



®

Notified body no.1823

**QUALITAS**acreditat pentru  
CERTIFICARE

SR EN ISO/CEI 17065 2013

CERTIFICAT DE ACREDITARE  
ON 069**FPC CERTIFICATION BODY**

ROMANIA, BUCHAREST, Spataru Preda street no.20, sector 5

**CERTIFICATE OF CONFORMITY OF THE  
FACTORY PRODUCTION CONTROL****No. 1823 - CPR - 0001**

In compliance with Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011 (the Construction products Regulation or CPR), this certificate applies to the construction product:

**HOTT ROLLED PRODUCTS OF STRUCTURAL STEELS**

with designation types, essential characteristics and the intended use  
mentioned in Appendixes 1 - 9 (\*)

placed on the market under the name or trade mark of :

**ARCELORMITTAL HUNEDOARA S.A.**

ROMANIA, town Hunedoara - DJ 687 no. 4, HUNEDOARA county

and produced in the manufacturing plant :

**ARCELORMITTAL HUNEDOARA S.A.**

ROMANIA, town Hunedoara - DJ 687 no. 4, HUNEDOARA county

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard:

**EN 10025-1:2004**

under system 2+ are applied and that

**the factory production control is assessed to be in conformity with the applicable requirements.**

This certificate was first issued on **10.09.2013** and will remain valid as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified factory production control certification body.

QUALITAS

EXECUTIV DIRECTOR

Dipl.Eng. **DOREL CIUCA**

BUCHAREST

DATE OF MODIFICATION (\*) : 29 September 2021

This certificate is accompanied by 9 Appendixes (9 pages), which are part of it.

This certificate replaces the Certificate of conformity of the factory production control, previously issued with the no.1823-CPR-0001 on 31 July 2020, with the modification ( extension) of the certified domain, indicated in Appendixes 1-9(\*)

Validity of this certificate is conditioned by the results of yearly surveillances.

The validity of the certificate may be confirmed by contacting QUALITAS, tel. 021/424.48.00, 021/424.48.01 or e-mail address: [qualitassa@yahoo.com](mailto:qualitassa@yahoo.com).

# APPENDIX I

at the Certificate of conformity of the Factory Production Control

No. 1823-CPR-0001

issued under the date of 29 September 2021 for the manufacturer

**ARCELORMITTAL HUNEDOARA S.A.**

Manufacturing plant in: ROMANIA, town Hunedoara - DJ 687 no. 4, HUNEDOARA county

## HOT ROLLED PRODUCTS OF STRUCTURAL STEELS :

Product-type name: Hot rolled sections of steel S 235 JR grade according EN 10025-2:2019

Product-type code: 1.0038

Essential characteristics	Performance	Harmonised technical specification		
Tolerances on dimensions and shape	Sections I with parallel flange: IPE 300, 270, 240, 220, 200, 180, 160, 140, 120, 100	EN 10365 EN 10034	EN 10025-1:2004	
	Sections H with parallel flange: HE 200 A, 180 A, 160 A, 140 A, 120 A, 100 A HE 200 B, 180 B, 160 B, 140 B, 120 B, 100 B HE 200 M, 180 M, 160 M, 140 M, 120 M, 100 M HE 160 AA, HE 140 AA, (*) HE 120 AA	EN 10365 EN 10034	EN 10025-1:2004	
	Sections I with taper flange: IPN 240, 220, 200, 180, 160, 140, 120	EN 10365 EN 10024	EN 10025-1:2004	
	Sections U with taper flange: UPN 260, 240, 220, 200, 180, 160, 140, 120, 100	EN 10365 EN 10279	EN 10025-1:2004	
	Sections: equal leg angles: L 200x200x28, 200x200x27, 200x200x26, 200x200x25, 200x200x24, 200x200x23, 200x200x22, 200x200x21, 200x200x20, 200x200x19, 200x200x18, 200x200x17, 200x200x16, 200x200x15, 200x200x14, 200x200x13, 180x180x20, 180x180x19, 180x180x18, 180x180x17, 180x180x16, 180x180x15, 180x180x14, 180x180x13, 160x160x20, 160x160x19, 160x160x18, 160x160x17, 160x160x16, 160x160x15, 160x160x14, 160x160x13, 160x160x12, 150x150x20, 150x150x19, 150x150x18, 150x150x17, 150x150x16, 150x150x15, 150x150x14, 150x150x13, 150x150x12, 150x150x11, 150x150x10 140x140x16, 140x140x15, 140x140x14 140x140x13, 140x140x12, 140x140x11 130x130x16, 130x130x15, 130x130x14 130x130x13, 130x130x12, 130x130x11	EN 10056-1 EN 10056-2	EN 10025-1:2004	
	Sections: Round 90, 100, 110, 120, 130, 140, 150	EN 10060	EN 10025-1:2004	
	Yield strength	Nominal thickness (mm) ≤ 16 > 16 ≤ 28	Values (MPa) min. 235 min. 225	EN 10025-1:2004
	Tensile strength	Nominal thickness (mm) ≥ 3 ..... ≤ 100	Values (MPa) min. 360 max. 510	EN 10025-1:2004
	Elongation	Nominal thickness (mm) ≥ 3 ..... ≤ 40	Values (%) min. 26	EN 10025-1:2004
	Impact strength	Nominal thickness (mm) ≤ 140	Values (J) min. 27 J <sub>a</sub> + 20°C	EN 10025-1:2004
Weldability	Nominal thickness (mm) ≤ 30	Values (%) max. 0,35	EN 10025-1:2004	
Durability (Chemical composition)	Nominal thickness (mm) ≤ 140	Values (%) C: max. 0,170 Mn: max. 1,400 P: max. 0,040 Cu: max. 0,550 S: max. 0,040 N* : max. 0,012	EN 10025-1:2004	

) The max. value for N 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.

**The intended use : in metallic constructions and in mixed steel - concrete structures.**



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# APPENDIX 2

at the Certificate of conformity of the Factory Production Control

No. 1823-CPR-0001

issued under the date of 29 September 2021 for the manufacturer

**ARCELORMITTAL HUNEDOARA S.A.**

Manufacturing plant in: ROMANIA, town Hunedoara - DJ 687 no. 4, HUNEDOARA county

## HOT ROLLED PRODUCTS OF STRUCTURAL STEELS :

Product-type name: Hot rolled sections of steel S 235 JO grade according EN 10025-2:2019

Product-type code: 1.0114

Essential characteristics

Performance

Harmonised technical specification

Essential characteristics	Performance	Harmonised technical specification
<b>Tolerances on dimensions and shape</b>		
Sections I with parallel flange: IPE 300, 270, 240, 220, 200, 180, 160, 140, 120, 100 IPEA 270, 240, 220, 200, 180	EN 10365 EN 10034	EN 10025-1:2004
Sections H with parallel flange: HE 200 A, 180 A, 160 A, 140 A, 120 A, 100 A HE 200 B, 180 B, 160 B, 140 B, 120 B, 100 B HE 200 M, 180 M, 160 M, 140 M, 120 M, 100 M HE 160 AA, HE 140 AA, (*) HE 120 AA	EN 10365 EN 10034	EN 10025-1:2004
Sections I with taper flange: IPN 240, 220, 200, 180, 160, 140, 120	EN 10365 EN 10024	EN 10025-1:2004
Sections U with taper flange: UPN 260, 240, 220, 200, 180, 160, 140, 120, 100	EN 10365 EN 10279	EN 10025-1:2004
Sections: equal leg angles: L 200x200x28, 200x200x27, 200x200x26, 200x200x25, 200x200x24, 200x200x23, 200x200x22, 200x200x21, 200x200x20, 200x200x19, 200x200x18, 200x200x17, 200x200x16, 200x200x15, 200x200x14, 200x200x13, 180x180x20, 180x180x19, 180x180x18, 180x180x17, 180x180x16, 180x180x15, 180x180x14, 180x180x13, 160x160x20, 160x160x19, 160x160x18, 160x160x17, 160x160x16, 160x160x15, 160x160x14, 160x160x13, 160x160x12, 150x150x20, 150x150x19, 150x150x18, 150x150x17, 150x150x16, 150x150x15, 150x150x14, 150x150x13, 150x150x12, 150x150x11, 150x150x10 140x140x16, 140x140x15, 140x140x14 140x140x13, 140x140x12, 140x140x11 130x130x16, 130x130x15, 130x130x14 130x130x13, 130x130x12, 130x130x11	EN 10365 EN 10024 EN 10365 EN 10279 EN 10056-1 EN 10056-2	EN 10025-1:2004 EN 10025-1:2004 EN 10025-1:2004 EN 10025-1:2004
Sections: Round 90,100, 110,120,130,140, 150	EN 10060	EN 10025-1:2004
<b>Yield strength</b>	Nominal thickness (mm) ≤ 16 >16 ≤ 28	Values (MPa) min. 235 min. 225
<b>Tensile strength</b>	Nominal thickness (mm) ≥ 3 ... ≤ 100	Values (MPa) min. 360 max. 510
<b>Elongation</b>	Nominal thickness (mm) ≥ 3 ... ≤ 40	Values (%) min. 26
<b>Impact strength</b>	Nominal thickness (mm) ≤ 140	Values (J) min. 27 la 0°C
<b>Weldability</b>	Nominal thickness (mm) ≤ 30	Values (%) max. 0,35
<b>Durability (Chemical composition)</b>	Nominal thickness (mm) ≤ 140	Values (%) C : max. 0,170 Mn: max. 1,400 P : max. 0,035 Cu: max. 0,550 S : max. 0,035 N : max. 0,012

\*) The max. value for N 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

**The intended use : in metallic constructions and in mixed steel - concrete structures.**



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# APPENDIX 3

at the Certificate of conformity of the Factory Production Control

No. 1823-CPR-0001

issued under the date of 29 September 2021 for the manufacturer

**ARCELORMITTAL HUNEDOARA S.A.**

Manufacturing plant in: ROMANIA, town Hunedoara - DJ 687 no. 4, HUNEDOARA county

## HOT ROLLED PRODUCTS OF STRUCTURAL STEELS :

Product-type name: Hot rolled sections of steel S 235 J2 grade according EN 10025-2:2019

Product-type code: 1.0117

Essential characteristics	Performance	Harmonised technical specification
<b>Tolerances on dimensions and shape</b>		
Sections I with parallel flange: IPE 300, 270, 240, 220, 200, 180, 160, 140, 120, 100	EN 10365 EN 10034	EN 10025-1:2004
Sections H with parallel flange: HE 200 A, 180 A, 160 A, 140 A, 120 A, 100 A HE 200 B, 180 B, 160 B, 140 B, 120 B, 100 B HE 200 M, 180 M, 160 M, 140 M, 120 M, 100 M	EN 10365 EN 10034	EN 10025-1:2004
Sections I with taper flange: IPN 240	EN 10365 EN 10024	EN 10025-1:2004
Sections U with taper flange: UPN 260, 240, 220, 200, 180, 160, 140, 120, 100	EN 10365 EN 10279	EN 10025-1:2004
Sections: equal leg angles: L 200x200x28, 200x200x27, 200x200x26, 200x200x25, 200x200x24, 200x200x23, 200x200x22, 200x200x21, 200x200x20, 200x200x19, 200x200x18, 200x200x17, 200x200x16, 200x200x15, 200x200x14, 200x200x13, 180x180x20, 180x180x19, 180x180x18, 180x180x17, 180x180x16, 180x180x15, 180x180x14, 180x180x13, 160x160x20, 160x160x19, 160x160x18, 160x160x17, 160x160x16, 160x160x15, 160x160x14, 160x160x13, 160x160x12, 150x150x20, 150x150x19, 150x150x18, 150x150x17, 150x150x16, 150x150x15, 150x150x14, 150x150x13, 150x150x12, 150x150x11, 150x150x10 140x140x16, 140x140x15, 140x140x14 140x140x13, 140x140x12, 140x140x11 130x130x16, 130x130x15, 130x130x14 130x130x13, 130x130x12, 130x130x11	EN 10056-1 EN 10056-2	EN 10025-1:2004
Sections: Round 90, 100, 110, 120, 130, 140, 150	EN 10060	EN 10025-1:2004
<b>Yield strength</b>	Nominal thickness (mm) ≤ 16 >16 ≤ 28	Values (MPa) min. 235 min. 225
<b>Tensile strength</b>	Nominal thickness (mm) ≥ 3 ... ≤ 100	Values (MPa) min. 360 max. 510
<b>Elongation</b>	Nominal thickness (mm) ≥ 3 ... ≤ 40	Values (%) min. 26
<b>Impact strength</b>	Nominal thickness (mm) ≤ 140	Values (J) min. 27 J <sub>a</sub> - 20°C
<b>Weldability</b>	Nominal thickness (mm) ≤ 30	Values (%) max. 0,35
<b>Durability (Chemical composition)</b>	Nominal thickness (mm) ≤ 140	Values (%) C : max. 0,170 Mn: max. 1,400 P : max. 0,030 Cu: max. 0,550 S : max. 0,030

The intended use : in metallic constructions and in mixed steel - concrete structures.



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# APPENDIX 4

at the Certificate of conformity of the Factory Production Control

No. 1823-CPR-0001

issued under the date of 29 September 2021 for the manufacturer

**ARCELORMITTAL HUNEDOARA S.A.**

Manufacturing plant in: ROMANIA, town Hunedoara - DJ 687 no. 4, HUNEDOARA county

## HOT ROLLED PRODUCTS OF STRUCTURAL STEELS :

Product-type name: Hot rolled sections of steel S 275 JR grade according EN 10025-2:2019

Product-type code: 1.0044

Essential characteristics	Performance	Harmonised technical specification
<b>Tolerances on dimensions and shape</b>		
Sections I with parallel flange: IPE 300, 270, 240, 220, 200, 180, 160, 140, 120, 100 IPEA 270, 240, 220, 200, 180	EN 10365 EN 10034	EN 10025-1:2004
Sections H with parallel flange: HE 200 A, 180 A, 160 A, 140 A, 120 A, 100 A HE 200 B, 180 B, 160 B, 140 B, 120 B, 100 B HE 200 M, 180 M, 160 M, 140 M, 120 M, 100 M	EN 10365 EN 10034	EN 10025-1:2004
HE 160 AA, HE 140 AA, (*) HE 120 AA		
Sections I with taper flange: IPN 240, 220, 200, 180, 160, 140, 120	EN 10365 EN 10024 EN 10365	EN 10025-1:2004 EN 10025-1:2004
Sections U with taper flange: UPN 260, 240, 220, 200, 180, 160, 140, 120, 100	EN 10279 EN 10056-1 EN 10056-2	EN 10025-1:2004
Sections: equal leg angles: L 200x200x28, 200x200x27, 200x200x26, 200x200x25, 200x200x24, 200x200x23, 200x200x22, 200x200x21, 200x200x20, 200x200x19, 200x200x18, 200x200x17, 200x200x16, 200x200x15, 200x200x14, 200x200x13, 180x180x20, 180x180x19, 180x180x18, 180x180x17, 180x180x16, 180x180x15, 180x180x14, 180x180x13, 160x160x20, 160x160x19, 160x160x18, 160x160x17, 160x160x16, 160x160x15, 160x160x14, 160x160x13, 160x160x12, 150x150x20, 150x150x19, 150x150x18, 150x150x17, 150x150x16, 150x150x15, 150x150x14, 150x150x13, 150x150x12, 150x150x11, 150x150x10 140x140x16, 140x140x15, 140x140x14 140x140x13, 140x140x12, 140x140x11 130x130x16, 130x130x15, 130x130x14 130x130x13, 130x130x12, 130x130x11		
Sections: Round 90,100,110,120,130,140,150	EN 10060	EN 10025-1:2004
<b>Yield strength</b>	<b>Values (MPa)</b> min. 275 min. 265	EN 10025-1:2004
<b>Tensile strength</b>	<b>Values (MPa)</b> min. 410 max. 560	EN 10025-1:2004
<b>Elongation</b>	<b>Values (%)</b> min. 23	EN 10025-1:2004
<b>Impact strength</b>	<b>Values (J)</b> min. 27 J <sub>a</sub> + 20°C	EN 10025-1:2004
<b>Weldability</b>	<b>Values (%)</b> max. 0,40	EN 10025-1:2004
<b>Durability (Chemical composition)</b>	<b>Values (%)</b> C: max. 0,210 Mn: max. 1,500 P: max. 0,040 Cu: max. 0,550 S: max. 0,040 N: max. 0,012	EN 10025-1:2004

) The max. value for N 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.

**The intended use : in metallic constructions and in mixed steel - concrete structures.**



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# APPENDIX 5

at the Certificate of conformity of the Factory Production Control

No. 1823-CPR-0001

issued under the date of 29 September 2021 for the manufacturer

**ARCELORMITTAL HUNEDOARA S.A.**

Manufacturing plant in: ROMANIA, town Hunedoara - DJ 687 no. 4, HUNEDOARA county

## HOT ROLLED PRODUCTS OF STRUCTURAL STEELS :

Product-type name: Hot rolled sections of steel S 275 JO grade according EN 10025-2:2019

Product-type code: 1.0143

Essential characteristics	Performance	Harmonised technical specification
<b>Tolerances on dimensions and shape</b> Sections I with parallel flange: IPE 300, 270, 240, 220, 200, 180, 160, 140, 120, 100 IPEA 270, 240, 220, 200, 180 Sections H with parallel flange: HE 200 A, 180 A, 160 A, 140 A, 120 A, 100 A HE 200 B, 180 B, 160 B, 140 B, 120 B, 100 B HE 200 M, 180 M, 160 M, 140 M, 120 M, 100 M HE 160 AA, HE 140 AA, (*) HE 120 AA Sections I with taper flange: IPN 240, 220, 200, 180, 160, 140, 120 Sections U with taper flange: UPN 260, 240, 220, 200, 180, 160, 140, 120, 100 Sections: equal leg angles: L 200x200x28, 200x200x27, 200x200x26, 200x200x25, 200x200x24, 200x200x23, 200x200x22, 200x200x21, 200x200x20, 200x200x19, 200x200x18, 200x200x17, 200x200x16, 200x200x15, 200x200x14, 200x200x13, 180x180x20, 180x180x19, 180x180x18, 180x180x17, 180x180x16, 180x180x15, 180x180x14, 180x180x13, 160x160x20, 160x160x19, 160x160x18, 160x160x17, 160x160x16, 160x160x15, 160x160x14, 160x160x13, 160x160x12, 150x150x20, 150x150x19, 150x150x18, 150x150x17, 150x150x16, 150x150x15, 150x150x14, 150x150x13, 150x150x12, 150x150x11, 150x150x10 140x140x16, 140x140x15, 140x140x14 140x140x13, 140x140x12, 140x140x11 130x130x16, 130x130x15, 130x130x14 130x130x13, 130x130x12, 130x130x11 Sections: Round 90,100,110,120,130,140,150	EN 10365 EN 10034 EN 10365 EN 10034 EN 10365 EN 10024 EN 10365 EN 10279 EN 10056-1 EN 10056-2 EN 10060	EN 10025-1:2004 EN 10025-1:2004 EN 10025-1:2004 EN 10025-1:2004 EN 10025-1:2004 EN 10025-1:2004
<b>Yield strength</b> Nominal thickness (mm) ≤ 16 >16 ≤ 28	<b>Values (MPa)</b> min. 275 min. 265	EN 10025-1:2004
<b>Tensile strength</b> Nominal thickness (mm) ≥ 3 ... ≤ 100	<b>Values (MPa)</b> min. 410 max. 560	EN 10025-1:2004
<b>Elongation</b> Nominal thickness (mm) ≥ 3 ... ≤ 40	<b>Values (%)</b> min. 23	EN 10025-1:2004
<b>Impact strength</b> Nominal thickness (mm) ≤ 140	<b>Values (J)</b> min. 27 la 0°C	EN 10025-1:2004
<b>Weldability</b> Nominal thickness (mm) ≤ 30	<b>Values (%)</b> max. 0,40	EN 10025-1:2004
<b>Durability (Chemical composition)</b> Nominal thickness (mm) ≤ 140	<b>Values (%)</b> C: max. 0,180 Mn: max. 1,500 P: max. 0,035 Cu: max. 0,550 S: max. 0,035 N: max. 0,012	EN 10025-1:2004

) The max. value for N 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.

**The intended use : in metallic constructions and in mixed steel - concrete structures.**



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# APPENDIX 6

at the Certificate of conformity of the Factory Production Control

No. 1823-CPR-0001

issued under the date of 29 September 2021 for the manufacturer

**ARCELORMITTAL HUNEDOARA S.A.**

Manufacturing plant in: ROMANIA, town Hunedoara - DJ 687 no. 4, HUNEDOARA county

## HOT ROLLED PRODUCTS OF STRUCTURAL STEELS :

Product-type name: Hot rolled sections of steel S 275 J2 grade according EN 10025-2:2019

Product-type code: 1.0145

Essential characteristics	Performance	Harmonised technical specification
<b>Tolerances on dimensions and shape</b>		
Sections I with parallel flange: IPE 300, 270, 240, 220, 200, 180, 160, 140, 120, 100	EN 10365 EN 10034	EN 10025-1:2004
Sections H with parallel flange: HE 200 A, 180 A, 160 A, 140 A, 120 A, 100 A HE 200 B, 180 B, 160 B, 140 B, 120 B, 100 B HE 200 M, 180 M, 160 M, 140 M, 120 M, 100 M	EN 10365 EN 10034	EN 10025-1:2004
Sections I with taper flange: IPN 240	EN 10365 EN 10024	EN 10025-1:2004
Sections U with taper flange: UPN 260, 240, 220, 200, 180, 160, 140, 120, 100	EN 10365 EN 10279	EN 10025-1:2004
Sections: equal leg angles: L 200x200x28, 200x200x27, 200x200x26, 200x200x25, 200x200x24, 200x200x23, 200x200x22, 200x200x21, 200x200x20, 200x200x19, 200x200x18, 200x200x17, 200x200x16, 200x200x15, 200x200x14, 200x200x13, 180x180x20, 180x180x19, 180x180x18, 180x180x17, 180x180x16, 180x180x15, 180x180x14, 180x180x13, 160x160x20, 160x160x19, 160x160x18, 160x160x17, 160x160x16, 160x160x15, 160x160x14, 160x160x13, 160x160x12, 150x150x20, 150x150x19, 150x150x18, 150x150x17, 150x150x16, 150x150x15, 150x150x14, 150x150x13, 150x150x12, 150x150x11, 150x150x10, 140x140x16, 140x140x15, 140x140x14, 140x140x13, 140x140x12, 140x140x11, 130x130x16, 130x130x15, 130x130x14, 130x130x13, 130x130x12, 130x130x11	EN 10056-1 EN 10056-2	EN 10025-1:2004
Sections: Round 90,100,110,120,130,140,150	EN 10060	EN 10025-1:2004
<b>Yield strength</b>	Values (MPa) min. 275	EN 10025-1:2004
	min. 265	
<b>Tensile strength</b>	Values (MPa) min. 410 max. 560	EN 10025-1:2004
<b>Elongation</b>	Values (%) min. 23	EN 10025-1:2004
<b>Impact strength</b>	Values (J) min. 27 la - 20°C	EN 10025-1:2004
<b>Weldability</b>	Values (%) max. 0,40	EN 10025-1:2004
<b>Durability (Chemical composition)</b>	Values (%) C : max. 0,180 Mn: max. 1,500 P : max. 0,030 Cu: max. 0,550 S : max. 0,030	EN 10025-1:2004

The intended use : in metallic constructions and in mixed steel - concrete structures.



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# APPENDIX 7

at the Certificate of conformity of the Factory Production Control  
**No. 1823-CPR-0001**  
 issued under the date of **29 September 2021** for the manufacturer  
**ARCELORMITTAL HUNEDOARA S.A.**

Manufacturing plant in: ROMANIA, town Hunedoara - DJ 687 no. 4, HUNEDOARA county

## HOT ROLLED PRODUCTS OF STRUCTURAL STEELS :

Product-type name: Hot rolled sections of steel S 355 JR grade according EN 10025-2:2019

Product-type code: 1.0045

Essential characteristics	Performance	Harmonised technical specification
<b>Tolerances on dimensions and shape</b>	EN 10365 EN 10034 EN 10365 EN 10034	EN 10025-1:2004 EN 10025-1:2004
Sections I with parallel flange: IPE 300, 270, 240, 220, 200, 180, 160, 140, 120, 100 Sections H with parallel flange: HE 200 A, 180 A, 160 A, 140 A, 120 A, 100 A HE 200 B, 180 B, 160 B, 140 B, 120 B, 100 B HE 200 M, 180 M, 160 M, 140 M, 120 M, 100 M Sections I with taper flange: IPN 240 Sections U with taper flange: UPN 260, 240, 220, 200, 180, 160, 140, 120, 100 Sections: equal leg angles: L 200x200x28, 200x200x27, 200x200x26, 200x200x25, 200x200x24, 200x200x23, 200x200x22, 200x200x21, 200x200x20, 200x200x19, 200x200x18, 200x200x17, 200x200x16, 200x200x15, 200x200x14, 200x200x13, 180x180x20, 180x180x19, 180x180x18, 180x180x17, 180x180x16, 180x180x15, 180x180x14, 180x180x13, 160x160x20, 160x160x19, 160x160x18, 160x160x17, 160x160x16, 160x160x15, 160x160x14, 160x160x13, 160x160x12, 150x150x20, 150x150x19, 150x150x18, 150x150x17, 150x150x16, 150x150x15, 150x150x14, 150x150x13, 150x150x12, 150x150x11, 150x150x10 140x140x16, 140x140x15, 140x140x14 140x140x13, 140x140x12, 140x140x11 130x130x16, 130x130x15, 130x130x14 130x130x13, 130x130x12, 130x130x11 Sections: Round 90,100,110,120,130,140, 150,	EN 10365 EN 10024 EN 10365 EN 10279 EN 10056-1 EN 10056-2	EN 10025-1:2004 EN 10025-1:2004 EN 10025-1:2004 EN 10025-1:2004
<b>Yield strength</b>	EN 10060	EN 10025-1:2004
<b>Tensile strength</b>	Values (MPa) min. 355 min. 345	EN 10025-1:2004
<b>Elongation</b>	Values (MPa) min. 470 max. 630	EN 10025-1:2004
<b>Impact strength</b>	Values (%) min. 22	EN 10025-1:2004
<b>Weldability</b>	Values (J) min. 27 Ia + 20°C	EN 10025-1:2004
<b>Durability (Chemical composition )</b>	Values (%) max. 0,45 Values (%) C : max. 0,240 Mn: max. 1,600 Si: max. 0,550 Cu: max. 0,550 S : max. 0,040 P: max. 0,040 N : max. 0,012	EN 10025-1:2004 EN 10025-1:2004

) The max. value for N 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.

**The intended use : in metallic constructions and in mixed steel - concrete structures.**



QUALITAS  
 EXECUTIV DIRECTOR  
 Dipl.Eng. DOREL CIUCA



# APPENDIX 8

at the Certificate of conformity of the Factory Production Control

No. 1823-CPR-0001

issued under the date of 29 September 2021 for the manufacturer

**ARCELORMITTAL HUNEDOARA S.A.**

Manufacturing plant in: ROMANIA, town Hunedoara - DJ 687 no. 4, HUNEDOARA county

## HOT ROLLED PRODUCTS OF STRUCTURAL STEELS :

Product-type name: Hot rolled sections of steel S 355 JO grade according EN 10025-2:2019

Product-type code: 1.0553

Essential characteristics	Performance	Harmonised technical specification
<b>Tolerances on dimensions and shape</b>	EN 10365 EN 10034 EN 10365 EN 10034 EN 10365 EN 10024 EN 10365 EN 10279 EN 10056-1 EN 10056-2	EN 10025-1:2004 EN 10025-1:2004 EN 10025-1:2004 EN 10025-1:2004 EN 10025-1:2004 EN 10025-1:2004 EN 10025-1:2004 EN 10025-1:2004
<b>Yield strength</b>	EN 10060	EN 10025-1:2004
<b>Tensile strength</b>	min. 470	EN 10025-1:2004
<b>Elongation</b>	min. 22	EN 10025-1:2004
<b>Impact strength</b>	min. 27 J at 0°C	EN 10025-1:2004
<b>Weldability</b>	max. 0,45	EN 10025-1:2004
<b>Durability (Chemical composition)</b>	max. 0,012 C: max. 0,200 Si: max. 0,550 Mn: max. 1,600 P: max. 0,035 Cu: max. 0,550 S: max. 0,035 N: max. 0,012	EN 10025-1:2004

) The max. value for N 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.

**The intended use : in metallic constructions and in mixed steel - concrete structures.**



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# APPENDIX 9

at the Certificate of conformity of the Factory Production Control

No. 1823-CPR-0001

issued under the date of 29 September 2021 for the manufacturer

**ARCELORMITTAL HUNEDOARA S.A.**

Manufacturing plant in: ROMANIA, town Hunedoara - DJ 687 no. 4, HUNEDOARA county

## HOT ROLLED PRODUCTS OF STRUCTURAL STEELS :

Product-type name: Hot rolled sections of steel S 355 J2 grade according EN 10025-2:2019

Product-type code: 1.0577

Essential characteristics	Performance	Harmonised technical specification	
<b>Tolerances on dimensions and shape</b>			
Sections I with parallel flange: IPE 300, 270, 240, 220, 200, 180, 160, 140, 120, 100	EN 10365 EN 10034 EN 10365 EN 10034	EN 10025-1:2004 EN 10025-1:2004	
Sections H with parallel flange: HE 200 A, 180 A, 160 A, 140 A, 120 A, 100 A HE 200 B, 180 B, 160 B, 140 B, 120 B, 100 B HE 200 M, 180 M, 160 M, 140 M, 120 M, 100 M			
Sections I with taper flange: IPN 240	EN 10365 EN 10024	EN 10025-1:2004	
Sections U with taper flange: UPN 260, 240, 220, 200, 180, 160, 140, 120, 100	EN 10365 EN 10279	EN 10025-1:2004	
Sections: equal leg angles: L 200x200x28, 200x200x27, 200x200x26, 200x200x25, 200x200x24, 200x200x23, 200x200x22, 200x200x21, 200x200x20, 200x200x19, 200x200x18, 200x200x17, 200x200x16, 200x200x15, 200x200x14, 200x200x13, 180x180x20, 180x180x19, 180x180x18, 180x180x17, 180x180x16, 180x180x15, 180x180x14, 180x180x13, 160x160x20, 160x160x19, 160x160x18, 160x160x17, 160x160x16, 160x160x15, 160x160x14, 160x160x13, 160x160x12, 150x150x20, 150x150x19, 150x150x18, 150x150x17, 150x150x16, 150x150x15, 150x150x14, 150x150x13, 150x150x12, 150x150x11, 150x150x10 140x140x16, 140x140x15, 140x140x14 140x140x13, 140x140x12, 140x140x11 130x130x16, 130x130x15, 130x130x14 130x130x13, 130x130x12, 130x130x11	EN 10056-1 EN 10056-2	EN 10025-1:2004 EN 10025-1:2004	
Sections: Round 90,100,110,120,130,140,150	EN 10060	EN 10025-1:2004	
<b>Yield strength</b>	Nominal thickness (mm) ≤ 16 >16 ≤ 28	Values (MPa) min. 355 min. 345	EN 10025-1:2004
<b>Tensile strength</b>	Nominal thickness (mm) ≥ 3 ... ≤ 100	Values (MPa) min. 470 max. 630	EN 10025-1:2004
<b>Elongation</b>	Nominal thickness (mm) ≥ 3 ... ≤ 40	Values (%) min. 22	EN 10025-1:2004
<b>Impact strength</b>	Nominal thickness (mm) ≤ 140	Values (J) min. 27 J <sub>a</sub> - 20°C	EN 10025-1:2004
<b>Weldability</b>	Nominal thickness (mm) ≤ 30	Values (%) max. 0,45	EN 10025-1:2004
<b>Durability (Chemical composition)</b>	Nominal thickness (mm) ≤ 140	Values (%) C: max. 0,200 Si: max. 0,550 Mn: max. 1,600 Cu: max. 0,550 S: max. 0,030 P: max. 0,030	EN 10025-1:2004

The intended use : in metallic constructions and in mixed steel - concrete structures.



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