



Type Approval Decision

Nro 14702-01



1 (2)

Certificate

The Type Approval Body **Kiwa 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 B500C/B500B, diameters 8 - 20 mm

The characteristics of the product are as follows:

- Characteristic value of yield strength ≥ 500 MPa
- Characteristic value of ratio $R_m/R_e \geq 1,15 - 1,35$
- Characteristic value of total elongation at maximum force $\geq 7,5$ %
- 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 production 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:

Al-Ezz Al-Dekheila Steel Company

Alexandria Matrouh Road, in front of Al-Dekheila, Alexandria, Egypt, P. O. :21537

Manufacturing place of the product: Alexandria, Egypt

The Type Approval Decision has been issued on 2025-08-22

The Decision is valid until 2030-08-21

Maija Vanttaja, Managing Director





Type Approval Decision

Nro 14702-01



2 (2)

Certificate

Identification of the product: The product or its durable label must include the Type Approval Mark, product **B500C/B500B**, name of the manufacturer, manufacturing place as well as number of the Type Approval Decision. The product must have a rolled manufacturer's mark. The manufacturer's mark is 9/91.

Top side (Sizes D8 - D10 mm) of manufacturer's mark of B500C/B500B SFS 1300 reinforcing bars



Top side (Sizes D12 - D20 mm) of manufacturer's mark of B500C/B500B SFS 1300 reinforcing bars



Bottom side (EZDK trademark "EZAL") of manufacturer's mark



The Quality Control Certifier of the product is

Kiwa Sertifiointi Oy, Helsinki.

Date of the Quality Control Agreement: 2024-11-03

The inspection and testing reports that the Decision is based on:

SERJKII0385, Test report 4-4.4.-286-2025, Test report 4-4.4.-458-2025,

Test report P 23-M-04-00136, Test report P 23-M-04-00196, Evaluation of Type test results 9.7.2025

The Type Approval Decision is based on the continuous surveillance of the factory production control executed by the 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 factory production control system carried out by the manufacturer 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

Tyyppihyväksyntälaitos **Kiwa Sertifiointi Oy** on myöntänyt säädöksen ”Laki eräiden rakennustuotteiden tuotehyväksynnästä 954/2012” perusteella tyyppihyväksyntäpäätöksen osoittamaan, että tuote täyttää vaatimusasiakirjojen ”**Ympäristöministeriön asetus hitsattavien betoniterästen ja betoniteräsverkkojen olennaisista teknisistä vaatimuksista 125/2016**” ja ”**Ympäristöministeriön asetus hitsattavien betoniterästen ja betoniteräsverkkojen tyyppihyväksynnästä 126/2016**” vaatimukset. Päätös koskee tuotetta:

Betoniterästangot B500C/B500B, halkaisijat 8 -20 mm

Tuotteen ominaisuudet ovat

- myötörajan ominaisarvo ≥ 500 MPa
- murtomyötösuhteen ominaisarvo $\geq 1,15 - 1,35$
- kokonaistasavennyksen ominaisarvo $\geq 7,5$ %
- väsymislujuus: täyttää vaatimuksen Fa
- pituusmassa: täyttää vaatimukset
- hitsattavuus ja pitkäaikaiskestävyys: täyttää vaatimukset
- tartunta: täyttää vaatimukset
- taivutettavuus: täyttää vaatimukset

Tuotteen suunniteltu käyttökohde on kantavien betonirakenteiden raudoitteet. Tuotteen tekniset ominaisuudet on tyypitettävä standardin **SFS 1300:2020** esittämässä laajuudessa ja tehtaan tuotannon sisäinen laadunvalvontajärjestelmä täyttää standardin vaatimukset

Tuote täyttää lisäksi seuraavat vähimmäisvaatimukset ylittävät ominaisuudet

- silloitushitsattavuus on testattu standardin SFS 1202 mukaisesti

Tuotteen valmistaja:

Al-Ezz Al-Dekheila Steel Company

Alexandria Matrouh Road, in front of Al-Dekheila, Alexandria, Egypt, P. O. :21537

Tuotteen valmistuspaikka: Alexandria, Egypti

Tyyppihyväksyntäpäätös on tehty 2025-08-22

Päätös on voimassa 2030-08-21 saakka.

Maija Vanttaja, toimitusjohtaja





Certificate

Tuotteen tunnistaminen: tuotteessa tai sen tunnuslapussa on käytettävä tyyppihyväksyntämerkkiä sekä tuotteen merkintää **B500C/B500B** sekä valmistajan nimeä, valmistuspaikkaa ja tyyppihyväksyntäpäätöksen tunnusnumeroa. Tuotteessa tulee olla valssattuna tehtaanmerkki. Tehtaanmerkki on 9/91.

Yläpuolen (Halkaisijat D8 - D10 mm) tehtaanmerkki B500C/B500B SFS 1300 betoniterästangoilla



Yläpuolen (Halkaisijat D12 – D20 mm) tehtaanmerkki B500C/B500B SFS 1300 betoniterästangoilla



Alapuolen (EZDK tuotemerkki "EZ\AL") tehtaanmerkki



Tuotteen laadunvalvonnan varmentajana toimii

Kiwa Sertifiointi Oy, Helsinki.

Laadunvalvontasopimuksen päiväys: 2024-11-03

Päätöksen perusteena olevat tarkastuskäynti- ja testausraportit:

SERJKII0385, Test report 4-4.4.-286-2025, Test report 4-4.4.-458-2025,

Test report P 23-M-04-00136, Test report P 23-M-04-00196,

Evaluation of Type test results 9.7.2025

Tyyppihyväksyntäpäätös perustuu Suomen ympäristöministeriön hyväksymän laadunvalvonnan varmentajan suorittamaan tuotannon laadunvalvonnan varmentamiseen ja akkreditoiduissa laboratorioissa tehtyihin tyypitesteihin. Päätös on voimassa edellyttäen, että Tuotesertifiointiin yleisiin ohjeisiin sekä yllä mainittuihin säädöksiin ja vaatimusasiakirjoihin sisältyvät vaatimukset täyttyvät jatkuvasti. Päätöksessä mainittu laadunvalvonnan varmentaja valvoo jatkuvasti tehtaan suorittamaa sisäistä tuotannon laadunvalvontaa ja suorittaa pistokoenäytteiden valintaa ja testausta. Tyyppihyväksyntä peruutetaan, jos rakennustuote ei täytä maankäyttö- ja rakennuslain tai sen nojalla annettujen säännösten olennaisia teknisiä vaatimuksia. Jos tuote siirtyy CE- merkinnän soveltamisalaan, tyyppihyväksynnän voimassaolo päättyy. Päätöksen voimassaolon voi tarkistaa osoitteessa www.kiwa.com/fi.





Certificate
No. 14704-01

kiwa

Certificate

Kiwa Sertifiointi Oy has granted a product certificate to

Al-Ezz Al-Dekheila Steel Company

Alexandria Matrouh Road, in front of Al-Dekheila Port,
Alexandria, Egypt, P. O. :21537

to certify that Kiwa Sertifiointi Oy has verified that the following products of the company and their manufacturing quality assurance fulfil the requirements set in the requirement documents **NS-EN 10080:2005, NS 3576-1:2024:**

Steel bars for concrete reinforcement

Ribbed reinforcing bars B500NC, diameters 8 - 20 mm

Manufacturer's mark 9/91

Rolled marks of factory are presented in Annex 1

Place of manufacture:

Alexandria Matrouh Road, in front of Al-Dekheila, Alexandria Egypt, P. O. :21537

The company is entitled to use the certification mark on products fulfilling the requirements. The certificate holder is responsible for ensuring that the products comply with the requirements.

The certificate is issued on 2025-08-22

Maija Vanttaja, Managing Director

The certificate is based on initial inspection and type testing. The certificate shall remain valid until further notice provided the requirements set in the General Rules for Product Certification and the above-mentioned product group specific requirement documents are continuously met. The validity of the certificate can be verified on the Internet at www.kiwa.com/fi.



Al-Ezz Al-Dekheila Steel Company

Rolled marks of factory:

Top side (Sizes D8 - D10 mm) of manufacturer's mark of B500NC NS 3576-1:2024 reinforcing bars



Top side (Sizes D12 – D20 mm) of manufacturer's mark of B500NC NS 3576-1:2024 reinforcing bars



Bottom side (EZDK trademark "EZ\AL") of manufacturer's mark





Certificate
No. 14703-01



Certificate

Kiwa Sertifiointi Oy has granted a product certificate to

Al-Ezz Al-Dekheila Steel Company

Alexandria Matrouh Road, in front of Al-Dekheila Port,
Alexandria, Egypt, P. O. :21537

to certify that Kiwa Sertifiointi Oy has verified that the following products of the company and their manufacturing quality assurance fulfil the requirements set in the requirement documents **SS-EN 10080:2005, SS 212540:2014:**

Steel bars for concrete reinforcement

Ribbed reinforcing bars K500B-T, diameters 8 - 20 mm

Ribbed reinforcing bars K500C-T, diameters 8 - 20 mm

Manufacturer's mark 9/91

Rolled marks of factory are presented in Annex 1

Place of manufacture:

Alexandria Matrouh Road, in front of Al-Dekheila, Alexandria Egypt, P. O. :21537

The company is entitled to use the certification mark on products fulfilling the requirements. The certificate holder is responsible for ensuring that the products comply with the requirements.

The certificate is issued on 2025-08-22

Maija Vanttaja, Managing Director

The certificate is based on initial inspection and type testing. The certificate shall remain valid until further notice provided the requirements set in the General Rules for Product Certification and the above-mentioned product group specific requirement documents are continuously met. The validity of the certificate can be verified on the Internet at www.kiwa.com/fi.



Al-Ezz Al-Dekheila Steel Company

Rolled marks of factory:

Top side (Sizes D8 - D10 mm) of manufacturer's mark of K500C-T/K500B-T SS 212540:2014 reinforcing bars



Top side (Sizes D12 – D20 mm) of manufacturer's mark of K500C-T/K500B-T SS 212540:2014 reinforcing bars



Bottom side (EZDK trademark "EZ\AL") of manufacturer's mark





Certificate
No. 14705-01

kiwa

Certificate

Kiwa Sertifiointi Oy has granted a product certificate to

Al-Ezz Al-Dekheila Steel Company

Alexandria Matrouh Road, in front of Al-Dekheila Port,
Alexandria, Egypt, P. O. :21537

to certify that Kiwa Sertifiointi Oy has verified that the following products of the company and their manufacturing quality assurance fulfil the requirements set in the requirement documents **DS-EN 10080:2005, DS-EN 1992-1-1 Annex C:**

Steel bars for concrete reinforcement

Ribbed reinforcing bars B500B, diameters 8 - 20 mm

Manufacturer's mark 9/91

Rolled marks of factory are presented in Annex 1

Place of manufacture:

Alexandria Matrouh Road, in front of Al-Dekheila, Alexandria Egypt, P. O. :21537

The company is entitled to use the certification mark on products fulfilling the requirements. The certificate holder is responsible for ensuring that the products comply with the requirements.

The certificate is issued on 2025-08-22

Maija Vanttaja, Managing Director

The certificate is based on initial inspection and type testing. The certificate shall remain valid until further notice provided the requirements set in the General Rules for Product Certification and the above-mentioned product group specific requirement documents are continuously met. The validity of the certificate can be verified on the Internet at www.kiwa.com/fi.



Al-Ezz Al-Dekheila Steel Company

Rolled marks of factory:

Top side (Sizes D8 - D10 mm) of manufacturer's mark of B500B DS-EN 1992-1-1 Annex C reinforcing bars



Top side (Sizes D12 - D20 mm) of manufacturer's mark of B500B DS-EN 1992-1-1 Annex C reinforcing bars



Bottom side (EZDK trademark "EZ\AL") of manufacturer's mark

