

Product Certificate for Reinforcing Steel Products

No.: DK-FC-023-10080-007 version 3

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

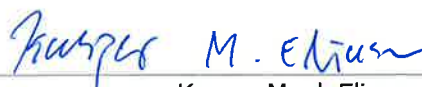
Issued to:	Besta Eisen- und Stahlhandelsgesellschaft mbH Zur Rauhen Horst 7 32312 Lübbecke Germany
for the following product:	Reinforcing steel in fabric
Production address:	Same as above
Certified product:	Reinforcing steel in machine welded fabric, designated B550B
Coil certificate:	DK-FC-030-10080-001 and DK-FC-030-10080-003 issued to Badische Stahlwerke GmbH by FORCE Certification A/S
Manufacturing process:	Hot rolled, ribbed – cold stretched – coiled- de-coiled – machine resistance spot welded
Product specifications:	Characteristic strength, $R_{eH} = 550 \text{ N/mm}^2$ (MPa) Characteristic ductility, $R_m / R_{eH} = 1.08$ and $A_{gt} = 5\%$ Class: B, according to Euro code 2 Characteristic bonding $f_R = 0,040$ for $8 \text{ mm} \leq d \leq 12 \text{ mm}$ Diameters, $D = 8 \text{ mm}$ through 12 mm
Standard specifications:	Weight per meter, shear force of weld, 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 21 (BSW) as shown overleaf
Initial Inspection:	FORCE-Dantest CERT file No. m1472-161985
Type testing:	FORCE Technology file No. 110-21969
Previous certificate:	DK-FC-023-10080-007 version 2, dated 2018-08-28

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 If the product is altered or modified or the certification agreement terminates this certificate is no longer valid.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-0200-06291

Signature:

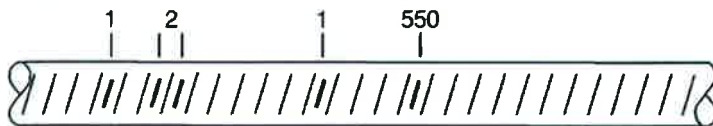


Kasper Munk Eliassen
Certification Manager

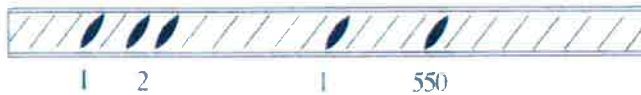
The basis for issuing of certificate DK-FC-023-10080-007 version 3

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 No. 110-21969
Continuous surveillance	Annual audit reports
QA responsible to FORCE Certification	Marc Busche
Note version 3	Renewal and editorial corrections

Rolled in code:



Or



Rolled in code:

