TATA STEEL

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 Ijmuiden 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	Notified body No. 0343 LRQA Nederland B.V. George Hintzenweg 77 3068 AX Rotterdam The Netherlands

Richard Sidebottom
Director Mills, DSO & Technical

Date 01/04/2024

Table 1 – Essential characteristics and declared performances

Essential characteristic	Performance				Harmonised technical specification
Yield strength	Nominal thickness (mm)		Value min (MPa)		EN 10219-1:2006
	≤ 16		355		
Tensile strength	Nominal thickness (mm)		Values (MPa)		
			min	max	
	< 3		510	680	
	≥ 3 ≤ 16		470	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 Value min. average (J) at Test Temp (ºC)		
	J2H	≤ 16	27J at - 20°C		
Weldability (CEV)	Nominal thickness (mm)		Value max (%)		
	≤ 16		0.45		
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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TATA STEEL UK LIMITED
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Registered office: 18 Grosvenor Place, London, SW1X 7HS, UK

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TST Hybox355J2H [Grade S355J2H / 1.0576]

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)

TATA STEEL

Declaration of Performance

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

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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

Richard Sidebottom
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EN 10219-1:2006

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Dangerous Substances: No Performance Determined (NPD)