



Declaration of Performance (according to Regulation EU No 305/2011)

Unique ID code TSNT TT355K2H [Grade S355K2H / 1.0512]
 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.tatasteelurope.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. 0343
 LRQA Nederland B.V.
 George Hintzenweg 77
 3068 AX Rotterdam
 Netherlands

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Jacob Gerkema
 Managing Director
 Tata Steel Nederland Tubes B.V.
 Souvereinstraat 35, Oosterhout, 4903 RH
 Netherlands

Date 01/04/2024

Table 1 – Essential characteristics and declared performances

Essential characteristic	Performance		Harmonised technical specification		
	Value	Value			
Yield strength	Nominal thickness (mm)	Value min (MPa)	EN 10219-1: 2006		
	≤ 16	355			
Tensile strength	Nominal thickness (mm)	Values (MPa)	EN 10219-1: 2006		
	< 3	min max			
	≥ 3 ≤ 16	470 630			
Elongation	Nominal thickness (mm)	Value min (%)	EN 10219-1: 2006		
	≤ 16	long. 20 (18 where Table A.3, Note c applies)			
Impact strength (longitudinal)	Grade	Impact Value min. average (J) at Test Temp (°C)	EN 10219-1: 2006		
	K2H ≤ 16	40J at - 20°C			
Weldability (CEV)	Nominal thickness (mm)	Value max (%)	EN 10219-1: 2006		
	≤ 16	0.45			
Durability	Nominal thickness (mm)	Composition (cast) (max. unless otherwise shown)	EN 10219-1: 2006		
	≤ 16	C: 0.22 Si: 0.55 Mn: 1.60 P: 0.030 S: 0.030 FF deoxidation (a)			
Tolerances on dimensions and shape	Durability is also dependent on any method of protection subsequently applied and the type and thickness of the coating		EN 10219-1: 2006		
	Outside dimensions	Rectangular sections		Circular sections	
		H, B < 100 mm		0.5% min. = 0.25 mm (b)	± 0.5% min. = ± 0.25 mm max. = ± 5 mm (b)
		H, B ≤ 200 mm		0.4% (b)	
	H, B > 200 mm	0.3% (b)			
	Thickness	EN 10219-2 (c)		EN 10219-2 (c)	
	Out-of-roundness (for D/T < 100)	Not applicable		1% (b)	
	Concavity/convexity	0.4 % min. = 0.25 mm (b)		Not applicable	
	Squareness of side	90° ± 0.5° (b)		Not applicable	
	External corner profile	T ≤ 6.0		2T ± 0.2T (or 1.8T to 2.2T) (b)	Not applicable
		6.0 < T ≤ 10.0		2.5T ± 0.25T (or 2.25T to 2.75T) (b)	
		T > 10.0		3T ± 0.3T (or 2.7T to 3.3T) (b)	
Twist	EN 10219-2 (c)	Not applicable			
Straightness	EN 10219-2 (c)	EN 10219-2 (c)			
Mass per unit length	EN 10219-2 (c)	EN 10219-2 (c)			
Length	EN 10219-2 (c)	EN 10219-2 (c)			

Notes:

- (a) FF – Fully killed steel containing nitrogen binding elements
- (b) The declared tolerance is half of the maximum allowed by EN 10219-2:2006
- (c) The declared tolerance is the maximum allowed by EN 10219-2:2006



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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: 40J at - 20°C

Weldability (CEV): 0.45%

Durability: See Declaration of Performance

Tolerances on dimensions and shape: See Declaration of Performance

Dangerous Substances: No Performance Determined (NPD)



Declaration of Performance

(according to The Construction Products (Amendment etc.) (EU Exit) Regulations SI 2020-1359)

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 Approved body Approved body No. 0038 LRQA Verification Ltd. 1 Trinity Park, Bickenhill Lane Solihull, West Midlands Birmingham B37 7ES United Kingdom

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