### TATA STEEL

## TATA

#### **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.tatasteeleurope.com

Authorised

representative Simon Edwards – Technical Director (acting)

Tata Steel

Wenckebachstraat 1 Velsen Noord 1951 JZ NL

PO Box 10.000 ljmuiden 1970 CA NL

System of AVCP

System of assessment and verification of constancy

of performance of the product System 2+ (FPC Certificate No: 0343/CPR/LRQ0840080/B)

Notified body No. 0343

LRQA Nederland B.V. George Hintzenweg 77 3068 AX Rotterdam The Netherlands Table 1 – Essential characteristics and declared performances

Essential characteristic		Perfo	Harmonised technical specification		
	Nominal thickness		Value		
Yield strength	(mm)		min (MPa)		
	≤ 16		355		
Tensile strength	Nominal thickness (mm)		Values (MPa)		
			min	max	
	< 3		510	680	Í
	≥ 3 ≤ 16		470	630	
Elongation	Nominal thickness (mm)		Value min (%)		
	(11111)		long.		
	≤ 16		20 (18 where Table A.3, Note c applies)		
Impact strength (longitudinal)	Grade	Nom. Thk. (mm)	Impact Value min. average (J) at Test Temp (°C)		
	J2H	≤ 16	27J at - 20°C		
Weldability (CEV)	(CEV) (mini)		Value max (%)		EN 10219-1:2006
(OLV)	≤ 16		0.45		
Durability	Nominal thickness (mm)		Composition (cast) (max. unless otherwise shown)		
	≤ 16			Si: 0.55 Mn: 1.60 P: 0.030	
			FF deoxidation (a)		
	Durability is also depen method of protection su applied and the type an coating		subsequently		
Tolerances on dimensions and shape	rectangu	quare and lar hollow tions	In accordance with EN 10219-2:2006		



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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 ( $\geq 3$  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)

well.

Richard Sidebottom
Director Mills, DSO & Technical

Date 01/04/2024

## TATA STEEL

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#### **Declaration of Performance**

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

Unique ID code TST Hybox355J2H [Grade S355J2H / 1.0576]

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

Official Journal of the Eul

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structural steel above S275.

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Website: www.tatasteeleurope.com

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

Table 1 – Essential characteristics and declared performances

		Perfo	technical specification			
Yield strength	(m	thickness m)	Value min (MPa) 355			
Tensile strength	≤ 16  Nominal thickness (mm)  < 3		Values (MPa) min max 510 680			
	≥ 3	≥ 3 ≤ 16		630		
Elongation	Nominal thickness (mm)		Value min (%) long.			
	≤ 16		20 (18 where Table A.3, Note c applies)			
Impact strength (longitudinal)	Grade Nom. Thk. (mm)		Impact min. ave at Test T	rage (J)		
	J2H	≤ 16	27J at - 20°C			
Weldability (CEV)	(m	Nominal thickness (mm) ≤ 16		lue (%) 45	EN 10219-1:2006	
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	rectangu	quare and lar hollow tions	In accordance with EN 10219-2:2006			



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UK 21

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EN 10219-1:2006

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 \$275.

Performance declared for the following essential characteristics:

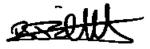
Yield strength: 355 MPa Tensile strength: 470 – 630 MPa (≥ 3 mm) Elongation: 20% (18% where Table A.3.c applies)

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)



Richard Sidebottom
Director Mills. DSO & Technical

Date 01/04/2024