



**ArcelorMittal**

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

No. AMDI-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 Belval and Differdange S.A

Site of Differdange

Rue Emile Mark

L-4503 Differdange (G.D. of Luxembourg)

Tel: +352 5820 2870

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. 0769  
Karlsruher Institut für Technologie (KIT) - Versuchsanstalt für Stahl, Holz und Steine 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:

Jean-François Liesch  
Site Manager Differdange

Christophe Houyoux  
Quality Manager

Date : 01.07.2013

Essential characteristic	Performance	Harmonised technical specification
<b>Tolerances on dimensions and shape</b>	Angles	EN10056-2
	I and H sections	EN 10034
	Tapered Flange I	EN 10024
	UPE, UPN	EN 10279
	HL920, HL1000 with $G_{HL} > G_{min}$ HD360/400, UB1016, HE1000 with $G_{HE} > G_{min}$	ASTM A6
<b>Yield strength</b>	Nominal thickness (mm)	Values (MPa)
	>	min
	≤	235
	16	225
	40	215
<b>Tensile strength</b>	Nominal thickness (mm)	Values (MPa)
	>	min
	≤	max
	3	360
	100	510
<b>Elongation</b>	Nominal thickness (mm)	Values (%)
	>	min
	≤	max
	3	26
	40	25
<b>Impact strength</b>	Nominal thickness (mm)	Values (J)
	>	min
	≤	max
	140	27 at +20°C
	40	max
<b>Weldability</b>	Nominal thickness (mm)	Values (%)
	>	max
	≤	max
	30	0,35
	40	0,35
<b>Durability</b> (Chemical composition)	Nominal thickness (mm)	Values (%)
	>	max
C : 0,17 Mn : 1,40 P : 0,040 S : 0,040 N* : 0,012		Cu : 0,55 S : 0,040 N* : 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		



**ArcelorMittal**

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

No. AMDI-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 Belval and Differdange S.A

Site of Differdange

Rue Emile Mark

L-4503 Differdange (G.D. of Luxembourg)

Tel: +352 5820 2870

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. 0769  
Karlsruher Institut für Technologie (KIT) - Versuchsanstalt für Stahl, Holz und Steine 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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Jean-François Liesch  
Site Manager Differdange

Christophe Houyoux  
Quality Manager

Date : 01.07.2013

Essential characteristic	Performance	Harmonised technical specification
<b>Tolerances on dimensions and shape</b>	Angles	EN10056-2
	I and H sections	EN 10034
	Tapered Flange I	EN 10024
	UPE, UPN	EN 10279
<b>Yield strength</b>	HL920, HL1000 with $G_{HL} > G_{HLW}$ , HD360/400, UB1016, HE1000 with $G_{HE} > G_{HEM}$	ASTM A6
	Nominal thickness (mm)	Values (MPa)
<b>Tensile strength</b>	>	min
	≤	min
	16	235
	40	225
	63	215
	80	
	100	195
	140	
	Nominal thickness (mm)	Values (MPa)
	>	min
≤	max	
3	360	
100	510	
140	500	
<b>Elongation</b>	Nominal thickness (mm)	Values (%)
	>	min
	≤	min
	40	26
	63	25
	100	24
<b>Impact strength</b>	Nominal thickness (mm)	Values (J)
	>	min
	≤	min
<b>Weldability</b>	140	27 at 0°C
	Nominal thickness (mm)	Values (%)
	>	max
	≤	max
	30	0,35
<b>Durability</b> (Chemical composition)	40	0,35
	140	0,38
	Nominal thickness (mm)	Values (%)
>	max	
≤	max	
140	C : 0,17 Mn : 1,40 P : 0,035 N* : 0,012	Cu : 0,55 S : 0,035 N* : 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.



ArcelorMittal

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

No. AMDI-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 Belval and Differdange S.A

Site of Differdange

Rue Emile Mark

L-4503 Differdange (G.D. of Luxembourg)

Tel: +352 5820 2870

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

Notified factory production control certification body No. 0769  
Karlsruher Institut für Technologie (KIT) - Versuchsanstalt für Stahl, Holz und Steine 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.

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Jean-François Liesch  
Site Manager Differdange

Christophe Houyoux  
Quality Manager

Date : 01.07.2013

Essential characteristic	Performance	Harmonised technical specification
<b>Tolerances on dimensions and shape</b>	Angles	EN10056-2
	I and H sections	EN 10034
	Tapered Flange I	EN 10024
	UPE, UPN	EN 10279
	HL920, HL 1000 with G <sub>HL</sub> > G <sub>HLW</sub> , HD360/400, UB1016, HE1000 with G <sub>HE</sub> > G <sub>HEW</sub>	ASTM A6
<b>Yield strength</b>	Nominal thickness (mm)	Values (MPa)
	>	min
	≤	235
	16	225
	40	215
<b>Tensile strength</b>	Nominal thickness (mm)	Values (MPa)
	>	min
	≤	max
	100	360
	140	510
<b>Elongation</b>	Nominal thickness (mm)	Values (%)
	>	min
	≤	max
	40	26
	63	25
<b>Impact strength</b>	Nominal thickness (mm)	Values (J)
	>	min
	≤	max
	140	27 at -20°C
	140	22
<b>Weldability</b>	Nominal thickness (mm)	Values (%)
	>	max
	≤	max
	30	0.35
	40	0.35
<b>Durability</b> (Chemical composition)	Nominal thickness (mm)	Values (%)
	>	max
	≤	max
	140	C : 0,17 Mn : 1,40 S : 0,030
	140	Cu : 0,55 S : 0,030
Fully killed steel containing nitrogen binding element in amounts sufficient to bind the available nitrogen (for example min. 0.02% Al)		



**ArcelorMittal**

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

No. AMDI-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 Beval and Differdange S.A

Site of Differdange

Rue Emile Mark

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

Notified factory production control certification body No. 0769  
Karlsruher Institut für Technologie (KIT) - Versuchsanstalt für Stahl, Holz und Steine 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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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:

Jean-François Liesch  
Site Manager Differdange

Christophe Houyoux  
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	HL920, HL1000 with G <sub>HL</sub> > G <sub>HLu</sub> , HD360/400, UB1016, HE1000 with G <sub>HE</sub> > G <sub>HEu</sub>	ASTM A6		
	Nominal thickness (mm)	Values (MPa)		
	>	min		
	≤	max		
	16	275		
	18	265		
	40	255		
	63	245		
	80	235		
	100	225		
Tensile strength	Nominal thickness (mm)	Values (MPa)		
	>	min		
	≤	max		
	3	410		
100	560			
Elongation	Nominal thickness (mm)	Values (%)		
	>	min		
	≤	max		
	3	23		
	40	22		
	63	21		
	100	19		
Impact strength	Nominal thickness (mm)	Values (J)		
	>	min		
	≤	27 at +20°C		
Weldability	Nominal thickness (mm)	Values (%)		
	>	max		
	≤	max		
	30	0.40		
Durability (Chemical composition)	Nominal thickness (mm)	Values (%)		
	>	max		
	≤	max		
140	C : 0.21 Mn : 1.50 S : 0.040 P : 0.040 N* : 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



# ArcelorMittal

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

No. AMDI-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 Belval and Differdange S.A

Site of Differdange

Rue Emile Mark

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

Notified factory production control certification body No. 0769  
Karlsruher Institut für Technologie (KIT) - Versuchsanstalt für Stahl, Holz und Steine 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:

Jean-François Liesch  
Site Manager Differdange

Christophe Houyoux  
Quality Manager

Date : 01.07.2013

Essential characteristic	Performance	Harmonised technical specification
<b>Tolerances on dimensions and shape</b>	Angles	EN10056-2
	I and H sections	EN 10034
	Tapered Flange I	EN 10024
	UPE, UPN	EN 10279
	HL920, HL1000 with $G_{HL} > G_{ULM}$ , HD360/400, UB1016, HE1000 with $G_{HE} > G_{ULM}$	ASTM A6
<b>Yield strength</b>	Nominal thickness (mm)	Values (MPa)
	>	min
	≤	275
	16	265
	40	255
	63	245
	80	235
100	225	
<b>Tensile strength</b>	Nominal thickness (mm)	Values (MPa)
	>	min
	≤	max
<b>Elongation</b>	Nominal thickness (mm)	Values (%)
	>	min
	≤	23
	40	22
	63	21
<b>Impact strength</b>	Nominal thickness (mm)	Values (J)
	>	min
	≤	27 at 0°C
<b>Weldability</b>	Nominal thickness (mm)	Values (%)
	>	max
	≤	0.40
	30	0.40
<b>Durability</b> (Chemical composition)	Nominal thickness (mm)	Values (%)
	>	max
	≤	C : 0.18 Mn : 1.50 S : 0.035 P : 0.035 N* : 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

EN 10025-1:2004



**ArcelorMittal**

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

No. AMDI-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 Belval and Differdange S.A

Site of Differdange

Rue Emile Mark

L-4503 Differdange (G.D. of Luxembourg)

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

Notified factory production control/certification body No. 0769  
Karlsruher Institut für Technologie (KIT) - Versuchsanstalt für Stahl, Holz und Steine 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.

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Jean-François Liesch  
Site Manager Differdange

Christophe Houyoux  
Quality Manager

Date : 01.07.2013

Essential characteristic	Performance	Harmonised technical specification
<b>Tolerances on dimensions and shape</b>	Angles	EN10056-2
	I and H sections	EN 10034
	Tapered Flange I	EN 10024
	UPE, UPN	EN 10279
	HL920, HL1000 with $G_{HL} > G_{HLW}$ , HD360/400, UB1016, HE1000 with $G_{HE} > G_{HEW}$	ASTM A6
<b>Yield strength</b>	Nominal thickness (mm)	Values (MPa)
	>	min
	≤	275
	16	265
	40	255
	63	245
<b>Tensile strength</b>	Nominal thickness (mm)	Values (MPa)
	>	min
	≤	410
	100	560
	140	540
	100	540
<b>Elongation</b>	Nominal thickness (mm)	Values (%)
	>	min
	≤	23
	40	22
	63	21
	100	19
<b>Impact strength</b>	Nominal thickness (mm)	Values (J)
	>	min
<b>Weldability</b>	140	27 at -20°C
	Nominal thickness (mm)	Values (%)
<b>Durability (Chemical composition)</b>	>	max
	≤	0.40
	30	0.40
	40	0.42
<b>Durability (Chemical composition)</b>	Nominal thickness (mm)	Values (%)
	>	max
Fully killed steel containing nitrogen binding element in amounts sufficient to bind the available nitrogen (for example min. 0.02% Al)		C : 0,18 Mn : 1,50 P : 0,030 Cu : 0,55 S : 0,030



**ArcelorMittal**

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

No. AMDI-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 Belval and Differdange S.A

Site of Differdange

Rue Emile Mark

L-4503 Differdange (G.D. of Luxembourg)

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

System 2+

Notified factory production control certification body No. 0769  
Karlsruher Institut für Technologie (KIT) - Versuchsanstalt für Stahl, Holz und Steine 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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Jean-François Liesch  
Site Manager Differdange

Christophe Houyoux  
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	HL920, HL1000 with $G_{HL} > G_{HLM}$ , HD360/400, UB1016, HE1000 with $G_{HE} > G_{HEM}$	ASTM A6		
	Nominal thickness (mm)	Values (MPa)		
Tensile strength	>	≤	min	max
	>=3	100	470	630
	100	140	450	600
	>	≤	Values (MPa)	
	>=3	100	470	630
	100	140	450	600
	>	≤	Values (%)	
	=3	40	22	
	40	63	21	
	63	100	20	
Impact strength	Nominal thickness (mm)	Values (J)		
	>	≤	min	
Weldability	140	27 at +20°C		
	>	≤	Values (%)	
	30	max		
	40	0.45		
Durability (Chemical composition)	40	0.47		
	140	0.47		
Nominal thickness (mm)	>	≤	max	
	140	≤	max	
Nominal thickness (mm)	>	≤	max	
	140	≤	max	
	C : 0.24	Cu : 0.55		
	Si : 0.55	S : 0.040		
Mn : 1.60	N* : 0.012			
P : 0.040				

\* 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.



**ArcelorMittal**

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

No. AMDI-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 Belval and Differdange S.A

Site of Differdange

Rue Emile Mark

L-4503 Differdange (G.D. of Luxembourg)

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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. 0769 Karlsruhe Institut für Technologie (KIT) - Versuchsanstalt für Stahl, Holz und Steine 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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Jean-François Liesch  
Site Manager Differdange

Christophe Houyoux  
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
Yield strength	Tapered Flange I	EN 10024
	UPE, UPN	EN 10279
	HL920, HL1000 with $G_{HL} > G_{HL,M}$ , HD360/400, UB1016, HE1000 with $G_{HE} > G_{HE,M}$	ASTM A6
	Nominal thickness (mm)	Values (MPa)
Tensile strength	>	min
	≤	max
	16	355
	40	345
	63	335
	80	325
	100	315
	140	295
	Nominal thickness (mm)	Values (MPa)
	>	min
≤	max	
100	470	
140	630	
Elongation	Nominal thickness (mm)	Values (%)
	>	min
	≤	max
	40	22
	63	21
	100	20
Impact strength	Nominal thickness (mm)	Values (J)
	>	min
	≤	max
Weldability	140	27 at 0°C
	Nominal thickness (mm)	Values (%)
	>	max
	≤	max
Durability (Chemical composition)	30	0,45
	40	0,47
	140	0,47
Nominal thickness (mm)	≤	max
	>	max
140	C : 0,20 Si : 0,55 Mn : 1,60 P : 0,035	Cu : 0,55 S : 0,035 N* : 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

EN 10025-1:2004





**ArcelorMittal**

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

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

1) Code of the product type: **1.05777**

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 Belval and Differdange S.A

Site of Differdange

Rue Emile Mark

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

Notified factory production control certification body No. 0769  
Karlsruher Institut für Technologie (KIT) - Versuchsanstalt für Stahl, Holz und Steine 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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Jean-François Liesch  
Site Manager Differdange

Christophe Houyoux  
Quality Manager

Date : 01.07.2013

Essential characteristic		Performance	Harmonised technical specification
<b>Tolerances on dimensions and shape</b>	Angles	EN10056-2	EN 10025-1:2004
	I and H sections	EN 10034	
	Tapered Flange I	EN 10024	
	UPE, UPN	EN 10279	
	HL 920, HL 1000 with G <sub>HL</sub> >G <sub>HLK</sub> , HD360/400, UB1016, HE1000 with G <sub>HE</sub> >G <sub>HEM</sub>	ASTM A6	
<b>Yield strength</b>	Nominal thickness (mm)	Values (MPa)	
	>	min	
	≤	355	max
	16	345	
	40	335	
	63	325	
	80	315	
100	295		
<b>Tensile strength</b>	Nominal thickness (mm)	Values (MPa)	
	>	min	max
	≤	470	630
	100	450	600
<b>Elongation</b>	Nominal thickness (mm)	Values (%)	
	>	min	
	≤	22	
	40	21	
	63	20	
	100	18	
<b>Impact strength</b>	Nominal thickness (mm)	Values (J)	
	>	min	
<b>Weldability</b>	Nominal thickness (mm)	Values (%)	
	>	27 at -20°C	
	≤	max	
	30	0.45	
<b>Durability</b> (Chemical composition)	Nominal thickness (mm)	Values (%)	
	>	max	
	140	Cu : 0.20 Si : 0.55 Mn : 1.60 Cu : 0.55 S : 0.030 P : 0.030	

Fully killed steel containing nitrogen binding element in amounts sufficient to bind the available nitrogen (for example min. 0.02% Al)



# ArcelorMittal

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

No. AMDI-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 Belval and Differdange S.A

Site of Differdange

Rue Emile Mark

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Tel: +352 5820 2870

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

Notified factory production control certification body No. 0769  
Karlsruher Institut für Technologie (KIT) - Versuchsanstalt für Stahl, Holz und Steine 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:

Jean-François Liesch  
Site Manager Differdange

Christophe Houyoux  
Quality Manager

Date : 01.07.2013

Essential characteristic	Performance	Harmonised technical specification
<b>Tolerances on dimensions and shape</b>	Angles	EN10056-2
	I and H sections	EN 10034
	Tapered Flange I	EN 10024
	UPE; UPN	EN 10279
<b>Yield strength</b>	HL920, HL 1000 with $G_{HL} > G_{HL,M}$ , HD360/400, UB10*16, HE1000 with $G_{HE} > G_{HE,M}$	ASTM A6
	Nominal thickness (mm)	Values (MPa)
<b>Tensile strength</b>	>	min
	≤	355
	16	345
	40	335
	63	325
	80	315
	100	295
	Nominal thickness (mm)	Values (MPa)
	>	min
	≤	max
<b>Elongation</b>	≤	470
	100	450
	140	600
	Nominal thickness (mm)	Values (%)
	>	min
	≤	max
<b>Impact strength</b>	≤	min
	140	40 at -20°C
	Nominal thickness (mm)	Values (%)
	>	max
<b>Weldability</b>	≤	0.45
	30	0.47
	40	0.47
	140	0.47
<b>Durability</b> (Chemical composition)	Nominal thickness (mm)	Values (%)
	>	max
C : 0.20 Si : 0.55 Mn : 1.60 Cu : 0.55 S : 0.030 P : 0.030		

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



# ArcelorMittal

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

No. AMDI-2/11-CPR-13-1

1) Code of the product type: **1.0590**

2) Type: **Sections/Bars S450J0 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 Belval and Differdange S.A

Site of Differdange

Rue Emile Mark

L-4503 Differdange (G.D. of Luxembourg)

Tel: +352 5820 2870

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

System 2+

Notified factory production control certification body No. 0769  
Karlsruher Institut für Technologie (KIT) - Versuchsanstalt für  
Stahl, Holz und Steine 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:

Jean-François Liesch  
Site Manager Differdange

Christophe Houyoux  
Quality Manager

Date : 01.07.2013

Essential characteristic	Performance	Harmonised technical specification
<b>Tolerances on dimensions and shape</b>	Angles	EN10056-2
	I and H sections	EN 10034
	Tapered Flange I	EN 10024
	UPE, UPN	EN 10279
<b>Yield strength</b>	HL920, HL1000 with $G_{HL} > G_{HLM}$ , HD360/400, UB1016, HE1000 with $G_{HE} > G_{HEM}$	ASTM A6
	Nominal thickness (mm)	Values (MPa)
	>	min
	≤	450
	16	430
	40	410
	63	390
	80	380
	100	380
	140	380
<b>Tensile strength</b>	Nominal thickness (mm)	Values (MPa)
	>	min
	≤	max
	=3	550
<b>Elongation</b>	Nominal thickness (mm)	Values (%)
	>	min
	≤	17
	=3	40
<b>Impact strength</b>	Nominal thickness (mm)	Values (J)
	>	min
	≤	27 at 0°C
	140	max
<b>Weldability</b>	Nominal thickness (mm)	Values (%)
	>	max
	≤	0.47
	30	0.49
<b>Durability</b> (Chemical composition)	Nominal thickness (mm)	Values (%)
	>	max
	≤	C : 0,20 S : 0,035 Mn : 1,70 P : 0,035
	140	Cu : 0,55 S : 0,035 N* : 0,025

\* 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 steel may show a Nb content of max. 0.05%, a V content of max. 0.13% and a Ti content of max. 0.05%.  
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



# ArcelorMittal

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

No. AMDI-4/01-CPR-13-1

1) Code of the product type: **1.8818**

2) Type: **Sections/Bars S275M according EN 10025-4**

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 Belval and Differdange S.A

Site of Differdange

Rue Emile Mark

L-4503 Differdange (G.D. of Luxembourg)

Tel: +352 5820 2870

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

System 2+

Notified factory production control certification body No. 0769  
Karlsruher Institut für Technologie (KIT) - Versuchsanstalt für Stahl, Holz und Steine 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:

Jean-François Liesch  
Site Manager Differdange

Christophe Houyoux  
Quality Manager

Date : 01.07.2013

Essential characteristic	Performance	Harmonised technical specification
<b>Tolerances on dimensions and shape</b>	Angles	EN10056-2
	I and H sections	EN 10034
	Tapered Flange I	EN 10024
	UPe, UPN	EN 10279
<b>Yield strength</b>	HL920, HL1000 with $G_{HL} > G_{HLM}$ , HD360/400, UB1016, HE1000 with $G_{HE} > G_{HEM}$	ASTM A6
	Nominal thickness (mm)	Values (MPa)
<b>Tensile strength</b>	>	min
	≤	max
	16	275
	40	265
	63	255
	80	245
	100	245
	140	240
	Nominal thickness (mm)	Values (MPa)
	>	min
≤	max	
40	370	
63	360	
80	350	
100	350	
140	350	
Nominal thickness (mm)	Values (%)	
>	min	
≤	max	
140	24	
Nominal thickness (mm)	Values (J)	
>	min	
≤	max	
140	40 at -20°C	
Nominal thickness (mm)	Values (%)	
>	max	
≤	max	
16	0.34	
40	0.34	
63	0.35	
140	0.38	
Nominal thickness (mm)	Values (%)	
>	min	
≤	max	
140	C : 0,15 Mn : 1,50 Si : 0,50 P : 0,035 S : 0,030 Nb : 0,05 V : 0,08	
	Cr : 0,30 Mo : 0,10 Ni : 0,30 Cu : 0,55 N : 0,015	
Durability (Chemical composition)	min	
	max	
	AI* : 0,02	

\* If sufficient other nitrogen binding elements are present, the minimum aluminium requirement does not apply

EN 10025-1:2004



# ArcelorMittal

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

No. AMDI-4/03-CPR-13-1

1) Code of the product type: **1.8823**

2) Type: **Sections/Bars S355M according EN 10025-4**

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 Belval and Differdange S.A

Site of Differdange  
Rue Emile Mark

L-4503 Differdange (G.D. of Luxembourg)  
Tel: +352 5820 2870

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

Notified factory production control certification body No. 0769  
Karlsruher Institut für Technologie (KIT) - Versuchsanstalt für Stahl, Holz und Steine 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:

Jean-François Liesch  
Site Manager Differdange

Christophe Houyoux  
Quality Manager

Date : 01.07.2013

Essential characteristic	Performance	Harmonised technical specification
<b>Tolerances on dimensions and shape</b>	Angles	EN10056-2
	I and H sections	EN 10034
	Tapered Flange I	EN 10024
	UPN, UPN	EN 10279
	HL 920, HL 1000 with $G_{HL} > G_{HLM}$ , HD360/400, UB1016, HE1000 with $G_{HE} > G_{HEM}$	ASTM A6
<b>Yield strength</b>	Nominal thickness (mm)	Values (MPa)
	>	min
	≤	max
	16	355
	40	345
	63	335
<b>Tensile strength</b>	Nominal thickness (mm)	Values (MPa)
	>	min
	≤	max
	40	470
	63	450
	80	440
<b>Elongation</b>	Nominal thickness (mm)	Values (%)
	>	min
	≤	max
<b>Impact strength</b>	Nominal thickness (mm)	Values (J)
	>	min
	≤	40 at -20°C
<b>Weldability</b>	Nominal thickness (mm)	Values (%)
	>	max
	≤	0.39
	16	0.39
	40	0.40
<b>Durability</b> (Chemical composition)	Nominal thickness (mm)	Values (%)
	>	min
C : 0,16 Mn : 1,60 Si : 0,50 P : 0,035 S : 0,030 Nb : 0,05 V : 0,10 Ti : 0,05 Cr : 0,30 Mo : 0,10 Ni : 0,50 Cu : 0,55 N : 0,015		max
* If sufficient other nitrogen binding elements are present, the minimum aluminium requirement does not apply		Al* : 0,02



# ArcelorMittal

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

No. AMDI-4/04-CPR-13-1

1) Code of the product type: **1.8834**

2) Type: **Sections/Bars S355ML according EN 10025-4**

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 Belval and Differdange S.A

Site of Differdange  
Rue Emile Mark

L-4503 Differdange (G.D. of Luxembourg)

Tel: +352 5820 2870

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

Notified factory production control certification body No. 0769  
Karlsruher Institut für Technologie (KIT) - Versuchsanstalt für Stahl, Holz und Steine 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:

Jean-François Liesch  
Site Manager Differdange

Christophe Houyoux  
Quality Manager

Date : 01.07.2013

Essential characteristic	Performance	Harmonised technical specification
Tolerances on dimensions and shape	Angles	EN10056-2
	I and H sections Tapered Flange I UPE, UPN	EN 10034 EN 10024 EN 10279
Yield strength	HL920, HL1000 with G <sub>HL</sub> >G <sub>HLW</sub> , HD360/400, UB1016, HE1000 with G <sub>HE</sub> > G <sub>HEW</sub>	ASTM A6
	Nominal thickness (mm)	Values (MPa)
Tensile strength	>	min
	≤	max
	16	355
	40	345
	63	335
	80	325
	100	325
	125	320
	Nominal thickness (mm)	Values (MPa)
	>	min
≤	max	
40	470	
63	450	
80	440	
100	440	
125	430	
Nominal thickness (mm)	Values (%)	
>	min	
≤	max	
140	22	
Nominal thickness (mm)	Values (J)	
>	min	
≤	max	
140	27 at -50°C	
Nominal thickness (mm)	Values (%)	
>	max	
≤	max	
16	0.39	
40	0.39	
63	0.40	
140	0.45	
Nominal thickness (mm)	Values (%)	
>	min	
≤	max	
140	C : 0,16 Mn : 1,60 Si : 0,50 P : 0,030 S : 0,025 Nb : 0,05 V : 0,10	
	TI : 0,05 Cr : 0,30 Mo : 0,10 Ni : 0,50 Cu : 0,55 N : 0,015	
Durability (Chemical composition)	Al* : 0,02	

\* If sufficient other nitrogen binding elements are present, the minimum aluminium requirement does not apply



# ArcelorMittal

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

No. AMDI-4/07-CPR-13-1

Code of the product type: **1.8827**

2) Type: **Sections/Bars S460M according EN 10025-4**

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 Belval and Differdange S.A

Site of Differdange

L-4503 Differdange (G.D. of Luxembourg)

Tel: +352 5820 2870

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

System 2+

Notified factory production control certification body No. 0769  
Karlstrüer Institut für Technologie (KIT) - Versuchsanstalt für Stahl, Holz und Steine 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:

Jean-François Liesch  
Site Manager Differdange

Christophe Houyoux  
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	HL920, HL1000 with $G_{HL} > G_{HLM}$ , HD360/400, UB1016, HE1000 with $G_{HE} > G_{HEM}$	ASTM A6	
	Nominal thickness (mm)	min	max
	>	460	720
	≤	440	710
	16	440	690
	40	430	680
	63	410	660
	80	400	
	100	385	
	140		
Tensile strength	Nominal thickness (mm)	min	max
	>	540	720
	40	530	710
	63	510	690
Elongation	Nominal thickness (mm)	min	max
	>	17	
	140		
	≤		
Impact strength	Nominal thickness (mm)	min	max
	>	40 at -20°C	
	140		
	≤		
Weldability	Nominal thickness (mm)	max	
	>	0.45	
	16	0.46	
	40	0.47	
Durability (Chemical composition)	Nominal thickness (mm)	min	max
	>		
	140		
	≤		

\* If sufficient other nitrogen binding elements are present, the minimum aluminium requirement does not apply

C : 0,18      Ti : 0,05  
Mn : 1,70      Cr : 0,30  
Si : 0,60      Mo : 0,20  
P : 0,035      Ni : 0,80  
S : 0,030      Cu : 0,55  
Nb : 0,05      N : 0,025  
V : 0,12



# ArcelorMittal

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

No. AMDI-4/08-CPR-13-1

1) Code of the product type: **1.8838**

2) Type: **Sections/Bars S460ML according EN 10025-4**

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 Belval and Differdange S.A

Site of Differdange  
Rue Emile Mark

L-4503 Differdange (G.D. of Luxembourg)  
Tel: +352 5820 2870  
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. 0769  
Karlsruher Institut für Technologie (KIT) - Versuchsanstalt für Stahl, Holz und Steine 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:

Jean-François Liesch  
Site Manager Differdange

Christophe Houyoux  
Quality Manager

Date : 01.07.2013

Essential characteristic	Performance	Harmonised technical specification
<b>Tolerances on dimensions and shape</b>	Angles	EN10056-2
	I and H sections	EN 10034
	Tapered Flange I	EN 10024
	UPE, UPN	EN 10279
<b>Yield strength</b>	HL920, HL1000 with $G_{HL} > G_{HLu}$ , HD360/400, UB1016, HE1000 with $G_{HE} > G_{HEu}$	ASTM A6
	Nominal thickness (mm)	Values (MPa)
<b>Tensile strength</b>	>	min
	16	460
	40	440
	63	430
	80	410
	100	400
	125	385
	Nominal thickness (mm)	Values (MPa)
	>	min
	40	540
63	530	
80	510	
100	500	
125	490	
<b>Elongation</b>	Nominal thickness (mm)	Values (%)
	>	min
<b>Impact strength</b>	140	17
	Nominal thickness (mm)	Values (J)
<b>Weldability</b>	>	min
	140	27 at -50°C
	Nominal thickness (mm)	Values (%)
	>	max
<b>Durability</b> (Chemical composition)	140	Values (%)
	Nominal thickness (mm)	min
	>	max
	C : 0,18	Ti : 0,05
	Mn : 1,70	Cr : 0,30
Si : 0,60	Mo : 0,20	
P : 0,030	Ni : 0,80	
S : 0,025	Cu : 0,55	
Nb : 0,05	N : 0,025	
V : 0,12		
* If sufficient other nitrogen binding elements are present, the minimum aluminium requirement does not apply.		Al* : 0,02

EN 10025-1:2004





# ArcelorMittal

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

No. AMDI-4/09-CPR-13-1

1) Code of the product type: **HISTAR 355**

2) Type: **Sections HISTAR 355 according ETA-10/0156**

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 Belval and Differdange S.A

Site of Differdange  
Rue Emile Mark

L-4503 Differdange (G.D. of Luxembourg)

Tel: +352 5820 2870

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

Notified factory production control certification body No. 0769  
Karlsruher Institut für Technologie (KIT) - Versuchsanstalt für Stahl, Holz und Steine 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:

Jean-François Liesch  
Site Manager Differdange

Christophe Houyoux  
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	HL920, HL 1000 with $G_{HL} > G_{HLM}$ , HD360/400, UB1016, HE1000 with $G_{HE} > G_{HEM}$	ASTM A6
	Nominal thickness (mm)	Values (MPa)
Tensile strength	>	min
	≤	max
	16	470
	40	630
	82	22
Elongation	Nominal thickness (mm)	Values (%)
	>	min
Impact strength	Nominal thickness (mm)	Values (J)
	>	min
Weldability	Nominal thickness (mm)	40 at -20°C
	>	max
	63	0.39
	82	0.39
	125	0.39
Durability (Chemical composition)	Nominal thickness (mm)	Values (%)
	>	min
* If sufficient other nitrogen binding elements are present, the minimum aluminium requirement does not apply. ** Available upon agreement. Not included in ETA-100156 Impact strength: Mean value of 3 tests for full size specimens with no single value less than 70% of the guaranteed average value. The provisions according to EN 10025-1:2004 are applicable.		



# ArcelorMittal

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

No. AMDI-4/10-CPR-13-1

1) Code of the product type: **HISTAR 355L**

2) Type: **Sections HISTAR 355L according ETA-10/0156**

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 Belval and Differdange S.A

Site of Differdange  
Rue Emile Mark  
L-4503 Differdange (G.D. of Luxembourg)  
Tel: +352 5820 2870

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

Notified factory production control certification body No. 0769  
Karlsruher Institut für Technologie (KIT) - Versuchsanstalt für Stahl, Holz und Steine 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:

Jean-Francois Liesch  
Site Manager Differdange

Christophe Houyoux  
Quality Manager

Date : 01.07.2013

Essential characteristic	Performance	Harmonised technical specification
<b>Tolerances on dimensions and shape</b>	Angles	EN10056-2
	I and H sections	EN 10034
	Tapered Flange I	EN 10024
	UPE, UPN	EN 10279
	HL920, HL1000 with $G_{HL} > G_{ULM}$ , HD360/400, UB1016, HE1000 with $G_{HE} > G_{HEM}$	ASTM A6
<b>Yield strength</b>	Nominal thickness (mm)	Values (MPa)
	>	min
	≤	min
	16	355
40		
82		
	125	355**
<b>Tensile strength</b>	Nominal thickness (mm)	Values (MPa)
	>	min
≤	max	
140	470	
<b>Elongation</b>	Nominal thickness (mm)	Values (%)
	>	min
≤	min	
140	22	
<b>Impact strength</b>	Nominal thickness (mm)	Values (J)
	>	min
≤	27 at -50°C	
140	Values (%)	
<b>Weldability</b>	Nominal thickness (mm)	max
	>	0.39
	≤	0.39
	63	0.39
82	0.39**	
125		
	140	
<b>Durability</b> (Chemical composition)	Nominal thickness (mm)	Values (%)
	>	min
≤	max	
140	C : 0,12 Ti : 0,05 Mn : 1,60 Cr : 0,30 Si : 0,50 Mo : 0,20 P : 0,030 Ni : 0,30 S : 0,025 Cu : 0,55 Nb : 0,05 N : 0,015 V : 0,10	

\* If sufficient other nitrogen binding elements are present, the minimum aluminium requirement does not apply.  
\*\* Available upon agreement. Not included in ETA-10/0156  
Impact strength: Mean value of 3 tests for full size specimens with no single value less than 70% of the guaranteed average value. The provisions according to EN 10025-1:2004 are applicable.



# ArcelorMittal

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

No. AMD/4/11-CPR-13-1

1) Code of the product type: **HISTAR 460**

2) Type: **Sections HISTAR 460 according ETA-10/0156**

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 Belval and Differdange S.A

Site of Differdange  
Rue Emile Mark

L-4503 Differdange (G.D. of Luxembourg)

Tel: +352 5820 2870

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. 0769  
Karlsruher Institut für Technologie (KIT) - Versuchsanstalt für Stahl, Holz und Steine 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:

Jean-François Liesch  
Site Manager Differdange

Christophe Houyoux  
Quality Manager

Date : 01.07.2013

Essential characteristic	Performance	Harmonised technical specification
<b>Tolerances on dimensions and shape</b>	Angles	EN10056-2
	I and H sections	EN 10034
	Tapered Flange I	EN 10024
	UPE, UPN	EN 10279
	HL920, HL1000 with $G_{HL} > G_{HLM}$ , HD360/400, UB1016, HE1000 with $G_{HE} > G_{HEM}$	ASTM A6
<b>Yield strength</b>	Nominal thickness (mm)	Values (MPa)
	>	min
	≤	max
	16	460
	40	
	82	
	125	450
	125	450**
	140	
	Nominal thickness (mm)	Values (MPa)
	≤	min
	≤	max
	140	540
	140	720
<b>Elongation</b>	Nominal thickness (mm)	Values (%)
	>	min
	≤	max
	140	17
<b>Impact strength</b>	Nominal thickness (mm)	Values (J)
	>	min
	≤	max
	140	40 at -20°C
<b>Weldability</b>	Nominal thickness (mm)	Values (%)
	>	max
	≤	0.41
	63	0.43
	82	0.43
	125	0.43
	140	0.43**
<b>Durability</b> (Chemical composition)	Nominal thickness (mm)	Values (%)
	>	min
	140	max
		C : 0,12
		Mn : 1,70
		Cr : 0,30
		Si : 0,60
		Mo : 0,20
		P : 0,030
		Ni : 0,70
		S : 0,030
		Cu : 0,55
		Nb : 0,05
		N : 0,025
		V : 0,12
	Al* : 0,02	

\* If sufficient other nitrogen binding elements are present, the minimum aluminium requirement does not apply

\*\* Available upon agreement. Not included in ETA-10/0156

Impact strength: Mean value of 3 tests for full size specimens with no single value less than 70% of the guaranteed average value. The provisions according to EN 10025-1:2004 are applicable.

EN 10025-1:2004



# ArcelorMittal

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

No. AMD1-4/12-CPR-13-1

1) Code of the product type: **HISTAR 460L**

2) Type: **Sections HISTAR 460L according ETA-10/0156**  
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 Belval and Differdange S.A

Site of Differdange  
Rue Emile Mark

L-4503 Differdange (G.D. of Luxembourg)

Tel: +352 5820 2870

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. 0769  
Karlsruher Institut für Technologie (KIT) - Versuchsanstalt für Stahl, Holz und Steine 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:

Jean-François Liesch  
Site Manager Differdange

Christophe Houyoux  
Quality Manager

Date : 01.07.2013

Essential characteristic	Performance	Harmonised technical specification
<b>Tolerances on dimensions and shape</b>	Angles	EN10056-2
	I and H sections	EN 10034
	Tapered Flange I	EN 10024
	UPE, UPN	EN 10279
	HL920, HL1000 with $G_{HL} > G_{HLW}$ HD360/400, UB1016, HE1000 with $G_{HE} > G_{HEW}$	ASTM A6
<b>Yield strength</b>	Nominal thickness (mm)	Values (MPa)
	>	min
	16	460
	40	
	82	
	125	450**
<b>Tensile strength</b>	Nominal thickness (mm)	Values (MPa)
	>	min
	140	540
		720
<b>Elongation</b>	Nominal thickness (mm)	Values (%)
	>	min
	140	17
<b>Impact strength</b>	Nominal thickness (mm)	Values (J)
	>	min
	140	27 at -50°C
<b>Weldability</b>	Nominal thickness (mm)	Values (%)
	>	max
	63	0.41
	82	0.43
	125	0.43
	140	0.43**
<b>Durability</b> (Chemical composition)	Nominal thickness (mm)	Values (%)
	>	min
	140	max
		C : 0.12
		Mn : 1.70
		Si : 0.30
		P : 0.030
		S : 0.030
		Nb : 0.05
		V : 0.12
		Ti : 0.05
		Cr : 0.30
		Mo : 0.20
		Ni : 0.70
		Cu : 0.55
		N : 0.025

\* If sufficient other nitrogen binding elements are present, the minimum aluminium requirement does not apply.  
\*\* Available upon agreement. Not included in ETA-100156  
Impact strength: Mean value of 3 tests for full size specimens with no single value less than 70% of the guaranteed average value. The provisions according to EN 10025-1:2004 are applicable.



# ArcelorMittal

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

No. AMDI-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 Belval and Differdange S.A

Site of Differdange  
Rue Emile Mark

L-4503 Differdange (G.D. of Luxembourg)

Tel: +352 5820 2870

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. 0769  
Karlsruher Institut für Technologie (KIT) - Versuchsanstalt für Stahl, Holz und Steine 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:

Jean-François Liesch  
Site Manager Differdange

Christophe Houyoux  
Quality Manager

Date : 01.07.2013

Essential characteristic	Performance	Harmonised technical specification
<b>Tolerances on dimensions and shape</b>	Angles	EN10056-2
	I and H sections	EN 10034
	Tapered Flange I	EN 10024
	UPe, UPN	EN 10279
<b>Yield strength</b>	HL920, HL1000 with $G_{HL} > G_{HL,M}$ , HD360/400, UB10*16, HE1000 with $G_{HE} > G_{HE,M}$	ASTM A6
	Nominal thickness (mm)	Values (MPa)
<b>Tensile strength</b>	>	min
	16	355
	40	345
<b>Elongation</b>	Nominal thickness (mm)	Values (MPa)
	>	min
	=3	470
<b>Impact strength</b>	Nominal thickness (mm)	Values (J)
	>	min
	=3	22
<b>Weldability</b>	Nominal thickness (mm)	Values (%)
	>	27 at 0°C
	16	NPD
<b>Durability</b> (Chemical composition)	Nominal thickness (mm)	Values (%)
	>	min
	40	max
<p>* It is permissible to exceed the specified values provided that for each increase of 0,001 % N, the P<sub>max</sub> 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.</p> <p>The steels may show a Ni content of max. 0,65%. The steels may contain max. 0,30% Mo and max. 0,15% Zr.</p>		

EN 10025-1:2004



# ArcelorMittal

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

No. AMDI-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 Belval and Differdange S.A

Site of Differdange  
Rue Emile Mark

L-4503 Differdange (G.D. of Luxembourg)

Tel: +352 5820 2870

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. 0769  
Karlsruher Institut für Technologie (KIT) - Versuchsanstalt für Stahl, Holz und Steine 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:

Jean-François Liesch  
Site Manager Differdange

Christophe Houyoux  
Quality Manager

Date : 01.07.2013

Essential characteristic	Performance	Harmonised technical specification	
<b>Tolerances on dimensions and shape</b>	Angles	EN10056-2	
	I and H sections	EN 10034	
	Tapered Flange I	EN 10024	
	UPE, UPN	EN 10279	
<b>Yield strength</b>	HL920, HL1000 with G <sub>HL</sub> >G <sub>ULM</sub> , HD360/400, UB1016, HE1000 with G <sub>HE</sub> >G <sub>HELM</sub>	ASTM A6	
	<b>Nominal thickness (mm)</b>	<b>Values (MPa)</b>	
<b>Tensile strength</b>	>	min	
	16	355	
	40	345	
	<b>Nominal thickness (mm)</b>	<b>Values (MPa)</b>	
>	min	max	
<b>Elongation</b>	>	470	630
	>	40	
	=3	22	
<b>Impact strength</b>	<b>Nominal thickness (mm)</b>	<b>Values (J)</b>	
	>	min	
<b>Weldability</b>	<b>Nominal thickness (mm)</b>	<b>Values (%)</b>	
	>	27 at -20°C	
	16	NPD	
<b>Durability (Chemical composition)</b>	<b>Nominal thickness (mm)</b>	<b>Values (%)</b>	
	>	min	max
<p>* It is permissible to exceed the specified values provided that for each increase of 0,001 % N, the P<sub>max</sub> content will be reduced by 0,005%; the N content of the ladle analysis, however, shall not be more than 0,072%. 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.</p> <p>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</p> <p>The steels may show a Ni content of max. 0,65%. The steels may contain max. 0,30% Mo and max. 0,15% Zr.</p> <p>Fully killed steel containing nitrogen binding element in amounts sufficient to bind the available nitrogen (for example min. 0,02% Al)</p>			



# ArcelorMittal

**Declaration of Performance**  
 (according to regulation EU No 305/2011)  
 No. AMDI-5/03-CPR-13-1

1) Code of the product type: **1.8967**

2) Type: **Sections/Bars S355K2W 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 Belval and Differdange S.A

Site of Differdange  
 Rue Emile Mark

L-4503 Differdange (G.D. of Luxembourg)

Tel: +352 5820 2870

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. 0769  
 Karlsruher Institut für Technologie (KIT) - Versuchsanstalt für Stahl, Holz und Steine 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:

Jean-François Liesch  
 Site Manager Differdange

Christophe Houyoux  
 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	HL 920, HL 1000 with $G_{HL} > G_{min}$ , HD360/400, UB1016, HE1000 with $G_{HE} > G_{min}$	ASTM A6
	Nominal thickness (mm)	Values (MPa)
Tensile strength	>	min
	16	345
	Nominal thickness (mm)	Values (MPa)
	>	min
Elongation	>	min
	=3	470
Impact strength	>	min
	=3	22
Weldability	Nominal thickness (mm)	Values (J)
	>	min
Durability (Chemical composition)	Nominal thickness (mm)	Values (%)
	>	min

\* 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 0,072%. 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)

EN 10025-1:2004