

DECLARATION OF PERFORMANCE

 No. **WB-S235JR-04**

- Unique identification code of the product-type: **1.0038**
- 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 acc. PN-EN 10025-2:2007.
- 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
- Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5):
**"Zakład Walcowniczy- Walcownia Bruzdowa" Sp. z o.o.
Okólna 10 Street, 42-400 Zawiercie**
- Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2):
Not applicable
- System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:
System 2+
- 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 the Factory Production Control (FPC) No 1436-CPD-0010
- In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:
Not applicable
- Declared performance

Essential characteristics	Performance		Harmonised technical specification				
Tolerance of measurements and shapes	Flat bars	PN-EN 10058	PN-EN 10025-1:2007 IDT EN 10025-1:2004				
	Square bars	PN-EN 10059					
	Round bars	PN-EN 10060					
Elongation	Nominal thickness t(mm)	Value					
	4 ≤ t ≤ 40	min 26 %					
	40 < t ≤ 60	min 25 %					
Tensile strength Rm	Nominal thickness t(mm)	Value					
	4 ≤ t ≤ 60	360 ÷ 510 [MPa]					
Yield strength Re	Nominal thickness t(mm)	Value					
	4 ≤ t ≤ 16	min 235 [MPa]					
	16 < t ≤ 40	min 225 [MPa]					
Impact strength- breaking work KV ^{1,2}	Nominal thickness t(mm)	Value					
	4 ≤ t ≤ 60	min 27 [J]					
	Weldability CEV	Nominal thickness t(mm)	Value				
4 ≤ t ≤ 30		max 0,35 %					
30 < t ≤ 60		max 0,38 %					
Persistence (chemical composition)	Value (%)						
	C _{max}	Si	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
40 < t ≤ 60	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 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:

Krzysztof Liwoch- President of the Board

PREZES ZARZADU

 Krzysztof Liwoch

(signature)

Zawiercie 1st Jul 2013