



NOVOLIPETSK STEEL

2, Metallurgov sq., Lipetsk 398040, Russia | fax: +7 (4742) 44 11 11 | e-mail: info@nlmk.ru

DECLARATION OF PERFORMANCE

No. 1-CPR 305/2011

1. Unique identification code of the product-type: **hot –rolled constructional steel according to DIN EN 10025**

2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4)*: **S235JR (1.0038) according to DIN EN 10025**

3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer: **in the welded designs connected by bolts or rivets**

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5)*:

**Joint Stock Company "Novolipetsk Steel"
2, Metallurgov Sq, Lipetsk, Russia 398040.
e-mail: sp-tu@nlmk.ru**

5. Where applicable, name and contact address of the authorized representative whose mandate covers the tasks specified in Article 12(2)*:

**NOVEXCO (CYPRUS) LIMITED
1, Demofontos Street, Office 501, 1075 Nicosia, Cyprus**

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V: **System 2+**

7. In case of the declaration of performance concerning a construction product covered by a harmonised standard:

The Notified Body TUV-SUD Industrie Service GmbH №0036

performed the initial inspection of the manufacturing plant and of factory production control as well as continuous surveillance, assessment and evaluation of factory production control and issued Certificate of Conformity of Factory Production Control with **NO.0036-CPR-M-033-2010**.

*Regulation 305/2011 (EU), the European Parliament and the Council of Europe on 09.03.2011



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8. Declared performance S235JR DIN EN 10025

Essential characteristics	Performance													
Tolerances on dimensions	Nominal thickness (t) (mm)													
Yield strength ReH (MPa)	Type and grade	Nominal thickness (mm)												
		t ≤ 16	16 < t ≤ 40											
	S235JR	235 min										225 min		
Tensile strength Rm (MPa)	Type and grade	Nominal thickness (mm)												
		t < 3	3 ≤ t ≤ 100											
	S235JR	from 360 to 510										from 360 to 510		
Elongation (transverse) % GL: 80 mm for t < 3.0 mm S.65Sqrt A for t > 3.0 mm	Type and grade	Nominal thickness (mm)												
		1.5 < t ≤ 2	2 < t ≤ 2.5	2.5 < t < 3	3 ≤ t ≤ 40									
	S235JR	17	18	19	24									
Impact strength (J)	Type and grade	Temperature		Nominal thickness (mm)										EN 10025:1- 2004
		°C		t ≤ 150										
	S235JR	20		27										
Bending strength (transverse)	Grade	Minimal recommended internal bending radius for nominal thickness, mm												
		>1 ≤1,5	>1,5 ≤2,5	>2,5 ≤3,0	>3 ≤4	>4 ≤5	>5 ≤6	>6 ≤7	>7 ≤8	>8 ≤10	>10 ≤12	>12 ≤14	>14 ≤16	
	S235JR	1,6	2,5	3	5	6	8	10	12	16	20	25	28	
Weldability (CEV)	Type and grade	CEV (% max.)												
		t ≤ 30												
	S235JR	0.35												
Durability (Chemical composition for t < 30mm)	Type and grade	C % max.	Si % max.	Mn % max.	P % max.	S % max.	N % max.	Cu % max.						
	S235JR	0.17	-	1.40	0.035	0.035	0.012	0.55						

9. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 8.

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

Head of Technical Centre of
Joint Stock Company "NLMK"
Lipetsk, 29.11.2013



Gennadiy Eremin