

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	
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		
	HL920, HL1000 with $G_{HL} > G_{HLM}$, HD360/400, UB1016, HE1000 with $G_{HE} > G_{HEM}$		ASTM A6		
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 : 0,040	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					



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
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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
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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
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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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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		
	HL920, HL1000 with $G_{HL} > G_{HLM}$, HD360/400, UB1016, HE1000 with $G_{HE} > G_{HEM}$		ASTM A6		
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	
* 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					



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
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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
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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	
	HL920, HL1000 with $G_{HL} > G_{HLM}$, HD360/400, UB1016, HE1000 with $G_{HE} > G_{HEM}$		ASTM A6	
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
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. 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 Belval and Differdange S.A
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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
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manufacturing plant and of factory production control and the
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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		
	HL920, HL1000 with $G_{HL} > G_{HLM}$, HD360/400, UB1016, HE1000 with $G_{HE} > G_{HEM}$		ASTM A6		
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	
* 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					



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
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
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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	
	HL920, HL1000 with $G_{HL} > G_{HLM}$, HD360/400, UB1016, HE1000 with $G_{HE} > G_{HEM}$		ASTM A6	
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

EN 10025-1:2004

* 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



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)
 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		EN 10025-1:2004
	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		
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	
Fully killed steel containing nitrogen binding element in amounts sufficient to bind the available nitrogen (for example min. 0,02% Al)					



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)
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
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The performance of the product identified in points 1 and 2 is in
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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	
	HL920, HL1000 with $G_{HL} > G_{HLM}$, HD360/400, UB1016, HE1000 with $G_{HE} > G_{HEM}$		ASTM A6	
Yield strength	Nominal thickness (mm)		Values (MPa)	
	>	≤	min	
		16	355	
	16	40	345	
	40	63	335	
	63	80	325	
	80	100	315	
	100	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	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	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
* 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. 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
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System of assessment and verification of constancy of performance of the product:
System 2+

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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		
	HL920, HL1000 with $G_{HL} > G_{HLM}$, HD360/400, UB1016, HE1000 with $G_{HE} > G_{HEM}$		ASTM A6		
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	
* 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					



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

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

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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		EN 10025-1:2004
	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		
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	
Fully killed steel containing nitrogen binding element in amounts sufficient to bind the available nitrogen (for example min. 0,02% Al)					



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
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	
	HL920, HL1000 with $G_{HL} > G_{HLM}$, HD360/400, UB1016, HE1000 with $G_{HE} > G_{HEM}$		ASTM A6	
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
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
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		EN 10025-1:2004
	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		
Yield strength	Nominal thickness (mm)		Values (MPa)		
	>	≤	min		
		16	450		
	16	40	430		
	40	63	410		
	63	80	390		
	80	100	380		
100	140	380			
Tensile strength	Nominal thickness (mm)		Values (MPa)		
	>	≤	min	max	
	=3	100	550	720	
	100	140	530	700	
	Nominal thickness (mm)		Values (%)		
>	≤	min			
=3	40	17			
40	63				
63	100				
100	140				
Impact strength	Nominal thickness (mm)		Values (J)		
	>	≤	min		
		140	27 at 0°C		
Weldability	Nominal thickness (mm)		Values (%)		
	>	≤	max		
		30	0,47		
	30	40	0,49		
40	140	0,49			
Durability (Chemical composition)	Nominal thickness (mm)		Values (%)		
	>	≤	max		
		140	C : 0,20	Cu : 0,55	
			Si : 0,55	S : 0,035	
			Mn : 1,70	N* : 0,025	
		P : 0,035			
* 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)					



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
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		EN 10025-1:2004
	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		
Yield strength	Nominal thickness (mm)		Values (MPa)		
	>	≤	min		
		16	275		
	16	40	265		
	40	63	255		
	63	80	245		
	80	100	245		
100	140	240			
Tensile strength	Nominal thickness (mm)		Values (MPa)		
	>	≤	min	max	
		40	370	530	
	40	63	360	520	
	63	80	350	510	
	80	100	350	510	
	100	140	350	510	
Elongation	Nominal thickness (mm)		Values (%)		
	>	≤	min		
		140	24		
Impact strength	Nominal thickness (mm)		Values (J)		
	>	≤	min		
		140	40 at -20°C		
Weldability	Nominal thickness (mm)		Values (%)		
	>	≤	max		
		16	0,34		
	16	40	0,34		
	40	63	0,35		
63	140	0,38			
Durability (Chemical composition)	Nominal thickness (mm)		Values (%)		
	>	≤	min	max	
		140		C : 0,15 Ti : 0,05 Mn : 1,50 Cr : 0,30 Si : 0,50 Mo : 0,10 P : 0,035 Ni : 0,30 S : 0,030 Cu : 0,55 Nb : 0,05 N : 0,015 V : 0,08	
			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-4/03-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
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		EN 10025-1:2004
	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		
Yield strength	Nominal thickness (mm)		Values (MPa)		
	>	≤	min		
		16	355		
	16	40	345		
	40	63	335		
	63	80	325		
	80	100	325		
100	140	320			
Tensile strength	Nominal thickness (mm)		Values (MPa)		
	>	≤	min	max	
		40	470	630	
	40	63	450	610	
	63	80	440	600	
	80	100	440	600	
	100	140	430	590	
Elongation	Nominal thickness (mm)		Values (%)		
	>	≤	min		
		140	22		
Impact strength	Nominal thickness (mm)		Values (J)		
	>	≤	min		
		140	40 at -20°C		
Weldability	Nominal thickness (mm)		Values (%)		
	>	≤	max		
		16	0,39		
	16	40	0,39		
	40	63	0,40		
63	140	0,45			
Durability (Chemical composition)	Nominal thickness (mm)		Values (%)		
	>	≤	min	max	
		140		C : 0,16 Ti : 0,05 Mn : 1,60 Cr : 0,30 Si : 0,50 Mo : 0,10 P : 0,035 Ni : 0,50 S : 0,030 Cu : 0,55 Nb : 0,05 N : 0,015 V : 0,10	
			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-4/04-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
 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		EN 10025-1:2004
	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		
Yield strength	Nominal thickness (mm)		Values (MPa)		
	>	≤	min		
		16	355		
	16	40	345		
	40	63	335		
	63	80	325		
	80	100	325		
	100	320			
Tensile strength	Nominal thickness (mm)		Values (MPa)		
	>	≤	min	max	
		40	470	630	
	40	63	450	610	
	63	80	440	600	
	80	100	440	600	
	100	125	430	590	
Elongation	Nominal thickness (mm)		Values (%)		
	>	≤	min		
		140	22		
Impact strength	Nominal thickness (mm)		Values (J)		
	>	≤	min		
		140	27 at -50°C		
Weldability	Nominal thickness (mm)		Values (%)		
	>	≤	max		
		16	0,39		
	16	40	0,39		
	40	63	0,40		
	63	0,45			
Durability (Chemical composition)	Nominal thickness (mm)		Values (%)		
	>	≤	min	max	
		140		C : 0,16 Ti : 0,05 Mn : 1,60 Cr : 0,30 Si : 0,50 Mo : 0,10 P : 0,030 Ni : 0,50 S : 0,025 Cu : 0,55 Nb : 0,05 N : 0,015 V : 0,10	
			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

- 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
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		EN 10025-1:2004
	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		
Yield strength	Nominal thickness (mm)		Values (MPa)		
	>	≤	min		
		16	460		
	16	40	440		
	40	63	430		
	63	80	410		
	80	100	400		
	100	385			
Tensile strength	Nominal thickness (mm)		Values (MPa)		
	>	≤	min	max	
		40	540	720	
	40	63	530	710	
	63	80	510	690	
	80	100	500	680	
	100	140	490	660	
Elongation	Nominal thickness (mm)		Values (%)		
	>	≤	min		
		140	17		
Impact strength	Nominal thickness (mm)		Values (J)		
	>	≤	min		
		140	40 at -20°C		
Weldability	Nominal thickness (mm)		Values (%)		
	>	≤	max		
		16	0,45		
	16	40	0,46		
	40	63	0,47		
	63	0,48			
Durability (Chemical composition)	Nominal thickness (mm)		Values (%)		
	>	≤	min	max	
		140		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	
			Al* : 0,02		
* If sufficient other nitrogen binding elements are present, the minimum aluminium requirement does not apply					



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	
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		
	HL920, HL1000 with $G_{HL} > G_{HLM}$, HD360/400, UB1016, HE1000 with $G_{HE} > G_{HEM}$		ASTM A6		
Yield strength	Nominal thickness (mm)		Values (MPa)		
	>	≤	min		
		16	460		
	16	40	440		
	40	63	430		
	63	80	410		
	80	100	400		
100	125	385			
Tensile strength	Nominal thickness (mm)		Values (MPa)		
	>	≤	min	max	
		40	540	720	
	40	63	530	710	
	63	80	510	690	
	80	100	500	680	
	100	125	490	660	
Elongation	Nominal thickness (mm)		Values (%)		
	>	≤	min		
		140	17		
Impact strength	Nominal thickness (mm)		Values (J)		
	>	≤	min		
		140	27 at -50°C		
Weldability	Nominal thickness (mm)		Values (%)		
	>	≤	max		
		16	0,45		
	16	40	0,46		
	40	63	0,47		
63	140	0,48			
Durability (Chemical composition)	Nominal thickness (mm)		Values (%)		
	>	≤	min	max	
		140		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	
			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-4/09-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
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		EN 10025-1:2004
	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		
Yield strength	Nominal thickness (mm)		Values (MPa)		
	>	≤	min		
		16	355		
	16	40			
	40	82			
82	125				
125	140	355**			
Tensile strength	Nominal thickness (mm)		Values (MPa)		
	>	≤	min	max	
		140	470	630	
Elongation	Nominal thickness (mm)		Values (%)		
	>	≤	min		
	140	22			
Impact strength	Nominal thickness (mm)		Values (J)		
	>	≤	min		
	140	40 at -20°C			
Weldability	Nominal thickness (mm)		Values (%)		
	>	≤	max		
		63	0,39		
	63	82	0,39		
	82	125	0,39		
125	140	0,39**			
Durability (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 : 0,030 Cu : 0,55 Nb : 0,05 N : 0,015 V : 0,10	
		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.					



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
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		EN 10025-1:2004
	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		
Yield strength	Nominal thickness (mm)		Values (MPa)		
	>	≤	min		
		16	355		
	16	40			
	40	82			
82	125	355**			
Tensile strength	Nominal thickness (mm)		Values (MPa)		
	>	≤	min	max	
		140	470	630	
Elongation	Nominal thickness (mm)		Values (%)		
	>	≤	min		
	140	22			
Impact strength	Nominal thickness (mm)		Values (J)		
	>	≤	min		
		140	27 at -50°C		
Weldability	Nominal thickness (mm)		Values (%)		
	>	≤	max		
		63	0,39		
	63	82	0,39		
	82	125	0,39**		
Durability (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	
			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.					



ArcelorMittal

Declaration of Performance
(according to regulation EU No 305/2011)
No. AMDI-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
Tolerances on dimensions and shape	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	
Yield strength	Nominal thickness (mm)		Values (MPa)	
	>	≤	min	
		16	460	
	16	40		
	40	82		
	82	125	450	
125	140	450**		
Tensile strength	Nominal thickness (mm)		Values (MPa)	
	>	≤	min	max
		140	540	720
Elongation	Nominal thickness (mm)		Values (%)	
	>	≤	min	
		140	17	
Impact strength	Nominal thickness (mm)		Values (J)	
	>	≤	min	
		140	40 at -20°C	
Weldability	Nominal thickness (mm)		Values (%)	
	>	≤	max	
		63	0,41	
	63	82	0,43	
	82	125	0,43	
	125	140	0,43**	
Durability (Chemical composition)	Nominal thickness (mm)		Values (%)	
	>	≤	min	max
		140		C : 0,12 Ti : 0,05 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. AMDI-4/12-CPR-13-1

- Code of the product type: **HISTAR 460L**
- 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

- 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		EN 10025-1:2004
	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		
Yield strength	Nominal thickness (mm)		Values (MPa)		
	>	≤	min		
		16	460		
	16	40			
	40	82			
82	125	450**			
Tensile strength	Nominal thickness (mm)		Values (MPa)		
	>	≤	min	max	
		140	540	720	
Elongation	Nominal thickness (mm)		Values (%)		
	>	≤	min		
	140	17			
Impact strength	Nominal thickness (mm)		Values (J)		
	>	≤	min		
		140	27 at -50°C		
Weldability	Nominal thickness (mm)		Values (%)		
	>	≤	max		
		63	0,41		
	63	82	0,43		
	82	125	0,43		
	125	140	0,43**		
Durability (Chemical composition)	Nominal thickness (mm)		Values (%)		
	>	≤	min	max	
		140		C : 0,12 Ti : 0,05 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.					



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	
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		
	HL920, HL1000 with $G_{HL} > G_{HLM}$, HD360/400, UB1016, HE1000 with $G_{HE} > G_{HEM}$		ASTM A6		
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 0°C		
Weldability	Nominal thickness (mm)		Values (%)		
	>	≤	NPD		
		16			
	16	40			
Durability (Chemical composition)	Nominal thickness (mm)		Values (%)		
	>	≤	min	max	
		40		C : 0,16 S : 0,040 Si : 0,50 N* : 0,009 P : 0,040	
			Mn : 0,50 Cu : 0,25 Cr : 0,40	Mn : 1,50 Cu : 0,55 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. 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	
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		
	HL920, HL1000 with $G_{HL} > G_{HLM}$, HD360/400, UB1016, HE1000 with $G_{HE} > G_{HEM}$		ASTM A6		
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 Cu : 0,25 Cr : 0,40	Mn : 1,50 Cu : 0,55 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)			



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		EN 10025-1:2004
	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		
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	40 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 Cu : 0,25 Cr : 0,40	Mn : 1,50 Cu : 0,55 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)					