



Declaration of Performance

(according to Regulation EU No 305/2011)

Unique ID code TST Celsius355NH [Grade S355NH / 1.0539]

Harmonised standard EN 10210-1:2006 - Hot finished 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 10210-1). 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.tatasteeluk.com

System of AVCP System of assessment and verification of constancy of performance of the product
System 2+ (FPC Certificate No: 0343/CPR/LRQ0840080/A)

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

Date- June 2025

Dean Cartwright
Director Technical Tata Steel UK
Port Talbot – South Wales
SA13 2NG -UK

Table 1 – Essential characteristics and declared performances

Essential characteristic	Performance			Harmonised technical specification
Yield strength	Nominal thickness (mm)		Values Min (MPa)	EN 10210-1:2006
	≤ 16		355	
	> 16 ≤ 40		345	
	> 40 ≤ 65		335	
Tensile strength	Nominal thickness (mm)		Values (MPa)	
	≤ 65		min 470 max 630	
Elongation	Nominal thickness (mm)		Values min (%)	
	≤ 65		22	
longitudinal			20	
transverse				
Impact strength (longitudinal)	Grade	Nom. Thk. (mm)	Impact Value min. average (J) at Test Temp (°C)	
	NH	≤ 65	40J at - 20°C	
Weldability (CEV)	Nominal thickness (mm)		Values max (%)	
	≤ 16		0.43	
	> 16 ≤ 65		0.45	
Durability	Nominal thickness (mm)		Composition (cast) (max. unless otherwise shown)	
	≤ 65		C 0.20	
			Si 0.14 – 0.25	
			Mn 0.90 – 1.65	
			P 0.035	
			S 0.030	
			Nb 0.050	
			V 0.12	
			Al 0.020 min.	
			Ti 0.03	
			Cr 0.30	
			Ni 0.50	
			Mo 0.10	
			Cu 0.35	
			N 0.020	
		GF deoxidation (a)		
The product is suitable for hot dip galvanizing according to EN ISO 1461:2009 and fulfils the conditions of Category B of EN ISO 14713-2:2020				
Tolerances on dimensions and shape	Round, square, rectangular and elliptical hollow sections	In accordance with EN 10210-2:2006		

Notes: (a) GF – Fully killed fine grain steel containing nitrogen binding elements

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EN 10210-1:2006

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Performance declared for the following essential characteristics:

Yield strength: 355 MPa (≤ 16 mm)

Tensile strength: 470 – 630 MPa

Elongation: 22%

Impact strength: 40J at -20°C

Weldability (CEV): 0.43% (≤ 16 mm)

Durability: See Declaration of Performance

Tolerances on dimensions and shape: In accordance with EN 10210-2:2006

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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System of AVCP	System of assessment and verification of constancy of performance of the product System 2+ (FPC Certificate No: 0038/CPR/LRQ0840080/A)
Approved body	Approved body No. 0038 LRQA Verification Limited 1 Trinity Park, Bickenhill Birmingham, B37 7ES UK



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