



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.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 | | |
|---|----------------------------------|---|------------------------------------|--------------------------------------|----------------|
| | | | | | |
| 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 510 max 680 | | | |
| | ≥ 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) | | | |
| Durability is also dependent on any method of protection subsequently applied and the type and thickness of the coating | | | | | |
| Tolerances on dimensions and shape | Rectangular sections | | EN 10219-2 (c) | | |
| | Outside dimensions | 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) | |
| | 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)

Jacob Gerkema
Managing Director
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Souvereinstraat 35, Oosterhout, 4903 RH
Netherlands

Date 09/01/2025

DocuSigned by:

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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.
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