



Type Approval Decision

No. 10014-02



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 tyyppihväksynnästä 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-X, diameters 16 - 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 $\geq 5,0$ %
- Strength at high temperatures: meets the requirements -X
- 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
- Characteristic value of tensile strength $R_m \geq 550$ MPa
- Bendability 16-20 mm: 2,5d, 25-32 mm: 3,5d

Manufacturer of the product:

Alpa

B.P. 39 Z.I. de Limay-Porcheville, F-78440 Gargenville

Manufacturing place of the product: Gargenville, France

The type approval decision has been issued on 2021-03-11
(first issue 2017-07-17)

The decision is valid until 2026-03-11

Maija Vanttaja, Managing director

CERTIFICATE

Inspecta Sertifiointi Oy

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Identification of the product: The product or its identification tag must include the Type Approval Mark, product marking **B500B - X**, 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 3/1.

The quality control certifier of the product is
Eurofins Expert Services Oy, Espoo.
Date of the quality control agreement: 2010-03-26

The inspection visit and testing reports that the decision is based on:
EUF129-21000949-I1, EUFI29-20006503-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

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