



Description of the product

Weldable, sustainable reinforcing steel featuring improved bonding and high ductility, hot rolled with in-line heat treatment “Tempcore”.

Range of dimensions

- Diameter: 8 – 16 mm

Packaging

Spoiled coils fastened in 4 points

Weight of each spoiled coil:

- ~ 3000 kg

Coil size:

- \varnothing int. 700 mm
- \varnothing ext. 1100 ÷ 1200 mm
- Height 700 mm

Labelling

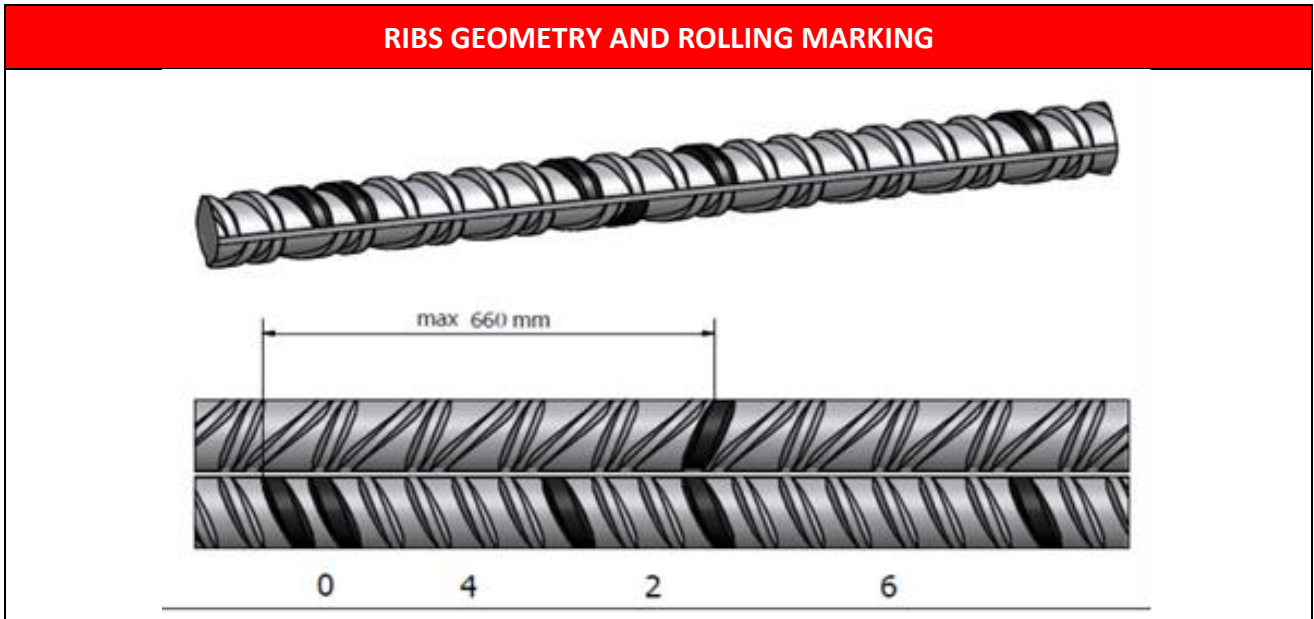
Each spoiled coil is identified with a metal or paper plastic label containing the following information:

- Company logo
- Heat number
- Diameter
- Weight
- Steel grade
- Production date
- Standards references
- Certification logos
- QR Code

Certifications

Each delivery is accompanied by the certificate 3.1 (standard UNI EN 10204)

RIBS GEOMETRY AND ROLLING MARKING



CONFORMITY TO STANDARDS

Country (trade name)	Standard	Grade	Certifications
ITALY (ALFA B450C)	D.M. 17/01/2018	B 450 C	✓
FRANCE (ALFA 500S)	NFA 35080/1	B 500 B	✓
GERMANY (ALFA 500KS)	DIN 488	B 500 B	✓
ROMANIA (ALFA 500KS)	ST 009	B 500 C	✓
CZECH REP. (ALFA 500KS)	DIN 488	B 500 B	✓
HUNGARY (ALFA 500KS)	DIN 488	B 500 B / B 500 C	✓
SLOVAKIA (ALFA 500KS)	DIN 488	B 500 B	✓
SWITZERLAND (ALFA 500KS)	SIA 262	B 500 C	✓
SLOVENIA (ALFA 500KS)	SIST EN 10080	B 500 B	✓
CROATIA (ALFA 500KS)	HRN 1130-2	B 500 B	✓
SERBIA (ALFA 500KS)	SRPS EN 10080	B 500 B	✓
POLAND (ALFA 500KS)	IBDiM-KOT-2022/0813	B 500 C	✓
GREECE (ALFA 500KS)	ELOT 1421-3	B 500 C	
SPAIN (ALFA 500KS)	UNE 36068	B 500 S	
UNITED KINGDOM (ALFA 500KS)	BS 4449	B 500 B	
PORTUGAL (ALFA 500KS)	LNEC E450	A 500 NR	
USA (ALFA 500KS)	ASTM A615 / A705	GRADO 60 / 40	

CHEMICAL COMPOSITION

C % max	P % max	S % max	Cu % max	N % max	Ceq. Max
0.22	0.050	0.050	0.80	0.012	0.50
(0.24)	(0.055)	(0.055)	(0.85)	(0.014)	(0.52)

The figures in brackets refer to product analysis



MECHANICAL PROPERTIES							
Standard	Grade	Re N/mm ²	Rm N/mm ²	Rm/Re	Agt %	A5 %	A10 %
D.M. 17/01/2018	B450 C	≥ 450	≥ 540	≥ 1.15 ≤ 1.35	≥ 7.5		
NFA 35080/1	B 500 B	≥ 500		≥ 1.08	≥ 5		
SIA 262	B 500 C	≥ 500		≥ 1.15 ≤ 1.35	≥ 7.5		
DIN 488	B 500 B	≥ 500		≥ 1.08	≥ 5		
ST 009	B 500 C	≥ 500		≥ 1.15 ≤ 1.35	≥ 7.5		≥ 16
ELOT 1421-3	B 500 C	≥ 500		≥ 1.15 ≤ 1.35	≥ 7.5		
HRN 1130-2	B 500 B	≥ 500		≥ 1.08	≥ 5		
EN 10080	B 500 B	≥ 500		≥ 1.08	≥ 5		
IBDiM-KOT-2022/0813	B 500 C	≥ 500		≥ 1.15 ≤ 1.35	≥ 8		
UNE 36068	B 500 S	≥ 500		≥ 1.08	≥ 5		
BS 4449	B 500 B	≥ 500		≥ 1.08	≥ 5		
LNEC E450	A 500 NR	≥ 500		≥ 1.08	≥ 5		
ASTM A615	GR. 60	≥ 420	≥ 620	≥ 1.10			≥ 9

GEOMETRICAL CHARACTERISTICS				
∅ mm	8	10	12	≥ 14
Relative rib area fR	≥ 0.040	≥ 0.040	≥ 0.040	≥ 0.056
Relative rib area fR DIN 488	≥ 0.045	≥ 0.052	≥ 0.056	≥ 0.056