



METINVEST

Declaration of Performance

Spartan UK Ltd

Declaration of Performance

(According to Annex III of EU Regulation No. 305/2011 and amended per EU Regulation No. 574/2014)

DOP/2018/S355NL

1. Unique identification code of the product-type:

DOP/2018/S355NL

2. Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification:

Hot-rolled plates from structural steels accordant to the regulations of EN10025-2, -3, -5

3. Name, registered trade name or registered trade mark and contact address of the manufacturer:

**Spartan UK Ltd
Ropery Road, Teams, Gateshead, Tyne and Wear, NE8 2RD, United Kingdom
Tel. : +44 (0) 191 4604245
E-mail: gary.robinson@spartanuk.co.uk**

4. Name and contact address of the authorized representative whose mandate covers the tasks specified in Article 12 (2):

Not applicable

5. System or systems of assessment and verification of constancy of performance (AVCP) of the construction product as set out in Annex V to Regulation (EU) No. 305/2011:

System 2+

6. In case of the declaration of performance concerning a construction product covered by a harmonized standard:

**Hot rolled plates from structural steels with strength level S235 up to S460 according to DIN EN 10025-2,-3,-5
Notified factory production control certification body TUV NORD Systems Gmbh & Co. KG No. 0045
Große Bahnstraße 31
D-22525 Hamburg
Germany
Certificate No: 0045-CPR-0950 dated 01.09.2015**



7 Declared performance

| Essential Characteristic | Performance | | Harmonised Technical Specification |
|--|------------------------|------------------|------------------------------------|
| Yield Strength | Nominal thickness (mm) | Values (MPa) Min | EN 10025-3 (2004) |
| | ≤ 16 | 355 | |
| | > 16 ≤ 40 | 345 | |
| | > 40 ≤ 63 | 335 | |
| | > 63 ≤ 80 | 325 | |
| | > 80 ≤ 100 | 315 | |
| | > 100 ≤ 150 | 295 | |
| | > 150 ≤ 200 | 285 | |
| | > 200 ≤ 250 | 275 | |
| Tensile Strength | Nominal thickness (mm) | Values (MPa) | EN 10025-3 (2004) |
| | ≤ 100 | 470 to 630 | |
| | > 100 ≤ 200 | 450 to 600 | |
| | > 200 ≤ 250 | 450 to 600 | |
| Elongation | Nominal thickness (mm) | Values (%) Min | EN 10025-3 (2004) |
| | ≤ 16 | 22 | |
| | > 16 ≤ 40 | 22 | |
| | > 40 ≤ 63 | 22 | |
| | > 63 ≤ 80 | 21 | |
| | > 80 ≤ 200 | 21 | |
| | > 200 ≤ 250 | 21 | |
| Impact strength for longitudinal test specimens KV | Test Temperature (°C) | Values (J) | EN 10025-3 (2004) |
| | + 20 | min 63 | |
| | 0 | min 55 | |
| | - 10 | min 51 | |
| | - 20 | min 47 | |
| | - 30 | min 40 | |
| | - 40 | min 31 | |
| | - 50 | min 27 | |



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Chemical composition of the ladle analysis

| | C % max. | Si % max. | Mn % | P % max. | S % max. | Nb % max. | V % max. | Al _{total} % min. | Ti % max. | Cr % max. | Ni % max. | Mo % max. | Cu % max. | N % max. |
|--------|-------------|--------------|-------------|-------------|-------------|--------------|-------------|-------------------------------|--------------|--------------|--------------|--------------|--------------|-------------|
| S355NL | 0.18 | 0.50 | 0.90 - 1.65 | 0.025 | 0.020 | 0.05 | 0.12 | 0.02 | 0.05 | 0.30 | 0.50 | 0.10 | 0.55 | 0.015 |

Maximum CEV based on the ladle analysis

| | Maximum CEV in % for nominal product thickness in mm | | |
|--------|--|------------|-------------|
| | ≤ 63 | > 63 ≤ 100 | > 100 ≤ 250 |
| S355NL | 0.43 | 0.45 | 0.45 |

- 8 The performance of the product identified in points 1 and 2 is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identify above

Signed for and on behalf of the manufacturer by:

Gary Robinson, Quality Manager

Gateshead, 15th of March 2018