



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 22<sup>nd</sup> 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

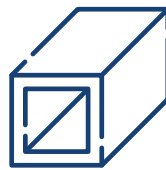
## Our Product Range

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



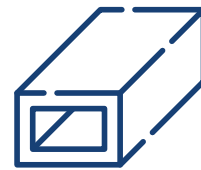
**12.7 OD**  
**610 OD**

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



# Conforming to the Highest Standards

## Delivering High Quality

### EQUIVALENT STANDARDS OF TUBES WITH APPLICATIONS

|    | STANDARD END USE                     | INDIAN               | BRITISH/<br>EUROPEAN                  | AMERICAN       | JAPANESE   | GERMAN                      | AUSTRALIAN |
|----|--------------------------------------|----------------------|---------------------------------------|----------------|------------|-----------------------------|------------|
| 1  | Water, Gas, Steam                    | IS-1239              | BS-1387                               | ASTMA-53       | -          | DIN-2439,<br>2440 &<br>2441 | AS 1074    |
| 2  | Water, Sewage                        | IS-3589              | EN-10255                              | -              | -          | -                           | -          |
| 3  | Structural, Scaffolding              | IS-1161              | "BS-11 39,<br>6323 EN-39<br>EN-10219" | AST-<br>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<br>(Sq. & Rect.)     | IS-4923/<br>IS 18573 | -                                     | AST-<br>MA-500 | JIS G 3466 | DIN-239                     | AS 1163    |
| 7  | Furniture Tube                       | IS-7138              | -                                     | -              | JIS G 3445 | -                           | -          |
| 8  | Oil Pipes / Pressure                 | IS/<br>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 &<br>Process Industries | IS-6286              | -                                     | -              | -          | -                           | -          |
| 11 | Boiler & APH Tubes                   | -                    | BS:3059,<br>6323                      | -              | -          | -                           | -          |

# Introducing DFT

## Direct Forming Technology (DFT) Tube Mill Revolutionizing Tube Production

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



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

## Key features of our DFT Tube Mill

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

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

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

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

5

**Seamless Integration:**

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

6

**High-Speed Performance:**

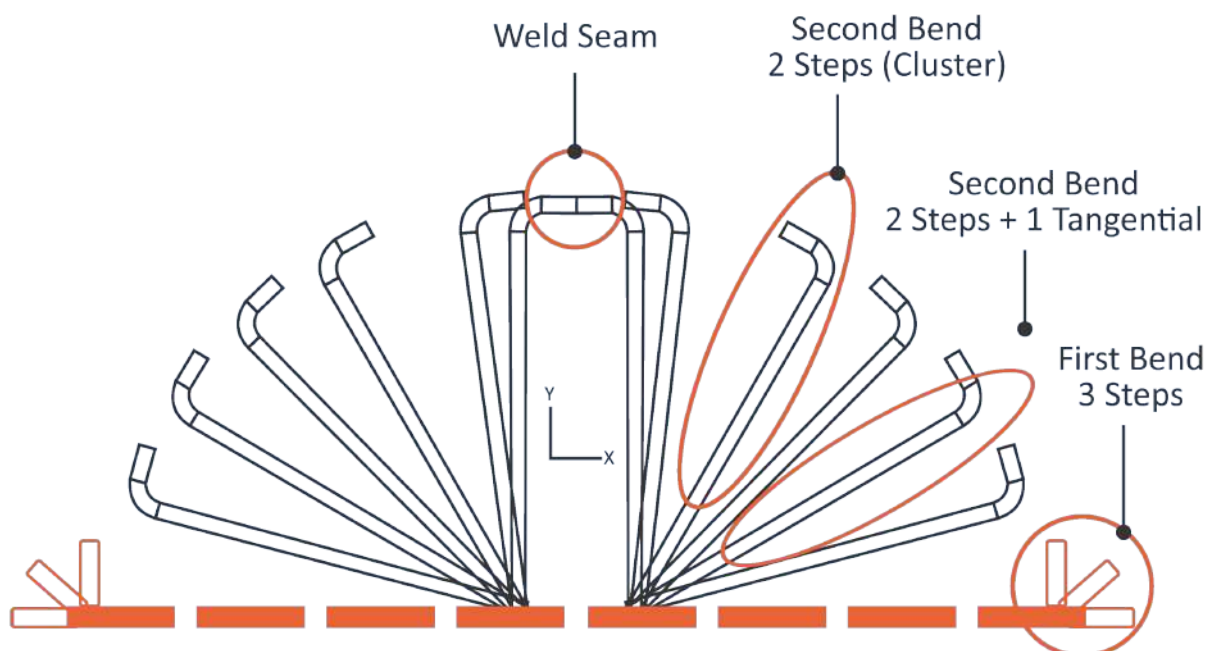
Equipped with cutting-edge technology and high-speed components, our DFT Tube Mill delivers superior throughput and productivity, maximizing output without compromising quality.

7

**Quality Assurance:**

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

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



**Design of Section Pipe**

### Information on Specification, Grades & Sizes Covered in DFT

| Specification  | Grades                 | Sizes covered in SHS       | Sizes covered in RHS       |
|----------------|------------------------|----------------------------|----------------------------|
| IS:4923        | YST 210, 240, 310, 355 | 100 x 100 x 2.5 to 12.7 mm | 100 x 150 x 2.5 to 12.7 mm |
| ASTM A500      | A500-Gr A, B & C       | 120 x 120 x 2.5 to 12.7 mm | 100 x 200 x 3 to 12.7 mm   |
| EN 10219/10210 | S235, S275, S355       | 135 x 135 x 2.5 to 12.7 mm | 100 x 250 x 3 to 12.7 mm   |
|                | G40.20-13              | 150 x 150 x 3 to 12.7 mm   | 100 x 300 x 3 to 12.7 mm   |
|                | G40.21-13              | 160 x 160 x 3 to 12.7 mm   | 120 x 200 x 3 to 12.7 mm   |
|                |                        | 180 x 180 x 3 to 12.7 mm   | 120 x 240 x 3 to 12.7 mm   |
|                |                        | 190 x 190 x 3 to 12.7 mm   | 150 x 200 x 3 to 12.7 mm   |
|                |                        | 200 x 200 x 4 to 12.7 mm   | 150 x 250 x 4 to 12.7 mm   |
|                |                        | 220 x 220 x 4 to 12.7 mm   | 150 x 300 x 4 to 12.7 mm   |
|                |                        | 250 x 250 x 4 to 12.7 mm   | 200 x 300 x 4 to 12.7 mm   |
|                |                        | 280 x 280 x 4 to 12.7 mm   | 200 x 400 x 4 to 12.7 mm   |
|                |                        | 300 x 300 x 4 to 12.7 mm   | 300 x 400 x 4 to 12.7 mm   |
|                |                        | 350 x 350 x 4 to 12.7 mm   | 250 x 450 x 4 to 12.7 mm   |

## Information on Specification, Grades & Sizes Covered in DFT

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

# Circular Hollow Sections (CHS)

## • Introduction

The most versatile product, our Circular Steel Hollow Sections are made by ERW process using high quality steel HR coils. Having the widest range of sizes ranging from **12.7 OD to 610 OD** with thickness up to 12.7mm, MKK continually works on developing unique sizes for special applications.



### Yield Strength

170 MPa  
to 800 MPa



### Certified by BIS ISI Mark

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



### In-house Quality Checks

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

## • Applications



Airport Terminals,  
Aero-bridges and  
Metro Stations



Bus Bodies and  
Automobile  
Industries



Transmission  
Line Towers



Industrial and  
Commercial Shed  
Structures



Lifting and  
Excavation  
Industries



Highway  
Cantilever  
Structures

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

| NOMINAL BORE & SERIES |        | OUTER DIAMETER |       |       | WALL THICKNESS |     | NOMINAL MASS OF STEEL TUBES PLAIN END |       |         |        |
|-----------------------|--------|----------------|-------|-------|----------------|-----|---------------------------------------|-------|---------|--------|
| mm                    | in     | Max            | Mean  | Min   | mm             | swg | kg/mtr                                | mts/t | kgs/20' | pcs/mt |
| 15                    | 1/2"   | 21.7           | 21.3  | 20.5  | 2.0            | 14  | 0.95                                  | 1053  | 5.8     | 173    |
| 15                    | 1/2"   | 21.7           | 21.3  | 20.5  | 2.5            | 12  | 1.16                                  | 862   | 7.1     | 141    |
| 15                    | 1/2"   | 21.7           | 21.3  | 20.5  | 3.0            | 11  | 1.35                                  | 741   | 8.2     | 122    |
| 20                    | 3/4"   | 27.3           | 26.9  | 26.1  | 2.0            | 14  | 1.23                                  | 813   | 7.5     | 133    |
| 20                    | 3/4"   | 27.3           | 26.9  | 26.1  | 2.5            | 12  | 1.50                                  | 667   | 9.1     | 109    |
| 20                    | 3/4"   | 27.3           | 26.9  | 26.1  | 3.0            | 11  | 1.77                                  | 565   | 10.8    | 93     |
| 25                    | 1"     | 34.1           | 33.7  | 32.9  | 2.0            | 14  | 1.56                                  | 641   | 9.5     | 105    |
| 25                    | 1"     | 34.1           | 33.7  | 32.9  | 2.5            | 12  | 1.92                                  | 521   | 11.7    | 85     |
| 25                    | 1"     | 34.1           | 33.7  | 32.9  | 3.0            | 11  | 2.27                                  | 441   | 13.8    | 72     |
| 32                    | 1.1/4" | 42.8           | 42.4  | 41.6  | 2.0            | 14  | 1.99                                  | 503   | 12.1    | 82     |
| 32                    | 1.1/4" | 42.8           | 42.4  | 41.6  | 2.5            | 12  | 2.46                                  | 407   | 15.0    | 67     |
| 32                    | 1.1/4" | 42.8           | 42.4  | 41.6  | 3.0            | 11  | 2.91                                  | 344   | 17.7    | 56     |
| 32                    | 1.1/4" | 42.8           | 42.4  | 41.6  | 4.0            | 8   | 3.79                                  | 264   | 23.1    | 43     |
| 40                    | 1.1/2" | 48.7           | 48.3  | 47.5  | 2.0            | 14  | 2.28                                  | 439   | 13.9    | 72     |
| 40                    | 1.1/2" | 48.7           | 48.3  | 47.5  | 2.5            | 12  | 2.82                                  | 355   | 17.2    | 58     |
| 40                    | 1.1/2" | 48.7           | 48.3  | 47.5  | 3.0            | 11  | 3.35                                  | 299   | 20.4    | 49     |
| 40                    | 1.1/2" | 48.7           | 48.3  | 47.5  | 4.0            | 8   | 4.37                                  | 229   | 26.6    | 38     |
| 40                    | 1.1/2" | 48.7           | 48.3  | 47.5  | 5.0            | 6   | 5.34                                  | 187   | 32.6    | 31     |
| 50                    | 2"     | 60.9           | 60.3  | 59.7  | 2.0            | 14  | 2.88                                  | 347   | 17.6    | 57     |
| 50                    | 2"     | 60.9           | 60.3  | 59.7  | 2.5            | 12  | 3.56                                  | 281   | 21.7    | 46     |
| 50                    | 2"     | 60.9           | 60.3  | 59.7  | 3.0            | 11  | 4.24                                  | 236   | 25.8    | 39     |
| 50                    | 2"     | 60.9           | 60.3  | 59.7  | 4.0            | 8   | 5.55                                  | 180   | 33.8    | 30     |
| 50                    | 2"     | 60.9           | 60.3  | 59.7  | 5.0            | 6   | 6.82                                  | 147   | 41.6    | 24     |
| 65                    | 2.1/2" | 76.9           | 76.1  | 75.3  | 2.0            | 14  | 3.65                                  | 274   | 22.3    | 45     |
| 65                    | 2.1/2" | 76.9           | 76.1  | 75.3  | 2.5            | 12  | 4.54                                  | 220   | 27.7    | 36     |
| 65                    | 2.1/2" | 76.9           | 76.1  | 75.3  | 3.0            | 11  | 5.41                                  | 185   | 33.0    | 30     |
| 65                    | 2.1/2" | 76.9           | 76.1  | 75.3  | 4.0            | 8   | 7.11                                  | 141   | 43.3    | 23     |
| 65                    | 2.1/2" | 76.9           | 76.1  | 75.3  | 5.0            | 6   | 8.77                                  | 114   | 53.5    | 19     |
| 65                    | 2.1/2" | 76.9           | 76.1  | 75.3  | 6.0            | 4   | 10.37                                 | 96    | 63.2    | 16     |
| 65                    | 2.1/2" | 76.9           | 76.1  | 75.3  | 6.3            | 3   | 10.84                                 | 92    | 66.1    | 15     |
| 80                    | 3"     | 89.8           | 88.9  | 88.0  | 2.0            | 14  | 4.29                                  | 233   | 26.2    | 38     |
| 80                    | 3"     | 89.8           | 88.9  | 88.0  | 2.5            | 12  | 5.33                                  | 188   | 32.5    | 31     |
| 80                    | 3"     | 89.8           | 88.9  | 88.0  | 3.0            | 11  | 6.36                                  | 157   | 38.8    | 26     |
| 80                    | 3"     | 89.8           | 88.9  | 88.0  | 4.0            | 8   | 8.38                                  | 119   | 51.1    | 20     |
| 80                    | 3"     | 89.8           | 88.9  | 88.0  | 5.0            | 6   | 10.35                                 | 97    | 63.1    | 16     |
| 80                    | 3"     | 89.8           | 88.9  | 88.0  | 6.0            | 4   | 12.27                                 | 81    | 74.8    | 13     |
| 80                    | 3"     | 89.8           | 88.9  | 88.0  | 6.3            | 3   | 12.83                                 | 78    | 78.2    | 13     |
| 90                    | 3.1/2" | 102.6          | 101.6 | 100.6 | 2.0            | 14  | 4.91                                  | 204   | 29.9    | 33     |
| 90                    | 3.1/2" | 102.6          | 101.6 | 100.6 | 2.5            | 12  | 6.11                                  | 164   | 37.2    | 27     |
| 90                    | 3.1/2" | 102.6          | 101.6 | 100.6 | 3.0            | 11  | 7.29                                  | 137   | 44.4    | 23     |
| 90                    | 3.1/2" | 102.6          | 101.6 | 100.6 | 4.0            | 8   | 9.63                                  | 104   | 58.7    | 17     |
| 90                    | 3.1/2" | 102.6          | 101.6 | 100.6 | 5.0            | 6   | 11.91                                 | 84    | 72.6    | 14     |
| 90                    | 3.1/2" | 102.6          | 101.6 | 100.6 | 6.0            | 4   | 14.15                                 | 71    | 86.3    | 12     |
| 90                    | 3.1/2" | 102.6          | 101.6 | 100.6 | 6.3            | 3   | 14.81                                 | 68    | 90.3    | 11     |

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

| NOMINAL BORE & SERIES |        | OUTER DIAMETER |       |       | WALL THICKNESS |     | NOMINAL MASS OF STEEL TUBES PLAIN END |       |         |        |
|-----------------------|--------|----------------|-------|-------|----------------|-----|---------------------------------------|-------|---------|--------|
| mm                    | in     | Max            | Mean  | Min   | mm             | swg | kg/mtr                                | mts/t | kgs/20' | pcs/mt |
| 100                   | 4"     | 115.4          | 114.3 | 113.2 | 2.5            | 12  | 6.89                                  | 145   | 42.0    | 24     |
| 100                   | 4"     | 115.4          | 114.3 | 113.2 | 3.0            | 11  | 8.23                                  | 122   | 50.2    | 20     |
| 100                   | 4"     | 115.4          | 114.3 | 113.2 | 4.0            | 8   | 10.88                                 | 92    | 66.3    | 15     |
| 100                   | 4"     | 115.4          | 114.3 | 113.2 | 5.0            | 6   | 13.48                                 | 74    | 82.2    | 12     |
| 100                   | 4"     | 115.4          | 114.3 | 113.2 | 6.0            | 4   | 16.03                                 | 62    | 97.7    | 10     |
| 100                   | 4"     | 115.4          | 114.3 | 113.2 | 6.3            | 3   | 16.78                                 | 60    | 102.3   | 10     |
| 100                   | 4"     | 115.4          | 114.3 | 113.2 | 8.0            | 0   | 20.97                                 | 48    | 127.8   | 8      |
| 110                   | 4.1/4" | 128.3          | 127.0 | 125.7 | 2.9            | 11  | 8.88                                  | 113   | 54.1    | 18     |
| 110                   | 4.1/4" | 128.3          | 127.0 | 125.7 | 3.2            | 10  | 9.77                                  | 102   | 59.6    | 17     |
| 110                   | 4.1/4" | 128.3          | 127.0 | 125.7 | 3.6            | 9   | 10.96                                 | 91    | 66.8    | 15     |
| 110                   | 4.1/4" | 128.3          | 127.0 | 125.7 | 4.0            | 8   | 12.13                                 | 82    | 73.9    | 14     |
| 110                   | 4.1/4" | 128.3          | 127.0 | 125.7 | 5.0            | 6   | 15.04                                 | 66    | 91.7    | 11     |
| 110                   | 4.1/4" | 128.3          | 127.0 | 125.7 | 6.0            | 4   | 17.90                                 | 56    | 109.1   | 9      |
| 110                   | 4.1/4" | 128.3          | 127.0 | 125.7 | 6.3            | 3   | 18.75                                 | 53    | 114.3   | 9      |
| 125                   | 5"     | 141.1          | 139.7 | 138.3 | 3.0            | 11  | 10.11                                 | 99    | 61.6    | 16     |
| 125                   | 5"     | 141.1          | 139.7 | 138.3 | 4.0            | 8   | 13.39                                 | 75    | 81.6    | 12     |
| 125                   | 5"     | 141.1          | 139.7 | 138.3 | 5.0            | 6   | 16.61                                 | 60    | 101.3   | 10     |
| 125                   | 5"     | 141.1          | 139.7 | 138.3 | 6.0            | 4   | 19.78                                 | 51    | 120.6   | 8      |
| 125                   | 5"     | 141.1          | 139.7 | 138.3 | 6.3            | 3   | 20.73                                 | 48    | 126.4   | 8      |
| 125                   | 5"     | 141.1          | 139.7 | 138.3 | 8.0            | 0   | 25.98                                 | 38    | 158.4   | 6      |
| 125                   | 5"     | 141.1          | 139.7 | 138.3 | 10.0           | 0   | 31.99                                 | 31    | 195.0   | 5      |
| 135                   | 5.1/4" | 153.9          | 152.4 | 150.9 | 3.0            | 11  | 11.05                                 | 90    | 67.4    | 15     |
| 135                   | 5.1/4" | 153.9          | 152.4 | 150.9 | 4.0            | 8   | 14.64                                 | 68    | 89.2    | 11     |
| 135                   | 5.1/4" | 153.9          | 152.4 | 150.9 | 5.0            | 6   | 18.18                                 | 55    | 110.8   | 9      |
| 135                   | 5.1/4" | 153.9          | 152.4 | 150.9 | 6.0            | 4   | 21.66                                 | 46    | 132.0   | 8      |
| 135                   | 5.1/4" | 153.9          | 152.4 | 150.9 | 6.3            | 3   | 22.70                                 | 44    | 138.4   | 7      |
| 135                   | 5.1/4" | 153.9          | 152.4 | 150.9 | 8.0            | 0   | 28.49                                 | 35    | 173.7   | 6      |
| 135                   | 5.1/4" | 153.9          | 152.4 | 150.9 | 10.0           | 0   | 35.12                                 | 28    | 214.1   | 5      |
| 150                   | 6"     | 166.8          | 165.1 | 163.4 | 3.0            | 11  | 11.99                                 | 83    | 73.1    | 14     |
| 150                   | 6"     | 166.8          | 165.1 | 163.4 | 4.0            | 8   | 15.89                                 | 63    | 96.9    | 10     |
| 150                   | 6"     | 166.8          | 165.1 | 163.4 | 5.0            | 6   | 19.74                                 | 51    | 120.3   | 8      |
| 150                   | 6"     | 166.8          | 165.1 | 163.4 | 6.0            | 4   | 23.54                                 | 42    | 143.5   | 7      |
| 150                   | 6"     | 166.8          | 165.1 | 163.4 | 6.3            | 3   | 24.67                                 | 41    | 150.4   | 7      |
| 150                   | 6"     | 166.8          | 165.1 | 163.4 | 8.0            | 0   | 30.99                                 | 32    | 188.9   | 5      |
| 150                   | 6"     | 170.0          | 168.3 | 166.6 | 3.0            | 11  | 12.23                                 | 82    | 74.6    | 13     |
| 150                   | 6"     | 170.0          | 168.3 | 166.6 | 4.0            | 8   | 16.21                                 | 62    | 98.8    | 10     |
| 150                   | 6"     | 170.0          | 168.3 | 166.6 | 5.0            | 6   | 20.14                                 | 50    | 122.8   | 8      |
| 150                   | 6"     | 170.0          | 168.3 | 166.6 | 6.0            | 4   | 24.02                                 | 42    | 146.4   | 7      |
| 150                   | 6"     | 170.0          | 168.3 | 166.6 | 6.3            | 3   | 25.17                                 | 40    | 153.4   | 7      |
| 150                   | 6"     | 170.0          | 168.3 | 166.6 | 8.0            | 0   | 31.63                                 | 32    | 192.8   | 5      |
| 150                   | 6"     | 170.0          | 168.3 | 166.6 | 10.0           | 0   | 39.04                                 | 26    | 238.0   | 4      |
| 170                   | 6.3/4" | 179.6          | 177.8 | 176.0 | 4.0            | 8   | 17.14                                 | 58    | 104.5   | 10     |
| 170                   | 6.3/4" | 179.6          | 177.8 | 176.0 | 5.0            | 6   | 21.31                                 | 47    | 129.9   | 8      |
| 170                   | 6.3/4" | 179.6          | 177.8 | 176.0 | 6.0            | 4   | 25.42                                 | 39    | 155.0   | 6      |

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

| NOMINAL BORE & SERIES |        | OUTER DIAMETER |       |       | WALL THICKNESS |     | NOMINAL MASS OF STEEL TUBES PLAIN END |       |         |        |
|-----------------------|--------|----------------|-------|-------|----------------|-----|---------------------------------------|-------|---------|--------|
| mm                    | in     | Max            | Mean  | Min   | mm             | swg | kg/mtr                                | mts/t | kgs/20' | pcs/mt |
| 170                   | 6.3/4" | 179.6          | 177.8 | 176.0 | 6.3            | 3   | 26.65                                 | 38    | 162.5   | 6      |
| 170                   | 6.3/4" | 179.6          | 177.8 | 176.0 | 8.0            | 0   | 33.50                                 | 30    | 204.2   | 5      |
| 170                   | 6.3/4" | 179.6          | 177.8 | 176.0 | 10.0           | 0   | 41.38                                 | 24    | 252.3   | 4      |
| 170                   | 6.3/4" | 179.6          | 177.8 | 176.0 | 12.0           | 0   | 49.07                                 | 20    | 299.1   | 3      |
| 170                   | 6.3/4" | 179.6          | 177.8 | 176.0 | 12.5           | 0   | 50.96                                 | 20    | 310.7   | 3      |
| 175                   | 7"     | 195.6          | 193.7 | 191.8 | 4.0            | 8   | 18.71                                 | 53    | 114.1   | 9      |
| 175                   | 7"     | 195.6          | 193.7 | 191.8 | 5.0            | 6   | 23.27                                 | 43    | 141.9   | 7      |
| 175                   | 7"     | 195.6          | 193.7 | 191.8 | 6.0            | 4   | 27.77                                 | 36    | 169.3   | 6      |
| 175                   | 7"     | 195.6          | 193.7 | 191.8 | 6.3            | 3   | 29.12                                 | 34    | 177.5   | 6      |
| 175                   | 7"     | 195.6          | 193.7 | 191.8 | 8.0            | 0   | 36.64                                 | 27    | 223.4   | 4      |
| 175                   | 7"     | 195.6          | 193.7 | 191.8 | 10.0           | 0   | 45.30                                 | 22    | 276.1   | 4      |
| 175                   | 7"     | 195.6          | 193.7 | 191.8 | 12.0           | 0   | 53.77                                 | 19    | 327.8   | 3      |
| 175                   | 7"     | 195.6          | 193.7 | 191.8 | 12.5           | 0   | 55.86                                 | 18    | 340.5   | 3      |
| 200                   | 8"     | 221.3          | 219.1 | 216.9 | 4.0            | 8   | 21.22                                 | 47    | 129.4   | 8      |
| 200                   | 8"     | 221.3          | 219.1 | 216.9 | 5.0            | 6   | 26.40                                 | 38    | 160.9   | 6      |
| 200                   | 8"     | 221.3          | 219.1 | 216.9 | 6.0            | 4   | 31.53                                 | 32    | 192.2   | 5      |
| 200                   | 8"     | 221.3          | 219.1 | 216.9 | 6.3            | 3   | 33.06                                 | 30    | 201.5   | 5      |
| 200                   | 8"     | 221.3          | 219.1 | 216.9 | 8.0            | 0   | 41.65                                 | 24    | 253.9   | 4      |
| 200                   | 8"     | 221.3          | 219.1 | 216.9 | 10.0           | 0   | 51.57                                 | 19    | 314.4   | 3      |
| 200                   | 8"     | 221.3          | 219.1 | 216.9 | 12.0           | 0   | 61.29                                 | 16    | 373.6   | 3      |
| 200                   | 8"     | 221.3          | 219.1 | 216.9 | 12.5           | 0   | 63.69                                 | 16    | 388.3   | 3      |
| 225                   | 9"     | 246.9          | 244.5 | 242.1 | 5.0            | 6   | 29.53                                 | 34    | 180.0   | 6      |
| 225                   | 9"     | 246.9          | 244.5 | 242.1 | 6.0            | 4   | 35.29                                 | 28    | 215.1   | 5      |
| 225                   | 9"     | 246.9          | 244.5 | 242.1 | 6.3            | 3   | 37.01                                 | 27    | 225.6   | 4      |
| 225                   | 9"     | 246.9          | 244.5 | 242.1 | 8.0            | 0   | 46.66                                 | 21    | 284.4   | 4      |
| 225                   | 9"     | 246.9          | 244.5 | 242.1 | 10.0           | 0   | 57.83                                 | 17    | 352.5   | 3      |
| 225                   | 9"     | 246.9          | 244.5 | 242.1 | 12.0           | 0   | 68.81                                 | 15    | 419.5   | 2      |
| 225                   | 9"     | 246.9          | 244.5 | 242.1 | 12.5           | 0   | 71.52                                 | 14    | 436.0   | 2      |
| 250                   | 10"    | 275.7          | 273.0 | 270.3 | 5.0            | 6   | 33.05                                 | 30    | 201.5   | 5      |
| 250                   | 10"    | 275.7          | 273.0 | 270.3 | 6.0            | 4   | 39.51                                 | 25    | 240.9   | 4      |
| 250                   | 10"    | 275.7          | 273.0 | 270.3 | 6.3            | 3   | 41.44                                 | 24    | 252.6   | 4      |
| 250                   | 10"    | 275.7          | 273.0 | 270.3 | 8.0            | 0   | 52.28                                 | 19    | 318.7   | 3      |
| 250                   | 10"    | 275.7          | 273.0 | 270.3 | 10.0           | 0   | 64.86                                 | 15    | 395.4   | 3      |
| 250                   | 10"    | 275.7          | 273.0 | 270.3 | 12.0           | 0   | 77.24                                 | 13    | 470.9   | 2      |
| 300                   | 12"    | 327.1          | 323.9 | 320.7 | 6.0            | 4   | 47.04                                 | 21    | 286.8   | 3      |
| 300                   | 12"    | 327.1          | 323.9 | 320.7 | 6.3            | 3   | 49.34                                 | 20    | 300.8   | 3      |
| 300                   | 12"    | 327.1          | 323.9 | 320.7 | 8.0            | 0   | 62.32                                 | 16    | 379.9   | 3      |
| 300                   | 12"    | 327.1          | 323.9 | 320.7 | 10.0           | 0   | 77.41                                 | 13    | 471.9   | 2      |
| 300                   | 12"    | 327.1          | 323.9 | 320.7 | 12.0           | 0   | 92.30                                 | 11    | 562.7   | 2      |
| 300                   | 12"    | 327.1          | 323.9 | 320.7 | 12.5           | 0   | 95.99                                 | 10    | 585.2   | 2      |
| 350                   | 14"    | 359.2          | 355.6 | 352.0 | 5.0            | 6   | 43.23                                 | 23    | 263.5   | 4      |
| 350                   | 14"    | 359.2          | 355.6 | 352.0 | 6.0            | 4   | 51.73                                 | 19    | 315.3   | 3      |
| 350                   | 14"    | 359.2          | 355.6 | 352.0 | 6.3            | 3   | 54.27                                 | 18    | 330.8   | 3      |
| 350                   | 14"    | 359.2          | 355.6 | 352.0 | 8.0            | 0   | 68.58                                 | 15    | 418.1   | 2      |

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

| NOMINAL BORE & SERIES |     | OUTER DIAMETER |       |       | WALL THICKNESS |     | NOMINAL MASS OF STEEL TUBES PLAIN END |       |         |        |
|-----------------------|-----|----------------|-------|-------|----------------|-----|---------------------------------------|-------|---------|--------|
| mm                    | in  | Max            | Mean  | Min   | mm             | swg | kg/mtr                                | mts/t | kgs/20' | pcs/mt |
| 350                   | 14" | 359.2          | 355.6 | 352.0 | 10.0           | 0   | 85.23                                 | 12    | 519.6   | 2      |
| 350                   | 14" | 359.2          | 355.6 | 352.0 | 12.0           | 0   | 101.68                                | 10    | 619.8   | 2      |
| 350                   | 14" | 359.2          | 355.6 | 352.0 | 12.5           | 0   | 105.77                                | 9     | 644.8   | 2      |
| 400                   | 16" | 410.5          | 406.4 | 402.3 | 6.0            | 4   | 59.25                                 | 17    | 361.2   | 3      |
| 400                   | 16" | 410.5          | 406.4 | 402.3 | 6.3            | 3   | 62.16                                 | 16    | 378.9   | 3      |
| 400                   | 16" | 410.5          | 406.4 | 402.3 | 8.0            | 0   | 78.60                                 | 13    | 479.1   | 2      |
| 400                   | 16" | 410.5          | 406.4 | 402.3 | 10.0           | 0   | 97.76                                 | 10    | 595.9   | 2      |
| 400                   | 16" | 410.5          | 406.4 | 402.3 | 12.0           | 0   | 116.72                                | 9     | 711.5   | 1      |
| 400                   | 16" | 410.5          | 406.4 | 402.3 | 12.5           | 0   | 121.43                                | 8     | 740.2   | 1      |
| 450                   | 18" | 461.6          | 457.0 | 452.4 | 6.0            | 4   | 66.73                                 | 15    | 406.8   | 2      |
| 450                   | 18" | 461.6          | 457.0 | 452.4 | 6.3            | 3   | 70.02                                 | 14    | 426.8   | 2      |
| 450                   | 18" | 461.6          | 457.0 | 452.4 | 8.0            | 0   | 88.58                                 | 11    | 540.0   | 2      |
| 450                   | 18" | 461.6          | 457.0 | 452.4 | 10.0           | 0   | 110.24                                | 9     | 672.0   | 1      |
| 450                   | 18" | 461.6          | 457.0 | 452.4 | 12.0           | 0   | 131.69                                | 8     | 802.8   | 1      |
| 450                   | 18" | 461.6          | 457.0 | 452.4 | 12.5           | 0   | 137.03                                | 7     | 835.3   | 1      |
| 500                   | 20" | 513.1          | 508.0 | 502.9 | 6.0            | 4   | 74.28                                 | 13    | 452.8   | 2      |
| 500                   | 20" | 513.1          | 508.0 | 502.9 | 6.3            | 3   | 77.95                                 | 13    | 475.2   | 2      |
| 500                   | 20" | 513.1          | 508.0 | 502.9 | 8.0            | 0   | 98.65                                 | 10    | 601.4   | 2      |
| 500                   | 20" | 513.1          | 508.0 | 502.9 | 10.0           | 0   | 122.81                                | 8     | 748.6   | 1      |
| 500                   | 20" | 513.1          | 508.0 | 502.9 | 12.0           | 0   | 146.79                                | 7     | 894.8   | 1      |
| 500                   | 20" | 513.1          | 508.0 | 502.9 | 12.5           | 0   | 152.75                                | 7     | 931.2   | 1      |
| 600                   | 24" | 616.1          | 610.0 | 603.9 | 6.0            | 4   | 89.37                                 | 11    | 544.8   | 2      |
| 600                   | 24" | 616.1          | 610.0 | 603.9 | 6.3            | 3   | 93.80                                 | 11    | 571.8   | 2      |
| 600                   | 24" | 616.1          | 610.0 | 603.9 | 8.0            | 0   | 118.77                                | 8     | 724.0   | 1      |
| 600                   | 24" | 616.1          | 610.0 | 603.9 | 10.0           | 0   | 147.97                                | 7     | 902.0   | 1      |
| 600                   | 24" | 616.1          | 610.0 | 603.9 | 12.0           | 0   | 176.97                                | 6     | 1078.8  | 1      |
| 600                   | 24" | 616.1          | 610.0 | 603.9 | 12.5           | 0   | 184.19                                | 5     | 1122.8  | 1      |

**Following Manufacturing Tolerance shall be permitted on Thickness and Mass**

|                                                                                                                                                                                  |                                            |                                                           |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------|-----------------------------------------------------------|
| Outside dimensions of sides :<br>Upto & Including 48.3 mm : +0.4 / -0.8 mm<br>Over 48.3 mm : $\pm 1$ percent of length of the side to be measured with a minimum of $\pm 0.5$ mm | Thickness for all Sizes :<br>$\pm 10\%$    | Length<br>(unless otherwise specified)<br>: 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/<br>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/<br>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/<br>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/<br>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        |

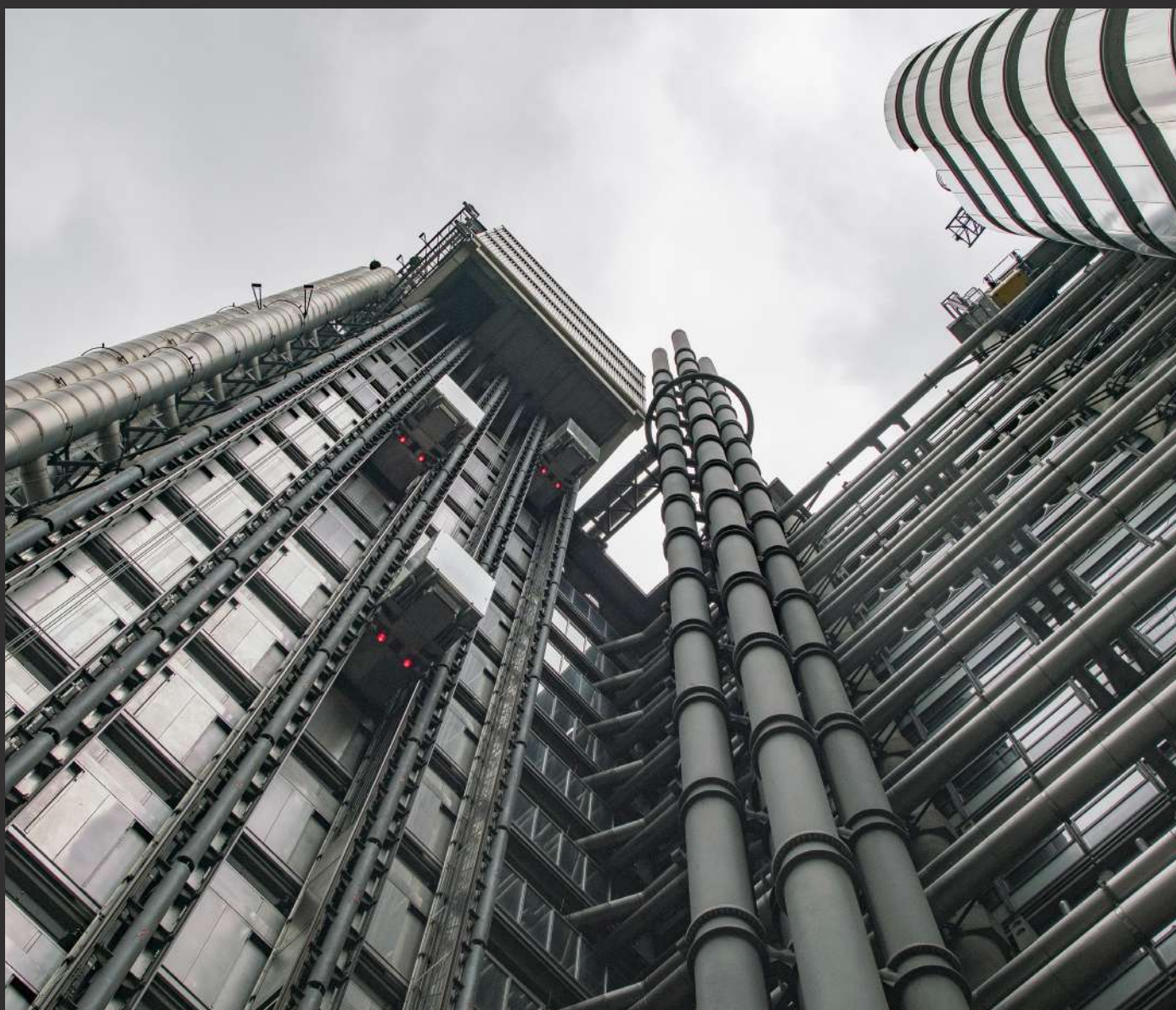
**TECHNICAL DATA FOR STEEL TUBES FOR MECHANICAL & GENERAL ENGINEERING PURPOSES  
CONFIRMING TO IS:3601 - 2006**

| OUTSIDE DIAMETER |       |        | WALL THICKNESS |     | NOMINAL MASS OF STEEL TUBES |                |         |          |
|------------------|-------|--------|----------------|-----|-----------------------------|----------------|---------|----------|
|                  |       |        |                |     | PLAIN END                   |                |         |          |
| Max              | Mean  | Min    | mm             | SWG | KG/MTR                      | Mtrs/<br>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.



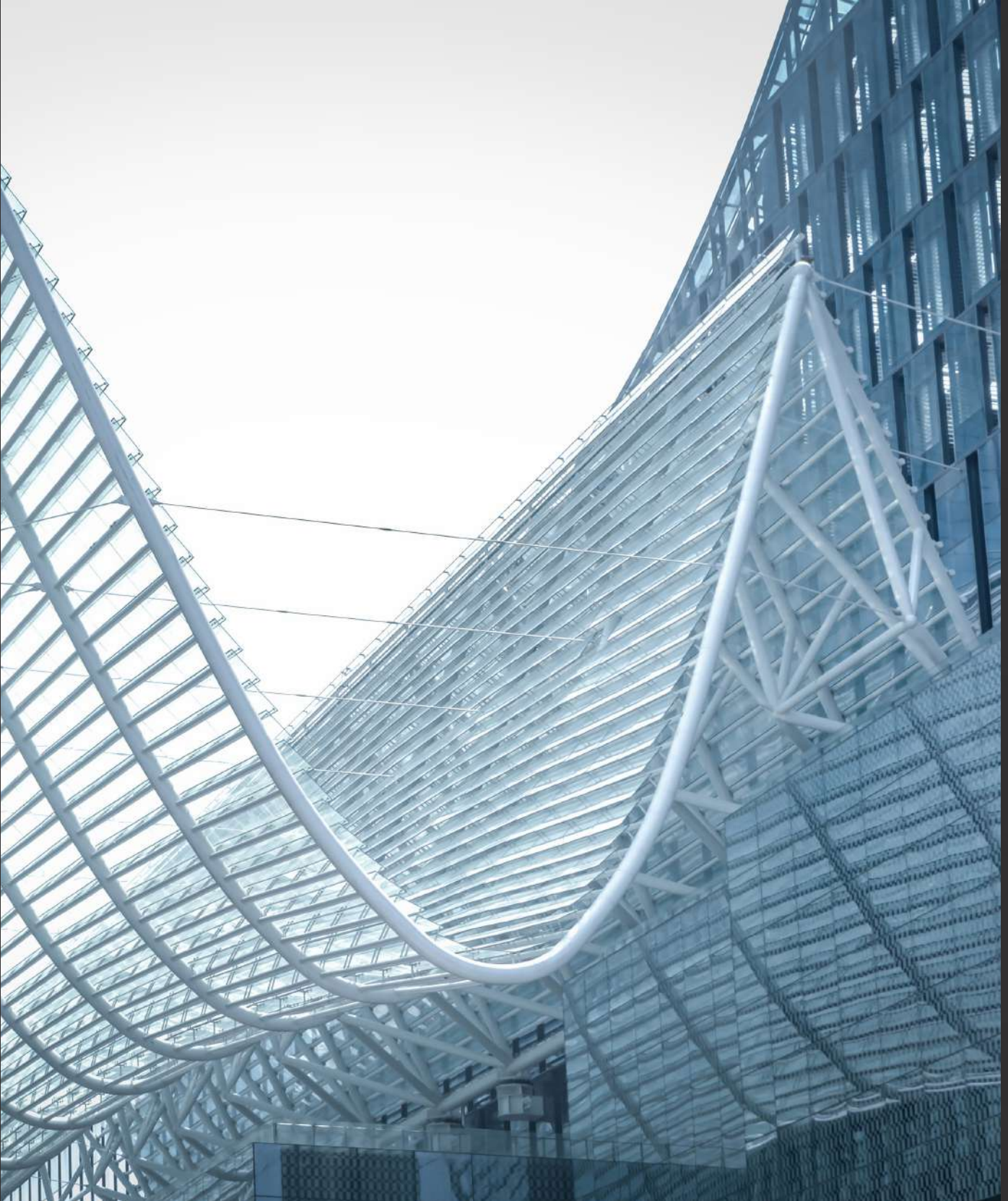
**TECHNICAL DATA FOR STEEL PIPES FOR WATER AND SEWAGE,  
CONFORMING TO IS:3589 - 2001**

| 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  $\pm 10$  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<br>BORE & SERIES | OUTER DIAMETER |       |       | WALL<br>THICKNESS |     | NOMINAL MASS OF STEEL TUBES<br>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 :<br>± 1 percent of length of the side to be measured with a minimum of ± 0.5 mm | Thickness for all Sizes :<br>± 7.5 percent  | Squareness of Corner :<br>90° ± 2° | Radii of Outside Corners :<br>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 :<br>± 1 percent of length of the side to be measured with a minimum of ± 0.5 mm | Thickness for all Sizes :<br>± 10 percent   | Squareness of Corner :<br>90° ± 2° | Radii of Outside Corners :<br>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.**

[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 :<br>± 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 :<br>3t max, where t is the thickness of section                                    | Weight:<br>± 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 :<br>± 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:<br>± 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  $\mu$ m - 150  $\mu$ m



### 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)

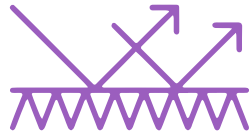
# We have an in-house Galvanising Plant

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<br>BORE & CLASS |       | OUTSIDE<br>DIAMETER |       |       | WALL<br>THICKNESS |     | BLACK TUBE |       |                       |        | GALVANIZED TUBE |       |                       |            | SOCKET    |               |
|-------------------------|-------|---------------------|-------|-------|-------------------|-----|------------|-------|-----------------------|--------|-----------------|-------|-----------------------|------------|-----------|---------------|
|                         |       |                     |       |       |                   |     | Plain End  |       | Screwed &<br>Socketed |        | Plain End       |       | Screwed &<br>Socketed |            | Min<br>OD | Min<br>Length |
| mm/in                   | Class | Max                 | Mean  | Min   | mm                | swg | kg/<br>mtr | mts/t | kgs/20'               | pcs/mt | kg/<br>mtr      | mts/t | kgs/20'               | pcs/<br>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<br>Single Tube | Mass<br>Per Load of 10T Min | Length<br>Unless Otherwise<br>Specified | Hydrostatic Test<br>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

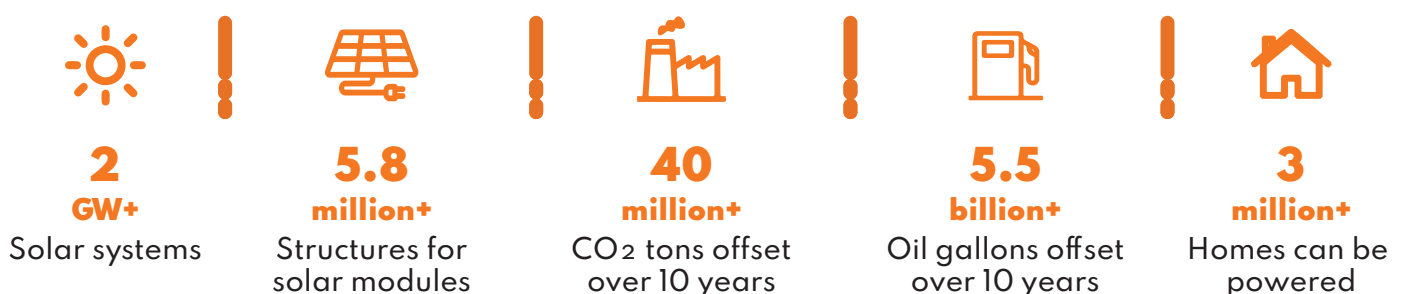
Today, being environmentally conscious and reducing our carbon footprints is the only way to go forward. With our ENVIRON range of products, METPRO is trying to do its part in maintaining a cleaner and greener Earth.

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**



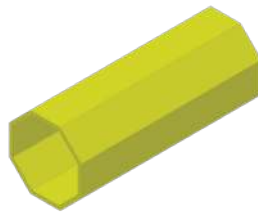
From receiving complex designs, to challenging specifications  
**MKK has been able to deliver  
what the world needs.**

## TORQUE TUBES •

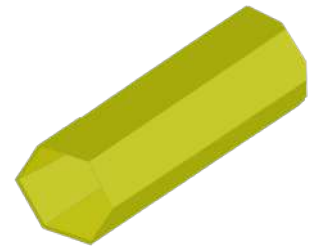
SQUARE



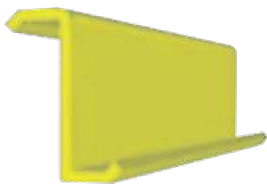
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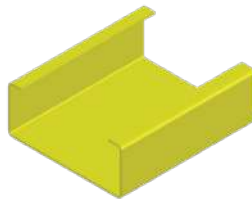
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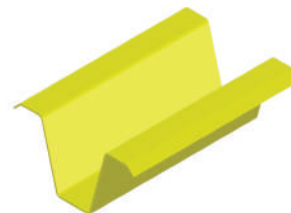
Z SECTIONS



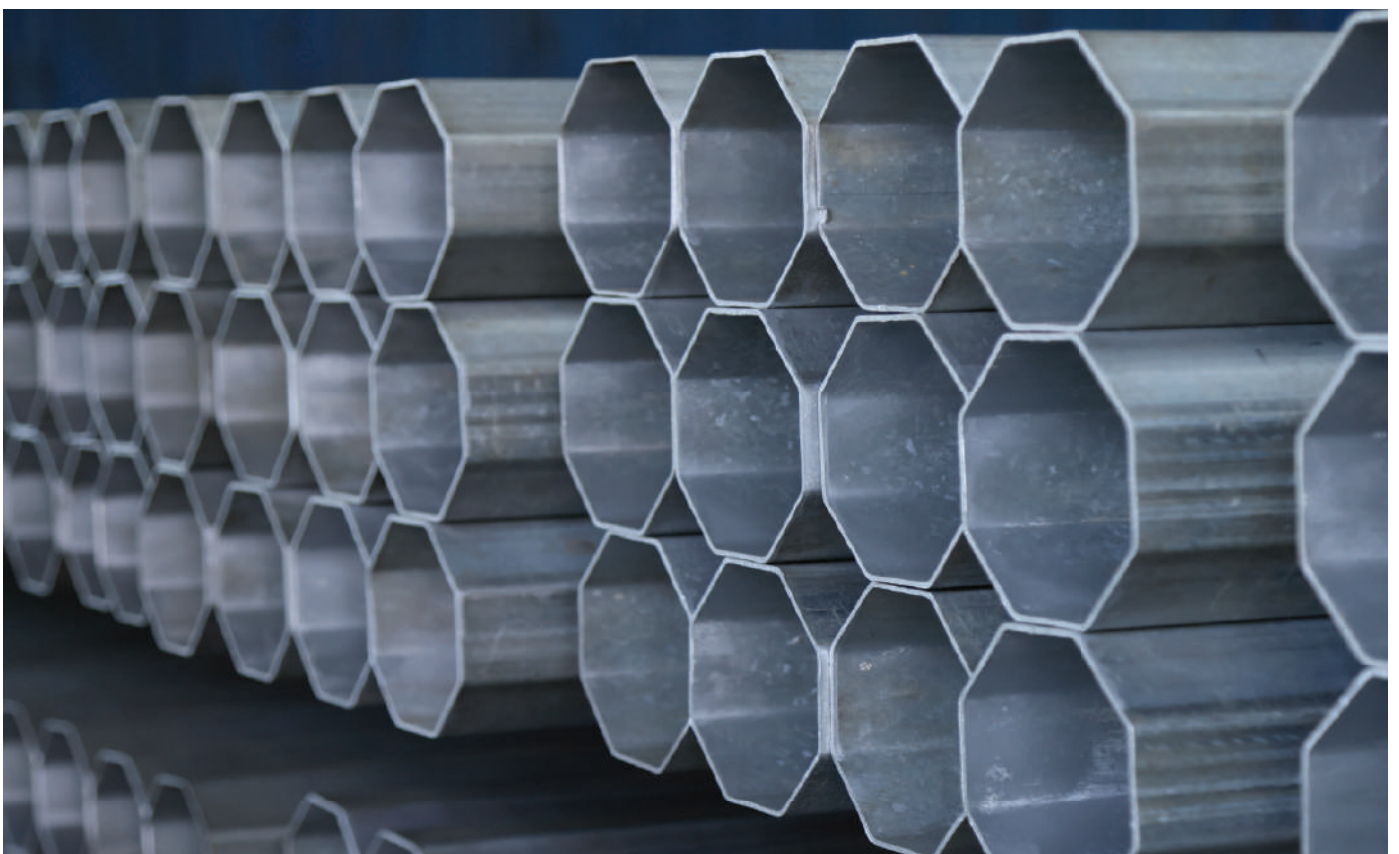
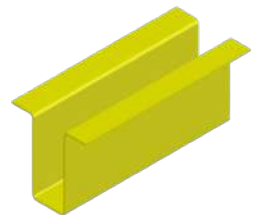
C & U SECTIONS



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**



DNV

# CERTIFICATE OF CONFORMITY OF THE FACTORY PRODUCTION CONTROL

Certificate No.: 2388-CPR-24-0428 Rev. 0.0

Initial certification date: 11-01-2024

Validity end date: 11-01-2027

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 - S106, 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 - S106, SIPCOT Phase III, Mukundarayapuram Post, Ranipet Dist-632405, Tamilnadu, India

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

**EN 10210-1:2006**

under system 2+ are applied and that

**THE FACTORY PRODUCTION CONTROL IS ASSESSED TO BE IN CONFORMITY WITH THE APPLICABLE REQUIREMENTS**

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

For more details see Appendix accompanying this Certificate.

Place and date:  
Barendrecht, 11-01-2024

Check Validity



For the issuing office:  
Notified Body 2388, The Netherlands

Björn Spangenberg  
Management Representative

Look for full details of conditions as set out in the Certification Agreement under the Certificate number.

DNV & EN-CPR-05-Annex 1

NOTIFIED BODY 2388 DNV Business Assurance B.V., Zandweg 1, 2004 LB Barendrecht, The Netherlands, TEL: +31 10 2022 000 [www.dnv.com](http://www.dnv.com)

DNV

Certificate No.: 2388-CPR-24-0428 Rev. 0.0  
Place and date: Barendrecht, 11-01-2024

## Appendix to Certificate

### Certificate history:

| Revision | Description          | Issue Date |
|----------|----------------------|------------|
| 0.0      | Original Certificate | 2024-04-02 |

### Additional information to the scope of certificate

| Harmonised Standard | Steel grade & quality       | Shape                                          | Tolerances, Dimensions and Technical Properties | Thickness mm | Width mm     | Ø mm | Mark / Labeling |
|---------------------|-----------------------------|------------------------------------------------|-------------------------------------------------|--------------|--------------|------|-----------------|
| EN 10210-1:2006     | S235NL/S275NL/S235NL/S275NL | Hot finished welded hollow sections (series 1) | EN 10210-1:2006                                 | 2.0-12.7     | 31.30 ± 0.17 | -    | Mark & Labeling |
|                     | S235NL/S275NL/S235NL/S275NL | Hot finished welded hollow sections (series 2) |                                                 |              |              |      |                 |
| EN 10210-1:2006     | S235NL/S275NL/S235NL/S275NL | Hot finished welded hollow sections (series 3) | EN 10210-1:2006                                 | 2.0-12.7     | 40 ± 0.17    | -    | Mark & Labeling |
|                     | S235NL/S275NL/S235NL/S275NL | Hot finished welded hollow sections (series 4) |                                                 |              |              |      |                 |
| EN 10210-1:2006     | S235NL/S275NL/S235NL/S275NL | Hot finished welded hollow sections (series 5) | EN 10210-1:2006                                 | 2.0-12.7     | 30 ± 0.17    | -    | Mark & Labeling |
|                     | S235NL/S275NL/S235NL/S275NL | Hot finished welded hollow sections (series 6) |                                                 |              |              |      |                 |

### Declaration of performance and marking of product

When meeting with the terms and conditions, as required, the manufacturer shall draw up an EC declaration of product performance and legally affix the CE mark followed by the notified factory production control certification body identification number of DNV (2388).

End of Certificate

Look for full details of conditions as set out in the Certification Agreement under the Certificate number. DNV & EN-CPR-05-Annex 1  
NOTIFIED BODY 2388 DNV Business Assurance B.V., Zandweg 1, 2004 LB Barendrecht, The Netherlands, TEL: +31 10 2022 000 [www.dnv.com](http://www.dnv.com)

Page: 2 of 2

DNV

# CERTIFICATE OF CONFORMITY OF THE FACTORY PRODUCTION CONTROL

Certificate No.: 2388-CPR-24-0033 Rev. 0.0

Initial certification date: 02-08-2024

Validity end date: 02-08-2027

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)

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

placed on the market under the name or trademark of

**MKK METAL SECTIONS PRIVATE LIMITED**

Plot No M1 & S99 - S106, 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 - S106, SIPCOT Phase III, Mukundarayapuram Post, Ranipet Dist-632405, Tamilnadu, India

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

**EN 10210-1:2006**

under system 2+ are applied and that

**THE FACTORY PRODUCTION CONTROL IS ASSESSED TO BE IN CONFORMITY WITH THE APPLICABLE REQUIREMENTS**

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

For more details see Appendix accompanying this Certificate.

Place and date:  
Barendrecht, 02-08-2024

Check Validity



For the issuing office:  
Notified Body 2388, The Netherlands

Björn Spangenberg  
Management Representative

Look for full details of conditions as set out in the Certification Agreement under the Certificate number.

DNV & EN-CPR-05-Annex 1

NOTIFIED BODY 2388 DNV Business Assurance B.V., Zandweg 1, 2004 LB Barendrecht, The Netherlands, TEL: +31 10 2022 000 [www.dnv.com](http://www.dnv.com)

DNV

Certificate No.: 2388-CPR-24-0428 Rev. 0.0  
Place and date: Barendrecht, 11-01-2024

## Appendix to Certificate

### Certificate history:

| Revision | Description          | Issue Date |
|----------|----------------------|------------|
| 0.0      | Original Certificate | 2024-01-11 |

### Additional information to the scope of certificate

| Harmonised Standard | Steel grade & quality       | Shape                                          | Tolerances, Dimensions and Technical Properties | Thickness mm | Width mm     | Ø mm | Mark / Labeling |
|---------------------|-----------------------------|------------------------------------------------|-------------------------------------------------|--------------|--------------|------|-----------------|
| EN 10210-1:2006     | S235NL/S275NL/S235NL/S275NL | Hot finished welded hollow sections (series 1) | EN 10210-1:2006                                 | 2.0-12.7     | 31.30 ± 0.17 | -    | Mark & Labeling |
|                     | S235NL/S275NL/S235NL/S275NL | Hot finished welded hollow sections (series 2) |                                                 |              |              |      |                 |
| EN 10210-1:2006     | S235NL/S275NL/S235NL/S275NL | Hot finished welded hollow sections (series 3) | EN 10210-1:2006                                 | 2.0-12.7     | 40 ± 0.17    | -    | Mark & Labeling |
|                     | S235NL/S275NL/S235NL/S275NL | Hot finished welded hollow sections (series 4) |                                                 |              |              |      |                 |
| EN 10210-1:2006     | S235NL/S275NL/S235NL/S275NL | Hot finished welded hollow sections (series 5) | EN 10210-1:2006                                 | 2.0-12.7     | 30 ± 0.17    | -    | Mark & Labeling |
|                     | S235NL/S275NL/S235NL/S275NL | Hot finished welded hollow sections (series 6) |                                                 |              |              |      |                 |

### Declaration of performance and marking of product

When meeting with the terms and conditions, as required, the manufacturer shall draw up an EC declaration of product performance and legally affix the CE mark followed by the notified factory production control certification body identification number of DNV (2388).

End of Certificate

Look for full details of conditions as set out in the Certification Agreement under the Certificate number. DNV & EN-CPR-05-Annex 1  
NOTIFIED BODY 2388 DNV Business Assurance B.V., Zandweg 1, 2004 LB Barendrecht, The Netherlands, TEL: +31 10 2022 000 [www.dnv.com](http://www.dnv.com)

Page: 2 of 2

UNMATCHED QUALITY  
DULY CERTIFIED

MADE IN INDIA  
INDIA  
MADE IN INDIA



## CERTIFICATE OF FACTORY PRODUCTION CONTROL

Certificate No.: C658776 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 M1 & 599 - S108, SIPCOT Phase III, Mukundarayapuram Post, Ranipet Dist-632405, Tamilnadu, India

has on a voluntary basis been assessed with respect to the conformity assessment procedure "Factory Production Control" as described in EN 10255:2004+A1:2007 annex ZA Clause 12.3 of the standard on structural steel, as amended and found to comply

### Applications/Limitations

In compliance with the Construction Product Regulation 305/2011, CE marking & provide Declaration of Performance and Attestation procedure Annex 3, which is described in the Standard EN 10255:2004+A1:2007 according to the Annex ZA: Initial Type Testing (ITT) Clause 12.2 shall meet the requirements and compliance of the same rests under responsibility of the Manufacturer.

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

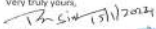
Place and date:  
**Ahmedabad; 10 January 2024**

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

**Manojkumar Panchal**  
Head of Section, Manager - Product Assurance

This Certificate is valid in terms and conditions covered. Any significant change in design or construction may render this Certificate invalid. Except for any liability caused by DNV's gross negligence or willful misconduct, DNV's maximum cumulative liability arising out of or related to the use of or reliance on this document shall be limited under no circumstances exceed the amount of the fee. Lack of attainment of conditions as set out in the Certificate Agreement may render this Certificate invalid.

DNV BUSINESS ASSURANCE INDIA PVT LTD, 1001/1002, 1003, 1004, 1005, 1006, 1007, 1008, 1009, 1010, 1011, 1012, 1013, 1014, 1015, 1016, 1017, 1018, 1019, 1020, 1021, 1022, 1023, 1024, 1025, 1026, 1027, 1028, 1029, 1030, 1031, 1032, 1033, 1034, 1035, 1036, 1037, 1038, 1039, 1040, 1041, 1042, 1043, 1044, 1045, 1046, 1047, 1048, 1049, 1050, 1051, 1052, 1053, 1054, 1055, 1056, 1057, 1058, 1059, 1060, 1061, 1062, 1063, 1064, 1065, 1066, 1067, 1068, 1069, 1070, 1071, 1072, 1073, 1074, 1075, 1076, 1077, 1078, 1079, 1080, 1081, 1082, 1083, 1084, 1085, 1086, 1087, 1088, 1089, 1090, 1091, 1092, 1093, 1094, 1095, 1096, 1097, 1098, 1099, 1100, 1101, 1102, 1103, 1104, 1105, 1106, 1107, 1108, 1109, 1110, 1111, 1112, 1113, 1114, 1115, 1116, 1117, 1118, 1119, 1120, 1121, 1122, 1123, 1124, 1125, 1126, 1127, 1128, 1129, 1130, 1131, 1132, 1133, 1134, 1135, 1136, 1137, 1138, 1139, 1140, 1141, 1142, 1143, 1144, 1145, 1146, 1147, 1148, 1149, 1150, 1151, 1152, 1153, 1154, 1155, 1156, 1157, 1158, 1159, 1160, 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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
|  <p><b>इंजीनियर्स इंडिया लिमिटेड</b><br/>(एनएसईआई के प्रयोजनों के लिए)<br/>एनएसईआई के प्रयोजनों के लिए</p>                                                                                      |  <p><b>ENGINEERS INDIA LIMITED</b><br/>(A Govt. of India Undertaking)<br/><i>केंद्रित इंजीनियरिंग कंपनी</i></p>                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                     |
| <p>पंजीकृत कार्यालय : इलेक्ट्रिकल इंडिया भवन, ए, ईस्टवर्ली मार्ग मीन, नई दिल्ली-110 002 भारत<br/>         Regd. Office : Engineers India Bhawan, E, Eastwary Lane Meen, New Delhi-110 002 INDIA.</p>                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                     |
| <b>Procurement Development Department</b>                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                     |
| <p>Ref: 4994/PDD//EN/23-23/4158</p>                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                     |
| <p>I hereby acknowledge acceptance of this letter and send you a signed and stamped copy of this letter for our records.</p>                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                     |
| <p>Thanking you,</p>                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                     |
| <p>Very truly yours,<br/> </p>                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                     |
| <p>Rajesh Sinha<br/>Chief GM &amp; HOD (PDD)</p>                                                                                                                                                                                                                                  | <p>प्रमुख निदेश/RAJESH SINHA<br/>मुख्य निर्देशक ऑफ़ चीफ़ जीएम &amp; हॉड (पीडी)<br/>इंजीनियर्स इंडिया लिमिटेड (ENGINEERS INDIA LIMITED)<br/>(एनएसईआई के प्रयोजनों के लिए) (For NSAI's Use Only)<br/>ए. ईस्टवरी लाने पोर्ट, ईस्टवरी मार्ग, नई दिल्ली-110002</p>                                                                                                                                                                                                                                                                                                                   |                                                                                                                                     |
|                                                                                                                                                                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                     |
| Sheet 2 of 2                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                     |
| निदेश/आदेश / पत्र/परामर्श                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                     |
| Outfitting Excellence Through People                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                     |
| <p>अनुपालन का आदेश - इनके समूह में</p> <div style="display: flex; justify-content: space-around;">   </div> | <p>पंजीकृत कार्यालय / Regd. Office - पोरा / Phone : +91-11-26762121 (EPABX)<br/>         CH : LAXMILAL@ENGINEERSINDIA.CO<br/>         जहाँ निदेश आदेश</p> <div style="display: flex; align-items: center;">  <div style="margin-left: 10px;"> <p><b>एनएसईआई</b><br/>इंजीनियर्स इंडिया लिमिटेड</p> </div> </div> <p>वेबसाइट: <a href="http://www.engineersindia.com">www.engineersindia.com</a><br/>         ईमेल: <a href="mailto:info@engineersindia.com">info@engineersindia.com</a></p> | <p>निदेश</p>  <p>निदेश<br/>निदेश<br/>निदेश</p> |
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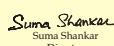




**Certificate of Compliance**  
**INTEGRATED QUALITY CERTIFICATION PRIVATE LIMITED**  
 hereby certifies that the Occupational Health and Safety Management Systems of  
**MKK Metal Sections Private Limited**  
 Head Office: Fagun Mansion, 3rd Floor,  
 No. 74, Ethiraj Salai, Egmore, Chennai – 600 008,  
 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.

Corporate Office : Platinum City, G/13/03, Site # 02, Next to CMTI, HMT Road, Yeshwanthpur Post, Bangalore - 560 022, India.  
 Tel : +91(80) 41172732, 41277353, 41280342, Email : iqccorporate@iqcglobal.com Website : www.iqcglobal.com  
 CIN : U74140KA2003PTC01851  
 Please visit www.iqcglobal.com to verify the authenticity and validity of this certificate of compliance  
 QF-13C Rev 00 date 04.12.2019

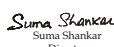




**Certificate of Compliance**  
**INTEGRATED QUALITY CERTIFICATION PRIVATE LIMITED**  
 hereby certifies that the Quality Management Systems of  
**MKK Metal Sections Private Limited**  
 Head Office: Fagun Mansion, 3rd Floor,  
 No. 74, Ethiraj Salai, Egmore, Chennai – 600 008,  
 Plant: Plot No. M1 & 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.

Corporate Office : Platinum City, G/13/03, Site # 02, Next to CMTI, HMT Road, Yeshwanthpur Post, Bangalore - 560 022, India.  
 Tel : +91(80) 41172732, 41277353, 41280342, Email : iqccorporate@iqcglobal.com Website : www.iqcglobal.com  
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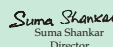




**Certificate of Compliance**  
**INTEGRATED QUALITY CERTIFICATION PRIVATE LIMITED**  
 hereby certifies that the Environmental Management Systems of  
**MKK Metal Sections Private Limited**  
 Head Office: Fagun Mansion, 3rd Floor,  
 No. 74, Ethiraj Salai, Egmore, Chennai – 600 008,  
 Plant: Plot 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.

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 Tel : +91(80) 41172732, 41277353, 41280342, Email : iqccorporate@iqcglobal.com Website : www.iqcglobal.com  
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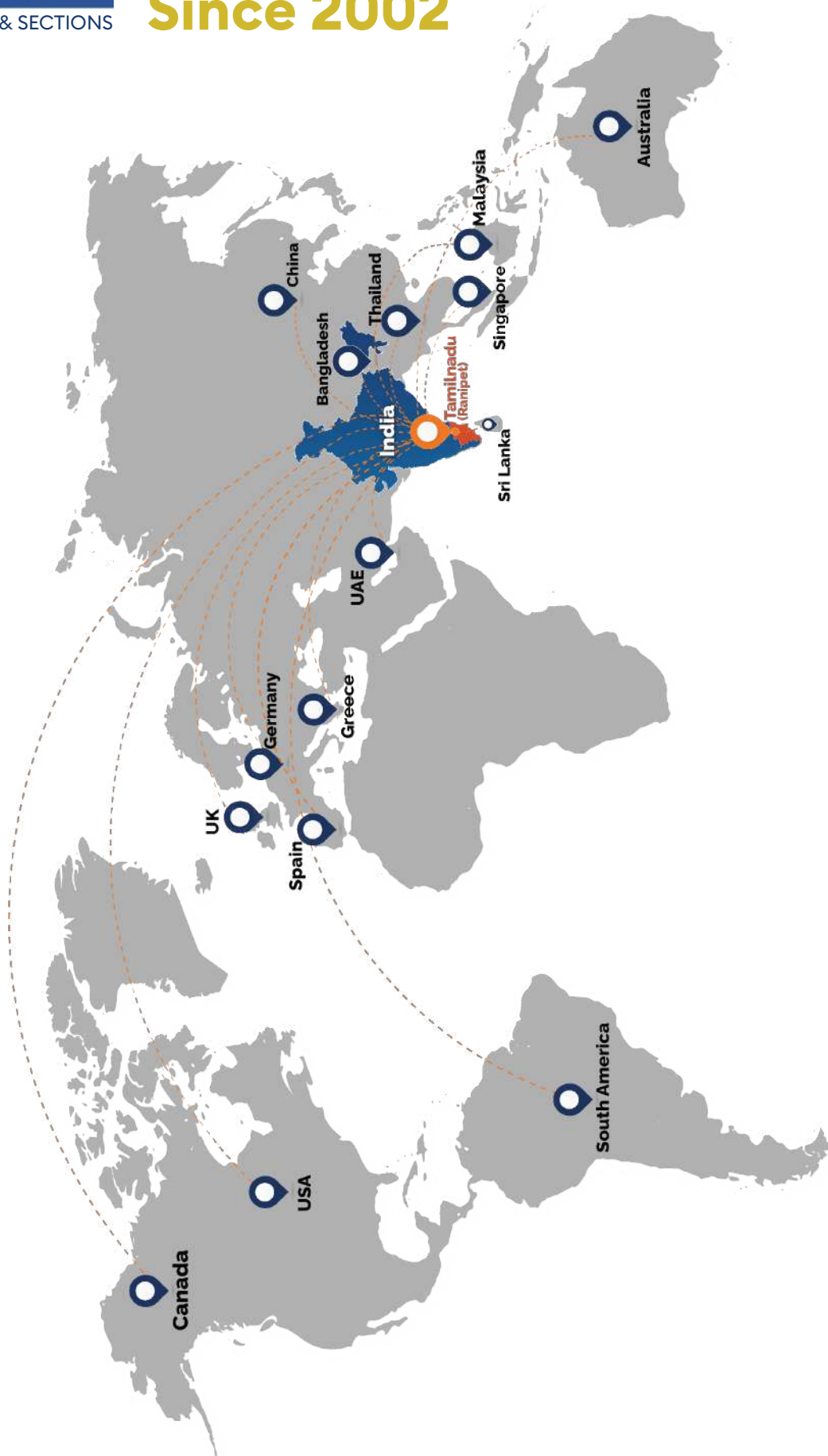
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 [www.mkkmetal.in](http://www.mkkmetal.in)

 [mkkmetsec@mkkmetal.in](mailto: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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