



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

No. AMZA-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

3) ArcelorMittal Zaragoza, S.A.
Avda. de José López Soriano, nº 100
Parque Tecnológico de Reciclado López Soriano
Ctra.Torrecilla de Valmadrid, Km. 1,95
50720 La Cartuja Baja - ZARAGOZA
T +34 976 466 171
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. 0099 Asociación Española de Normalización y Certificación (AENOR) 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:

Merouane Lakehal
Quality and Environment Mgr.

Date : 01.07.2013

Essential characteristic		Performance		Harmonised technical specification
Tolerances on dimensions and shape	Angles		EN 10056-2	
	I and H sections		EN 10034	
	Tapered Flange I		EN 10024	
	UPE, UPN		EN 10279	
	Flat / Square / Round / T bars		EN 10058, AM Standard (Wide flats)/ EN 10059/EN 10060/EN 10055	
Yield strength	Nominal thickness (mm)		Values (MPa)	
	>	≤	min	
		16	235	
	16	40	225	
	40	63	215	
	63	80		
	80	100		
100	140	195		
Tensile strength	Nominal thickness (mm)		Values (MPa)	
	>	≤	min	max
	=3	100	360	510
	100	140	350	500
Elongation	Nominal thickness (mm)		Values (%)	
	>	≤	min	
	=3	40	26	
	40	63	25	
	63	100	24	
	100	140	22	
Impact strength	Nominal thickness (mm)		Values (J)	
	>	≤	min	
		140	27 at +20°C	
Weldability	Nominal thickness (mm)		Values (%)	
	>	≤	max	
		30	0,35	
	30	40	0,35	
	40	140	0,38	
Durability (Chemical composition)	Nominal thickness (mm)		Values (%)	
	>	≤	max	
		140	C* : 0,17	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				

EN 10025-1:2004

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

No. AMZA-2/02-CPR-13-1

1) Code of the product type: **1.0114**

2) Type: **Sections/Bars S235J0 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

3) ArcelorMittal Zaragoza, S.A.
Avda. de José López Soriano, nº 100
Parque Tecnológico de Reciclado López Soriano
Ctra.Torrecilla de Valmadrid, Km. 1,95
50720 La Cartuja Baja - ZARAGOZA
T +34 976 466 171
www.arcelormittal.com/sections

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

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Merouane Lakehal
Quality and Environment Mgr.



Date : 01.07.2013

Essential characteristic		Performance		Harmonised technical specification
Tolerances on dimensions and shape	Angles		EN 10056-2	
	I and H sections		EN 10034	
	Tapered Flange I		EN 10024	
	UPE, UPN		EN 10279	
	Flat / Square / Round / T bars		EN 10058, AM Standard (Wide flats)/ EN 10059/EN 10060/EN 10055	
Yield strength	Nominal thickness (mm)		Values (MPa)	
	>	≤	min	
		16	235	
	16	40	225	
	40	63	215	
	63	80		
	80	100		
100	140	195		
Tensile strength	Nominal thickness (mm)		Values (MPa)	
	>	≤	min	max
	=3	100	360	510
	100	140	350	500
Elongation	Nominal thickness (mm)		Values (%)	
	>	≤	min	
	=3	40	26	
	40	63	25	
	63	100	24	
	100	140	22	
Impact strength	Nominal thickness (mm)		Values (J)	
	>	≤	min	
		140	27 at 0°C	
Weldability	Nominal thickness (mm)		Values (%)	
	>	≤	max	
		30	0,35	
	30	40	0,35	
	40	140	0,38	
Durability (Chemical composition)	Nominal thickness (mm)		Values (%)	
	>	≤	max	
		140	C* : 0,17 Mn : 1,40 P : 0,035	Cu : 0,55 S : 0,035 N** : 0,012
* 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				

EN 10025-1:2004

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

No. AMZA-2/03-CPR-13-1

1) Code of the product type: **1.0117**

2) Type: **Sections/Bars S235J2 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

3) ArcelorMittal Zaragoza, S.A.
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Parque Tecnológico de Reciclado López Soriano
Ctra.Torrecilla de Valmadrid, Km. 1,95
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T +34 976 466 171
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System of assessment and verification of constancy of performance of the product:
System 2+

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Quality and Environment Mgr.



Date : 01.07.2013

Essential characteristic		Performance		Harmonised technical specification
Tolerances on dimensions and shape	Angles		EN 10056-2	
	I and H sections		EN 10034	
	Tapered Flange I		EN 10024	
	UPE, UPN		EN 10279	
	Flat / Square / Round / T bars		EN 10058, AM Standard (Wide flats)/ EN 10059/EN 10060/EN 10055	
Yield strength	Nominal thickness (mm)		Values (MPa)	
	>	≤	min	
		16	235	
	16	40	225	
	40	63	215	
	63	80		
	80	100		
100	140	195		
Tensile strength	Nominal thickness (mm)		Values (MPa)	
	>	≤	min	max
	≤3	100	360	510
	100	140	350	500
Elongation	Nominal thickness (mm)		Values (%)	
	>	≤	min	
	≤3	40	26	
	40	63	25	
	63	100	24	
	100	140	22	
Impact strength	Nominal thickness (mm)		Values (J)	
	>	≤	min	
		140	27 at -20°C	
Weldability	Nominal thickness (mm)		Values (%)	
	>	≤	max	
		30	0,35	
	30	40	0,35	
	40	140	0,38	
Durability (Chemical composition)	Nominal thickness (mm)		Values (%)	
	>	≤	max	
		140	C* : 0,17 Mn : 1,40 P : 0,030	Cu : 0,55 S : 0,030
* For nominal thickness >100 mm: C content upon agreement. Fully killed steel containing nitrogen binding element in amounts sufficient to bind the available nitrogen (for example min. 0,02% Al)				

EN 10025-1:2004



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

No. AMZA-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

3) ArcelorMittal Zaragoza, S.A.
Avda. de José López Soriano, nº 100
Parque Tecnológico de Reciclado López Soriano
Ctra.Torrecilla de Valmadrid, Km. 1,95
50720 La Cartuja Baja - ZARAGOZA
T +34 976 466 171

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. 0099 Asociación Española de Normalización y Certificación (AENOR) 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.

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Merouane Lakehal
Quality and Environment Mgr.

Date : 01.07.2013

Essential characteristic		Performance		Harmonised technical specification
Tolerances on dimensions and shape	Angles		EN 10056-2	
	I and H sections		EN 10034	
	Tapered Flange I		EN 10024	
	UPE, UPN		EN 10279	
	Flat / Square / Round / T bars		EN 10058, AM Standard (Wide flats)/ EN 10059/EN 10060/EN 10055	
Yield strength	Nominal thickness (mm)		Values (MPa)	
	>	≤	min	
		16	275	
	16	40	265	
	40	63	255	
	63	80	245	
	80	100	235	
100	140	225		
Tensile strength	Nominal thickness (mm)		Values (MPa)	
	>	≤	min	max
	=3	100	410	560
	100	140	400	540
Elongation	Nominal thickness (mm)		Values (%)	
	>	≤	min	
	=3	40	23	
	40	63	22	
	63	100	21	
100	140	19		
Impact strength	Nominal thickness (mm)		Values (J)	
	>	≤	min	
		140	27 at +20°C	
Weldability	Nominal thickness (mm)		Values (%)	
	>	≤	max	
		30	0,40	
	30	40	0,40	
40	140	0,42		
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				

EN 10025-1:2004

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

No. AMZA-2/05-CPR-13-1

1) Code of the product type: **1.0143**

2) Type: **Sections/Bars S275J0 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

3) ArcelorMittal Zaragoza, S.A.
Avda. de José López Soriano, nº 100
Parque Tecnológico de Reciclado López Soriano
Ctra.Torrecilla de Valmadrid, Km. 1,95
50720 La Cartuja Baja - ZARAGOZA
T +34 976 466 171
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. 0099 Asociación Española de Normalización y Certificación (AENOR) 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.

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Merouane Lakehal
Quality and Environment Mgr.



Date : 01.07.2013

Essential characteristic		Performance		Harmonised technical specification
Tolerances on dimensions and shape	Angles		EN 10056-2	
	I and H sections		EN 10034	
	Tapered Flange I		EN 10024	
	UPE, UPN		EN 10279	
	Flat / Square / Round / T bars		EN 10058, AM Standard (Wide flats)/ EN 10059/EN 10060/EN 10055	
Yield strength	Nominal thickness (mm)		Values (MPa)	
	>	≤	min	
		16	275	
	16	40	265	
	40	63	255	
	63	80	245	
	80	100	235	
100	140	225		
Tensile strength	Nominal thickness (mm)		Values (MPa)	
	>	≤	min	max
	=3	100	410	560
	100	140	400	540
Elongation	Nominal thickness (mm)		Values (%)	
	>	≤	min	
	=3	40	23	
	40	63	22	
	63	100	21	
100	140	19		
Impact strength	Nominal thickness (mm)		Values (J)	
	>	≤	min	
		140	27 at 0°C	
Weldability	Nominal thickness (mm)		Values (%)	
	>	≤	max	
		30	0,40	
	30	40	0,40	
40	140	0,42		
Durability (Chemical composition)	Nominal thickness (mm)		Values (%)	
	>	≤	max	
		140	C* : 0,18 Mn : 1,50 P : 0,035	Cu : 0,55 S : 0,035 N** : 0,012
* 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				

EN 10025-1:2004



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

No. AMZA-2/06-CPR-13-1

1) Code of the product type: **1.0145**

2) Type: **Sections/Bars S275J2 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

3) ArcelorMittal Zaragoza, S.A.
Avda. de José López Soriano, nº 100
Parque Tecnológico de Reciclado López Soriano
Ctra.Torrecilla de Valmadrid, Km. 1,95
50720 La Cartuja Baja - ZARAGOZA
T +34 976 466 171
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. 0099 Asociación Española de Normalización y Certificación (AENOR) 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.

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Merouane Lakehal
Quality and Environment Mgr.

Date : 01.07.2013

Essential characteristic		Performance		Harmonised technical specification
Tolerances on dimensions and shape	Angles		EN 10056-2	
	I and H sections		EN 10034	
	Tapered Flange I		EN 10024	
	UPE, UPN		EN 10279	
	Flat / Square / Round / T bars		EN 10058, AM Standard (Wide flats)/ EN 10059/EN 10060/EN 10055	
Yield strength	Nominal thickness (mm)		Values (MPa)	
	>	≤	min	
		16	275	
	16	40	265	
	40	63	255	
	63	80	245	
	80	100	235	
100	140	225		
Tensile strength	Nominal thickness (mm)		Values (MPa)	
	>	≤	min	max
	≤3	100	410	560
	100	140	400	540
Elongation	Nominal thickness (mm)		Values (%)	
	>	≤	min	
	≤3	40	23	
	40	63	22	
	63	100	21	
100	140	19		
Impact strength	Nominal thickness (mm)		Values (J)	
	>	≤	min	
		140	27 at -20°C	
Weldability	Nominal thickness (mm)		Values (%)	
	>	≤	max	
		30	0,40	
	30	40	0,40	
40	140	0,42		
Durability (Chemical composition)	Nominal thickness (mm)		Values (%)	
	>	≤	max	
		140	C* : 0,18 Mn : 1,50 P : 0,030	Cu : 0,55 S : 0,030
* For nominal thickness >100 mm: C content upon agreement. Fully killed steel containing nitrogen binding element in amounts sufficient to bind the available nitrogen (for example min. 0,02% Al)				

EN 10025-1:2004



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

No. AMZA-2/07-CPR-13-1

1) Code of the product type: **1.0045**

2) Type: **Sections/Bars S355JR 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

3) ArcelorMittal Zaragoza, S.A.
Avda. de José López Soriano, nº 100
Parque Tecnológico de Reciclado López Soriano
Ctra.Torrecilla de Valmadrid, Km. 1,95
50720 La Cartuja Baja - ZARAGOZA
T +34 976 466 171
www.arcelormittal.com/sections

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

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Quality and Environment Mgr.

Date : 01.07.2013

Essential characteristic		Performance		Harmonised technical specification
Tolerances on dimensions and shape	Angles		EN 10056-2	
	I and H sections		EN 10034	
	Tapered Flange I		EN 10024	
	UPE, UPN		EN 10279	
	Flat / Square / Round / T bars		EN 10058, AM Standard (Wide flats)/ EN 10059/EN 10060/EN 10055	
Yield strength	Nominal thickness (mm)		Values (MPa)	
	>	≤	min	
		16	355	
	16	40	345	
	40	63	335	
	63	80	325	
	80	100	315	
100	140	295		
Tensile strength	Nominal thickness (mm)		Values (MPa)	
	>	≤	min	max
	=3	100	470	630
	100	140	450	600
Elongation	Nominal thickness (mm)		Values (%)	
	>	≤	min	
	=3	40	22	
	40	63	21	
	63	100	20	
100	140	18		
Impact strength	Nominal thickness (mm)		Values (J)	
	>	≤	min	
		140	27 at +20°C	
Weldability	Nominal thickness (mm)		Values (%)	
	>	≤	max	
		30	0,45	
	30	40	0,47	
40	140	0,47		
Durability (Chemical composition)	Nominal thickness (mm)		Values (%)	
	>	≤	max	
		140	C* : 0,24 Si : 0,55 Mn : 1,60 P : 0,040	Cu : 0,55 S : 0,040 N** : 0,012
* 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				

EN 10025-1:2004

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

No. AMZA-2/08-CPR-13-1

- 1) Code of the product type: **1.0553**
2) Type: **Sections/Bars S355J0 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

- 3) ArcelorMittal Zaragoza, S.A.
Avda. de José López Soriano, nº 100
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Ctra.Torrecilla de Valmadrid, Km. 1,95
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T +34 976 466 171
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System of assessment and verification of constancy of performance of the product:
System 2+

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Merouane Lakehal
Quality and Environment Mgr.



Date : 01.07.2013

Essential characteristic		Performance		Harmonised technical specification
Tolerances on dimensions and shape	Angles		EN 10056-2	
	I and H sections		EN 10034	
	Tapered Flange I		EN 10024	
	UPE, UPN		EN 10279	
	Flat / Square / Round / T bars		EN 10058, AM Standard (Wide flats)/ EN 10059/EN 10060/EN 10055	
Yield strength	Nominal thickness (mm)		Values (MPa)	
	>	≤	min	
		16	355	
	16	40	345	
	40	63	335	
	63	80	325	
	80	100	315	
100	140	295		
Tensile strength	Nominal thickness (mm)		Values (MPa)	
	>	≤	min	max
	=3	100	470	630
	100	140	450	600
Elongation	Nominal thickness (mm)		Values (%)	
	>	≤	min	
	=3	40	22	
	40	63	21	
	63	100	20	
100	140	18		
Impact strength	Nominal thickness (mm)		Values (J)	
	>	≤	min	
		140	27 at 0°C	
Weldability	Nominal thickness (mm)		Values (%)	
	>	≤	max	
		30	0,45	
	30	40	0,47	
40	140	0,47		
Durability (Chemical composition)	Nominal thickness (mm)		Values (%)	
	>	≤	max	
		140	C* : 0,20 Si : 0,55 Mn : 1,60 P : 0,035	Cu : 0,55 S : 0,035 N** : 0,012
* For nominal thickness > 30 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				

EN 10025-1:2004



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

No. AMZA-2/09-CPR-13-1

1) Code of the product type: **1.0577**

2) Type: **Sections/Bars S355J2 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

3) ArcelorMittal Zaragoza, S.A.
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50720 La Cartuja Baja - ZARAGOZA
T +34 976 466 171

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System 2+

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Merouane Lakehal
Quality and Environment Mgr.

Date : 01.07.2013

Essential characteristic		Performance		Harmonised technical specification
Tolerances on dimensions and shape	Angles		EN 10056-2	
	I and H sections		EN 10034	
	Tapered Flange I		EN 10024	
	UPE, UPN		EN 10279	
	Flat / Square / Round / T bars		EN 10058, AM Standard (Wide flats)/ EN 10059/EN 10060/EN 10055	
Yield strength	Nominal thickness (mm)		Values (MPa)	
	>	≤	min	
		16	355	
	16	40	345	
	40	63	335	
	63	80	325	
	80	100	315	
100	140	295		
Tensile strength	Nominal thickness (mm)		Values (MPa)	
	>	≤	min	max
	=3	100	470	630
	100	140	450	600
Elongation	Nominal thickness (mm)		Values (%)	
	>	≤	min	
	=3	40	22	
	40	63	21	
	63	100	20	
100	140	18		
Impact strength	Nominal thickness (mm)		Values (J)	
	>	≤	min	
		140	27 at -20°C	
Weldability	Nominal thickness (mm)		Values (%)	
	>	≤	max	
		30	0,45	
	30	40	0,47	
40	140	0,47		
Durability (Chemical composition)	Nominal thickness (mm)		Values (%)	
	>	≤	max	
		140	C* : 0,20 Si : 0,55 Mn : 1,60	Cu : 0,55 S : 0,030 P : 0,030
* For nominal thickness > 30 mm C: 0,22. For nominal thickness >100 mm: C content upon agreement Fully killed steel containing nitrogen binding element in amounts sufficient to bind the available nitrogen (for example min. 0,02% Al)				

EN 10025-1:2004

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

No. AMZA-2/10-CPR-13-1

1) Code of the product type: **1.0596**

2) Type: **Sections/Bars S355K2 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

3) ArcelorMittal Zaragoza, S.A.
Avda. de José López Soriano, nº 100
Parque Tecnológico de Reciclado López Soriano
Ctra.Torrecilla de Valmadrid, Km. 1,95
50720 La Cartuja Baja - ZARAGOZA
T +34 976 466 171
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. 0099 Asociación Española de Normalización y Certificación (AENOR) 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:

Merouane Lakehal
Quality and Environment Mgr.



Date : 01.07.2013

Essential characteristic		Performance		Harmonised technical specification
Tolerances on dimensions and shape	Angles		EN 10056-2	
	I and H sections		EN 10034	
	Tapered Flange I		EN 10024	
	UPE, UPN		EN 10279	
	Flat / Square / Round / T bars		EN 10058, AM Standard (Wide flats)/ EN 10059/EN 10060/EN 10055	
Yield strength	Nominal thickness (mm)		Values (MPa)	
	>	≤	min	
		16	355	
	16	40	345	
	40	63	335	
	63	80	325	
	80	100	315	
100	140	295		
Tensile strength	Nominal thickness (mm)		Values (MPa)	
	>	≤	min	max
	=3	100	470	630
	100	140	450	600
Elongation	Nominal thickness (mm)		Values (%)	
	>	≤	min	
	=3	40	22	
	40	63	21	
	63	100	20	
100	140	18		
Impact strength	Nominal thickness (mm)		Values (J)	
	>	≤	min	
		140	40 at -20°C	
Weldability	Nominal thickness (mm)		Values (%)	
	>	≤	max	
		30	0,45	
	30	40	0,47	
40	140	0,47		
Durability (Chemical composition)	Nominal thickness (mm)		Values (%)	
	>	≤	max	
		140	C* : 0,20 Si : 0,55 Mn : 1,60	Cu : 0,55 S : 0,030 P : 0,030
* For nominal thickness > 30 mm C: 0,22. For nominal thickness >100 mm: C content upon agreement Fully killed steel containing nitrogen binding element in amounts sufficient to bind the available nitrogen (for example min. 0,02% Al)				

EN 10025-1:2004



Declaration of Performance

(according to regulation EU No 305/2011)

No. AMZA-5/01-CPR-13-1

- 1) Code of the product type: **1.8959**
- 2) Type: **Sections/Bars S355J0W according EN 10025-5**

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

- 3) ArcelorMittal Zaragoza, S.A.
Avda. de José López Soriano, nº 100
Parque Tecnológico de Reciclado López Soriano
Ctra.Torrecilla de Valmadrid, Km. 1,95
50720 La Cartuja Baja - ZARAGOZA
T +34 976 466 171
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. 0099 Asociación Española de Normalización y Certificación (AENOR) 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:

Merouane Lakehal
Quality and Environment Mgr.

Date : 01.07.2013

Essential characteristic		Performance		Harmonised technical specification	
Tolerances on dimensions and shape	Angles		EN 10056-2		EN 10025-1:2004
	I and H sections		EN 10034		
	Tapered Flange I		EN 10024		
	UPE, UPN		EN 10279		
	Flat / Square / Round / T bars		EN 10058, AM Standard (Wide flats)/ EN 10059/EN 10060/EN 10055		
Yield strength	Nominal thickness (mm)		Values (MPa)		
	>	≤	min		
	16		355		
	16		40		
Tensile strength	Nominal thickness (mm)		Values (MPa)		
	>	≤	min	max	
	=3	40	470	630	
Elongation	Nominal thickness (mm)		Values (%)		
	>	≤	min		
	=3	40	22		
Impact strength	Nominal thickness (mm)		Values (J)		
	>	≤	min		
	40		27 at 0°C		
Weldability	Nominal thickness (mm)		Values (%)		
	>	≤	NPD		
	16				
	16				
16		40			
Durability (Chemical composition)	Nominal thickness (mm)		Values (%)		
	>	≤	min	max	
	40		C : 0,16 S : 0,040 Si : 0,50 N* : 0,009 P : 0,040		
			Mn : 0,50 Mn : 1,50 Cu : 0,25 Cu : 0,55 Cr : 0,40 Cr : 0,80		
	* It is permissible to exceed the specified values provided that for each increase of 0,001 % N, the Pmax content will be reduced by 0,005%; the N content of the ladle analysis, however, shall not be more than 0,012%. 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. The N binding elements shall be mentioned in the inspection document.				
The steels may show a Ni content of max. 0,65%. The steels may contain max. 0,30% Mo and max. 0,15% Zr.					



Declaration of Performance

(according to regulation EU No 305/2011)

No. AMZA-5/02-CPR-13-1

- 1) Code of the product type: **1.8965**
- 2) Type: **Sections/Bars S355J2W according EN 10025-5**

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

- 3) ArcelorMittal Zaragoza, S.A.
Avda. de José López Soriano, nº 100
Parque Tecnológico de Reciclado López Soriano
Ctra.Torrecilla de Valmadrid, Km. 1,95
50720 La Cartuja Baja - ZARAGOZA
T +34 976 466 171
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. 0099 Asociación Española de Normalización y Certificación (AENOR) 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:

Merouane Lakehal
Quality and Environment Mgr.

Date : 01.07.2013

Essential characteristic		Performance		Harmonised technical specification	
Tolerances on dimensions and shape	Angles		EN 10056-2		EN 10025-1:2004
	I and H sections		EN 10034		
	Tapered Flange I		EN 10024		
	UPE, UPN		EN 10279		
	Flat / Square / Round / T bars		EN 10058, AM Standard (Wide flats)/ EN 10059/EN 10060/EN 10055		
Yield strength	Nominal thickness (mm)		Values (MPa)		
	>	≤	min		
		16	355		
	16	40	345		
Tensile strength	Nominal thickness (mm)		Values (MPa)		
	>	≤	min	max	
	=3	40	470	630	
Elongation	Nominal thickness (mm)		Values (%)		
	>	≤	min		
	=3	40	22		
Impact strength	Nominal thickness (mm)		Values (J)		
	>	≤	min		
		40	27 at -20°C		
Weldability	Nominal thickness (mm)		Values (%)		
	>	≤	NPD		
		16			
	16	40			
Durability (Chemical composition)	Nominal thickness (mm)		Values (%)		
	>	≤	min	max	
		40		C : 0,16 S : 0,035 Si : 0,50 N* : 0,009 P : 0,035	
			Mn : 0,50 Mn : 1,50 Cu : 0,25 Cu : 0,55 Cr : 0,40 Cr : 0,80		
	* It is permissible to exceed the specified values provided that for each increase of 0,001 % N, the Pmax content will be reduced by 0,005%; the N content of the ladle analysis, however, shall not be more than 0,012%. 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.				
	Addition of nitrogen binding elements: the steels shall contain at least one of the following elements: Al total ≥ 0,020%, Nb: 0,015 - 0,060%, V: 0,02-0,12%, Ti: 0,02 - 0,10%. If these elements are used in combination, at least one of them shall be present with the minimum content indicated.				
The steels may show a Ni content of max. 0,65%. The steels may contain max. 0,30% Mo and max. 0,15% Zr.					
Fully killed steel containing nitrogen binding element in amounts sufficient to bind the available nitrogen (for example min. 0,02% Al)					