



### Declaration of Performance

(according to Regulation EU No 305/2011)

Unique ID code TSNT 355K2H [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.tatasteelnederland.com](http://www.tatasteelnederland.com)

System of AVCP System of assessment and verification of constancy of performance of the product  
System 2+ (FPC Certificate No: 0343/CPR/RQA2007001/A)

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

Table 1 – Essential characteristics and declared performances

Essential characteristic	Performance		Harmonised technical specification	
	Nominal thickness (mm)	Values min (MPa)		
Yield strength	≤16	355	EN 10219-1:2006	
Tensile strength	Nominal thickness (mm)	Values (MPa)		
		min		max
	≥3 ≤16	510		680
Elongation	Nominal thickness (mm)	Values min (%)		
		long.		
	≤16	20 (18 where Table A.3 Note c applies)		
Impact strength (longitudinal)	Grade	Nom. Thk. (mm)		Impact Value min. average (J) at Test Temp (°C)
	K2H	≤16		40J at - 20°C
Weldability (CEV)	Nominal thickness (mm)	Values max (%)		
		≤16	0.45	
Durability	Nominal thickness (mm)	Composition (cast) (max. unless otherwise shown)		
		≤16	C: 0.22 Si: 0.55 Mn: 1.60 P: 0.030 S: 0.030	
	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



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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:** In accordance with EN 10219-2:2006

**Dangerous Substances:** No Performance Determined (NPD)

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

Date 09/01/2025

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### Declaration of Performance

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

Unique ID code TSNT 355K2H [Grade S355K2H / 1.0512]

Designated 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)

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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/RQA20070001/A)

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

Table 1 – Essential characteristics and declared performances

Essential characteristic	Performance		Harmonised technical specification
	Performance		
Yield strength	Nominal thickness (mm)	Values min (MPa)	EN 10219-1:2006
	≤16	355	
Tensile strength	Nominal thickness (mm)	Values (MPa)	
	< 3	min max	
	≥3 ≤16	470 680	
Elongation	Nominal thickness (mm)	Values min (%)	
	≤16	long. 20 (18 where Table A.3 Note c applies)	
Impact strength (longitudinal)	Grade	Impact Value min. average (J) at Test Temp (°C)	
	K2H	≤16 40J at - 20°C	
Weldability (CEV)	Nominal thickness (mm)	Values max (%)	
	≤16	0.45	
Durability	Nominal thickness (mm)	Composition (cast) (max. unless otherwise shown)	
	≤16	C: 0.22 Si: 0.55 Mn: 1.60 P: 0.030 S: 0.030	
	FF deoxidation (a)		
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



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**Impact strength:** 40J 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)

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