75.0	3.2	7.01	143	42.7	23
75.0	75.0	3.6	75.0	75.0	3.6	7.81	128	47.6	21
75.0	75.0	4.5	75.0	75.0	4.5	9.55	105	58.2	17
80.0	80.0	3.0	80.0	80.0	3.0	7.07	141	43.1	23
80.0	80.0	4.0	80.0	80.0	4.0	9.22	108	56.2	18
80.0	80.0	5.0	80.0	80.0	5.0	11.27	89	68.7	15
80.0	80.0	6.0	80.0	80.0	6.0	13.21	76	80.5	12
80.0	80.0	6.3	80.0	80.0	6.3	13.78	73	84.0	12
80.0	80.0	8.0	80.0	80.0	8.0	16.79	60	102.4	10

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

DIMENSION			DEPTH OF SECTION	WIDTH OF SECTION	THICKNESS OF SECTION	NOMINAL MASS OF STEEL TUBES PLAIN END			
mm	mm	mm	(D) mm	(B) mm	mm	kg/mtr	mts/t	kgs/20'	pcs/mt
88.9	88.9	3.0	88.9	88.9	3.0	7.91	126	48.2	21
88.9	88.9	3.2	88.9	88.9	3.2	8.40	119	51.2	20
88.9	88.9	3.6	88.9	88.9	3.6	9.38	107	57.2	17
88.9	88.9	4.5	88.9	88.9	4.5	11.52	87	70.2	14
90.0	90.0	3.0	90.0	90.0	3.0	8.01	125	48.8	20
90.0	90.0	4.0	90.0	90.0	4.0	10.48	95	63.9	16
90.0	90.0	5.0	90.0	90.0	5.0	12.84	78	78.3	13
90.0	90.0	6.0	90.0	90.0	6.0	15.10	66	92.0	11
90.0	90.0	6.3	90.0	90.0	6.3	15.76	63	96.1	10
90.0	90.0	8.0	90.0	90.0	8.0	19.31	52	117.7	8
91.5	91.5	3.0	91.5	91.5	3.0	8.16	123	49.7	20
91.5	91.5	3.6	91.5	91.5	3.6	9.67	103	58.9	17
91.5	91.5	4.0	91.5	91.5	4.0	10.67	94	65.0	15
91.5	91.5	4.5	91.5	91.5	4.5	11.88	84	72.4	14
91.5	91.5	4.8	91.5	91.5	4.8	12.60	79	76.8	13
100.0	100.0	3.0	100.0	100.0	3.0	8.96	112	54.6	18
100.0	100.0	4.0	100.0	100.0	4.0	11.73	85	71.5	14
100.0	100.0	5.0	100.0	100.0	5.0	14.41	69	87.8	11
100.0	100.0	6.0	100.0	100.0	6.0	16.98	59	103.5	10
100.0	100.0	6.3	100.0	100.0	6.3	17.73	56	108.1	9
100.0	100.0	8.0	100.0	100.0	8.0	21.82	46	133.0	8
100.0	100.0	10.0	100.0	100.0	10.0	26.24	38	160.0	6
100.0	100.0	12.0	100.0	100.0	12.0	30.25	33	184.4	5
100.0	100.0	12.5	100.0	100.0	12.5	31.19	32	190.1	5
110.0	110.0	4.0	110.0	110.0	4.0	13.38	75	81.6	12
110.0	110.0	5.0	110.0	110.0	5.0	16.61	60	101.3	10
110.0	110.0	6.0	110.0	110.0	6.0	19.78	51	120.6	8
113.5	113.5	3.0	113.5	113.5	3.0	10.23	98	62.4	16
113.5	113.5	4.0	113.5	113.5	4.0	13.43	74	81.9	12
113.5	113.5	4.5	113.5	113.5	4.5	14.99	67	91.4	11
113.5	113.5	4.8	113.5	113.5	4.8	15.92	63	97.0	10
113.5	113.5	5.0	113.5	113.5	5.0	16.53	60	100.8	10
113.5	113.5	5.4	113.5	113.5	5.4	17.74	56	108.1	9
120.0	120.0	3.0	120.0	120.0	3.0	10.84	92	66.1	15
120.0	120.0	4.0	120.0	120.0	4.0	14.25	70	86.9	12
120.0	120.0	5.0	120.0	120.0	5.0	17.55	57	107.0	9
120.0	120.0	6.0	120.0	120.0	6.0	20.75	48	126.5	8
120.0	120.0	6.3	120.0	120.0	6.3	21.69	46	132.2	8
120.0	120.0	8.0	120.0	120.0	8.0	26.84	37	163.6	6
120.0	120.0	10.0	120.0	120.0	10.0	32.52	31	198.2	5
120.0	120.0	12.0	120.0	120.0	12.0	37.79	26	230.4	4
120.0	120.0	12.5	120.0	120.0	12.5	39.04	26	238.0	4

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

DIMENSION			DEPTH OF SECTION	WIDTH OF SECTION	THICKNESS OF SECTION	NOMINAL MASS OF STEEL TUBES PLAIN END			
mm	mm	mm	(D) mm	(B) mm	mm	kg/mtr	mts/t	kgs/20'	pcs/mt
125.0	125.0	3.0	125.0	125.0	3.0	11.31	88	68.9	15
125.0	125.0	4.5	125.0	125.0	4.5	16.62	60	101.3	10
125.0	125.0	5.0	125.0	125.0	5.0	18.34	55	111.8	9
125.0	125.0	6.0	125.0	125.0	6.0	21.69	46	132.2	8
132.0	132.0	4.0	132.0	132.0	4.0	15.75	63	96.0	10
132.0	132.0	4.5	132.0	132.0	4.5	17.61	57	107.4	9
132.0	132.0	4.8	132.0	132.0	4.8	18.71	53	114.1	9
132.0	132.0	5.0	132.0	132.0	5.0	19.43	51	118.4	8
132.0	132.0	5.4	132.0	132.0	5.4	20.88	48	127.3	8
132.0	132.0	6.0	132.0	132.0	6.0	23.01	43	140.3	7
140.0	140.0	4.0	140.0	140.0	4.0	16.76	60	102.2	10
140.0	140.0	5.0	140.0	140.0	5.0	20.69	48	126.1	8
140.0	140.0	6.0	140.0	140.0	6.0	24.52	41	149.5	7
140.0	140.0	6.3	140.0	140.0	6.3	25.65	39	156.4	6
140.0	140.0	8.0	140.0	140.0	8.0	31.87	31	194.3	5
140.0	140.0	10.0	140.0	140.0	10.0	38.80	26	236.5	4
140.0	140.0	12.0	140.0	140.0	12.0	45.32	22	276.3	4
140.0	140.0	12.5	140.0	140.0	12.5	46.89	21	285.8	3
140.0	140.0	16.0	140.0	140.0	16.0	57.13	18	348.3	3
150.0	150.0	4.0	150.0	150.0	4.0	18.01	56	109.8	9
150.0	150.0	5.0	150.0	150.0	5.0	22.26	45	135.7	7
150.0	150.0	6.0	150.0	150.0	6.0	26.40	38	160.9	6
150.0	150.0	6.3	150.0	150.0	6.3	27.63	36	168.4	6
150.0	150.0	7.0	150.0	150.0	7.0	30.44	33	185.6	5
150.0	150.0	8.0	150.0	150.0	8.0	34.38	29	209.6	5
150.0	150.0	10.0	150.0	150.0	10.0	41.94	24	255.7	4
150.0	150.0	12.0	150.0	150.0	12.0	49.09	20	299.3	3
150.0	150.0	12.5	150.0	150.0	12.5	50.81	20	309.7	3
150.0	150.0	16.0	150.0	150.0	16.0	62.15	16	378.9	3
160.0	160.0	4.0	160.0	160.0	4.0	19.27	52	117.5	9
160.0	160.0	5.0	160.0	160.0	5.0	23.83	42	145.3	7
160.0	160.0	6.0	160.0	160.0	6.0	28.29	35	172.5	6
160.0	160.0	6.3	160.0	160.0	6.3	29.60	34	180.4	6
160.0	160.0	8.0	160.0	160.0	8.0	36.89	27	224.9	4
160.0	160.0	10.0	160.0	160.0	10.0	45.08	22	274.8	4
160.0	160.0	12.0	160.0	160.0	12.0	52.86	19	322.2	3
160.0	160.0	12.5	160.0	160.0	12.5	54.74	18	333.7	3
160.0	160.0	16.0	160.0	160.0	16.0	67.18	15	409.5	2
180.0	180.0	4.0	180.0	180.0	4.0	21.78	46	132.8	8
180.0	180.0	5.0	180.0	180.0	5.0	26.97	37	164.4	6
180.0	180.0	6.0	180.0	180.0	6.0	32.05	31	195.4	5
180.0	180.0	6.3	180.0	180.0	6.3	33.56	30	204.6	5

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

DIMENSION			DEPTH OF SECTION	WIDTH OF SECTION	THICKNESS OF SECTION	NOMINAL MASS OF STEEL TUBES PLAIN END			
mm	mm	mm	(D) mm	(B) mm	mm	kg/mtr	mts/t	kgs/20'	pcs/mt
180.0	180.0	8.0	180.0	180.0	8.0	41.91	24	255.5	4
180.0	180.0	10.0	180.0	180.0	10.0	51.36	19	313.1	3
180.0	180.0	12.0	180.0	180.0	12.0	60.40	17	368.2	3
180.0	180.0	12.5	180.0	180.0	12.5	62.59	16	381.5	3
180.0	180.0	16.0	180.0	180.0	16.0	77.23	13	470.8	2
200.0	200.0	4.0	200.0	200.0	4.0	24.29	41	148.1	7
200.0	200.0	5.0	200.0	200.0	5.0	30.11	33	183.6	5
200.0	200.0	6.0	200.0	200.0	6.0	35.82	28	218.4	5
200.0	200.0	6.3	200.0	200.0	6.3	37.52	27	228.7	4
200.0	200.0	8.0	200.0	200.0	8.0	46.94	21	286.1	3
200.0	200.0	10.0	200.0	200.0	10.0	57.64	17	351.4	3
200.0	200.0	12.0	200.0	200.0	12.0	67.93	15	414.1	2
200.0	200.0	12.5	200.0	200.0	12.5	70.44	14	429.4	2
200.0	200.0	16.0	200.0	200.0	16.0	87.27	11	532.0	2
220.0	220.0	5.0	220.0	220.0	5.0	33.25	30	202.7	5
220.0	220.0	6.0	220.0	220.0	6.0	39.59	25	241.3	4
220.0	220.0	6.3	220.0	220.0	6.3	41.47	24	252.8	4
220.0	220.0	8.0	220.0	220.0	8.0	51.96	19	316.7	3
220.0	220.0	10.0	220.0	220.0	10.0	63.92	16	389.7	3
220.0	220.0	12.0	220.0	220.0	12.0	75.47	13	460.1	2
220.0	220.0	12.5	220.0	220.0	12.5	78.29	13	477.3	2
220.0	220.0	16.0	220.0	220.0	16.0	97.32	10	593.3	2
250.0	250.0	5.0	250.0	250.0	5.0	37.96	26	231.4	4
250.0	250.0	6.0	250.0	250.0	6.0	45.24	22	275.8	4
250.0	250.0	6.3	250.0	250.0	6.3	47.41	21	289.0	3
250.0	250.0	8.0	250.0	250.0	8.0	59.50	17	362.7	3
250.0	250.0	10.0	250.0	250.0	10.0	73.34	14	447.1	2
250.0	250.0	12.0	250.0	250.0	12.0	86.77	12	528.9	2
250.0	250.0	12.5	250.0	250.0	12.5	90.06	11	549.0	2
250.0	250.0	16.0	250.0	250.0	16.0	112.39	9	685.1	1
260.0	260.0	6.0	260.0	260.0	6.0	47.13	21	287.3	3
260.0	260.0	6.3	260.0	260.0	6.3	49.39	20	301.1	3
260.0	260.0	8.0	260.0	260.0	8.0	62.01	16	378.0	3
260.0	260.0	10.0	260.0	260.0	10.0	76.48	13	466.2	2
260.0	260.0	12.0	260.0	260.0	12.0	90.54	11	551.9	2
260.0	260.0	12.5	260.0	260.0	12.5	93.99	11	573.0	2
260.0	260.0	16.0	260.0	260.0	16.0	117.42	9	715.8	1
300.0	300.0	6.0	300.0	300.0	6.0	54.66	18	333.2	3
300.0	300.0	6.3	300.0	300.0	6.3	57.30	17	349.3	3
300.0	300.0	8.0	300.0	300.0	8.0	72.06	14	439.3	2
300.0	300.0	10.0	300.0	300.0	10.0	89.04	11	542.8	2
300.0	300.0	12.0	300.0	300.0	12.0	105.61	9	643.8	2

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

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

Following Manufacturing Tolerance shall be permitted on Thickness and Mass

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

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

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



**TECHNICAL DATA FOR COLD FORMED WELDED 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

**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.

Square Hollow Sections (SHS)

[illegible]



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 scarfig (internal weld fin removal) as per customer requirement.

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

DIMENSION			DEPTH OF SECTION	WIDTH OF SECTION	THICKNESS OF SECTION	NOMINAL MASS OF STEEL TUBES PLAIN END			
mm	mm	mm	(D) mm	(B) mm	mm	kg/mtr	mts/t	kgs/20'	pcs/mt
25.0	12.0	0.8	25.0	12.0	0.8	0.45	2222	2.7	365
40.0	20.0	1.2	40.0	20.0	1.2	1.06	943	6.5	155
40.0	20.0	1.4	40.0	20.0	1.4	1.22	820	7.4	134
40.0	20.0	1.6	40.0	20.0	1.6	1.37	730	8.4	120
40.0	20.0	1.8	40.0	20.0	1.8	1.53	654	9.3	107
40.0	20.0	1.9	40.0	20.0	1.9	1.60	625	9.8	103
50.0	25.0	1.2	50.0	25.0	1.2	1.34	746	8.2	122
50.0	25.0	1.4	50.0	25.0	1.4	1.55	645	9.4	106
50.0	25.0	1.6	50.0	25.0	1.6	1.75	571	10.7	94
50.0	25.0	1.8	50.0	25.0	1.8	1.95	513	11.9	84
50.0	25.0	1.9	50.0	25.0	1.9	2.05	488	12.5	80
50.0	30.0	1.2	50.0	30.0	1.2	1.43	699	8.7	115
50.0	30.0	1.4	50.0	30.0	1.4	1.66	602	10.1	99
50.0	30.0	1.6	50.0	30.0	1.6	1.88	532	11.5	87
50.0	30.0	1.8	50.0	30.0	1.8	2.09	478	12.7	78
50.0	30.0	1.9	50.0	30.0	1.9	2.20	455	13.4	75
60.0	40.0	1.2	60.0	40.0	1.2	1.81	552	11.0	91
60.0	40.0	1.4	60.0	40.0	1.4	2.10	476	12.8	78
60.0	40.0	1.6	60.0	40.0	1.6	2.38	420	14.5	69
60.0	40.0	1.8	60.0	40.0	1.8	2.66	376	16.2	62
60.0	40.0	1.9	60.0	40.0	1.9	2.80	357	17.1	59
66.0	33.0	1.2	66.0	33.0	1.2	1.79	559	10.9	92
66.0	33.0	1.4	66.0	33.0	1.4	2.07	483	12.6	79
66.0	33.0	1.6	66.0	33.0	1.6	2.35	426	14.3	70
66.0	33.0	1.8	66.0	33.0	1.8	2.63	380	16.0	62
66.0	33.0	1.9	66.0	33.0	1.9	2.77	361	16.9	59
70.0	30.0	1.2	70.0	30.0	1.2	1.81	552	11.0	91
70.0	30.0	1.4	70.0	30.0	1.4	1.66	602	10.1	99
70.0	30.0	1.6	70.0	30.0	1.6	1.88	532	11.5	87
70.0	30.0	1.8	70.0	30.0	1.8	2.09	478	12.7	78
70.0	30.0	1.9	70.0	30.0	1.9	2.20	455	13.4	75
70.0	50.0	1.2	70.0	50.0	1.2	2.19	457	13.4	75
70.0	50.0	1.4	70.0	50.0	1.4	2.54	394	15.5	65
70.0	50.0	1.6	70.0	50.0	1.6	2.88	347	17.6	57
70.0	50.0	1.8	70.0	50.0	1.8	3.22	311	19.6	51
70.0	50.0	1.9	70.0	50.0	1.9	3.39	295	20.7	48
80.0	40.0	1.2	80.0	40.0	1.2	2.19	457	13.4	75
80.0	40.0	1.4	80.0	40.0	1.4	2.54	394	15.5	65
80.0	40.0	1.6	80.0	40.0	1.6	2.88	347	17.6	57
80.0	40.0	1.8	80.0	40.0	1.8	3.22	311	19.6	51
80.0	40.0	1.9	80.0	40.0	1.9	3.39	295	20.7	48
80.0	50.0	1.2	80.0	50.0	1.2	2.37	422	14.4	69
80.0	50.0	1.4	80.0	50.0	1.4	2.76	362	16.8	59

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

DIMENSION			DEPTH OF SECTION	WIDTH OF SECTION	THICKNESS OF SECTION	NOMINAL MASS OF STEEL TUBES PLAIN END			
mm	mm	mm	(D) mm	(B) mm	mm	kg/mtr	mts/t	kgs/20'	pcs/mt
80.0	50.0	1.6	80.0	50.0	1.6	3.13	319	19.1	52
80.0	50.0	1.8	80.0	50.0	1.8	3.51	285	21.4	47
80.0	50.0	1.9	80.0	50.0	1.9	3.69	271	22.5	44
80.0	60.0	1.2	80.0	60.0	1.2	2.56	391	15.6	64
80.0	60.0	1.4	80.0	60.0	1.4	2.98	336	18.2	55
80.0	60.0	1.6	80.0	60.0	1.6	3.38	296	20.6	49
80.0	60.0	1.8	80.0	60.0	1.8	3.79	264	23.1	43
80.0	60.0	1.9	80.0	60.0	1.9	3.99	251	24.3	41
90.0	50.0	1.2	90.0	50.0	1.2	2.56	391	15.6	64
90.0	50.0	1.4	90.0	50.0	1.4	2.98	336	18.2	55
90.0	50.0	1.6	90.0	50.0	1.6	3.38	296	20.6	49
90.0	50.0	1.8	90.0	50.0	1.8	3.79	264	23.1	43
90.0	50.0	1.9	90.0	50.0	1.9	3.99	251	24.3	41
96.0	48.0	1.2	96.0	48.0	1.2	2.64	379	16.1	62
96.0	48.0	1.4	96.0	48.0	1.4	3.06	327	18.7	54
96.0	48.0	1.6	96.0	48.0	1.6	3.49	287	21.3	47
96.0	48.0	1.8	96.0	48.0	1.8	3.90	256	23.8	42
96.0	48.0	1.9	96.0	48.0	1.9	4.11	243	25.1	40
100.0	40.0	1.2	100.0	40.0	1.2	2.56	391	15.6	64
100.0	40.0	1.4	100.0	40.0	1.4	2.98	336	18.2	55
100.0	40.0	1.6	100.0	40.0	1.6	3.38	296	20.6	49
100.0	40.0	1.8	100.0	40.0	1.8	3.79	264	23.1	43
100.0	40.0	1.9	100.0	40.0	1.9	3.99	251	24.3	41
100.0	40.0	2.0	100.0	40.0	2.0	4.19	239	25.5	39
100.0	40.0	2.4	100.0	40.0	2.4	4.98	201	30.4	33
100.0	50.0	1.2	100.0	50.0	1.2	2.75	364	16.8	60
100.0	50.0	1.4	100.0	50.0	1.4	3.20	313	19.5	51
100.0	50.0	1.6	100.0	50.0	1.6	3.64	275	22.2	45
100.0	50.0	1.8	100.0	50.0	1.8	4.07	246	24.8	40
100.0	50.0	1.9	100.0	50.0	1.9	4.29	233	26.2	38
100.0	50.0	2.0	100.0	50.0	2.0	4.50	222	27.4	36
100.0	50.0	2.4	100.0	50.0	2.4	5.35	187	32.6	31
100.0	60.0	1.2	100.0	60.0	1.2	2.94	340	17.9	56
100.0	60.0	1.4	100.0	60.0	1.4	3.42	292	20.8	48
100.0	60.0	1.6	100.0	60.0	1.6	3.89	257	23.7	42
100.0	60.0	1.8	100.0	60.0	1.8	4.35	230	26.5	38
100.0	60.0	1.9	100.0	60.0	1.9	4.59	218	28.0	36
100.0	60.0	2.0	100.0	60.0	2.0	4.82	207	29.4	34
100.0	60.0	2.4	100.0	60.0	2.4	5.73	175	34.9	29
100.0	80.0	1.2	100.0	80.0	1.2	3.32	301	20.2	49
100.0	80.0	1.4	100.0	80.0	1.4	3.86	259	23.5	42
100.0	80.0	1.6	100.0	80.0	1.6	4.39	228	26.8	37
100.0	80.0	1.8	100.0	80.0	1.8	4.92	203	30.0	33

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

DIMENSION			DEPTH OF SECTION	WIDTH OF SECTION	THICKNESS OF SECTION	NOMINAL MASS OF STEEL TUBES PLAIN END			
mm	mm	mm	(D) mm	(B) mm	mm	kg/mtr	mts/t	kgs/20'	pcs/mt
100.0	80.0	1.9	100.0	80.0	1.9	5.18	193	31.6	32
100.0	80.0	2.0	100.0	80.0	2.0	5.45	183	33.2	30
100.0	80.0	2.4	100.0	80.0	2.4	6.48	154	39.5	25
120.0	60.0	1.2	120.0	60.0	1.2	3.32	301	20.2	49
120.0	60.0	1.4	120.0	60.0	1.4	3.86	259	23.5	42
120.0	60.0	1.6	120.0	60.0	1.6	4.39	228	26.8	37
120.0	60.0	1.8	120.0	60.0	1.8	4.92	203	30.0	33
120.0	60.0	1.9	120.0	60.0	1.9	5.18	193	31.6	32
120.0	60.0	2.0	120.0	60.0	2.0	5.45	183	33.2	30
120.0	60.0	2.4	120.0	60.0	2.4	6.48	154	39.5	25
120.0	80.0	1.2	120.0	80.0	1.2	3.69	271	22.5	44
120.0	80.0	1.4	120.0	80.0	1.4	4.29	233	26.2	38
120.0	80.0	1.6	120.0	80.0	1.6	4.89	204	29.8	34
120.0	80.0	1.8	120.0	80.0	1.8	5.48	182	33.4	30
120.0	80.0	1.9	120.0	80.0	1.9	5.78	173	35.2	28
120.0	80.0	2.0	120.0	80.0	2.0	6.07	165	37.0	27
120.0	80.0	2.4	120.0	80.0	2.4	7.24	138	44.1	23
120.0	80.0	2.9	120.0	80.0	2.9	8.67	115	52.9	19
122.0	61.0	1.2	122.0	61.0	1.2	3.37	297	20.5	49
122.0	61.0	1.4	122.0	61.0	1.4	3.92	255	23.9	42
122.0	61.0	1.6	122.0	61.0	1.6	4.46	224	27.2	37
122.0	61.0	1.8	122.0	61.0	1.8	5.00	200	30.5	33
122.0	61.0	1.9	122.0	61.0	1.9	5.27	190	32.1	31
122.0	61.0	2.0	122.0	61.0	2.0	5.54	181	33.8	30
122.0	61.0	2.4	122.0	61.0	2.4	6.60	152	40.2	25
127.0	50.0	1.2	127.0	50.0	1.2	3.26	307	19.9	50
127.0	50.0	1.4	127.0	50.0	1.4	3.79	264	23.1	43
127.0	50.0	1.6	127.0	50.0	1.6	4.31	232	26.3	38
127.0	50.0	1.8	127.0	50.0	1.8	4.83	207	29.4	34
127.0	50.0	1.9	127.0	50.0	1.9	5.09	196	31.0	32
127.0	50.0	2.0	127.0	50.0	2.0	5.35	187	32.6	31
127.0	50.0	2.4	127.0	50.0	2.4	6.37	157	38.8	26
127.0	50.0	2.9	127.0	50.0	2.9	7.62	131	46.5	22
140.0	80.0	1.6	140.0	80.0	1.6	5.39	186	32.9	30
140.0	80.0	2.0	140.0	80.0	2.0	6.70	149	40.8	24
140.0	80.0	2.9	140.0	80.0	2.9	9.58	104	58.4	17
140.0	80.0	3.2	140.0	80.0	3.2	10.52	95	64.1	16
140.0	80.0	3.6	140.0	80.0	3.6	11.76	85	71.7	14
140.0	80.0	3.9	140.0	80.0	3.9	12.68	79	77.3	13
145.0	82.0	1.6	145.0	82.0	1.6	5.57	180	34.0	29
145.0	82.0	2.0	145.0	82.0	2.0	6.92	145	42.2	24
145.0	82.0	2.9	145.0	82.0	2.9	9.90	101	60.4	17
145.0	82.0	3.2	145.0	82.0	3.2	10.88	92	66.3	15

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

DIMENSION			DEPTH OF SECTION	WIDTH OF SECTION	THICKNESS OF SECTION	NOMINAL MASS OF STEEL TUBES PLAIN END			
mm	mm	mm	(D) mm	(B) mm	mm	kg/mtr	mts/t	kgs/20'	pcs/mt
145.0	82.0	3.6	145.0	82.0	3.6	12.16	82	74.1	13
145.0	82.0	3.9	145.0	82.0	3.9	13.11	76	79.9	13
150.0	100.0	1.6	150.0	100.0	1.6	6.15	163	37.5	27
150.0	100.0	2.0	150.0	100.0	2.0	7.64	131	46.6	21
150.0	100.0	2.9	150.0	100.0	2.9	10.95	91	66.8	15
150.0	100.0	3.2	150.0	100.0	3.2	12.03	83	73.3	14
150.0	100.0	3.6	150.0	100.0	3.6	13.46	74	82.1	12
150.0	100.0	3.9	150.0	100.0	3.9	14.52	69	88.5	11
160.0	80.0	1.6	160.0	80.0	1.6	5.90	169	36.0	28
160.0	80.0	2.0	160.0	80.0	2.0	7.33	136	44.7	22
160.0	80.0	2.9	160.0	80.0	2.9	10.49	95	63.9	16
160.0	80.0	3.2	160.0	80.0	3.2	11.53	87	70.3	14
160.0	80.0	3.6	160.0	80.0	3.6	12.90	78	78.6	13
160.0	80.0	3.9	160.0	80.0	3.9	13.91	72	84.8	12
172.0	92.0	3.2	172.0	92.0	3.2	12.73	79	77.6	13
172.0	92.0	3.6	172.0	92.0	3.6	14.25	70	86.9	12
172.0	92.0	3.9	172.0	92.0	3.9	15.38	65	93.8	11
180.0	100.0	3.2	180.0	100.0	3.2	13.54	74	82.5	12
180.0	100.0	3.6	180.0	100.0	3.6	15.16	66	92.4	11
180.0	100.0	3.9	180.0	100.0	3.9	16.36	61	99.7	10
200.0	100.0	3.6	200.0	100.0	3.6	16.29	61	99.3	10
200.0	100.0	3.9	200.0	100.0	3.9	17.58	57	107.2	9

Following Manufacturing Tolerance shall be permitted on Thickness and Mass

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

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

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

[illegible]



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)

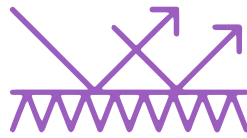
We have an in-house Galvanising Plant

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**



**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		



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 = **4 GW**
of structure 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+

CO₂ tons offset
over 10 years



5.5
billion+

Oil gallons offset
over 10 years



3
million+

Homes can be
powered

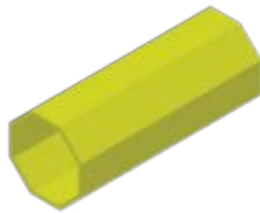
From receiving complex designs, to challenging specifications
**MKK has been able to deliver
what the world needs.**

TORQUE TUBES •

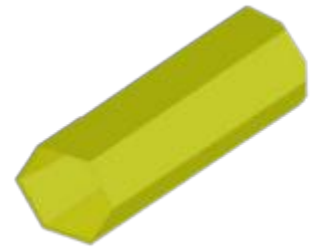
SQUARE



OCTAGONAL



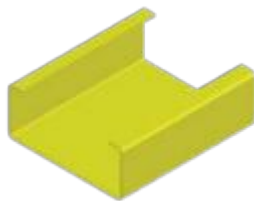
HEXAGONAL



Z SECTIONS



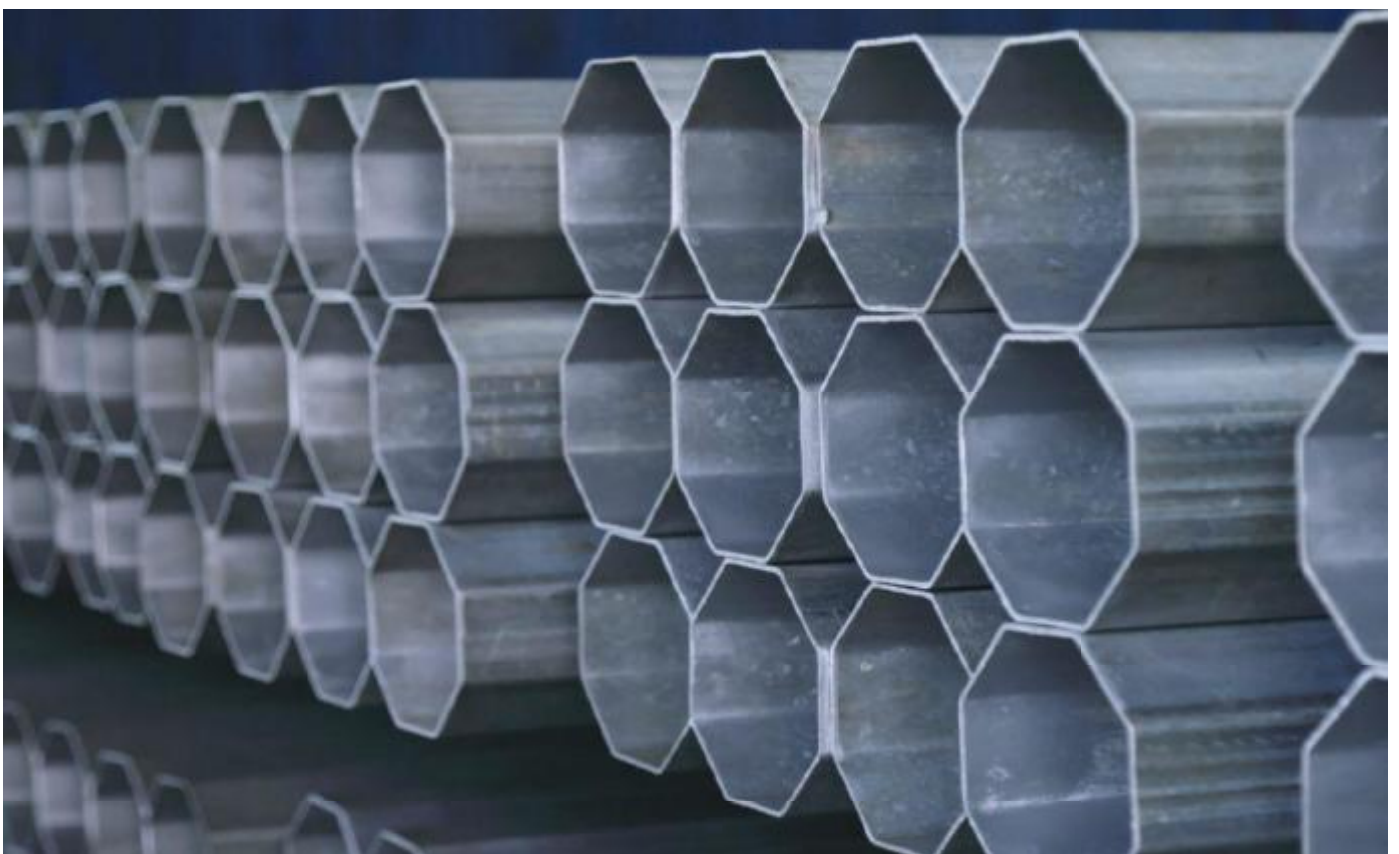
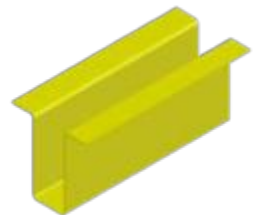
C & U SECTIONS



HAT



TOP HAT



Clean Energy & Climate Action has never been more urgent.

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



On Time



Cost Effective



Good Quality



Reliable



Sustainable



Durable



UNMATCHED QUALITY
DULY CERTIFIED

DNV

**CERTIFICATE OF CONFORMITY OF THE
FACTORY PRODUCTION CONTROL**

Certificate No.: 2388-CPN-24-00333 Rev. 0.0 Initial certification date: 11-07-2024 Validity end date: 11-07-2027

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

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

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

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

EN 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.

Place and date:
Barendrecht, 11-07-2024

Check Validity

For the issuing office:
Notified Body 2388, The Netherlands

Sign:  **Products RvA C 312**
Sign:  **Sign: Management Representative**

Look for follow-up of conditions as set out in the Certification Agreement may under this Certificate valid

DNV GL-CPN-05-AR rev 1

NOTIFIED BODY 2388, DNV Business Assurance B.V., Zeehaven 1, 2004 LB Barendrecht, The Netherlands, TEL: +31 78 2022 699 info@dnv.nl

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Appendix to Certificate

Certificate history:

Revision	Description	Issue Date
0.0	Original Certificate	2024-07-11

Additional information to the scope of certificate

Harmonized Standard	Test grade & quality	Shape	Technical Specification and Harmonized European Standard	Thickness (mm)	Width (mm)	Depth (mm)	Mark / Reference
EN 10219-1:2006	S235NL, S275NL, S355NL, S460NL, S550NL, S690NL, S700NL, S760NL, S890NL, S960NL, S1060NL, S1100NL, S1180NL, S1255NL, S1355NL, S1460NL, S1550NL, S1660NL, S1700NL, S1770NL, S1860NL, S1960NL, S2060NL, S2160NL, S2260NL, S2360NL, S2460NL, S2560NL, S2660NL, S2760NL, S2860NL, S2960NL, S3060NL, S3160NL, S3260NL, S3360NL, S3460NL, S3560NL, S3660NL, S3760NL, S3860NL, S3960NL, S4060NL, S4160NL, S4260NL, S4360NL, S4460NL, S4560NL, S4660NL, S4760NL, S4860NL, S4960NL, S5060NL, S5160NL, S5260NL, S5360NL, S5460NL, S5560NL, S5660NL, S5760NL, S5860NL, S5960NL, S6060NL, S6160NL, S6260NL, S6360NL, S6460NL, S6560NL, S6660NL, S6760NL, S6860NL, S6960NL, S7060NL, S7160NL, S7260NL, S7360NL, S7460NL, S7560NL, S7660NL, S7760NL, S7860NL, S7960NL, S8060NL, S8160NL, S8260NL, S8360NL, S8460NL, S8560NL, S8660NL, S8760NL, S8860NL, S8960NL, S9060NL, S9160NL, S9260NL, S9360NL, S9460NL, S9560NL, S9660NL, S9760NL, S9860NL, S9960NL, S10060NL, S10160NL, S10260NL, S10360NL, S10460NL, S10560NL, S10660NL, 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CERTIFICATE OF FACTORY PRODUCTION CONTROL

Certificate No. CE0876 Rev. 0 Initial certification date: 2024-01-10 Valid: 2027-01-09

This certificate consists of 02 page(s).

This is to certify that the product(s):

Non-alloy Steel tubes suitable for Welding and Threading.

Manufactured by:

MKK METAL SECTIONS PRIVATE LIMITED
Plot No T1 & 599 - S108, SPCOT Phase III, Paluramwaram Post, Ranipet Dist-632405,
Tamil Nadu, India

has on a voluntary basis been assessed with respect to the conformity assessment procedure "Factory Production Control" as described in EN ISO 9001+A1:2007 Annex ZA Clause 13.5 of the standard on structures steel, as amended and found to comply.

Appointments/Limitations
In compliance with the Construction Product Regulation 305/2011, CE marking & provide Declaration of Performance and Declaration procedure A1, which is described in the standard EN ISO 9001+A1:2007 according to Annex ZA, Unit 1 Type Testing (TT) Clause 13.2 shall meet the requirements and compliance of the same under responsibility of the Manufacturer.

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

Place and date:
Attestation: 10 January 2024

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

Manager/Manager
Head of Section, Manager - Product Assurance

This certificate is subject to terms and conditions mentioned. Any additional change to design or production may render this certificate invalid. It can be used for a maximum of 10 years after the date of issue. The manufacturer shall ensure that the certificate remains valid during the entire period of use. The certificate shall be issued only to the manufacturer or its representative. The certificate shall be issued only to the manufacturer or its representative.

Page 1 of 2

DNV

Certificate No. CE0876 Rev. 0
Project No. 0828-01-10

Certificate history:		Issue Date:
Revision	Description	
00	Initial Issue	2024-01-10

Products covered by this Certificate:

Product description	Product Type	Category	Applied standard
Non-alloy steel tubes for welding & Threading (Steel & cast-iron)	Non alloy steel tubes suitable for welding, threading	Subcategory: Steel	EN ISO 9001+A1:2007
Type L1 & L2			
Material grade: Steel Grade S195 and Steel Number S195			
Size (DxT): 21.3 mm to 154.3 mm, for Type L1 & L2			
Wall thickness: 3.0 mm to 10.0 mm, for Type L1 & L2 as the standard			

DNV covered by this Certificate:

Manufacturer	MKK METAL SECTIONS PRIVATE LIMITED
Product	Non-alloy steel tubes for welding & Threading

Terms and conditions

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

- Any producer (Manufacturer) (see 2009/18/EC for a precise definition) is liable for storage (issued by a defect in its products), in accordance with directive 85/374/EEC, as amended, concerning liability of defective products.
- The certificate is only valid for the products and/or manufacturing premises listed above.
- The manufacturer shall fulfil the obligations arising out of the quality system as approved and updated it as that it remains adequate and efficient.
- The assessment scope of this certificate includes initial type testing and other condition as in the Appendix / Limitation. The initial type testing (TT) by notified laboratory is described in the standard that shall be used which is under the responsibility of a manufacturer.
- The manufacturer shall ensure the good use of any internal laboratory of the quality system and DNV will assess the changes and check if the certificate remains valid.
- Periodical 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.
- Periodical audits not held within the allowed time window.

END OF CERTIFICATE

The Certificate is subject to terms and conditions mentioned. Any significant change in design or production may render the Certificate invalid. It can be used for a maximum of 10 years after the date of issue. The manufacturer shall ensure that the certificate remains valid during the entire period of use. The certificate shall be issued only to the manufacturer or its representative. The certificate shall be issued only to the manufacturer or its representative.

Page 1 of 2

Chennai Metro Rail Limited
(A Joint Venture of Govt. of India and Govt. of Tamil Nadu)
(100% Govt. owned and 100% Indian Capital)

T. Livingston Eliazar
Chief General Manager (PP & D)
Lr. No. CMRL/CONDES/930/2025

Tel: 044 24378326
livingstone.eliazar@cmrl.in
Date: 15.02.2025

To Whomever it may concern

Sub: No objection to use products of **MKK Metal Sections Private Limited** in CMRL Projects - Reg.

CMRL has "No objection" in usage of the following products of **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.

- Structural steel
- Color Coated Roofing Sheets

The approval is subject to the following conditions:

- This approval is hereby granted on the condition of maintaining of quality as per stipulated standards.
- Mandatory quality checks will be carried out as and when required so as to satisfy the qualitative requirements.
- Satisfactory performance tests to be conducted as site approved laboratory initially & from time to time as per standard practice / codes and also as directed by the Engineer in-charge.
- In case of negative feedback or deterioration in quality, this approval will stand cancelled automatically.
- 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.

T. Livingston Eliazar
Chief General Manager (PP & D)
CMRL/CONDES/930/2025

Copy to: DPC/CMRL for kind information please.

METCO, Area Sales, Hindonam, Chennai - 600 031.
Phone: 044-2437 8000 / Email: chennai@metco.in / Website: www.chennai-metco.in
CH - 060100H009550065996

INTERNAL COACH FACTORY

800-086-0016

File No. 0202020104000400

To: **MKK METAL SECTIONS PRIVATE LIMITED**
PLOT NO. 1, SPM-108, SPCOT PHASE - II, KUNDIRAMPURAM POST, RANIPET DISTRICT

Chennai - 600 026
Date: 06/02/24

Sub: Registration of your firm as approved supplier of steel.
Ref: Your Letter No. MPPS2070013 dated 19-JUL-23

I (I) am directed to inform you that, your application for inclusion of your concern in the approved list of supplier to this Railway has been carefully considered and it has been decided to enter your firm on the list of approved suppliers with the status mentioned below:

Registration No.	Category
04010	Category 'A' (Value Limitation over Rs. 100 Crores)
Validity	Upto 05/03/28

The following trade groups are allowed:

Slip: Description of Trade Group:
010: Tubular Structures, Pre-fabricated
020: Pipes and Fittings
030: Non-alloy Steel Pipes and Fittings
040: Pipes, Structures and S.S. etc.

It is to be noted that this registration is valid for the Trade Groups and monetary value as indicated above, and any supplier registered for other than the above mentioned trade groups and monetary limit, will be treated as per with the status mentioned below.

It is to be noted that this registration is subject to constant review from time to time in accordance with your performance for supply of goods to this Railway. Please note that you may apply for renewal of registration, well in advance, before the expiry of the present registration and ensure to attach the details of the orders executed by you during the last 3 years.

It is to be noted that as an approved registered supplier of the Railway, you shall abide by the IRB Committee of Control (established by the Indian Railways) and shall be subject to the IRB Committee of Control (established by the Indian Railways) and shall be subject to the IRB Committee of Control (established by the Indian Railways).

It is to be noted that any subsequent changes in the constitution of working of the firm should be promptly communicated to the office.

Copy to:

T. Livingston Eliazar
Chief General Manager (PP & D)
CMRL/CONDES/930/2025

T. Livingston Eliazar
Chief General Manager (PP & D)
CMRL/CONDES/930/2025

[illegible]

CERTIFICATE OF COMPLIANCE

Certificate number	UL-US-2561456-0
Report reference	EX29495-20250326
Date	2025-03-27

This is to certify that representative samples of the product as specified on this certificate were tested according to the current U.S. requirements.

Schedule Type

Model(s): Sch 10, class B, Type E - ASTM A795/A795M, Sch 10, class B, Type E - ASTM A795/A795M, Sch 36, class B, Type E - ASTM A795/A795M, Sch 40, class B, Type E - ASTM A795/A795M, Schedule 40, Grade B, Type E - ASTM A513/AS13M Black or Galvanized

This certificate was electronically created by UL. No other action is required to make it valid. UL and its associated service marks are registered trademarks of UL. All other marks are the property of their respective owners.

Page 1 of 1

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 Form UL-20250326-1-01





Certificate of Compliance
INTEGRATED QUALITY CERTIFICATION PRIVATE LIMITED
 hereby certifies that the Occupational Health and Safety Management Systems of

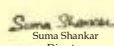
MKK Metal Sections Private Limited

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

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

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

Subdivision	: 21, 22	Current issue date	: 03.11.2023
Class	: 2110, 2221, 2293	Current expiry date	: 02.11.2026
Process(es) not applicable	: None	1st Surveillance due	: 02.11.2024
Certificate number	: IND/IMS-QEO/JAS-C0092/0644	2nd Surveillance due	: 02.11.2025
Attachment(s)	: None		


 Suma Shankar
 Director

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

Email : iqccorporation@iqcglobal.com Website : www.iqcglobal.com CIN : U74140K2300PTC01851
 Corporate Office : Platinum City, G/13/03, Site # 02, Next to CMTL HMT Road, Yeshwanthpur Post, Bangalore - 560 022, India.
 Tel : +91(80) 41172732, 41277303, 41280342 Email : iqccorporation@iqcglobal.com Website : www.iqcglobal.com
 Please visit www.iqcglobal.com to verify the authenticity and validity of this certificate of compliance
 QP-118 Rev 00 date 04.12.2019





Certificate of Compliance
INTEGRATED QUALITY CERTIFICATION PRIVATE LIMITED
 hereby certifies that the Environmental Management Systems of

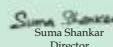
MKK Metal Sections Private Limited

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

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

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

Subdivision	: 21, 22	Current issue date	: 03.11.2023
Class	: 2110, 2221, 2293	Current expiry date	: 02.11.2026
Process(es) not applicable	: None	1st Surveillance due	: 02.11.2024
Certificate number	: IND/IMS-QEO/JAS-C0092/0592	2nd Surveillance due	: 02.11.2025
Attachment(s)	: None		


 Suma Shankar
 Director

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

Corporate Office : Platinum City, G/13/03, Site # 02, Next to CMTL HMT Road, Yeshwanthpur Post, Bangalore - 560 022, India.
 Tel : +91(80) 41172732, 41277303, 41280342 Email : iqccorporation@iqcglobal.com Website : www.iqcglobal.com
 CIN : U74140K2300PTC01851
 Please visit www.iqcglobal.com to verify the authenticity and validity of this certificate of compliance
 QP-118 Rev 00 date 04.12.2019





Certificate of Compliance
INTEGRATED QUALITY CERTIFICATION PRIVATE LIMITED
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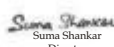
MKK Metal Sections Private Limited

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

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

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

Subdivision	: 21, 22	Initial issue date	: 28.08.2012
Class	: 2110, 2221, 2293	Current issue date	: 03.11.2023
Process(es) not applicable	: 8.3	Current expiry date	: 02.11.2026
Certificate number	: IND/IMS-QEO/JAS-C0092/1451	1st Surveillance due	: 02.11.2024
Attachment(s)	: None	2nd Surveillance due	: 02.11.2025


 Suma Shankar
 Director

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

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 QP-118 Rev 00 date 04.12.2019

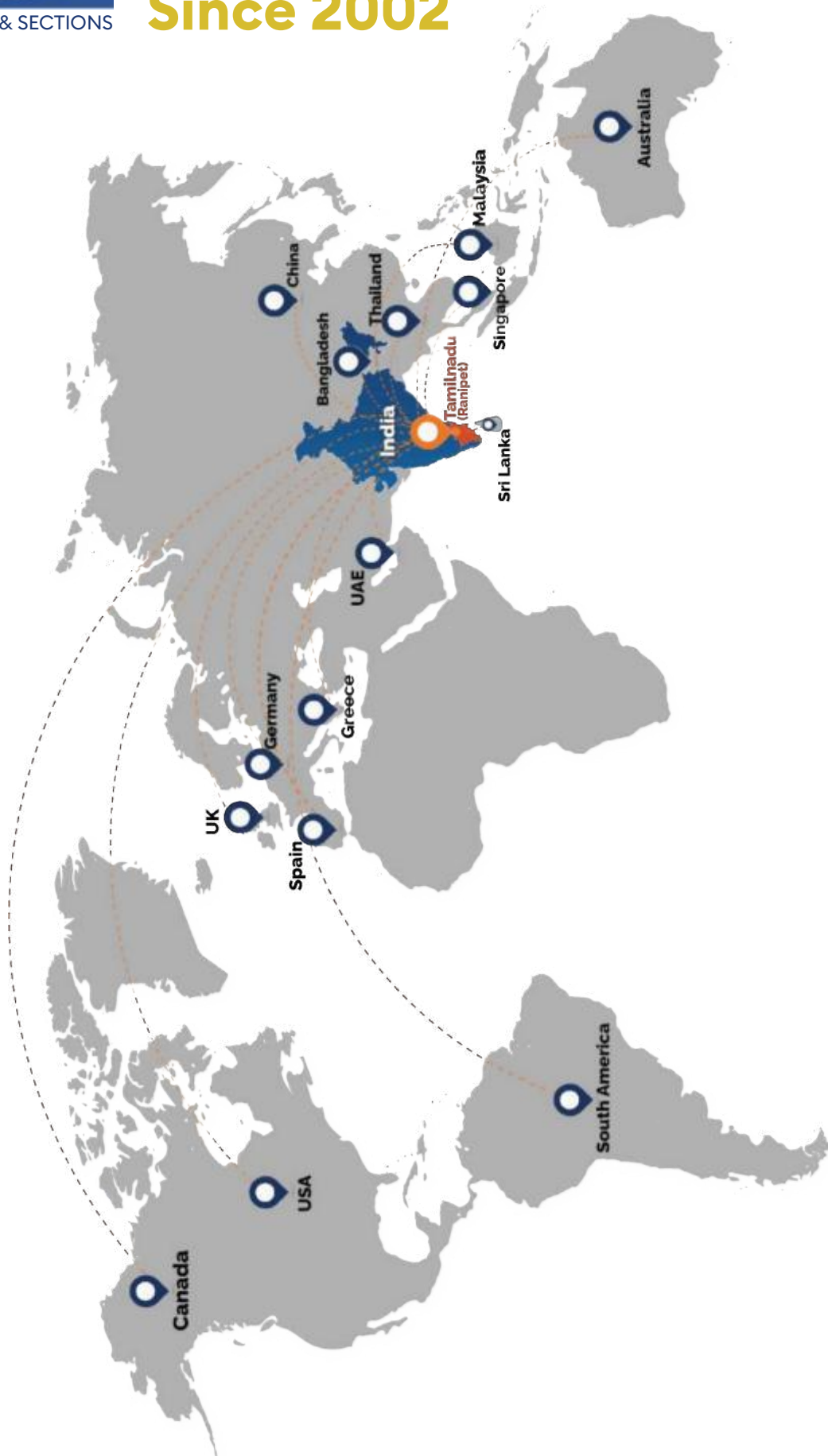
MKK Metal Sections Pvt. Ltd.



STEEL PIPES, TUBES & SECTIONS

Delivering Excellence

Since 2002



Our Clients

adani

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बी एच ई एल
BHEL

Brakes India Limited

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CATERPILLAR

DAIMLER

FTC SOLAR

GAMECHANGE SOLAR
REPOWERING THE PLANET

GEA-BGR

HINDUJA
RENEWABLES

INTEGRAL COACH FACTORY
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JCB

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MOVING THE NATION

JOHN DEERE
WIRTGEN GROUP

JSW

KEC
KEC INTERNATIONAL LIMITED

LARSEN & TOUBRO

metso

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TANGEDCO

TATA
TATA POWER

INDIA

UNIMACTS

WHEELS INDIA LIMITED

Contact Us

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 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 III, 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

MKK Metal Sections Pvt. Ltd.



STEEL PIPES, TUBES & SECTIONS

Sales Office

Bengaluru

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

Mumbai

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



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