

Product Certificate for Reinforcing Steel Products
No.: DK-FC-030-10080-002 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:	Badische Stahlwerke GmbH Graudenzer Straße 45 D-77694 Kehl/Rhein Germany
For the following product:	Reinforcing steel in coils
Production address:	Badische Stahlwerke GmbH Zur Rauhen Horst 7 D-32312 Lübbecke Germany
Manufacturing process:	Non-alloyed hot rolled, ribbed, cold stretched and coiled
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 $d = 6 \text{ mm}$ $f_R = 0,040$ for $8 \text{ mm} \leq d \leq 12 \text{ mm}$ $f_R = 0,056$ for $d > 12 \text{ mm}$ Diameter $d = 6 \text{ mm}, 8 \text{ mm}, 10 \text{ mm}, 12 \text{ mm}, 14 \text{ mm},$ and 16 mm
Standard specifications:	Weight per meter, bend ability, weld ability, and fatigue are all fulfilled
Straightening:	Suitable for roller and spinner straightening
Rib geometry:	As shown overleaf
Rolled-in marking:	1 (Germany) and 21 (BSW) as shown overleaf
Initial Inspection:	FORCE Certification A/S file No. m1472-210140 and 80.971-606/09
Type testing:	FORCE Technology file No. 114-25321 and historical data
Previous certificate:	DK-FC-030-10080-002 version 2, dated 2014-08-11

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 If the product is altered or modified or the certification agreement terminates this certificate is no longer valid.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: 2019-08-12
Date of expiry: 2024-08-12
FC task No.: 119-30333
FC ID No.: DK-0200-07234

Signature:



Kasper Munk Eliassen
Certification Manager

The basis for issuing of certificate DK-FC-030-10080-002 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 Technology file no. m1472-210140 and FORCE Certification file no. 80.971-606/09
Type Testing Report(s)	FORCE Technology file no. 107-22027.a, 107-22027.b, 107-22027.c, 108-31983, 109-26570, 114-25321 and historical data
Continuous surveillance	Annual audit reports
QA responsible to FORCE Certification	Jürgen Schultz
Note version 3	Renewal due to expiry

Rib geometry:



Rolled in code:

