



Type Approval Decision No. 10757-03



1 (2)

CERTIFICATE

The Type Approval Body **Inspecta Sertifiointi Oy** has issued a Type Approval Decision based on the Act on the Type Approval of Certain Construction Products (954/2012) to demonstrate that the product meets the requirements of the documents **Ympäristöministeriön asetus hitsattavien betoniterästen ja betoniteräsverkkojen olennaisista teknisistä vaatimuksista 125/2016** (Ministry of the Environment Decree on essential technical requirements of weldable reinforcing steel and mesh reinforcements) and **Ympäristöministeriön asetus hitsattavien betoniterästen ja betoniteräsverkkojen tyyppihyväksynnästä 126/2016** (Ministry of the Environment Decree on type approval of weldable reinforcing steel and mesh reinforcements). The Decision concerns the following product:

Reinforcing bars B500B, diameters 8, 10, 12, 14, 16, 20, 25, 28 and 32 mm
Reinforcing coils B500B, diameters 8, 10 and 12 mm

The characteristics of the product are as follows:

- Characteristic value of yield strength ≥ 500 MPa
- Characteristic value of ratio $R_m/R_{eH} \geq 1,08$
- Characteristic value of total elongation at maximum force $\geq 5,0$ %
- Fatigue resistance: meets the requirements F_a
- Mass per metre: meets the requirements
- Weldability and long-term durability: meets the requirements
- Bond properties and rib geometry: meets the requirements
- Bendability: meets the requirements

The product is designed to be used for the reinforcement of load-bearing concrete structures. The technical properties of the product have been type tested in the extent presented in standard **SFS 1300:2020**, and the factory's internal production quality control system meets the requirements of the standard.

The product also meets the following properties exceeding the minimum requirements:

- Tack weldability has been tested according to the standard SFS 1202

Manufacturer of the product:

PJSC "ArcelorMittal Kryvyi Rih"

Ordzhonikidze Street, of.1, Kryvyi Rih, 50095 Ukraine

Manufacturing place of the product: Ordzhonikidze Street, of.1, Kryvyi Rih, 50095 Ukraine

The type approval decision has been issued on 2021-04-26

(first issue 2019-02-05)

The decision is valid until 2026-04-26

Maija Vanttaja, Managing Director

Inspecta Sertifiointi Oy

P.O. Box 1000,

Sörnäistenkatu 2

FI-00581 Helsinki,

Finland

Tel. +358 10 521 600





Type Approval Decision
No. 10757-03



2 (2)

Identification of the product: The product or its identification tag must include the Type Approval Mark, product marking **B500B**, name of the manufacturer, manufacturing place as well as identification number of the Type Approval Decision. The product must have a rolled manufacturer's mark. The manufacturer's mark is 9/22.

The quality control certifier of the product is
Inspecta Sertifiointi Oy, Helsinki.

Date of the quality control agreement: 2019-01-31

The inspection visit and testing reports that the decision is based on:
SERJKII0138, Test report P 21-M-00047, Test report 4-4.4.-233-2021

The Type Approval Decision is based on the quality control inspections for production executed by approved quality control certifier, who is authorized by the Ministry of Environment and the type testing by the accredited testing laboratories. The Decision is in effect provided that the requirements included in the General Rules for Product Certification and the above-mentioned regulations and documents are continuously met. The quality control certifier mentioned in the Decision continuously monitors the internal production quality control carried out by the factory and performs selection and testing of random samples. Type Approval Decision is withdrawn if the construction product does not fulfill the requirements of Land Use and Building Act and the regulation of essential technical requirements, which are given on behalf of Land Use and Building Act. If the product is transferred to the scope of the CE marking, the Type Approval expires. The validity of the Decision can be checked at www.kiwa.com/fi

CERTIFICATE

Inspecta Sertifiointi Oy

P.O. Box 1000,

Sörnäistenkatu 2

FI-00581 Helsinki,

Finland

Tel. +358 10 521 600



The type approval body **Inspecta Sertifiointi Oy** has issued a type approval decision based on the Act on the Type Approval of Certain Construction Products (954/2012) to demonstrate that the product meets the requirements of the documents **Ympäristöministeriön asetus hitsattavien betoniterästen ja betoniteräsverkkojen olennaisista teknisistä vaatimuksista 125/2016** (Ministry of the Environment Decree on essential technical requirements of weldable reinforcing steel and mesh reinforcements) and **Ympäristöministeriön asetus hitsattavien betoniterästen ja betoniteräsverkkojen tyyppihyväksynnästä 126/2016** (Ministry of the Environment Decree on type approval of weldable reinforcing steel and mesh reinforcements). The decision concerns the following product:

Reinforcement bars B500C, diameters 10 - 25 mm

The characteristics of the product are as follows:

- Characteristic value of offset limit 500 MPa
- Characteristic value of breaking yield ratio 1,15 – 1,35
- Characteristic value of overall uniform elongation 7,5 %
- Fatigue resistance: meets the requirements F_a , F_b
 - Linear density: meets the requirements
- Weldability and long-term durability: meets the requirements
 - Adhesion: meets the requirements
 - Bendability: meets the requirements

The product is designed to be used for the reinforcement of load-bearing concrete structures. The technical properties of the product have been type tested in the extent presented in standard **SFS 1300:2017**, and the factory's internal production quality control system meets the requirements of the standard.

The product also meets the following properties exceeding the minimum requirements:

- tack weldability has been tested according to the standard SFS 1202
 - characteristic value of tensile strength $R_m \geq 600$ MPa
 - characteristic value of overall uniform elongation $A_{gt} \geq 8,0$ %
- bendability 10 mm: 1,6d, 12 mm: 1,7d, 14 mm: 1,8d, 16 mm: 2,0d, 20 mm: 2,5d, 25 mm: 3,2d
 - relative rib area f_R : 10mm $\geq 0,068$, 12 - 25 mm $\geq 0,073$

Manufacturer of the product:

NLMK-Kaluga LLC

20, st. Liskina, Borovskiy district, Kaluga region, 249020 Vorsino

Manufacturing place of the product: Vorsino, Russia

The type approval decision has been made on 2018-06-18.
The decision is in effect until 2023-06-18.



Mikko Törmänen, Managing Director

The type approval decision is based on the initial production inspection and the testing commissioned by the type approval body. The decision is in effect provided that the requirements included in the General Rules for Product Certification and the above-mentioned regulations and documents are continuously met. The quality control certifier mentioned in the annex continuously monitors the internal production quality control carried out by the factory and performs selection and testing of random samples. If the product is transferred to the scope of the CE marking, the type approval expires. The validity of the decision can be checked at www.inspecta.fi



Identification of the product: The product or its identification tag must include the type approval mark, product marking **B500C**, name of the manufacturer, manufacturing place as well as identification number of the type approval decision. The product must have a rolled manufacturer's mark. The manufacturer's mark is 9/47.

The quality control certifier of the product is **VTT Expert Services Oy**, Espoo.
Date of the quality control agreement: 04.07.2017.

The inspection visit and testing reports that the decision is based on:
VTT-S-00672-18, VTT-S-00710-18, VTT-S-02274-18



Type Approval Decision
No. 9924-02



1 (2)

The Type Approval Body **Inspecta Sertifiointi Oy** has issued a Type Approval Decision based on the Act on the Type Approval of Certain Construction Products (954/2012) to demonstrate that the product meets the requirements of the documents **Ympäristöministeriön asetus hitsattavien betoniterästen ja betoniteräsverkkojen olennaisista teknisistä vaatimuksista 125/2016** (Ministry of the Environment Decree on essential technical requirements of weldable reinforcing steel and mesh reinforcements) and **Ympäristöministeriön asetus hitsattavien betoniterästen ja betoniteräsverkkojen tyyppihyväksynnästä 126/2016** (Ministry of the Environment Decree on type approval of weldable reinforcing steel and mesh reinforcements). The Decision concerns the following product:

Reinforcing bars B500B, diameters 8 - 32 mm

The characteristics of the product are as follows:

- Characteristic value of yield strength ≥ 500 MPa
- Characteristic value of ratio $R_m/R_{eH} \geq 1,08$
- Characteristic value of total elongation at maximum force $\geq 5,0$ %
- Fatigue resistance: meets the requirements Fa
- Mass per metre: meets the requirements
- Weldability and long-term durability: meets the requirements
- Bond properties and rib geometry: meets the requirements
- Bendability: meets the requirements

The product is designed to be used for the reinforcement of load-bearing concrete structures. The technical properties of the product have been type tested in the extent presented in standard **SFS 1300:2020**, and the factory's internal production quality control system meets the requirements of the standard.

The product also meets the following properties exceeding the minimum requirements:

- Tack weldability has been tested according to the standard SFS 1202

Manufacturer of the product:

Megasa Siderúrgica S.L.
Carratera de Castilla, No 802-820
15570 Narón, Spain

Manufacturing place of the product: Narón, Spain

The type approval decision has been issued on 2021-08-12
(first issue 2017-05-30)

The decision is valid until 2026-08-12

Maija Vanttaja, Managing director

CERTIFICATE



Type Approval Decision
No. 9924-02



2 (2)

Identification of the product: The product or its identification tag must include the Type Approval Mark, product marking **B500B**, name of the manufacturer, manufacturing place as well as identification number of the Type Approval Decision. The product must have a rolled manufacturer's mark. The manufacturer's mark is 7/17.

The quality control certifier of the product is
Eurofins Expert Services Oy, Espoo.
Date of the quality control agreement: 2011-11-21

The inspection visit and testing reports that the decision is based on:
EUF129-20003723-I2, EUFI29-20006499-T1

The Type Approval Decision is based on the quality control inspections for production executed by approved quality control certifier, who is authorized by the Ministry of Environment and the type testing by the accredited testing laboratories. The Decision is in effect provided that the requirements included in the General Rules for Product Certification and the above-mentioned regulations and documents are continuously met. The quality control certifier mentioned in the Decision continuously monitors the internal production quality control carried out by the factory and performs selection and testing of random samples. Type Approval Decision is withdrawn if the construction product does not fulfill the requirements of Land Use and Building Act and the regulation of essential technical requirements, which are given on behalf of Land Use and Building Act. If the product is transferred to the scope of the CE marking, the Type Approval expires. The validity of the Decision can be checked at www.kiwa.com/fi

CERTIFICATE

Inspecta Sertifiointi Oy

P.O. Box 1000,

Sörnäistenkatu 2

FI-00581 Helsinki,

Finland

Tel.+358 10 521 600

