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.

TATA STEEL UK LIMITED Manufacturer

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: 2814/CPR/LRQ0840080/A)

Notified body No. 2814 Notified body

> LRQA Verification B.V. George Hintzenweg 77 3068 AX Rotterdam The Netherlands

Richard Sidebottom Director Mills, DSO & Technical Date 24/07/2023



Table 1 –	Essential	characte	ristics and	declared perfo		
Essential characteristic		Perf	Harmonised technical specification			
Yield strength	Nominal thickness (mm) ≤ 16 > 16 ≤ 40 > 40 ≤ 65		Values Min (MPa) 355 345 335			
Tensile strength	Nominal thickness (mm)		Values (MPa)			
Elongation	≤ 65 Nominal thickness (mm)		470 630 Values min (%)			
longitudinal transverse	≤ 65		22 20			
Impact strength (longitudinal)	Grade	Nom. Thk. (mm)	Impa min. av	ct Value verage (J) Temp (°C)		
	NLH	≤ 65	27J a	t - 50°C		
Weldability (CEV)	Nominal thickness (mm)		Values max (%)		EN 10210-1:2006	
	≤ 16 > 16 ≤ 65		0.43 0.45			
	Nominal thickness (mm)		Composition (cast) (max. unless otherwise shown)			
Durability	≤ 65		Si 00 Mn 00 P 00 Nb V Al Ti Cr Ni Mo Cu N 00	.20 .14 - 0.25 .90 - 1.65 .035 .030 .050 .12 .020 min. .03 .30 .50 .10 .35		
	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 rectang elliptica	, square, gular and al hollow ctions	In acco	ordance with 210-2:2006		







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TST Celsius355NLH [Grade S355NLH / 1.0549]

EN 10210-1:2006

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.

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)

Unique ID code TST Celsius355NLH [Grade S355NLH / 1.0549]

Designated 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)

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

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Website: www.tatasteeleurope.com

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 No. 0038

LRQA Verification Limited 1 Trinity Park, Bickenhill Birmingham, B37 7ES

UK

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Richard Sidebottom Date 24/07/2023
Director Mills, DSO & Technical



Tuble 1	Localitia	onuracio	nonos anc	deciared perio	Harmonised
Essential characteristic		Perf	technical specification		
	Nominal thickness		Values Min (MPa)		opcoca.c.
Yield strength	(mm) ≤ 16		355		
	> 16 ≤ 40 > 40 ≤ 65		345 335		
Tensile strength	Nominal thickness (mm)		Values (MPa)		
	≤ 65		min 470	630	
Elongation	Nominal thickness (mm)		Values min (%)		
longitudinal transverse	≤ 65		22 20		
Impact strength (longitudinal)	Grade	Nom. Thk. (mm)	Impact Value min. average (J) at Test Temp (°C)		
	NLH	≤ 65	27J	at - 50°C	EN 10210 1:2006
Weldability (CEV)	Nominal thickness (mm)		Values max (%)		EN 10210-1:2006
	≤ 16 > 16 ≤ 65		0.43 0.45		
Durability	Nominal thickness (mm)		Composition (cast) (max. unless otherwise shown)		
	≤ 65		Si Mn P S Nb Nb V Al Fi Cr Ni	0.20 0.14 - 0.25 0.90 - 1.65 0.035 0.030 0.050 0.12 0.020 min. 0.03 0.30 0.50 0.50	
			N	0.35 0.020 idation <i>(a)</i>	
	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	rectang elliptic	, square, gular and al hollow ctions		cordance with 0210-2:2006	

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



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UK

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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)