

## Celsius® 355 Structural Hollow Sections

Prime arisings direct from the manufacturer

By holding an extended stock of Celsius® 355 structural hollow section produced as prime arisings from our continuous manufacturing process, customers benefit from a wide selection of sizes available for immediate processing and delivery at competitive prices.



### High-Performance Structural Hollow Section

Celsius® 355 is a hot finished product offering you a wide range of benefits. Made exclusively from normalised, fine grain steel, Celsius® 355 is fully stress-relieved with uniform mechanical properties. This makes it ideal for demanding structural and mechanical applications - delivering reliable performance, even at lower temperatures. Where looks matter, tight corner profiles, consistent dimensions and superior surface finish are hallmarks of Celsius® 355. It is also easy to fabricate, weld and manipulate to save you processing time and cost. For added customer confidence, Celsius® 355 is traceable, batch tested and supplied with full test certification.

Section	Size
Circular Hollow Sections	21.3mm - 508mm
Square Hollow Sections	40x40mm - 400x400mm
Rectangular Hollow Sections	50x30mm - 500x300mm
Elliptical Hollow Sections	150x75mm - 500x200mm

Standard lengths up to 14.5m.

Under the Construction Product Regulations, all products used in construction must now have CE marking to demonstrate compliance. Tata Steel has published a declaration of performance for Celsius® 355 structural hollow sections at [www.tatasteeleurope.com/dop](http://www.tatasteeleurope.com/dop).

### Prime Arisings

As a consequence of our continuous manufacturing process, so-called prime arisings are available directly from Tata Steel. The operational complexity of our high-throughput manufacturing lines result in lengths of full prime product over-and above original customer orders, typically as an effect of producing non-standard lengths or at the end of a production schedule. Our stock range therefore provides an opportunity for customers to utilise high-performance Celsius® 355, competitively priced and available for immediate processing and delivery

The Corby Metal Centre, located adjacent to our UK manufacturing site for structural hollow sections and tubes, has benefited from greatly increased storage space, such that the range and depth of stock held are larger than was previously available.

Celsius® 355 is most commonly used in a wide variety of applications, including:

- Structural columns
- Glazing systems
- Elegant and lightweight structures
- Lifting and excavating equipment
- General engineering applications

### Increased Processing Capacity

In addition to the available lengths from stock, we offer a comprehensive cutting service. The Corby site acts as a centre for the distribution of structural hollow sections and operates a number of precision saws capable to processing the entire product range, with the option of straight and mitre cuts in a wide variety of orientations. Additional saw capacity is available at our other locations.

Our regional Metal Centres provide customers with a quick and convenient way of buying smaller quantities of a wide range of steel products. Ideal for jobs where fast completion is needed, they can provide a nationwide next-day delivery service. Whether you need a couple of bars, the odd sheet or several tonnes, our knowledgeable teams are on hand to help.

## The Right Product For Every Application

Tata Steel is one of the world's leading producers of welded steel tube and we have been producing hot finished and cold formed hollow sections for more than 50 years. Developed to meet the specific performance requirements across the construction, transport and pressure containment, energy and engineering industries - our products make the difference.

In addition to Celsius® 355, we manufacture:

- high grade multi-purpose cold formed Hybox® 355 structural hollow sections
- general purpose cold-formed Strongbox® 235 structural hollow sections
- large diameter pipe
- coated, precision, conveyance and pressure tubes.

Choosing the right Tata Steel product for each application	Celsius® 355 NH	Hybox® 355	Strongbox®235
Fully compliant with the European Standard EN10210: S355NH (Hot Finished)	✓		
Fully compliant with the European Standard EN10210: S355J2H (Hot Finished)	✓		
Fully compliant with the European Standard EN10219: S355J2H (Cold Formed)		✓	
Fully compliant with the European Standard EN10219: S235JRH (Cold Formed)			✓
Fully compliant with the American Standard ASTM A501 – Grade B (Hot Finished)	✓		
Suitable for galvanising	✓	✓	✓
Manufactured in Western Europe	✓	✓	✓
Available as square, rectangular and circular hollow sections	✓	✓	✓
Clearly marked for quality assurance	✓	✓	✓
Fully-killed steel for better formability and weldability	✓	✓	✓
Sustainable product solution and 100 per cent recyclable	✓	✓	✓
Certified for batch traceability	✓	✓	
Suitable for performance applications where properties must be relied upon	✓	✓	
Minimum yield of 355 MPa	✓	✓	
Better energy absorbed at lower temperatures (-20°C @ 40J)	✓		
Suitable for low temperature applications (-20°C @ 27J)	✓	✓	
Suitable for structural and mechanical applications	✓	✓	
Compliant with the CPD through CE Marking	✓	✓	
Compliant with European design standards	✓	✓	
Full technical support available	✓	✓	
Tight corner radii for aesthetic appeal and higher geometric properties	✓		
Stress-relieved for optimum performance and total confidence in service	✓		
Confidence of design and fabrication without concern for fatigue	✓		
Available as elliptical hollow sections	✓		
Hot finished and able to perform in the most arduous conditions	✓		
Lower CEV 0.43	✓		

### Corby Metal Centre

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