

DECLARATION OF PERFORMANCE
(According to EU-REGULATION 305/2011, ANNEX III)

No: JSWHR_19

- 1) Unique identification code of the product-type: **1.8902 (S420N) - Hot Rolled products of structural steels.**
- 2) Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer: **To be used in welded, bolted and riveted structures.**
- 3) Name, registered trade name or registered trade mark and contact address of the manufacturer:

JSW STEEL LTD
JSW Centre, BandraKurla Complex, Bandra (EAST), Mumbai - 400051, INDIA
Ph: +91 22 42861000, FAX: +91 22 4286 3000, www.jsw.in

- 4) Where applicable, name and contact address of the authorised 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 of the construction product as set out in Annex V:

System 2+

6a) In case of the declaration of performance concerning a construction product covered by harmonized standard: **EN 10025-1: 2004** Notified factory production control certification body No. (**TÜV NORD Systems GmbH & Co. KG and Notified body number-0045**) performed the initial inspection of the manufacturing plant and of factory production control and the continuous surveillance, assessment and evaluation of factory production control and issued the certificate of conformity of the factory production control. **NO.0045-CPD-1090.**

6b) In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued: **Not applicable**

- 7) Declared performance

| Essential Characteristics | Performance | | | | Harmonized technical specification |
|---|------------------------|-------------------------------|----------|-------|------------------------------------|
| Tolerance on dimension and Shape | EN 10051 | | | | EN 10025-1: 2004 |
| | Nominal thickness (mm) | | | | |
| | $2.0 \geq T \leq 16.0$ | $16 < T \leq 25.0$ | | | |
| Yield Strength ReH (Mpa) | 420 min | 400 min | | | |
| | Nominal thickness (mm) | | | | |
| | < 3.0 | $\geq 3.0 \leq 25.0$ | | | |
| Tensile Strength Rm (Mpa) | 520-680 | 520-680 | | | |
| Elongation (transverse), % GL: $5.65 \sqrt{C/S_A}$ | Nominal thickness (mm) | | | | |
| | ≤ 16.0 | $> 16 \leq 25.0$ | | | |
| | 19 | 19 | | | |
| Impact Test (J) (transverse) | Temperature(°C) | Nominal thickness (mm) | | | |
| | +20, 0, -10, -20 | $T \leq 25.0$ | | | |
| | | 31 min, 27 min, 24 min, 20min | | | |
| Weldability (CEV) | CEV (%max.) | $T \leq 25.0$ | 0.48 | | |
| Durability(chemical composition for $T \leq 25.0$ mm) | C% max. | 0.20 | Nb% max | 0.05 | |
| | Si% max. | 0.60 | V% max | 0.20 | |
| | Mn% max. | 1.0-1.7 | Ti % max | 0.05 | |
| | P % max. | 0.03 | N% max. | 0.025 | |
| | S% max | 0.025 | Cu% max | 0.55 | |
| | Al total %min | 0.02 | Mo% max | 0.10 | |
| | Cr% max | 0.30 | Ni% max | 0.80 | |

- 8) Appropriate Technical Documentation and/or Specific Technical Documentation: **Not applicable**

The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:


Devasish Mishra
(Head- Product Design and Quality Control)
Vijayanagar Works