

DECLARATION OF PERFORMANCE No. **SM1-S235JR**

1. Unique identification code of the product-type: **SMS235JR**

Product Name	Steel Grade	Standard
Round bars 16÷50 mm; Flat bars 70÷200x5÷40 mm; Square bars 16÷50 mm	S235JR	EN 10025-2:2019
Equal angle 70÷120x6÷12, Unequal angle 90x60x6÷120x80x12		
Plain C-profile UPN 80÷140x45÷60		
Plain C-profile UPE 80÷140x50÷65		
T-beam 80x80; 100x100; 120x120		
I-beam HE(A) 96x100, HE(B) 100x100		
I-beam IPE 80x46; 100x55; 120x64; 140x73, IPN 80x42; 100x50; 120x58; 140x66		

2. Intended use or uses:

For metal constructions or for composite constructions of metal and concrete

3. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5): **Cognor S.A. ul. Zielona 26, 42-360 Poraj, Oddział Ferrostal w Siemianowicach Śląskich
Pawła Stalmacha 8 Street, 41-106 Siemianowice Śląskie**
5. System or systems of assessment and verification of constancy of performance:
System 2+
6. Harmonized standard:

EN 10025-1:2004

The notified body: **Research and Certification Institute "ZETOM" the name of prof. Frederick Stauba
Ks. Bpa. H. Bednorza 17 Street, 40-384 Katowice**

Notified body registration number: 1436

7. Declared performance:

Essential characteristics	Performance		Harmonised technical specification						
Tolerance of measurements and shapes	Flat bars	PN-EN 10058	EN 10025-1:2004						
	Square bars	PN-EN 10059							
	Round bars	PN-EN 10060							
	Equal angle	PN-EN 10056-1, PN-EN 10056-2							
	Unequal angle	PN-EN 10056-1, PN-EN 10056-2							
	I-beam	PN-EN 10034, PN-EN 10024							
	Plain C-profile	PN-EN 10279							
	T-beam	PN-EN 10055							
Elongation	Nominal thickness t [mm]	Value S235JR							
	≥ 3 ≤ 40	min. 26 %							
	> 40 ≤ 63	min. 25 %							
Tensile strength Rm	Nominal thickness t [mm]	Value S235JR							
	≥ 3 ≤ 100	360 ÷ 510 [MPa]							
Yield strength Re	Nominal thickness t [mm]	Value S235JR							
	≤ 16	min. 235 [MPa]							
	> 16 ≤ 40	min. 225 [MPa]							
Impact strength- breaking work KV ^{1,2}	Nominal thickness t [mm]	Value S235JR							
	≤ 150	min. 27 [J]							
	> 150	min. 27 [J]							
Weldability CEV	Nominal thickness t [mm]	Value S235JR							
	≤ 30	max 0,35 %							
	> 30 ≤ 40	max 0,35 %							
Persistence (chemical composition)	Nominal thickness t [mm]	Value [%] S235JR							
		C _{max}	Si _{max}	Mn _{max}	P _{max} ³	S _{max} ³	N _{max} ⁴	Cu _{max}	
		≤ 16	0,17	-	1,40	0,035	0,035	0,012	0,55
		> 16 ≤ 40	0,17	-	1,40	0,035	0,035	0,012	0,55
		> 40	0,20	-	1,40	0,035	0,035	0,012	0,55

¹ Impact strength characteristics of the products of JR quality group shall be verified only if it was determined in the order; ² Impact strength tests should not be required for the products of nominal thickness of <6mm; ³ The content of P and S can be greater of 0,005%; ⁴ The specified value of nitrogen does not apply if the chemical composition indicates the content of the complete aluminium of min.0,020% or min.0,015% of absolute aluminium dissolved in acid or the sufficient composition of other nitrogen binding elements.

The performance of the product identified above is in line with the set of declared performances. This declaration of performance is issued in accordance with Regulation (EU) No 305/2011 under the sole responsibility of the manufacturer identified above.

Signed on behalf of the manufacturer: Przemysław Osiewicz - Plant Director - Proxy

**Cognor S.A. Oddział Ferrostal
w Siemianowicach Śląskich**

DYREKTOR ZAKŁADU / PROKURENT

Przemysław Osiewicz

October 31, 2025, Siemianowice Śląskie