

## Product Certificate for Reinforcing Steel Products

# No.: DK-FC-030-10080-004 version 5

Issued by FORCE Certification A/S in accordance with ABC-Reinforcement steel  
General terms for certification of reinforcement steel products 18th edition – January 2025

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Issued to:</b>          | <b>Badische Stahlwerke GmbH</b><br><b>Graudenzer Straße 45</b><br><b>D-77694 Kehl/Rhein</b><br><b>Germany</b>                                                                                                                                                                                                                                                                                                                                              |
| For the following product: | Reinforcing steel in coils                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Production address:        | Badische Stahlwerke GmbH<br>Zur Rauhen Horst 7<br>D-32312 Lübbecke<br>Germany                                                                                                                                                                                                                                                                                                                                                                              |
| Manufacturing process:     | Non-alloyed hot rolled, ribbed, cold stretched and coiled                                                                                                                                                                                                                                                                                                                                                                                                  |
| Product specifications:    | Characteristic strength, $R_{eH} = 500$ MPa<br>Characteristic ductility, $R_m / R_{eH} = 1,08$ and $A_{gt} = 5\%$<br>Class: B, according to Euro code 2<br>Characteristic bonding $f_R = 0,035$ for $d = 6$ mm<br>$f_R = 0,040$ for $8 \text{ mm} \leq d \leq 12 \text{ mm}$<br>$f_R = 0,056$ for $d > 12 \text{ mm}$<br>Diameter $d = 6 \text{ mm}, 8 \text{ mm}, 10 \text{ mm}, 12 \text{ mm}, 14 \text{ mm}, 16 \text{ mm}, \text{ and } 20 \text{ mm}$ |
| Standard specifications:   | Weight per meter, bendability, weldability and fatigue                                                                                                                                                                                                                                                                                                                                                                                                     |
| Straightening:             | Roller                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 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 4, dated 2019-09-16                                                                                                                                                                                                                                                                                                                                                                                                            |

The examined reinforcing steel product fulfils the requirements of DS/EN 10080, 2nd Edition 2006-01-13, and DS/EN 1992-1-1+AC:2008, Annex C, together with DS/EN 1992-1-1 DK NA:2024.

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: 2026-09-16  
Date of expiry: 2031-09-16  
FC task No.: 126-20739  
FC ID No.: 23009

**FORCE**  
Certification



Rian Holdstock

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### The basis for issuing of certificate DK-FC-030-10080-004 version 5

|                                              |                                                                                    |
|----------------------------------------------|------------------------------------------------------------------------------------|
| <b>Danish Standard</b>                       | DS/EN 10080, 2 <sup>nd</sup> Edition 2006-01-13                                    |
| <b>FORCE Certification document</b>          | Publication<br>ABC-Reinforcement steel<br>18 <sup>th</sup> Edition of January 2025 |
| <b>FORCE Certification document</b>          | Checklist                                                                          |
| <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<br>FORCE Technology file No. 121-28553       |
| <b>Continuous surveillance</b>               | Audit reports                                                                      |
| <b>QA responsible to FORCE Certification</b> | Dirk Wagels                                                                        |
| <b>Note version 5</b>                        | Renewal due to expiry of version 4                                                 |

### Rib configurations and rolled-in markings

