Cognor S.A., ul. Zielona 26, 42-360 Poraj
Cognor S.A. Oddział Ferrostal Łabędy w Zawierciu

EU

DECLARATION OF PERFORMANCE

No. *WB-01-2017*

1. Unique identification code of the product-type:

WB10025

Nazwa wyrobu	Gatunek Stali	Norma
Round bars 10÷32 mm Flat bars 20÷150x4÷60 mm Square bars 10÷20 mm	S235JR S235J0 S235J2 S275JR S355JR S355J0 S355J2	EN 10025-2:2019
plain C-profile UPN 50	S235JR	

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. Oddział Ferrostal Łabędy w Zawierciu"
Okólna 10 Street, 42-400 Zawiercie
tel. +48(32)6710010

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

FERROSTAL ŁABĘDY
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7. Declared performance:

Essential characteristics	Performance								Harmonised technical specification
Tolerance of measurements and shapes	Flat bars	PN-EN 10058							EN 10025-2:2019
	Square bars	PN-EN 10059							
	Round bars	PN-EN 10060							
	Hot rolled steel channels	PN-EN 10279							
Elongation	Nominal thickness t [mm]	Value S235JR	Value S235J0	Value S235J2	Value S275JR	Value S355JR	Value S355J0	Value S355J2	
	4 ≤ t ≤ 40	min. 26 %	min. 26 %	min. 24 %	min. 23 %	min. 22 %	min. 22 %	min. 22 %	
	40 < t ≤ 60	min. 25 %	min. 25 %	min. 23 %	min. 22 %	min. 21 %	min. 21 %	min. 21 %	
Tensile strength Rm	Nominal thickness t [mm]	Value S235JR, S235J0, S235J2			Value S275JR		Value S355JR, S355J0, S355J2		
	4 ≤ t ≤ 60	360 ÷ 510 [MPa]			410 ÷ 560 [MPa]		470-630 [Mpa]		
Yield strenght Re	Nominal thickness t [mm]	Value S235JR, S235J0, S235J2			Value S275JR		Value S355JR, S355J0, S355J2		
	4 ≤ t ≤ 16	min. 235 [MPa]			min. 275 [MPa]		min. 355 [MPa]		
	16 < t ≤ 40	min. 225 [MPa]			min. 265 [MPa]		min. 345 [MPa]		
	40 < t ≤ 60	min. 215 [MPa]			min. 255 [MPa]		min. 335 [MPa]		
Impact strength- breaking work KV [1,2]	Nominal thickness t [mm]	Value S235JR, S235J0, S235J2, S275JR, S355JR, S355J0, S355J2							
	4 ≤ t ≤ 60	min. 27 [J]							
Weldability CEV	Nominal thickness t [mm]	Value S235JR, S235J0, S235J2			Value S275JR		Value S355JR, S355J0, S355J2		
	4 ≤ t ≤ 40	max 0,35 %			max 0,40 %		max 0,45 %		
	40 < t ≤ 60	max 0,38 %			max 0,42 %		max 0,47 %		
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	
	4 ≤ t ≤ 40	0,17	-	1,40	0,035	0,035	0,012	0,55	
	40 < t ≤ 60	0,20	-	1,40	0,035	0,035	0,012	0,55	
	Nominal thickness t[mm]	Value [%] S235J0							
		C max	Si max	Mn max	P max [3]	S max [3]	N max [4]	Cu max	
	4 ≤ t ≤ 60	0,17	-	1,40	0,030	0,030	0,012	0,55	
	Nominal thickness t[mm]	Value [%] S235J2							
		C max	Si max	Mn max	P max [3]	S max [3]	N max [4]	Cu max	
	4 ≤ t ≤ 60	0,17	-	1,40	0,025	0,025	-	0,55	
	Nominal thickness t[mm]	Value [%] S275JR							
		C max	Si max	Mn max	P max [3]	S max [3]	N max [4]	Cu max	
	4 ≤ t ≤ 40	0,21	-	1,50	0,035	0,035	0,012	0,55	
	40 < t ≤ 60	0,22	-	1,50	0,035	0,035	0,012	0,55	
	Nominal thickness t[mm]	Value [%] S355JR							
		C max	Si max	Mn max	P max [3]	S max [3]	N max [4]	Cu max	
	4 < t ≤ 60	0,24	0,55	1,60	0,035	0,035	0,012	0,55	
	Nominal thickness t[mm]	Value [%] S355J0							
		C max	Si max	Mn max	P max [3]	S max [3]	N max [4]	Cu max	
	4 ≤ t ≤ 40	0,20	0,55	1,60	0,030	0,030	0,012	0,55	
	40 < t ≤ 60	0,22	0,55	1,60	0,030	0,030	0,012	0,55	
	Nominal thickness t[mm]	Value [%] S355J2							
		C max	Si max	Mn max	P max [3]	S max [3]	N max [4]	Cu max	
	4 ≤ t ≤ 40	0,20	0,55	1,60	0,025	0,025	-	0,55	
	40 < t ≤ 60	0,22	0,55	1,60	0,025	0,025	-	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:
Krystian Gunia - Financial Director - Proxy

June 22, 2023, Zawiercie

Cognor S.A.
Oddział Ferrostal Łabędy
Krystian Gunia - Prokurent