

# DECLARATION OF PERFORMANCE

No. **WB-01-2017**

1. Unique identification code of the product-type:  
**WB10025**
2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4):  
**IRON BARS S235JR, S235JO, S235J2, S275JR, S355JR, S355JO S355J2 acc. PN-EN 10025-2:2019.**
3. Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:  
**For metal constructions or for composite constructions of metal and concrete**
4. 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**
5. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2):  
**Not applicable**
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:  
**PN-EN 10025-1:2007 IDT EN 10025-1:2004**  
The notified body - Research and Certification Institute “ZETOM” the name of prof. Frederick Stauba in Katowice-1436, performed the initial inspection of the Plant and Factory Production Control and conducted the constant inspection, assessment and evaluation of the Factory Production Control under system 2+ and issued: The Certificate of Conformity of the Factory Production Control (FPC) No 1436-CPR-0010
8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:  
**Not applicable**
9. Declared performance:  
**Specified in the table in Annex 1**
10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. 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:

Kazimierz Wątor - Organizational Director

**COGNOR S.A.**  
Oddział Ferrostal Łabędy w Zawierciu  
Szef Walcowni  
Dyrektor Organizacyjny  
*Kazimierz Wątor*

12th May 2020, Zawiercie

**Annex 1**  
to the Declaration of Performance No. WB-01-2017  
12th May 2020

Table

Essential characteristics	Performance								Harmonised technical specification
Tolerance of measurements and shapes	Flat bars	PN-EN 10058							
	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 strength 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 <sup>1,2</sup>	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 <sub>max</sub>	Si <sub>max</sub>	Mn <sub>max</sub>	P <sub>max</sub> <sup>3</sup>	S <sub>max</sub> <sup>3</sup>	N <sub>max</sub> <sup>4</sup>	Cu <sub>max</sub>	
	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 <sub>max</sub>	Si <sub>max</sub>	Mn <sub>max</sub>	P <sub>max</sub> <sup>3</sup>	S <sub>max</sub> <sup>3</sup>	N <sub>max</sub> <sup>4</sup>	Cu <sub>max</sub>	
	4 ≤ t ≤ 60	0,17	-	1,40	0,030	0,030	0,012	0,55	
	Nominal thickness t[mm]	Value [%] S235J2							
		C <sub>max</sub>	Si <sub>max</sub>	Mn <sub>max</sub>	P <sub>max</sub> <sup>3</sup>	S <sub>max</sub> <sup>3</sup>	N <sub>max</sub> <sup>4</sup>	Cu <sub>max</sub>	
	4 ≤ t ≤ 60	0,17	-	1,40	0,025	0,025	-	0,55	
	Nominal thickness t[mm]	Value [%] S275JR							
		C <sub>max</sub>	Si <sub>max</sub>	Mn <sub>max</sub>	P <sub>max</sub> <sup>3</sup>	S <sub>max</sub> <sup>3</sup>	N <sub>max</sub> <sup>4</sup>	Cu <sub>max</sub>	
	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 <sub>max</sub>	Si <sub>max</sub>	Mn <sub>max</sub>	P <sub>max</sub> <sup>3</sup>	S <sub>max</sub> <sup>3</sup>	N <sub>max</sub> <sup>4</sup>	Cu <sub>max</sub>	
	4 < t ≤ 60	0,24	0,55	1,60	0,035	0,035	0,012	0,55	
	Nominal thickness t[mm]	Value [%] S355J0							
		C <sub>max</sub>	Si <sub>max</sub>	Mn <sub>max</sub>	P <sub>max</sub> <sup>3</sup>	S <sub>max</sub> <sup>3</sup>	N <sub>max</sub> <sup>4</sup>	Cu <sub>max</sub>	
	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 <sub>max</sub>	Si <sub>max</sub>	Mn <sub>max</sub>	P <sub>max</sub> <sup>3</sup>	S <sub>max</sub> <sup>3</sup>	N <sub>max</sub> <sup>4</sup>	Cu <sub>max</sub>		
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		

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<sup>1</sup> Impact strength characteristics of the products of JR quality group shall be verified only if it was determined in the order.

<sup>2</sup> Impact strength tests should not be required for the products of nominal thickness of <6mm.

<sup>3</sup> The content of P and S can be greater of 0,005%.

<sup>4</sup> 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.

**COGNOR S.A.**  
 Oddział Ferrostal Labędy w Zawierciu  
 Szef Walcowni  
 Dyrektor Organizacyjny  
*Kazimierz Wątor*