

DECLARATION OF PERFORMANCE

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

No: JSWHR_38

- 1) Unique identification code of the product-type: **1.0122 (S235JRC) - 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-CPR-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)				
	$1.6 \leq T \leq 16.0$	$16 < T \leq 25.0$			
Yield Strength ReH (Mpa)	235 min	225 min			
Tensile Strength Rm (Mpa)	360-510		360-510		
Elongation (Transverse)% GL :80 mm for T<3.0 mm GL: 5.65vC/sA for T≥3.0 mm	Nominal thickness (mm)				
	$1.5 < T \leq 2.0$	$2 < T \leq 2.5$	$2.5 < T < 3.0$	$3 \leq T \leq 25.0$	
	17	18	19	24	
	Nominal thickness (mm)				
Minimum Recommended inside Bend Radius (Transverse Direction) For Cold Flanging of flat products (applicable for bend angle ≤ 90°)	$>1.5T \leq 2.5$	$>2.5T \leq 3.0$	$>3.0T \leq 4.0$	$>4.0T \leq 5.0$	
	2.5	3	6	8	
	$>5.0T \leq 6.0$	$>6.0T \leq 7.0$	$>7.0T \leq 8.0$	$>8.0T \leq 10.0$	
	10	12	16	20	
	$>10.0T \leq 12.0$	$>12.0T \leq 14.0$	$>14.0T \leq 16.0$	$>16.0T \leq 18.0$	
	25	28	32	40	
	$>18.0T \leq 20.0$	$>20.0T \leq 25.0$			
	45	55			
Minimum Recommended inside Bend Radius for Cold roll forming of flat products (applicable for bend angle ≤ 90°)	Nominal thickness (mm)				
	$T \leq 4.0$	$>4.0 T \leq 6.0$	$>6.0 T \leq 8.0$		
	1T	1T	1.5T		
Impact Test (J)	Temperature	Nominal thickness (mm)			
	Ambient (20°C)	$T \leq 25.0$			
)	27 min			
Weldability (CEV)	CEV (%max.)	$T \leq 25.0$	0.35		
Durability(chemical composition for T≤25.0mm)	C% max.	0.17	S% max	0.035	
	Si%max.		N% max.	0.012	
	Mn% max.	1.4	Cu%max	0.55	
	P % max.	0.035	Other:2,3		

Note: 1) The max. value for nitrogen does not apply if the chemical composition shows a minimum Al total content of 0.02% or alternatively minimum 0.015% acid Soluble Al or if sufficient other N binding elements are present in this case the N binding element shall be mentioned in the inspection document 2) If other elements are added, they shall be mentioned in inspection document. 3) For element Ni, Cr, Mo the max. value % is limited to Ni :0.42, Cr:0.29, and Mo:0.11

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:



GV Ramana

(DGM- Product Design and Quality Control)

JSW Vijayanagar Works