

## Declaration of Performance

(according to Regulation EU No 305/2011)

Unique ID code TST Hybox355J2H [Grade S355J2H / 1.0576]

Harmonised standard EN 10219-1:2006 - Cold formed welded structural hollow sections of non-alloy and fine grain steels - Part 1: Technical delivery conditions (issued on the Official Journal of the European Union on 01/02/2007)

Intended use To be used in metal structures or in composite metal and concrete structures. This product is supplied with a specific inspection document 3.1 (according to EN 10204) that includes the full length non-destructive testing of the weld (as defined in table 2 of EN 10219-1). This product is suitable for being used as constituent product of a steel structure according to EN 1090. Table 1 of EN 1090-2:2018 requires a 3.1 inspection document for structural steel above S275.

Manufacturer TATA STEEL UK LIMITED  
Registered in England No. 2280000  
Registered office: 18 Grosvenor Place, London, SW1X 7HS, UK  
Website : [www.tatasteelurop.com](http://www.tatasteelurop.com)

Authorised representative Simon Edwards – Technical Director (acting)  
Tata Steel  
Wenckebachstraat 1  
Velsen Noord 1951 JZ NL  
PO Box 10.000  
Ijmuiden  
1970 CA NL

System of AVCP System of assessment and verification of constancy of performance of the product  
System 2+ (FPC Certificate No: 2814/CPR/LRQ0840080/B)

Notified body Notified body No. 2814  
LRQA Verification B.V.  
George Hintzenweg 77  
3068 AX Rotterdam  
The Netherlands

Table 1 – Essential characteristics and declared performances

Essential characteristic	Performance		Harmonised technical specification	
	Nominal thickness (mm)	Value min (MPa)		
Yield strength	≤ 16	355	EN 10219-1:2006	
	Values (MPa)			
Tensile strength	Nominal thickness (mm)	min		max
		< 3		510
	≥ 3 ≤ 16	470		630
Elongation	Nominal thickness (mm)	Value min (%)		
		long.		20
Impact strength (longitudinal)	Grade	Nom. Thk. (mm)		Impact Value min. average (J) at Test Temp (°C)
				J2H
	Weldability (CEV)			Nominal thickness (mm)
Durability	Nominal thickness (mm)		Composition (cast) (max. unless otherwise shown)	
	≤ 16	C: 0.22 Si: 0.55 Mn: 1.60 P: 0.030 S: 0.030		
		FF deoxidation (a)		
	Durability is also dependent on any method of protection subsequently applied and the type and thickness of the coating			
Tolerances on dimensions and shape	Round, square and rectangular hollow sections	In accordance with EN 10219-2:2006		

Notes: (a) FF – Fully killed steel containing nitrogen binding elements



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EN 10219-1:2006

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**Performance declared for the following essential characteristics:**

**Yield strength:** 355 MPa

**Tensile strength:** 470 – 630 MPa (≥ 3 mm)

**Elongation:** 20% (18% where Table A.3.c applies)

**Impact strength:** 27J at - 20°C

**Weldability (CEV):** 0.45%

**Durability:** See Declaration of Performance

**Tolerances on dimensions and shape:** In accordance with EN 10219-2:2006

**Dangerous Substances:** No Performance Determined (NPD)



## Declaration of Performance

(according to The Construction Products (Amendment etc.) (EU Exit) Regulations 2020 No 1359)

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Designated standard	EN 10219-1:2006 - Cold formed welded structural hollow sections of non-alloy and fine grain steels - Part 1: Technical delivery conditions (issued on the Official Journal of the European Union on 01/02/2007)
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System of AVCP	System of assessment and verification of constancy of performance of the product System 2+ (FPC Certificate No: 0038/CPR/LRQ0840080/B)
Approved body	Approved body No. 0038 LRQA Verification Limited 1 Trinity Park, Bickenhill Birmingham, B37 7ES UK

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		P: 0.030		
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		FF deoxidation (a)		
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**Tolerances on dimensions and shape:** In accordance with EN 10219-2:2006

**Dangerous Substances:** No Performance Determined (NPD)



Richard Sidebottom  
Director Mills, DSO & Technical

Date 24/07/2023