

Product Certificate for Reinforcing Steel Products

No.: DK-FC-023-10080-004 version 2

Issued by FORCE Certification A/S in accordance with ABC-Reinforcing steel
General terms for certification of reinforcing steel products 16th edition – June 2018

Issued to:	Besta Eisen- und Stahlhandelsgesellschaft mbH Zur Rauhen Horst 7 32312 Lübbecke Germany
for the following product:	Reinforcing steel in bars
Production address:	Same as above
Certified product:	Reinforcing steel in bars straightened from coils, designated B500A
Coil certificate:	DK-FC-030-10080-001 and DK-Fc-10080-003 issued to Badische Stahlwerke GmbH by FORCE Certification A/S
Manufacturing process:	Straightening by spinning
Product specifications:	Characteristic strength, $R_{eH} = 500 \text{ N/mm}^2$ (MPa) Characteristic ductility, $R_m / R_{eH} = 1.08$ and $A_{gt} = 5\%$ Class: B, according to Euro code 2 Characteristic bonding $f_R = 0,035$ for $5 \text{ mm} \leq d \leq 6 \text{ mm}$ $f_R = 0,040$ for $7 \text{ mm} \leq d \leq 12 \text{ mm}$ Diameters, $D = 5 \text{ mm}$ through 12 mm
Standard specifications:	Weight per meter, bend ability, weld ability and fatigue are all fulfilled according to DS/EN 10080:2006 and DS/EN 1992-1-1+AC, Annex C 2008 (Euro Code 2)
Rib geometry:	As shown overleaf
Rolled-in marking:	1 (Germany) and 35 (BESTA) as shown overleaf
Initial Inspection:	FORCE-Dantest CERT file No. m1472-161985
Type testing:	FORCE Technology file Nos. m1471-162607/m1471-188481/m1471- 202283/m1471-214010 and FORCE Certification historical data stored under file No. 80.971-645/09
Previous certificate:	DK-FC-023-10080-004 version 1, dated 2014-12-03

The examined reinforcing steel product fulfils the requirements in Danish Standard DS/EN 10080, 2nd Edition 2006-01-13, as well as Eurocode 2, DS/EN 1992-1-1+AC:2008 including DS/EN 1992-1-1 DK NA:2017.

The product certificate is valid for 5 years from the date of issue provided that periodical inspections are carried out during this period. If the product is altered or modified or the certification agreement terminates this certificate is no longer valid. The manufacturer shall inform FORCE Certification A/S about any planned modification.

Date of issue: 2019-04-11
Date of expiry: 2024-04-11
FC task No.: 119-23720
FC ID No.: DK-0200-06289

Signature:



Kasper Munk Eliassen
Certification Manager

The basis for issuing of certificate DK-FC-023-10080-004 version 2

Danish Standard	DS/EN 10080, 2 nd Edition 2006-01-13
FORCE Certification document	Publication ABC-Reinforcing steel 16 th Edition of June 2018
FORCE Certification document	Check list, Edition 1
Initial Inspection Report	FORCE-Dantest CERT file No. m1472-161985
Type Testing Report(s)	FORCE Technology file Nos. m1471-162607/m1471-188481/m1471-202283/m1471-214010 and FORCE Certification historical data stored under file No. 80.971-645/09
Continuous surveillance	Annual audit reports
QA responsible to FORCE Certification	Marc Busche
Note version 2	Renewal and editorial corrections

Rib configurations and rolled-in markings by missing ribs



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