TATA STEEL

Declaration of Performance

(according to Regulation EU No 305/2011)

Unique ID code	TST Celsius355NLH [Grade S355NLH / 1.0549]
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

Dean Cartwright
Director, Technical
Tata Steel UK

Date 30/07/2025

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)	
			min	max
	≤ 65		470	630
Elongation	Nominal thickness (mm)		Values min (%)	
longitudinal	≤ 65		22	
transverse			20	
Impact strength (longitudinal)	Grade	Nom. Thk. (mm)	Impact Value min. average (J) at Test Temp (°C)	
	NLH	≤ 65	27J at - 50°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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TATA STEEL UK LIMITED
Registered in England No. 2280000
Registered office: 18 Grosvenor Place, London, SW1X 7HS, UK

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TST Celsius355NLH [Grade S355NLH / 1.0549]

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: 27J at - 50°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)

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/A)
Approved body	Approved body No. 0038 LRQA Verification Limited 1 Trinity Park, Bickenhill Birmingham, B37 7ES UK

Dean Cartwright
Director, Technical
Tata Steel UK

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