



ArcelorMittal

Declaration of Performance

(according to regulation EU No 305/2011)

No. AMHU-2/01-CPR-13-1

1) Code of the product type: **1.0038**

2) Type: **Sections/Bars S235JR according EN 10025-2**

Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:

To be used in welded, bolted and riveted structures

ArcelorMittal Hunedoara SA

DJ 687, no. 4

Cod 331111, Hunedoara – Romania

Tel 004-0254712785

Fax 004-0254715311

www.arcelormittal.com/sections

System of assessment and verification of constancy of performance of the product:

System 2+

Notified factory production control certification body No. 1823 QUALITAS performed the initial inspection of the manufacturing plant and of factory production control and the continuous surveillance, assessment, and evaluation of factory production control and issued the certificate of conformity of the factory production control.

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

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 3. Signed for and on behalf of the manufacturer by:

Kumar Amit
CEO

Cristea Ileana
Quality Manager

Date : 01.07.2013

Essential characteristic		Performance	Harmonised technical specification
Tolerances on dimensions and shape	Angles	EN10056-2	EN 10025-1:2004
	I and H sections	EN 10034	
	Tapered Flange I	EN 10024	
	UPE, UPN	EN 10279	
Yield strength	Flat / Square / Round / T bars	EN 10058/EN 10059/EN 10060/EN 10055	
	Nominal thickness (mm)	Values (MPa)	
	>	min	
	16	235	
	40	225	
	63		
	80	215	
	100		
	140	195	
Tensile strength	Nominal thickness (mm)	Values (MPa)	
	>	min	
	=3	360	
	100	510	
	140	350	
Elongation	Nominal thickness (mm)	Values (%)	
	>	min	
	=3	26	
	40	25	
	63	24	
	100	22	
Impact strength	Nominal thickness (mm)	Values (J)	
	>	min	
	140	27 at +20°C	
Weldability	Nominal thickness (mm)	Values (%)	
	>	max	
	30	0.35	
	40	0.35	
	140	0.38	
Durability (Chemical composition)	Nominal thickness (mm)	Values (%)	
	>	max	
	140	Cu : 0,55 Mn : 1,40 S : 0,040 P : 0,040 N** : 0,012	

* For nominal thickness > 40 mm C: 0,20. For nominal thickness > 100 mm: C content upon agreement
 ** The max. value for nitrogen does not apply if the chemical composition shows a minimum total Al content of 0,020% or if sufficient other N binding elements are present



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Declaration of Performance
(according to regulation EU No 305/2011)

No. AMHU-2/04-CPR-13-1

1) Code of the product type: **1.0044**

2) Type: **Sections/Bars S275JR according EN 10025-2**

Intended use or uses of the construction product, in accordance with the applicable harmonised technical specification, as foreseen by the manufacturer:

To be used in welded, bolted and riveted structures

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3)

System of assessment and verification of constancy of performance of the product:
System 2+

Notified factory production control certification body No. 1823 QUALITAS performed the initial inspection of the manufacturing plant and of factory production control and the continuous surveillance, assessment, and evaluation of factory production control and issued the certificate of conformity of the factory production control.

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

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 3. Signed for and on behalf of the manufacturer by:

Kumar Amit
CEO

Cristea Ileana
Quality Manager

Date : 01.07.2013

Essential characteristic		Performance		Harmonised technical specification
Tolerances on dimensions and shape	Angles	EN10056-2		
	I and H sections	EN 10034		
	Tapered Flange I	EN 10024		
	UPE, UPN	EN 10279		
Yield strength	Flat / Square / Round / T bars	EN 10058/EN 10059/EN 10060/EN 10055		
	Nominal thickness (mm)	Values (MPa)		
	>	min	max	
	16	275		
	40	265		
	63	255		
	80	245		
	100	235		
	140	225		
Tensile strength	Nominal thickness (mm)	Values (MPa)		
	>	min	max	
	=3	410	560	
	100	400	540	
Elongation	Nominal thickness (mm)	Values (%)		
	>	min	max	
	=3	40	23	
	40	63	22	
	63	100	21	
Impact strength	Nominal thickness (mm)	Values (J)		
	>	min	max	
	140	27 at +20°C		
Weldability	Nominal thickness (mm)	Values (%)		
	>	max		
	30	0.40		
	40	0.40		
Durability (Chemical composition)	Nominal thickness (mm)	Values (%)		
	>	max		
	140	C* : 0,21 Mn : 1,50 P : 0,040	Cu : 0,55 S : 0,040 N** : 0,012	

* For nominal thickness > 40 mm C: 0,22. For nominal thickness > 100 mm, C content upon agreement
** The max. value for nitrogen does not apply if the chemical composition shows a minimum total Al content of 0,020% or if sufficient other N binding elements are present