

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
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Registered office: 18 Grosvenor Place, London, SW1X 7HS, UK
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System of AVCP System of assessment and verification of constancy of performance of the product
System 2+ (FPC Certificate No.: 2814/CPR/LR/Q0840080/B)

Notified body No. 2814
Lloyd's Register Verification B.V.
K.P. van der Mandelelaan 41A
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Coentraad Spaans
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Souvereinstraat 35, Oosterhout, 4903 RH
Netherlands

Date 12/07/2021




Table 1 – Essential characteristics and declared performances

Essential characteristic	Performance		Harmonised technical specification
	Performance	Performance	
Yield strength	Nominal thickness (mm) ≤ 16	Value min (MPa) 355	EN 10219-1:2006
	Nominal thickness (mm)	Values (MPa)	
Tensile strength	< 3	min 510 max 680	EN 10219-1:2006
	$\geq 3 \leq 16$	min 470 max 630	
	Nominal thickness (mm)	Value min (%) long	
		Value min (%) long	
Elongation	≤ 16	(18 where Table A.3, Note c applies) 20	EN 10219-1:2006
	Grade	Impact Value min. average (J) at Test Temp (°C)	
Impact strength (longitudinal)	J2H	≤ 16 27J at -20°C	EN 10219-1:2006
		Value max (%)	
Weldability (CEV)	Nominal thickness (mm) ≤ 16	Composition (cast) (max. unless otherwise shown)	EN 10219-1:2006
		C: 0.22 Si: 0.55 Mn: 1.60 P: 0.030 S: 0.030	
Durability	≤ 16	FF deoxidation (a)	EN 10219-1:2006
		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

2814



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21

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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 2019 No 465)

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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 No. 0038
 Lloyds Register Verification Ltd
 71 Fenchurch Street, London EC3M 4BS

John Collingham
 Director Operations, Tubes
 Souvereinstraat 35, Oosterhout, 4903 RH
 Netherlands

Date 20/09/2021



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
	Nominal thickness (mm)	Values (MPa)	
Tensile strength	≥ 3	min 510	
	≤ 16	max 680	
		630	
Elongation	Nominal thickness (mm)	Value min (%)	
	≤ 16	20	
	Grade	Impact Value (18 where Table A.3, Note c applies)	
Impact strength (longitudinal)	Nom. Thk. (mm)	min. average (J) at Test Temp (°C)	
	J2H	27J at - 20°C	
Weldability (CEV)	Nominal thickness (mm)	Value max (%)	
	≤ 16	0.45	
Durability	Nominal thickness (mm)	Composition (cast) (max. unless otherwise shown)	EN 10219-1:2006
		C: 0.22	
	Si: 0.55		
	P: 0.030		
	S: 0.030		
	FF deoxidation (a)		
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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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)