

## Product Certificate for Reinforcing Steel Products

# No.: DK-FC-030-10080-004 version 4

Issued by FORCE Certification A/S in accordance with ABC-Reinforcing steel  
General terms for certification of reinforcing steel products 17th edition – October 2019

<b>Issued to:</b>	<b>Badische Stahlwerke GmbH Graudenzer Straße 45 D-77694 Kehl/Rhein Germany</b>
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 $d = 6 \text{ mm}, 8 \text{ mm}, 10 \text{ mm}, 12 \text{ mm}, 14 \text{ mm}, 16 \text{ mm},$ and $20 \text{ mm}$
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. 113-31978.b
Type testing:	FORCE Technology file No. 114-21132.b/121-28553
Previous certificate:	DK-FC-030-10080-004 version 3, dated 2019-03-25

The examined reinforcing steel product fulfils the requirements in Danish Standard DS/EN 10080, 2<sup>nd</sup> Edition 2006-01-13, as well as Eurocode 2, DS/EN 1992-1-1+AC:2008 including DS/EN 1992-1-1 DK NA:2021.

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 If the product is altered or modified or the certification agreement terminates this certificate is no longer valid.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: 2021-09-16  
Date of expiry: 2026-09-16  
FC task No.: 121-31248  
FC ID No.: DK-0200-06191-4

Signature:



Kasper Munk Eliassen  
Certification Manager

**The basis for issuing of certificate DK-FC-030-10080-004 version 4**

<b>Danish Standard</b>	DS/EN 10080, 2 <sup>nd</sup> Edition 2006-01-13
<b>FORCE Certification document</b>	Publication ABC-Reinforcing steel 17 <sup>th</sup> Edition of October 2019
<b>FORCE Certification document</b>	Tjekliste for EN 10080 audit, version 1.5
<b>Initial Inspection Report</b>	FORCE Certification A/S file No. 113-31978.b
<b>Type Testing Report(s)</b>	FORCE Technology file No. 114-21132.b FORCE Technology file No. 121-28553
<b>Continuous surveillance</b>	Annual audit reports
<b>QA responsible to FORCE Certification</b>	Jürgen Schultz
<b>Note version 4</b>	Expansion, addition of diameter 20 mm

**Rolled in code:**

