



## Declaration of Performance

(according to Regulation EU No 305/2011)

Unique ID code TSNT TT275J2H [Grade S275J2H / 1.0138] (with specific inspection)

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 required 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](http://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  
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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	275		
Tensile strength	Nominal thickness (mm)	Values (MPa)	EN 10219-1: 2006	
	> 16 ≤ 40	265		
	< 3	min 430 max 580		
	≥ 3 ≤ 40	min 410 max 560		
Elongation	Nominal thickness (mm)	Value min (%)	EN 10219-1: 2006	
	≤ 40	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	
	J2H	27J at -20°C		
Weldability (CEV)	Nominal thickness (mm)	Value max (%)	EN 10219-1: 2006	
	≤ 40	0.40		
Durability	Nominal thickness (mm)	Composition (cast) (max. unless otherwise shown)	EN 10219-1: 2006	
	≤ 40	C: 0.20 P: 0.030 Si: - S: 0.030 Mn: 1.50 N: - 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	Outside dimensions	Rectangular sections	Circular sections	
		H, B < 100 mm		0.5% min. = 0.25 mm (b)
		H, B ≤ 200 mm		0.4% (b)
	H, B > 200 mm	0.3% (b)	± 0.5% min. = ± 0.25 mm max. = ± 5 mm (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:** 275 MPa (≤ 16 mm)

**Tensile strength:** 410 – 560 MPa (≥ 3 mm)

**Elongation:** 20% (18% where Table A.3.c applies)

**Impact strength:** 27J at -20°C

**Weldability (CEV):** 0.40%

**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)

Unique ID code TSNT TT275J2H [Grade S275J2H / 1.0138] (with specific inspection)

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  
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Impact strength (longitudinal)	Grade	Nom. Thk. (mm)	Impact Value min. average (J) at Test Temp (°C)	
	J2H	≤ 40	27J at -20°C	
Weldability (CEV)	Nominal thickness (mm)	Value max (%)		
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Durability	Nominal thickness (mm)	Composition (cast) (max. unless otherwise shown)		
		C: 0.20	P: 0.030	
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