TATA STEEL

# Declaration of Performance

(according to Regulation EU No 305/2011)

| | |
|---|---|
| Unique ID code | Forcon® TT 355J2H [Grade S355J2H / 1.0576] |
| 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<br>Registered in Netherlands No. 20022812<br>Registered office: Souvereinstraat 35, Oosterhout, 4903 RH, Netherlands<br>Website: www.tatasteelnederland.com |
| System of AVCP | System of assessment and verification of constancy of performance of the product<br>System 2+ (FPC Certificate No: 0343/CPR/RQA2007001/A) |
| Notified body | Notified body No. 0343<br>LRQA Nederland B.V.<br>George Hintzenweg 77<br>3068 AX Rotterdam<br>Netherlands |

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

Date 04/09/2025

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) | | |
| | | | min | max | |
| | < 3 | | 510 | 680 | |
| | ≥ 3 ≤ 16 | | 470 | 630 | |
| Elongation | Nominal thickness (mm) | | Value 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 (ºC) | | |
| | J2H | ≤ 16 | 27J at - 20°C | | |
| Weldability (CEV) | Nominal thickness (mm) | | Value max (%) | | |
| | ≤ 16 | | 0.45 | | |
| Durability | Nominal thickness (mm) | | Composition (cast) (max. unless otherwise shown) | | |
| | ≤ 16 | | C: 0.22<br>Si: 0.55<br>Mn: 1.60<br>P: 0.030<br>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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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:** 27J 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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(according to The Construction Products (Amendment etc.) (EU Exit) Regulations SI 2020-1359)

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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<br>LRQA Verification Ltd.<br>1 Trinity Park, Bickenhill Lane<br>Solihull, West Midlands<br>Birmingham<br>B37 7ES<br>United Kingdom |

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