

DECLARATION OF PERFORMANCE

N° BC1-251-2800-01-003

1. Unique identification code of the product-type:

Hooked-End steel fibre HE 55/35

2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4):

Each pallet has a unique pallet number for identification and full tracking of the product

3. Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer:

Steel fibres for structural use in concrete, mortar and grout

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5):

**ArcelorMittal Sheffield Ltd
Vulcan Works Birley Vale Close
GB-Sheffield S12 2DB**

5. Where applicable, name and contact address of the authorized representative whose mandate covers the tasks specified in Article 12(2):

DNA^{*)}

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:

System 1

7. In case of the declaration of performance concerning a construction product covered by a harmonized standard:

EN 14889-1:2006

The notified body BCCA (CPR NB 0749) has confirmed the validity of the initial type of testing and performed the initial inspection of the factory and the factory production control. NB 0749 performs as well the continuous surveillance, assessment and approval of the factory production control

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

DNA^{*)}

9. Declared performance

Essential characteristics	Performance	Harmonized technical specification
Tensile strength Modulus of elasticity	$R_m = 1200 \text{ MPa}$ NPD	EN 14889-1:2006 5.3 EN 14889-1:2006 5.4
Effect on workability of concrete	Consistency with 25 kg/m^3 Vebe time 9 s	EN 14889-1:2006 5.7
Effect on strength of concrete	Group 1 deformed / Hooked-End Length 35 mm Diameter 0.55 mm Average residual strength of 1.5 MPa @ CMOD = 0.5 mm and of 1.0 MPa @ CMOD = 3.5 mm achieved with 25 kg/m^3	EN 14889-1:2006 5.1 EN 14889-1:2006 5.2 EN 14889-1:2006 5.2 EN 14889-1:2006 5.8
Release of dangerous substances	no dangerous substances released	EN 14889-1:2006 5.9 EN 14889-1:2006 ZA.1
Durability	NPD ^{**})	EN 14889-1:2006

Where pursuant to Article 37 or 38 the Specific Technical Documentation has been used, the requirements with which the product complies:

DNA^{*)}

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9.

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

Sheffield, July 1st 2013



René PEPIN

Head of Research Development
ArcelorMittal WireSolutions

(^{*)}DNA: does not apply / (^{**})NPD: no performance determined)

DECLARATION OF PERFORMANCE

N° BC1-251-2800-02-003

1. Unique identification code of the product-type:

Hooked-End steel fibre HE 75/35

2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4):

Each pallet has a unique pallet number for identification and full tracking of the product

3. Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer:

Steel fibres for structural use in concrete, mortar and grout

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5):

**ArcelorMittal Sheffield Ltd
Vulcan Works Birley Vale Close
GB-Sheffield S12 2DB**

5. Where applicable, name and contact address of the authorized representative whose mandate covers the tasks specified in Article 12(2):

DNA^{*)}

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:

System 1

7. In case of the declaration of performance concerning a construction product covered by a harmonized standard:

EN 14889-1:2006

The notified body BCCA (CPR NB 0749) has confirmed the validity of the initial type of testing and performed the initial inspection of the factory and the factory production control. NB 0749 performs as well the continuous surveillance, assessment and approval of the factory production control

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

DNA^{*)}

9. Declared performance

Essential characteristics	Performance	Harmonized technical specification
Tensile strength Modulus of elasticity	$R_m = 1200 \text{ MPa}$ NPD	EN 14889-1:2006 5.3 EN 14889-1:2006 5.4
Effect on workability of concrete	Consistency with 25 kg/m^3 Vebe time 4 s	EN 14889-1:2006 5.7
Effect on strength of concrete	Group 1 deformed / Hooked-End Length 35 mm Diameter 0.75 mm Average residual strength of 1.5 MPa @ $\text{CMOD} = 0.5 \text{ mm}$ and of 1.0 MPa @ $\text{CMOD} = 3.5 \text{ mm}$ achieved with 25 kg/m^3	EN 14889-1:2006 5.1 EN 14889-1:2006 5.2 EN 14889-1:2006 5.2 EN 14889-1:2006 5.8
Release of dangerous substances	no dangerous substances released	EN 14889-1:2006 5.9 EN 14889-1:2006 ZA.1
Durability	NPD ^{**)}	EN 14889-1:2006

Where pursuant to Article 37 or 38 the Specific Technical Documentation has been used, the requirements with which the product complies:

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Sheffield, July 1st 2013



René PEPIN

Head of Research Development
ArcelorMittal WireSolutions

(^{*)}DNA: does not apply / (^{**})NPD: no performance determined)

DECLARATION OF PERFORMANCE

N° BC1-251-2800-03-003

1. Unique identification code of the product-type:

Hooked-End steel fibre HE 75/50

2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4):

Each pallet has a unique pallet number for identification and full tracking of the product

3. Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer:

Steel fibres for structural use in concrete, mortar and grout

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5):

**ArcelorMittal Sheffield Ltd
Vulcan Works Birley Vale Close
GB-Sheffield S12 2DB**

5. Where applicable, name and contact address of the authorized representative whose mandate covers the tasks specified in Article 12(2):

DNA^{*)}

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:

System 1

7. In case of the declaration of performance concerning a construction product covered by a harmonized standard:

EN 14889-1:2006

The notified body BCCA (CPR NB 0749) has confirmed the validity of the initial type of testing and performed the initial inspection of the factory and the factory production control. NB 0749 performs as well the continuous surveillance, assessment and approval of the factory production control

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

DNA^{*)}

9. Declared performance

Essential characteristics	Performance	Harmonized technical specification
Tensile strength Modulus of elasticity	$R_m = 1200 \text{ MPa}$ NPD	EN 14889-1:2006 5.3 EN 14889-1:2006 5.4
Effect on workability of concrete	Consistency with 25 kg/m^3 Vebe time 7 s	EN 14889-1:2006 5.7
Effect on strength of concrete	Group 1 deformed / Hooked-End Length 50 mm Diameter 0.75 mm Average residual strength of 1.5 MPa @ CMOD = 0.5 mm and of 1.0 MPa @ CMOD = 3.5 mm achieved with 25 kg/m^3	EN 14889-1:2006 5.1 EN 14889-1:2006 5.2 EN 14889-1:2006 5.2 EN 14889-1:2006 5.8
Release of dangerous substances	no dangerous substances released	EN 14889-1:2006 5.9 EN 14889-1:2006 ZA.1
Durability	NPD ^{**})	EN 14889-1:2006

Where pursuant to Article 37 or 38 the Specific Technical Documentation has been used, the requirements with which the product complies:

DNA^{*)}

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9.

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Sheffield, July 1st 2013



René PEPIN

Head of Research Development
ArcelorMittal WireSolutions

(^{*)}DNA: does not apply / (^{**})NPD: no performance determined)

DECLARATION OF PERFORMANCE

N° BC1-251-2800-05-003

1. Unique identification code of the product-type:

Hooked-End steel fibre HE++ 75/50

2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4):

Each pallet has a unique pallet number for identification and full tracking of the product

3. Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer:

Steel fibres for structural use in concrete, mortar and grout

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5):

**ArcelorMittal Sheffield Ltd
Vulcan Works Birley Vale Close
GB-Sheffield S12 2DB**

5. Where applicable, name and contact address of the authorized representative whose mandate covers the tasks specified in Article 12(2):

DNA^{*)}

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:

System 1

7. In case of the declaration of performance concerning a construction product covered by a harmonized standard:

EN 14889-1:2006

The notified body BCCA (CPR NB 0749) has confirmed the validity of the initial type of testing and performed the initial inspection of the factory and the factory production control. NB 0749 performs as well the continuous surveillance, assessment and approval of the factory production control

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

DNA^{*)}

9. Declared performance

Essential characteristics	Performance	Harmonized technical specification
Tensile strength Modulus of elasticity	$R_m = 1900 \text{ MPa}$ NPD	EN 14889-1:2006 5.3 EN 14889-1:2006 5.4
Effect on workability of concrete	Consistency with 20 kg/m^3 Vebe time 7 s	EN 14889-1:2006 5.7
Effect on strength of concrete	Group 1 deformed / Hooked-End Length 50 mm Diameter 0.75 mm Average residual strength of 1.5 MPa @ $\text{CMOD} = 0.5 \text{ mm}$ and of 1.0 MPa @ $\text{CMOD} = 3.5 \text{ mm}$ achieved with 20 kg/m^3	EN 14889-1:2006 5.1 EN 14889-1:2006 5.2 EN 14889-1:2006 5.2 EN 14889-1:2006 5.8
Release of dangerous substances	no dangerous substances released	EN 14889-1:2006 5.9 EN 14889-1:2006 ZA.1
Durability	NPD ^{**)}	EN 14889-1:2006

Where pursuant to Article 37 or 38 the Specific Technical Documentation has been used, the requirements with which the product complies:

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René PEPIN

Head of Research Development
ArcelorMittal WireSolutions

(^{*)}DNA: does not apply / (^{**})NPD: no performance determined)

DECLARATION OF PERFORMANCE

N° BC1-251-2800-06-003

1. Unique identification code of the product-type:

Hooked-End steel fibre HE 75/60

2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4):

Each pallet has a unique pallet number for identification and full tracking of the product

3. Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer:

Steel fibres for structural use in concrete, mortar and grout

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5):

**ArcelorMittal Sheffield Ltd
Vulcan Works Birley Vale Close
GB-Sheffield S12 2DB**

5. Where applicable, name and contact address of the authorized representative whose mandate covers the tasks specified in Article 12(2):

DNA^{*)}

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:

System 1

7. In case of the declaration of performance concerning a construction product covered by a harmonized standard:

EN 14889-1:2006

The notified body BCCA (CPR NB 0749) has confirmed the validity of the initial type of testing and performed the initial inspection of the factory and the factory production control. NB 0749 performs as well the continuous surveillance, assessment and approval of the factory production control

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

DNA^{*)}

9. Declared performance

Essential characteristics	Performance	Harmonized technical specification
Tensile strength Modulus of elasticity	$R_m = 1200 \text{ MPa}$ NPD	EN 14889-1:2006 5.3 EN 14889-1:2006 5.4
Effect on workability of concrete	Consistency with 20 kg/m^3 Vebe time 10 s	EN 14889-1:2006 5.7
Effect on strength of concrete	Group 1 deformed / Hooked-End Length 60 mm Diameter 0.75 mm Average residual strength of 1.5 MPa @ $\text{CMOD} = 0.5 \text{ mm}$ and of 1.0 MPa @ $\text{CMOD} = 3.5 \text{ mm}$ achieved with 20 kg/m^3	EN 14889-1:2006 5.1 EN 14889-1:2006 5.2 EN 14889-1:2006 5.2 EN 14889-1:2006 5.8
Release of dangerous substances	no dangerous substances released	EN 14889-1:2006 5.9 EN 14889-1:2006 ZA.1
Durability	NPD ^{**})	EN 14889-1:2006

Where pursuant to Article 37 or 38 the Specific Technical Documentation has been used, the requirements with which the product complies:

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Signed for and on behalf of the manufacturer by:

Sheffield, July 1st 2013



René PEPIN

Head of Research Development
ArcelorMittal WireSolutions

(^{*)}DNA: does not apply / (^{**})NPD: no performance determined)

DECLARATION OF PERFORMANCE

N° BC1-251-2800-07-003

1. Unique identification code of the product-type:

Hooked-End steel fibre HE 1/50

2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4):

Each pallet has a unique pallet number for identification and full tracking of the product

3. Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer:

Steel fibres for structural use in concrete, mortar and grout

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5):

**ArcelorMittal Sheffield Ltd
Vulcan Works Birley Vale Close
GB-Sheffield S12 2DB**

5. Where applicable, name and contact address of the authorized representative whose mandate covers the tasks specified in Article 12(2):

DNA^{*)}

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:

System 1

7. In case of the declaration of performance concerning a construction product covered by a harmonized standard:

EN 14889-1:2006

The notified body BCCA (CPR NB 0749) has confirmed the validity of the initial type of testing and performed the initial inspection of the factory and the factory production control. NB 0749 performs as well the continuous surveillance, assessment and approval of the factory production control

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

DNA^{*)}

9. Declared performance

Essential characteristics	Performance	Harmonized technical specification
Tensile strength Modulus of elasticity	$R_m = 1150 \text{ MPa}$ NPD	EN 14889-1:2006 5.3 EN 14889-1:2006 5.4
Effect on workability of concrete	Consistency with 25 kg/m^3 Vebe time 4 s	EN 14889-1:2006 5.7
Effect on strength of concrete	Group 1 deformed / Hooked-End Length 50 mm Diameter 1.00 mm Average residual strength of 1.5 MPa @ $\text{CMOD} = 0.5 \text{ mm}$ and of 1.0 MPa @ $\text{CMOD} = 3.5 \text{ mm}$ achieved with 25 kg/m^3	EN 14889-1:2006 5.1 EN 14889-1:2006 5.2 EN 14889-1:2006 5.2 EN 14889-1:2006 5.8
Release of dangerous substances	no dangerous substances released	EN 14889-1:2006 5.9 EN 14889-1:2006 ZA.1
Durability	NPD ^{**})	EN 14889-1:2006

Where pursuant to Article 37 or 38 the Specific Technical Documentation has been used, the requirements with which the product complies:

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Sheffield, July 1st 2013



René PEPIN

Head of Research Development
ArcelorMittal WireSolutions

(^{*)}DNA: does not apply / (^{**})NPD: no performance determined)

DECLARATION OF PERFORMANCE

N° BC1-251-2800-08-003

1. Unique identification code of the product-type:

Hooked-End steel fibre HE+ 1/50

2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4):

Each pallet has a unique pallet number for identification and full tracking of the product

3. Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer:

Steel fibres for structural use in concrete, mortar and grout

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5):

**ArcelorMittal Sheffield Ltd
Vulcan Works Birley Vale Close
GB-Sheffield S12 2DB**

5. Where applicable, name and contact address of the authorized representative whose mandate covers the tasks specified in Article 12(2):

DNA^{*)}

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:

System 1

7. In case of the declaration of performance concerning a construction product covered by a harmonized standard:

EN 14889-1:2006

The notified body BCCA (CPR NB 0749) has confirmed the validity of the initial type of testing and performed the initial inspection of the factory and the factory production control. NB 0749 performs as well the continuous surveillance, assessment and approval of the factory production control

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

DNA^{*)}

9. Declared performance

Essential characteristics	Performance	Harmonized technical specification
Tensile strength Modulus of elasticity	$R_m = 1500 \text{ MPa}$ NPD	EN 14889-1:2006 5.3 EN 14889-1:2006 5.4
Effect on workability of concrete	Consistency with 25 kg/m^3 Vebe time 9 s	EN 14889-1:2006 5.7
Effect on strength of concrete	Group 1 deformed / Hooked-End Length 50 mm Diameter 1.00 mm Average residual strength of 1.5 MPa @ $\text{CMOD} = 0.5 \text{ mm}$ and of 1.0 MPa @ $\text{CMOD} = 3.5 \text{ mm}$ achieved with 25 kg/m^3	EN 14889-1:2006 5.1 EN 14889-1:2006 5.2 EN 14889-1:2006 5.2 EN 14889-1:2006 5.8
Release of dangerous substances	no dangerous substances released	EN 14889-1:2006 5.9 EN 14889-1:2006 ZA.1
Durability	NPD ^{**)}	EN 14889-1:2006

Where pursuant to Article 37 or 38 the Specific Technical Documentation has been used, the requirements with which the product complies:

DNA^{*)}

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This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

Sheffield, July 1st 2013



René PEPIN

Head of Research Development
ArcelorMittal WireSolutions

(^{*)}DNA: does not apply / (^{**})NPD: no performance determined)

DECLARATION OF PERFORMANCE

N° BC1-251-2800-10-003

1. Unique identification code of the product-type:

Hooked-End steel fibre HE+ 1/60

2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4):

Each pallet has a unique pallet number for identification and full tracking of the product

3. Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer:

Steel fibres for structural use in concrete, mortar and grout

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5):

**ArcelorMittal Sheffield Ltd
Vulcan Works Birley Vale Close
GB-Sheffield S12 2DB**

5. Where applicable, name and contact address of the authorized representative whose mandate covers the tasks specified in Article 12(2):

DNA^{*)}

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:

System 1

7. In case of the declaration of performance concerning a construction product covered by a harmonized standard:

EN 14889-1:2006

The notified body BCCA (CPR NB 0749) has confirmed the validity of the initial type of testing and performed the initial inspection of the factory and the factory production control. NB 0749 performs as well the continuous surveillance, assessment and approval of the factory production control

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

DNA^{*)}

9. Declared performance

Essential characteristics	Performance	Harmonized technical specification
Tensile strength Modulus of elasticity	$R_m = 1500 \text{ MPa}$ NPD	EN 14889-1:2006 5.3 EN 14889-1:2006 5.4
Effect on workability of concrete	Consistency with 25 kg/m^3 Vebe time 9 s	EN 14889-1:2006 5.7
Effect on strength of concrete	Group 1 deformed / Hooked-End Length 60 mm Diameter 1.00 mm Average residual strength of 1.5 MPa @ $\text{CMOD} = 0.5 \text{ mm}$ and of 1.0 MPa @ $\text{CMOD} = 3.5 \text{ mm}$ achieved with 25 kg/m^3	EN 14889-1:2006 5.1 EN 14889-1:2006 5.2 EN 14889-1:2006 5.2 EN 14889-1:2006 5.8
Release of dangerous substances	no dangerous substances released	EN 14889-1:2006 5.9 EN 14889-1:2006 ZA.1
Durability	NPD ^{**})	EN 14889-1:2006

Where pursuant to Article 37 or 38 the Specific Technical Documentation has been used, the requirements with which the product complies:

DNA^{*)}

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9.

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

Sheffield, July 1st 2013



René PEPIN

Head of Research Development
ArcelorMittal WireSolutions

DECLARATION OF PERFORMANCE

N° BC1-251-2800-11-003

1. Unique identification code of the product-type:

Undulated steel fibre TABIX 90/35

2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4):

Each pallet has a unique pallet number for identification and full tracking of the product

3. Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer:

Steel fibres for structural use in concrete, mortar and grout

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5):

**ArcelorMittal Sheffield Ltd
Vulcan Works Birley Vale Close
GB-Sheffield S12 2DB**

5. Where applicable, name and contact address of the authorized representative whose mandate covers the tasks specified in Article 12(2):

DNA^{*)}

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:

System 1

7. In case of the declaration of performance concerning a construction product covered by a harmonized standard:

EN 14889-1:2006

The notified body BCCA (CPR NB 0749) has confirmed the validity of the initial type of testing and performed the initial inspection of the factory and the factory production control. NB 0749 performs as well the continuous surveillance, assessment and approval of the factory production control

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

DNA^{*)}

9. Declared performance

Essential characteristics	Performance	Harmonized technical specification
Tensile strength Modulus of elasticity	$R_m = 1200 \text{ MPa}$ NPD	EN 14889-1:2006 5.3 EN 14889-1:2006 5.4
Effect on workability of concrete	Consistency with 25 kg/m^3 Vebe time 9 s	EN 14889-1:2006 5.7
Effect on strength of concrete	Group 1 deformed / Undulated Length 35 mm Diameter 0.90 mm Average residual strength of 1.5 MPa @ CMOD = 0.5 mm and of 1.0 MPa @ CMOD = 3.5 mm achieved with 25 kg/m^3	EN 14889-1:2006 5.1 EN 14889-1:2006 5.2 EN 14889-1:2006 5.2 EN 14889-1:2006 5.8
Release of dangerous substances	no dangerous substances released	EN 14889-1:2006 5.9 EN 14889-1:2006 ZA.1
Durability	NPD ^{**})	EN 14889-1:2006

Where pursuant to Article 37 or 38 the Specific Technical Documentation has been used, the requirements with which the product complies:

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Sheffield, July 1st 2013



René PEPIN

Head of Research Development
ArcelorMittal WireSolutions

(^{*)}DNA: does not apply / (^{**})NPD: no performance determined)

DECLARATION OF PERFORMANCE

N° BC1-251-2800-12-003

1. Unique identification code of the product-type:

Undulated steel fibre TABIX 1/50

2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4):

Each pallet has a unique pallet number for identification and full tracking of the product

3. Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer:

Steel fibres for structural use in concrete, mortar and grout

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5):

**ArcelorMittal Sheffield Ltd
Vulcan Works Birley Vale Close
GB-Sheffield S12 2DB**

5. Where applicable, name and contact address of the authorized representative whose mandate covers the tasks specified in Article 12(2):

DNA^{*)}

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System 1

7. In case of the declaration of performance concerning a construction product covered by a harmonized standard:

EN 14889-1:2006

The notified body BCCA (CPR NB 0749) has confirmed the validity of the initial type of testing and performed the initial inspection of the factory and the factory production control. NB 0749 performs as well the continuous surveillance, assessment and approval of the factory production control

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

DNA^{*)}

9. Declared performance

Essential characteristics	Performance	Harmonized technical specification
Tensile strength Modulus of elasticity	$R_m = 1150 \text{ MPa}$ NPD	EN 14889-1:2006 5.3 EN 14889-1:2006 5.4
Effect on workability of concrete	Consistency with 25 kg/m^3 Vebe time 9 s	EN 14889-1:2006 5.7
Effect on strength of concrete	Group 1 deformed / Undulated Length 50 mm Diameter 1.00 mm Average residual strength of 1.5 MPa @ $\text{CMOD} = 0.5 \text{ mm}$ and of 1.0 MPa @ $\text{CMOD} = 3.5 \text{ mm}$ achieved with 25 kg/m^3	EN 14889-1:2006 5.1 EN 14889-1:2006 5.2 EN 14889-1:2006 5.2 EN 14889-1:2006 5.8
Release of dangerous substances	no dangerous substances released	EN 14889-1:2006 5.9 EN 14889-1:2006 ZA.1
Durability	NPD ^{**)}	EN 14889-1:2006

Where pursuant to Article 37 or 38 the Specific Technical Documentation has been used, the requirements with which the product complies:

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Sheffield, July 1st 2013



René PEPIN

Head of Research Development
ArcelorMittal WireSolutions

(^{*)}DNA: does not apply / (^{**})NPD: no performance determined)

DECLARATION OF PERFORMANCE

N° BC1-251-2800-13-003

1. Unique identification code of the product-type:

Undulated steel fibre TABIX+ 1/60

2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4):

Each pallet has a unique pallet number for identification and full tracking of the product

3. Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer:

Steel fibres for structural use in concrete, mortar and grout

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5):

**ArcelorMittal Sheffield Ltd
Vulcan Works Birley Vale Close
GB-Sheffield S12 2DB**

5. Where applicable, name and contact address of the authorized representative whose mandate covers the tasks specified in Article 12(2):

DNA^{*)}

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:

System 1

7. In case of the declaration of performance concerning a construction product covered by a harmonized standard:

EN 14889-1:2006

The notified body BCCA (CPR NB 0749) has confirmed the validity of the initial type of testing and performed the initial inspection of the factory and the factory production control. NB 0749 performs as well the continuous surveillance, assessment and approval of the factory production control

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

DNA^{*)}

9. Declared performance

Essential characteristics	Performance	Harmonized technical specification
Tensile strength Modulus of elasticity	$R_m = 1500 \text{ MPa}$ NPD	EN 14889-1:2006 5.3 EN 14889-1:2006 5.4
Effect on workability of concrete	Consistency with 25 kg/m^3 Vebe time 10 s	EN 14889-1:2006 5.7
Effect on strength of concrete	Group 1 deformed / Undulated Length 60 mm Diameter 1.00 mm Average residual strength of 1.5 MPa @ $\text{CMOD} = 0.5 \text{ mm}$ and of 1.0 MPa @ $\text{CMOD} = 3.5 \text{ mm}$ achieved with 25 kg/m^3	EN 14889-1:2006 5.1 EN 14889-1:2006 5.2 EN 14889-1:2006 5.2 EN 14889-1:2006 5.8
Release of dangerous substances	no dangerous substances released	EN 14889-1:2006 5.9 EN 14889-1:2006 ZA.1
Durability	NPD ^{**})	EN 14889-1:2006

Where pursuant to Article 37 or 38 the Specific Technical Documentation has been used, the requirements with which the product complies:

DNA^{*)}

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9.

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

Sheffield, July 1st 2013



René PEPIN

Head of Research Development
ArcelorMittal WireSolutions

(^{*)}DNA: does not apply / (^{**})NPD: no performance determined)

DECLARATION OF PERFORMANCE

N° BC1-251-2800-14-003

1. Unique identification code of the product-type:

Undulated steel fibre TABIX 1.3/50

2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4):

Each pallet has a unique pallet number for identification and full tracking of the product

3. Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer:

Steel fibres for structural use in concrete, mortar and grout

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5):

**ArcelorMittal Sheffield Ltd
Vulcan Works Birley Vale Close
GB-Sheffield S12 2DB**

5. Where applicable, name and contact address of the authorized representative whose mandate covers the tasks specified in Article 12(2):

DNA^{*)}

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:

System 1

7. In case of the declaration of performance concerning a construction product covered by a harmonized standard:

EN 14889-1:2006

The notified body BCCA (CPR NB 0749) has confirmed the validity of the initial type of testing and performed the initial inspection of the factory and the factory production control. NB 0749 performs as well the continuous surveillance, assessment and approval of the factory production control

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

DNA^{*)}

9. Declared performance

Essential characteristics	Performance	Harmonized technical specification
Tensile strength Modulus of elasticity	$R_m = 900 \text{ MPa}$ NPD	EN 14889-1:2006 5.3 EN 14889-1:2006 5.4
Effect on workability of concrete	Consistency with 30 kg/m^3 Vebe time 9 s	EN 14889-1:2006 5.7
Effect on strength of concrete	Group 1 deformed / Undulated Length 50 mm Diameter 1.30 mm Average residual strength of 1.5 MPa @ CMOD = 0.5 mm and of 1.0 MPa @ CMOD = 3.5 mm achieved with 30 kg/m^3	EN 14889-1:2006 5.1 EN 14889-1:2006 5.2 EN 14889-1:2006 5.2 EN 14889-1:2006 5.8
Release of dangerous substances	no dangerous substances released	EN 14889-1:2006 5.9 EN 14889-1:2006 ZA.1
Durability	NPD ^{**})	EN 14889-1:2006

Where pursuant to Article 37 or 38 the Specific Technical Documentation has been used, the requirements with which the product complies:

DNA^{*)}

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9.

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

Sheffield, July 1st 2013



René PEPIN

Head of Research Development
ArcelorMittal WireSolutions

(^{*)}DNA: does not apply / (^{**})NPD: no performance determined)

DECLARATION OF PERFORMANCE

N° BC1-251-2800-16-003

1. Unique identification code of the product-type:

Flat-End steel fibre FE 65/35

2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4):

Each pallet has a unique pallet number for identification and full tracking of the product

3. Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer:

Steel fibres for structural use in concrete, mortar and grout

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5):

**ArcelorMittal Sheffield Ltd
Vulcan Works Birley Vale Close
GB-Sheffield S12 2DB**

5. Where applicable, name and contact address of the authorized representative whose mandate covers the tasks specified in Article 12(2):

DNA^{*)}

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:

System 1

7. In case of the declaration of performance concerning a construction product covered by a harmonized standard:

EN 14889-1:2006

The notified body BCCA (CPR NB 0749) has confirmed the validity of the initial type of testing and performed the initial inspection of the factory and the factory production control. NB 0749 performs as well the continuous surveillance, assessment and approval of the factory production control

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

DNA^{*)}

9. Declared performance

Essential characteristics	Performance	Harmonized technical specification
Tensile strength Modulus of elasticity	$R_m = 1150$ MPa NPD	EN 14889-1:2006 5.3 EN 14889-1:2006 5.4
Effect on workability of concrete	Consistency with 25 kg/m ³ Vebe time 7 s	EN 14889-1:2006 5.7
Effect on strength of concrete	Group 1 deformed / Flat-End Length 35 mm Diameter 0.65 mm Average residual strength of 1.5 MPa @ CMOD = 0.5 mm and of 1.0 MPa @ CMOD = 3.5 mm achieved with 25 kg/m ³	EN 14889-1:2006 5.1 EN 14889-1:2006 5.2 EN 14889-1:2006 5.2 EN 14889-1:2006 5.8
Release of dangerous substances	no dangerous substances released	EN 14889-1:2006 5.9 EN 14889-1:2006 ZA.1
Durability	NPD ^{**})	EN 14889-1:2006

Where pursuant to Article 37 or 38 the Specific Technical Documentation has been used, the requirements with which the product complies:

DNA^{*)}

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9.

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

Sheffield, July 1st 2013



René PEPIN

Head of Research Development
ArcelorMittal WireSolutions

DECLARATION OF PERFORMANCE

N° BC1-251-2800-17-003

1. Unique identification code of the product-type:

Hooked Flat-End steel fibre HFE 90/60

2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4):

Each pallet has a unique pallet number for identification and full tracking of the product

3. Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer:

Steel fibres for structural use in concrete, mortar and grout

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5):

**ArcelorMittal Sheffield Ltd
Vulcan Works Birley Vale Close
GB-Sheffield S12 2DB**

5. Where applicable, name and contact address of the authorized representative whose mandate covers the tasks specified in Article 12(2):

DNA^{*)}

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:

System 1

7. In case of the declaration of performance concerning a construction product covered by a harmonized standard:

EN 14889-1:2006

The notified body BCCA (CPR NB 0749) has confirmed the validity of the initial type of testing and performed the initial inspection of the factory and the factory production control. NB 0749 performs as well the continuous surveillance, assessment and approval of the factory production control

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

DNA^{*)}

9. Declared performance

Essential characteristics	Performance	Harmonized technical specification
Tensile strength Modulus of elasticity	$R_m = 1200 \text{ MPa}$ NPD	EN 14889-1:2006 5.3 EN 14889-1:2006 5.4
Effect on workability of concrete	Consistency with 25 kg/m^3 Vebe time 9 s	EN 14889-1:2006 5.7
Effect on strength of concrete	Group 1 deformed / Hooked Flat-End Length 60 mm Diameter 0.90 mm Average residual strength of 1.5 MPa @ $\text{CMOD} = 0.5 \text{ mm}$ and of 1.0 MPa @ $\text{CMOD} = 3.5 \text{ mm}$ achieved with 25 kg/m^3	EN 14889-1:2006 5.1 EN 14889-1:2006 5.2 EN 14889-1:2006 5.2 EN 14889-1:2006 5.8
Release of dangerous substances	no dangerous substances released	EN 14889-1:2006 5.9 EN 14889-1:2006 ZA.1
Durability	NPD ^{**)}	EN 14889-1:2006

Where pursuant to Article 37 or 38 the Specific Technical Documentation has been used, the requirements with which the product complies:

DNA^{*)}

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9.

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

Sheffield, July 1st 2013



René PEPIN

Head of Research Development
ArcelorMittal WireSolutions

DECLARATION OF PERFORMANCE

N° BC1-251-2800-18-003

1. Unique identification code of the product-type:

Hooked-End steel fibre HE++ 1/50

2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4):

Each pallet has a unique pallet number for identification and full tracking of the product

3. Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer:

Steel fibres for structural use in concrete, mortar and grout

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5):

**ArcelorMittal Sheffield Ltd
Vulcan Works Birley Vale Close
GB-Sheffield S12 2DB**

5. Where applicable, name and contact address of the authorized representative whose mandate covers the tasks specified in Article 12(2):

DNA^{*)}

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:

System 1

7. In case of the declaration of performance concerning a construction product covered by a harmonized standard:

EN 14889-1:2006

The notified body BCCA (CPR NB 0749) has confirmed the validity of the initial type of testing and performed the initial inspection of the factory and the factory production control. NB 0749 performs as well the continuous surveillance, assessment and approval of the factory production control

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

DNA^{*)}

9. Declared performance

Essential characteristics	Performance	Harmonized technical specification
Tensile strength Modulus of elasticity	$R_m = 1800 \text{ MPa}$ NPD	EN 14889-1:2006 5.3 EN 14889-1:2006 5.4
Effect on workability of concrete	Consistency with 25 kg/m^3 Vebe time 9 s	EN 14889-1:2006 5.7
Effect on strength of concrete	Group 1 deformed / Hooked-End Length 50 mm Diameter 1.00 mm Average residual strength of 1.5 MPa @ $\text{CMOD} = 0.5 \text{ mm}$ and of 1.0 MPa @ $\text{CMOD} = 3.5 \text{ mm}$ achieved with 25 kg/m^3	EN 14889-1:2006 5.1 EN 14889-1:2006 5.2 EN 14889-1:2006 5.2 EN 14889-1:2006 5.8
Release of dangerous substances	no dangerous substances released	EN 14889-1:2006 5.9 EN 14889-1:2006 ZA.1
Durability	NPD ^{**})	EN 14889-1:2006

Where pursuant to Article 37 or 38 the Specific Technical Documentation has been used, the requirements with which the product complies:

DNA^{*)}

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9.

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

Sheffield, July 1st 2013



René PEPIN

Head of Research Development
ArcelorMittal WireSolutions

(^{*)}DNA: does not apply / (^{**})NPD: no performance determined)

DECLARATION OF PERFORMANCE

N° BC1-251-2800-19-003

1. Unique identification code of the product-type:

Hooked-End steel fibre HE 1/60

2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4):

Each pallet has a unique pallet number for identification and full tracking of the product

3. Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer:

Steel fibres for structural use in concrete, mortar and grout

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5):

**ArcelorMittal Sheffield Ltd
Vulcan Works Birley Vale Close
GB-Sheffield S12 2DB**

5. Where applicable, name and contact address of the authorized representative whose mandate covers the tasks specified in Article 12(2):

DNA^{*)}

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:

System 1

7. In case of the declaration of performance concerning a construction product covered by a harmonized standard:

EN 14889-1:2006

The notified body BCCA (CPR NB 0749) has confirmed the validity of the initial type of testing and performed the initial inspection of the factory and the factory production control. NB 0749 performs as well the continuous surveillance, assessment and approval of the factory production control

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

DNA^{*)}

9. Declared performance

Essential characteristics	Performance	Harmonized technical specification
Tensile strength Modulus of elasticity	$R_m = 1150 \text{ MPa}$ NPD	EN 14889-1:2006 5.3 EN 14889-1:2006 5.4
Effect on workability of concrete	Consistency with 25 kg/m^3 Vebe time 9 s	EN 14889-1:2006 5.7
Effect on strength of concrete	Group 1 deformed / Hooked-End Length 60 mm Diameter 1.00 mm Average residual strength of 1.5 MPa @ $\text{CMOD} = 0.5 \text{ mm}$ and of 1.0 MPa @ $\text{CMOD} = 3.5 \text{ mm}$ achieved with 25 kg/m^3	EN 14889-1:2006 5.1 EN 14889-1:2006 5.2 EN 14889-1:2006 5.2 EN 14889-1:2006 5.8
Release of dangerous substances	no dangerous substances released	EN 14889-1:2006 5.9 EN 14889-1:2006 ZA.1
Durability	NPD ^{**})	EN 14889-1:2006

Where pursuant to Article 37 or 38 the Specific Technical Documentation has been used, the requirements with which the product complies:

DNA^{*)}

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9.

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

Sheffield, July 1st 2013



René PEPIN

Head of Research Development
ArcelorMittal WireSolutions

DECLARATION OF PERFORMANCE

N° BC1-251-2800-20-003

1. Unique identification code of the product-type:

Hooked-End steel fibre HE 90/60

2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4):

Each pallet has a unique pallet number for identification and full tracking of the product

3. Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer:

Steel fibres for structural use in concrete, mortar and grout

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5):

**ArcelorMittal Sheffield Ltd
Vulcan Works Birley Vale Close
GB-Sheffield S12 2DB**

5. Where applicable, name and contact address of the authorized representative whose mandate covers the tasks specified in Article 12(2):

DNA^{*)}

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:

System 1

7. In case of the declaration of performance concerning a construction product covered by a harmonized standard:

EN 14889-1:2006

The notified body BCCA (CPR NB 0749) has confirmed the validity of the initial type of testing and performed the initial inspection of the factory and the factory production control. NB 0749 performs as well the continuous surveillance, assessment and approval of the factory production control

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

DNA^{*)}

9. Declared performance

Essential characteristics	Performance	Harmonized technical specification
Tensile strength Modulus of elasticity	$R_m = 1200 \text{ MPa}$ NPD	EN 14889-1:2006 5.3 EN 14889-1:2006 5.4
Effect on workability of concrete	Consistency with 25 kg/m^3 Vebe time 9 s	EN 14889-1:2006 5.7
Effect on strength of concrete	Group 1 deformed / Hooked-End Length 60 mm Diameter 0.90 mm Average residual strength of 1.5 MPa @ CMOD = 0.5 mm and of 1.0 MPa @ CMOD = 3.5 mm achieved with 25 kg/m^3	EN 14889-1:2006 5.1 EN 14889-1:2006 5.2 EN 14889-1:2006 5.2 EN 14889-1:2006 5.8
Release of dangerous substances	no dangerous substances released	EN 14889-1:2006 5.9 EN 14889-1:2006 ZA.1
Durability	NPD ^{**})	EN 14889-1:2006

Where pursuant to Article 37 or 38 the Specific Technical Documentation has been used, the requirements with which the product complies:

DNA^{*)}

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9.

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

Sheffield, July 1st 2013



René PEPIN

Head of Research Development
ArcelorMittal WireSolutions

(^{*)}DNA: does not apply / (^{**})NPD: no performance determined)

DECLARATION OF PERFORMANCE

N° BC1-251-2800-21-003

1. Unique identification code of the product-type:

Flat-End steel fibre FE 60/36

2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4):

Each pallet has a unique pallet number for identification and full tracking of the product

3. Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer:

Steel fibres for structural use in concrete, mortar and grout

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5):

**ArcelorMittal Sheffield Ltd
Vulcan Works Birley Vale Close
GB-Sheffield S12 2DB**

5. Where applicable, name and contact address of the authorized representative whose mandate covers the tasks specified in Article 12(2):

DNA^{*)}

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:

System 1

7. In case of the declaration of performance concerning a construction product covered by a harmonized standard:

EN 14889-1:2006

The notified body BCCA (CPR NB 0749) has confirmed the validity of the initial type of testing and performed the initial inspection of the factory and the factory production control. NB 0749 performs as well the continuous surveillance, assessment and approval of the factory production control

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

DNA^{*)}

9. Declared performance

Essential characteristics	Performance	Harmonized technical specification
Tensile strength Modulus of elasticity	$R_m = 1150 \text{ MPa}$ NPD	EN 14889-1:2006 5.3 EN 14889-1:2006 5.4
Effect on workability of concrete	Consistency with 25 kg/m^3 Vebe time 7 s	EN 14889-1:2006 5.7
Effect on strength of concrete	Group 1 deformed / Flat-End Length 36 mm Diameter 0.60 mm Average residual strength of 1.5 MPa @ $\text{CMOD} = 0.5 \text{ mm}$ and of 1.0 MPa @ $\text{CMOD} = 3.5 \text{ mm}$ achieved with 25 kg/m^3	EN 14889-1:2006 5.1 EN 14889-1:2006 5.2 EN 14889-1:2006 5.2 EN 14889-1:2006 5.8
Release of dangerous substances	no dangerous substances released	EN 14889-1:2006 5.9 EN 14889-1:2006 ZA.1
Durability	NPD ^{**})	EN 14889-1:2006

Where pursuant to Article 37 or 38 the Specific Technical Documentation has been used, the requirements with which the product complies:

DNA^{*)}

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9.

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

Sheffield, July 1st 2013



René PEPIN

Head of Research Development
ArcelorMittal WireSolutions

(^{*)}DNA: does not apply / (^{**})NPD: no performance determined)

DECLARATION OF PERFORMANCE

N° BC1-251-2800-24-003

1. Unique identification code of the product-type:

Hooked-End steel fibre HE++ 90/60

2. Type, batch or serial number or any other element allowing identification of the construction product as required pursuant to Article 11(4):

Each pallet has a unique pallet number for identification and full tracking of the product

3. Intended use or uses of the construction product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer:

Steel fibres for structural use in concrete, mortar and grout

4. Name, registered trade name or registered trade mark and contact address of the manufacturer as required pursuant to Article 11(5):

**ArcelorMittal Sheffield Ltd
Vulcan Works Birley Vale Close
GB-Sheffield S12 2DB**

5. Where applicable, name and contact address of the authorized representative whose mandate covers the tasks specified in Article 12(2):

DNA^{*)}

6. System or systems of assessment and verification of constancy of performance of the construction product as set out in Annex V:

System 1

7. In case of the declaration of performance concerning a construction product covered by a harmonized standard:

EN 14889-1:2006

The notified body BCCA (CPR NB 0749) has confirmed the validity of the initial type of testing and performed the initial inspection of the factory and the factory production control. NB 0749 performs as well the continuous surveillance, assessment and approval of the factory production control

8. In case of the declaration of performance concerning a construction product for which a European Technical Assessment has been issued:

DNA^{*)}

9. Declared performance

Essential characteristics	Performance	Harmonized technical specification
Tensile strength Modulus of elasticity	$R_m = 1900 \text{ MPa}$ NPD	EN 14889-1:2006 5.3 EN 14889-1:2006 5.4
Effect on workability of concrete	Consistency with 25 kg/m^3 Vebe time 9 s	EN 14889-1:2006 5.7
Effect on strength of concrete	Group 1 deformed / Hooked-End Length 60 mm Diameter 0.90 mm Average residual strength of 1.5 MPa @ $\text{CMOD} = 0.5 \text{ mm}$ and of 1.0 MPa @ $\text{CMOD} = 3.5 \text{ mm}$ achieved with 25 kg/m^3	EN 14889-1:2006 5.1 EN 14889-1:2006 5.2 EN 14889-1:2006 5.2 EN 14889-1:2006 5.8
Release of dangerous substances	no dangerous substances released	EN 14889-1:2006 5.9 EN 14889-1:2006 ZA.1
Durability	NPD ^{**})	EN 14889-1:2006

Where pursuant to Article 37 or 38 the Specific Technical Documentation has been used, the requirements with which the product complies:

DNA^{*)}

10. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9.

This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

Sheffield, July 1st 2013



René PEPIN

Head of Research Development
ArcelorMittal WireSolutions

(^{*)}DNA: does not apply / (^{**})NPD: no performance determined)