



ArcelorMittal

Declaration of Performance

(according to regulation EU No 305/2011)

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

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 Esch-Belval
Boulevard Charles de Gaulle
L-4008 Esch-sur-Alzette (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:

Roland Bastian
Site Manager Esch-Belval

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 UPE, UPN		EN 10024	
		EN 10279	
Yield strength	Flat / Square / Round / T bars	EN 10058/EN 10059/EN 10060/EN 10055	
	Nominal thickness (mm)	Values (MPa)	
	>	min	
	16	235	
	40	225	
Tensile strength	Nominal thickness (mm)	Values (MPa)	
	>	min	
	=3	360	
	100	350	
	140	510	
Elongation	Nominal thickness (mm)	Values (%)	
	>	min	
	=3	26	
	40	25	
	63	24	
Impact strength	Nominal thickness (mm)	Values (J)	
	>	min	
Weldability	140	27 at +20°C	
	Nominal thickness (mm)	Values (%)	
	>	max	
	30	0.35	
	40	0.35	
Durability (Chemical composition)	Nominal thickness (mm)	Values (%)	
	>	max	
	140	C* : 0.17 Cu : 0.55 Mn : 1.40 S : 0.040 P : 0.040 N** : 0.012	
<p>* For nominal thickness > 40 mm C: 0.20. For nominal thickness > 100 mm: C content upon agreement ** The max. value for nitrogen does not apply if the chemical composition shows a minimum total Al content of 0.020% or if sufficient other N binding elements are present</p>			



ArcelorMittal

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

No. AMEB-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 Esch-Belval
Boulevard Charies de Gaulle
L-4008 Esch-sur-Alzette (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:

Roland Bastian
Site Manager Esch-Belval

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	
	Tabered Flange I UPE, UPN	EN 10024 EN 10279	
Yield strength	Flat / Square / Round / T bars	EN 10058/EN 10059/EN 10060/EN 10055	
	Nominal thickness (mm)	Values (MPa)	
	>	min	
	16	235	
	40	225	
Tensile strength	Nominal thickness (mm)	Values (MPa)	
	>	min	
	=3	360	
	100	350	
	140	500	
Elongation	Nominal thickness (mm)	Values (%)	
	>	min	
	=3	26	
	40	25	
	63	24	
Impact strength	Nominal thickness (mm)	Values (J)	
	>	min	
	140	27 at 0°C	
Weldability	Nominal thickness (mm)	Values (%)	
	>	max	
	30	0,35	
	40	0,35	
Durability (Chemical composition)	Nominal thickness (mm)	Values (%)	
	>	max	
	140	C* : 0,17 Cu : 0,55 Mn : 1,40 S : 0,035 P : 0,035 N** : 0,012	
<p>* For nominal thickness >100 mm: C content upon agreement. ** The max. value for nitrogen does not apply if the chemical composition shows a minimum total Al content of 0,020% or if sufficient other N binding elements are present</p>			



ArcelorMittal

Declaration of Performance

(according to regulation EU No 305/2011)

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

Code of the product type: **1.0117**

1) 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 Esch-Belval
Boulevard Charles de Gaulle
L-4008 Esch-sur-Alzette (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:

Roland Bastian
Site Manager Esch-Belval

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	Flat / Square / Round / T bars	EN 10058/EN 10059/EN 10060/EN 10055	
	Nominal thickness (mm)	Values (MPa)	
	>	min	
	16	235	
40	225	215	
63			
80			
100			
Tensile strength	Nominal thickness (mm)	Values (MPa)	
	>	min	
	≤	max	
	3	360	
100	350	500	
Elongation	Nominal thickness (mm)	Values (%)	
	>	min	
	≤	max	
	3	26	
	40	25	
	63	24	
100	22		
Impact strength	Nominal thickness (mm)	Values (J)	EN 10025-1:2004
	>	min	
Weldability	140	27 at -20°C	
	Nominal thickness (mm)	Values (%)	
	>	max	
	30	0.35	
40	0.35	0.38	
140			
Durability (Chemical composition)	Nominal thickness (mm)	Values (%)	
	>	max	
140	C* : 0,17 Mn : 1,40 P : 0,030	Cu : 0,55 S : 0,030	

* For nominal thickness >100 mm: C content upon agreement.
Fully killed steel containing nitrogen binding element in amounts sufficient to bind the available nitrogen (for example min. 0,02% Al)



Declaration of Performance
(according to regulation EU No 305/2011)
No. AMEB-2/04-CPR-13-1
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:

- 1) To be used in welded, bolted and riveted structures
- 3) ArcelorMittal Belval and Differdange S.A
Site of Esch-Belval
Boulevard Charles de Gaulle
L-4008 Esch-sur-Alzette (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:

Roland Bastian
Site Manager Esch-Belval

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	
Yield strength	UPE, UPN	EN 10279	
	Flat / Square / Round / T bars	EN 10058/EN 10059/EN 10060/EN 10055	
	Nominal thickness (mm)	Values (MPa)	
	>	min	
	≤	max	
Tensile strength	16	275	
	40	265	
	63	255	
	80	245	
	100	235	
Elongation	100	225	
	Nominal thickness (mm)	Values (MPa)	
	>	min	
	≤	max	
	100	410	
Impact strength	140	560	EN 10025-1:2004
	Nominal thickness (mm)	Values (%)	
	>	min	
	≤	max	
	100	400	
Weldability	140	27 at +20°C	
	Nominal thickness (mm)	Values (%)	
	>	max	
	≤	min	
	30	0.40	
Durability (Chemical composition)	40	0.40	
	140	0.42	
	Nominal thickness (mm)	Values (%)	
	>	max	
	≤	min	
		Cu : 0,55	
		Mn : 1,50	
		P : 0,040	
		N** : 0,012	
<p>* For nominal thickness > 40 mm C: 0,22. For nominal thickness > 100 mm: C content upon agreement</p> <p>** 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>			



ArcelorMittal

Declaration of Performance

(according to regulation EU No 305/2011)

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

Code of the product type: **1.0143**

1) 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 Esch-Belval
Boulevard Charles de Gaulle
L-4008 Esch-sur-Alzette (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:

Roland Bastian
Site Manager Esch-Belval

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		
	Flat / Square / Round / T bars	EN 10058/EN 10059/EN 10060/EN 10055		
	Nominal thickness (mm)	Values (MPa)		
>	≤	min		
16	16	275		
40	40	265		
63	63	255		
80	80	245		
100	100	235		
140	140	225		
Tensile strength	Nominal thickness (mm)	Values (MPa)		
	>	≤	min	
	≤	410	max	
100	100	410	560	
140	140	400	540	
Elongation	Nominal thickness (mm)	Values (%)		
	>	≤	min	
	≤	40	23	
	40	40	22	
	63	63	21	
100	100	19		
140	140	19		
Impact strength	Nominal thickness (mm)	Values (J)		
	>	≤	min	
140	140	27 at 0°C		
Weldability	Nominal thickness (mm)	Values (%)		
	>	≤	max	
30	30	0.40		
40	40	0.40		
140	140	0.42		
Durability (Chemical composition)	Nominal thickness (mm)	Values (%)		
	>	≤	max	
140	140	C* : 0,18	Cu : 0,55	
		Mn : 1,50	S : 0,035	
		P : 0,035	N** : 0,012	

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



Declaration of Performance
 (according to regulation EU No 305/2011)
 No. AMEB-2/06-CPR-13-1
 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 Esch-Belval
 Boulevard Charles de Gaulle
 L-4008 Esch-sur-Alzette (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:

Roland Bastian Site Manager Esch-Belval
 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	Flat / Square / Round / T bars	EN 10058/EN 10059/EN 10060/EN 10055	
	Nominal thickness (mm)	Values (MPa)	
	>	min	
	≤	min	
	16	275	
	40	265	
Tensile strength	Nominal thickness (mm)	Values (MPa)	EN 10025-1:2004
	>	min	
	≤	min	
	3	410	
	100	400	
	140	540	
Elongation	Nominal thickness (mm)	Values (%)	
	>	min	
	≤	min	
	3	23	
	40	22	
	63	21	
Impact strength	Nominal thickness (mm)	Values (J)	
	>	min	
	≤	min	
	140	27 at -20°C	
	Nominal thickness (mm)	Values (%)	
	>	max	
Weldability	Nominal thickness (mm)	Values (%)	
	>	max	
	≤	max	
	30	0.40	
	40	0.40	
	140	0.42	
Durability (Chemical composition)	Nominal thickness (mm)	Values (%)	C* : 0,18 Mn : 1,50 P : 0,030 Cu : 0,55 S : 0,030
	>	max	
	≤	max	
	140	max	
	Nominal thickness (mm)	Values (%)	
	>	max	

* For nominal thickness >100 mm: C content upon agreement.
 Fully killed steel containing nitrogen binding element in amounts sufficient to bind the available nitrogen (for example min. 0,02% Al)



ArcelorMittal

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

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

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 Esch-Belval
Boulevard Charles de Gaulle
L-4008 Esch-sur-Alzette (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:

Roland Bastian
Site Manager Esch-Belval

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	Flat / Square / Round / T bars	EN 10058/EN 10059/EN 10060/EN 10055	
	Nominal thickness (mm)	Values (MPa)	
	>	min	
	≤	max	
Tensile strength	Nominal thickness (mm)	Values (MPa)	EN 10025-1:2004
	>	min	
	≤	max	
	≤	max	
Elongation	Nominal thickness (mm)	Values (%)	
	>	min	
	≤	min	
	≤	min	
Impact strength	Nominal thickness (mm)	Values (J)	
	>	min	
	≤	min	
	≤	min	
Weldability	Nominal thickness (mm)	27 at +20°C	
	>	Values (%)	
	≤	max	
	≤	max	
Durability (Chemical composition)	Nominal thickness (mm)	Values (%)	C* : 0,24 Si : 0,55 Mn : 1,60 P : 0,040 Cu : 0,55 S : 0,040 N** : 0,012
	>	max	
	≤	max	
	≤	max	

* For nominal thickness >100 mm: C content upon agreement.

** The max. value for nitrogen does not apply if the chemical composition shows a minimum total Al content of 0.026% or, if sufficient other N binding elements are present.



ArcelorMittal

Declaration of Performance

(according to regulation EU No 305/2011)

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

Code of the product type: **1.0553**

1) 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 Esch-Belval

Boulevard Charlies de Gaulle

L-4008 Esch-sur-Alzette (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:

Roland Bastian
Site Manager Esch-Belval

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 LPE, UPN	EN 10024 EN 10279		
Yield strength	Flat / Square / Round / T bars	EN 10058/EN 10059/EN 10060/EN 10055		
	Nominal thickness (mm)	Values (MPa) min max		
Tensile strength	>	16	355	
	16	40	345	
	40	63	335	
	63	80	325	
	80	100	315	
Elongation	100	140	295	
	Nominal thickness (mm)	Values (MPa) min max		
	>	≤	470 630	
Impact strength	≤	100	450	
	100	140	600	
	Nominal thickness (mm)	Values (%) min max		
	>	≤	22 21	
	≤	40 63 100 140	20 18	
Weidability	Nominal thickness (mm)	Values (J) min max	EN 10025-1:2004	
	>	≤		27 at 0°C
Durability (Chemical composition)	Nominal thickness (mm)	Values (%) min max	C* : 0,20 Cu : 0,55 Si : 0,55 Mn : 1,60 N** : 0,012 P : 0,035	
	>	≤		0,45 0,47
	Nominal thickness (mm)	Values (%) min max		
	>	≤		140

* For nominal thickness > 30 mm C: 0.22. For nominal thickness > 100 mm: C content upon agreement
** The max. value for nitrogen does not apply if the chemical composition shows a minimum total Al content of 0.020% or if sufficient other N binding elements are present



ArcelorMittal

Declaration of Performance

(according to regulation EU No 305/2011)

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

Code of the product type: **1.0577**

1) 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 Esch-Belval
Boulevard Charles de Gaulle
L-4008 Esch-sur-Alzette (G.D. of Luxembourg)
Tel: +352 5820 2870
www.arcelormittal.com/sections

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:

Roland Bastian Christophe Houyoux
Site Manager Esch-Belval 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 UPE, UPN	EN 10024 EN 10279	
Yield strength	Flat / Square / Round / T bars	EN 10058/EN 10059/EN 10060/EN 10055	
	Nominal thickness (mm)	Values (MPa)	
	>	min	
	≤	max	
	16	355	
	40	345	
	63	335	
	80	325	
	100	315	
	140	295	
Tensile strength	Nominal thickness (mm)	Values (MPa)	
	>	min	
	≤	max	
	=3	470	630
	100	450	600
Elongation	Nominal thickness (mm)	Values (%)	
	>	min	
	≤	max	
	=3	40	22
	40	63	21
Impact strength	Nominal thickness (mm)	Values (J)	
	>	min	
	≤	max	
	140	27 at -20°C	
Weldability	Nominal thickness (mm)	Values (%)	
	>	min	
	≤	max	
	30	0.45	
	40	0.47	
Durability (Chemical composition)	Nominal thickness (mm)	Values (%)	
	>	min	
	≤	max	
	140	C* : 0,20 Cu : 0,55 Si : 0,55 S : 0,030 Mn : 1,60 P : 0,030	

* For nominal thickness > 30 mm C: 0,22. For nominal thickness > 100 mm: C content upon agreement.
Fully killed steel containing nitrogen binding element in amounts sufficient to bind the available nitrogen
(for example min. 0,02% Al)

EN 10025-1:2004



- Declaration of Performance**
(according to regulation EU No 305/2011)
No. AMEB-2/10-CPR-13-1
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 Esch-Belval
Boulevard Charles de Gaulle
L-4008 Esch-sur-Alzette (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:

Roland Bastian Christophe Houyoux
Site Manager Esch-Belval Quality Manager

Date : 01.07.2013

Essential characteristic		Performance	Harmonised technical specification
Tolerances on dimensions and shape	Angles	EN10056-2	
	I and H sections	EN 10034	
	Tapered Flange I	EN 10024	
	UPE, UPN	EN 10279	
Yield strength	Flat / Square / Round / T bars	EN 10058/EN 10059/EN 10060/EN 10055	
	Nominal thickness (mm)	Values (MPa)	
	>	min	
	≤	max	
	16	355	
	40	345	
	63	335	
	80	325	
	100	315	
	140	295	
Tensile strength	Nominal thickness (mm)	Values (MPa)	
	>	min	
	≤	max	
	=3	470	630
	100	450	600
Elongation	Nominal thickness (mm)	Values (%)	
	>	min	
	≤	max	
	=3	40	22
	40	63	21
	63	100	20
	100	140	18
Impact strength	Nominal thickness (mm)	Values (J)	
	>	min	
	≤	max	
	140	40 at -20°C	
Weldability	Nominal thickness (mm)	Values (%)	
	>	min	
	≤	max	
	30	0.45	
	40	0.47	
	140	0.47	
Durability (Chemical composition)	Nominal thickness (mm)	Values (%)	
	>	min	
	≤	max	
	140	C* : 0,20 Cu : 0,55	
		Si : 0,55 S : 0,030	
		Mn : 1,60 P : 0,030	
* For nominal thickness > 30 mm C: 0.22. For nominal thickness > 100 mm: C content upon agreement. Fully killed steel containing nitrogen binding element in amounts sufficient to bind the available nitrogen (for example min. 0.02% Al)			

EN 10025-1:2004



ArcelorMittal

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

No. AMEB-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 Esch-Belval
Boulevard Charles de Gaulle
L-4008 Esch-sur-Alzette (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:

Roland Bastian Christophe Houyoux
Site Manager Esch-Belval 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	
	Flat / Square / Round / T bars	EN 10058/EN 10059/EN 10060/EN 10055	
	Nominal thickness (mm)	Values (MPa)	
Tensile strength	>	min	
	≤	450	
	16	430	
	40	410	
	63	390	
	80	380	
Elongation	100	380	
	140		
	Nominal thickness (mm)	Values (MPa)	
	>	min	max
Impact strength	≤	550	720
	≠3	100	530
	40	140	700
	63		
Weidability	100	Values (%)	
	>	min	
	≤	17	
	140		
Durability (Chemical composition)	Nominal thickness (mm)	Values (J)	
	>	min	
	≤	27 at 0°C	
	140	max	
Durability (Chemical composition)	Nominal thickness (mm)	Values (%)	
	>	max	
	≤	0.47	
	140	0.49	
Durability (Chemical composition)	Nominal thickness (mm)	Values (%)	
	>	max	
	≤	C* : 0,20	Cu : 0,55
	140	Si : 0,55	S : 0,035
<p>* For nominal thickness > 30 mm C: 0,22. For nominal thickness >100 mm: C content upon agreement</p> <p>** 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>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%.</p> <p>Fully killed steel containing nitrogen binding element in amounts sufficient to bind the available nitrogen (for example min. 0,02% Al)</p>			

EN 10025-1:2004



ArcelorMittal

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

No. AMEB-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 Esch-Belval
 Boulevard Charles de Gaulle
 L-4008 Esch-sur-Alzette (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:

Roland Bastian
 Site Manager Esch-Belval
 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	EN 10058/EN 10059/EN 10060/EN 10055
	UPE, UPN	EN 10279	
	Flat / Square / Round / T bars		
	Nominal thickness (mm)	Values (MPa)	
	>	min	
Tensile strength	<	max	EN 10025-1:2004
	40	370	
	63	360	
	80	350	
	100	350	
Elongation	Nominal thickness (mm)	Values (%)	
	>	min	
Impact strength	<	max	
	Nominal thickness (mm)	Values (J)	
Weldability	>	min	
	140	40 at -20°C	
	Nominal thickness (mm)	Values (%)	
	>	max	
	16	0.34	
Durability (Chemical composition)	40	0.34	C : 0,15 Mn : 1,50 Si : 0,50 P : 0,035 S : 0,030 Nb : 0,05 V : 0,08
	63	0.35	
	140	0.38	
	Nominal thickness (mm)	Values (%)	
	>	min	
	140	max	Ti : 0,05 Cr : 0,30 Mo : 0,10 Ni : 0,30 Cu : 0,55 N : 0,015
* 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. AMEB-4/03-CPR-13-1

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 Esch-Belval
Boulevard Charles de Gaulle
L-4008 Esch-sur-Alzette (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:

Roland Bastian
Site Manager Esch-Belval
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	
	Flat / Square / Round / T bars	EN 10058/EN 10059/EN 10060/EN 10055	
	Nominal thickness (mm)	Values (MPa)	
>	≤	min	
16	16	355	
40	40	345	
63	63	335	
80	80	325	
100	100	325	
140	140	320	
Tensile strength	Nominal thickness (mm)	Values (MPa)	
	>	≤	min max
40	40	470	630
63	63	450	610
80	80	440	600
100	100	440	600
140	140	430	590
Elongation	Nominal thickness (mm)	Values (%)	
	>	≤	min
140	140	22	
Impact strength	Nominal thickness (mm)	Values (J)	
	>	≤	min
140	140	40 at -20°C	
Weldability	Nominal thickness (mm)	Values (%)	
	>	≤	max
16	16	0.39	
40	40	0.39	
63	63	0.40	
140	140	0.45	
Durability (Chemical composition)	Nominal thickness (mm)	Values (%)	
	>	≤	min max
140	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

EN 10025-1:2004



ArcelorMittal

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

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

Code of the product type: **1.8834**

1) 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 Esch-Belval
Boulevard Charles de Gaulle
L-4008 Esch-sur-Alzette (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:

Roland Bastian
Site Manager Esch-Belval
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	
	Flat / Square / Round / T bars	EN 10058/EN 10059/EN 10060/EN 10055	
	Nominal thickness (mm)	Values (MPa)	
	>	min	
Tensile strength	<	max	
	16	355	
	40	345	
	63	335	
	80	325	
Elongation	100	325	
	125	320	
	Nominal thickness (mm)	Values (MPa)	
	>	min	
	40	470	630
Impact strength	63	450	610
	80	440	600
	100	440	600
	125	430	590
	Nominal thickness (mm)	Values (%)	
Weldability	>	min	
	140	22	
	Nominal thickness (mm)	Values (J)	
	>	min	
	140	27 at -50°C	
Durability (Chemical composition)	Nominal thickness (mm)	Values (%)	
	>	max	
	16	0.39	
	40	0.39	
	63	0.40	
Harmonised technical specification	Nominal thickness (mm)	Values (%)	
	>	min	
	140	max	
	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			
* 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. AMEB-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 Esch-Belval
Boulevard Charles de Gaulle
L-4008 Esch-sur-Alzette (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:

Roland Bastian
Site Manager Esch-Belval

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	Flat / Square / Round / T bars	EN 10058/EN 10059/EN 10060/EN 10055	
	Nominal thickness (mm)	Values (MPa)	
	>	min	
	≤	460	
	16	440	
40	430		
63	410		
80	400		
100	385		
Tensile strength	Nominal thickness (mm)	Values (MPa)	
	>	min	max
	≤	540	720
	40	530	710
	63	510	690
80	500	680	
100	490	660	
Elongation	Nominal thickness (mm)	Values (%)	EN 10025-1:2004
	>	min	max
≤	140	17	
Impact strength	Nominal thickness (mm)	Values (J)	
	>	min	
	≤	40 at -20°C	
Weldability	Nominal thickness (mm)	Values (%)	
	>	max	
	≤	0.45	
	16	0.46	
	40	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. AMEB-5/01-CPR-13-1
 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 Esch-Belval
 Boulevard Charles de Gaulle
 L-4008 Esch-sur-Alzette (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:

Roland Bastian
 Site Manager Esch-Belval
 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	
Yield strength	UPE, UPN	EN 10279	
	Flat / Square / Round / T bars	EN 10058/EN 10059/EN 10060/EN 10055	
	Nominal thickness (mm)	Values (MPa)	
Tensile strength	>	min	
	16	355	
	40	345	
Elongation	Nominal thickness (mm)	Values (MPa)	
	>	min	
	=3	470	
Impact strength	Nominal thickness (mm)	Values (%)	
	>	min	
	=3	22	
Weldability	Nominal thickness (mm)	Values (J)	EN 10025-1:2004
	>	min	
	40	27 at 0°C	
Durability (Chemical composition)	Nominal thickness (mm)	Values (%)	
	>	min	
	40	max	
		C : 0,16 S : 0,040	
		Si : 0,50 N* : 0,009	
		P : 0,040	
		Mn : 0,50	
		Cu : 0,25	
		Cr : 0,40	

* It is permissible to exceed the specified values provided that for each increase of 0,001 % N, the P_{max} 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. AMEB-5/02-CPR-13-1
 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 Esch-Belval
 Boulevard Charles de Gaulle
 L-4008 Esch-sur-Alzette (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:

Roland Bastian
 Site Manager Esch-Belval
 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	
Yield strength	UPE, UPN	EN 10279	
	Flat / Square / Round / T bars	EN 10058/EN 10059/EN 10060/EN 10055	
	Nominal thickness (mm)	Values (MPa)	
Tensile strength	>	min	
	16	355	
	40	345	
Elongation	Nominal thickness (mm)	Values (MPa)	
	>	min	
	=3	470	
Impact strength	Nominal thickness (mm)	Values (%)	
	>	min	
	=3	40	
Weldability	Nominal thickness (mm)	Values (J)	EN 10025-1:2004
	>	min	
	16	27 at -20°C	
Durability (Chemical composition)	Nominal thickness (mm)	Values (%)	
	>	min	
	16	max	
		C : 0,16 S : 0,035 Si : 0,50 N* : 0,009 P : 0,035	
		Mn : 0,50 Cu : 0,25 Cr : 0,40	
<p>* It is permissible to exceed the specified values provided that for each increase of 0,001 % N, the P_{max} 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.</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>			



Declaration of Performance
(according to regulation EU No 305/2011)
No. AMEB-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 Esch-Belval
Boulevard Charies de Gaulle
L-4008 Esch-sur-Alzette (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:

Roland Bastian
Site Manager Esch-Belval
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	Flat / Square / Round / T bars	EN 10058/EN 10059/EN 10060/EN 10055	
	Nominal thickness (mm)	Values (MPa)	
Tensile strength	>	min	
	16	355	
	40	345	
	>	min	
Elongation	Nominal thickness (mm)	Values (MPa)	
	>	min	
Impact strength	=3	470	max 630
	>	min	
	40	22	
	>	min	
Weldability	Nominal thickness (mm)	Values (J)	
	>	min	
	40	40 at -20°C	
	>	Values (%)	
Durability (Chemical composition)	Nominal thickness (mm)	Values (%)	
	>	min	
	40	C : 0,16 S : 0,035 Si : 0,50 N* : 0,009 P : 0,035	
	>	max	
		Mn : 0,50 Cu : 0,25 Cr : 0,40	Mn : 1,50 Cu : 0,55 Cr : 0,80
<p>* It is permissible to exceed the specified values provided that for each increase of 0,001 % N, the P max 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)</p>			

EN 10025-1:2004