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 NEDERLAND TUBES BV Registered in Netherlands No. 20022812 Registered office: Souvereinstraat 35, Oosterhout, 4903 RH, Netherlands Website : www.tatasteeleurope.com
System of AVCP	System of assessment and verification of constancy of performance of the product System 2+ (FPC Certificate No: 2814/CPR/RQA2007001/A)
Notified body	Notified body No. 2814 Lloyd's Register Verification B.V. K.P. van der Mandelelaan 41A Rotterdam Netherlands

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 (°C)		
	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

CE

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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)

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Netherlands

Date 18/07/2021