

TECHNICAL SPECIFICATION REBARS



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 – 32 mm**
- Length: **6 – 15 m**

Packaging

- 5 fastenings for bundle length < 9 m:
 - 7 fastenings for bundle length 9 to 13 m
 - 9 fastenings for bundle length >14 m
- Double-strap fastening with 7 mm diameter wire

Bundle weight:

- **6 m ~ 1200 kg**
- **12 m ~ 2400 kg**

Labelling

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

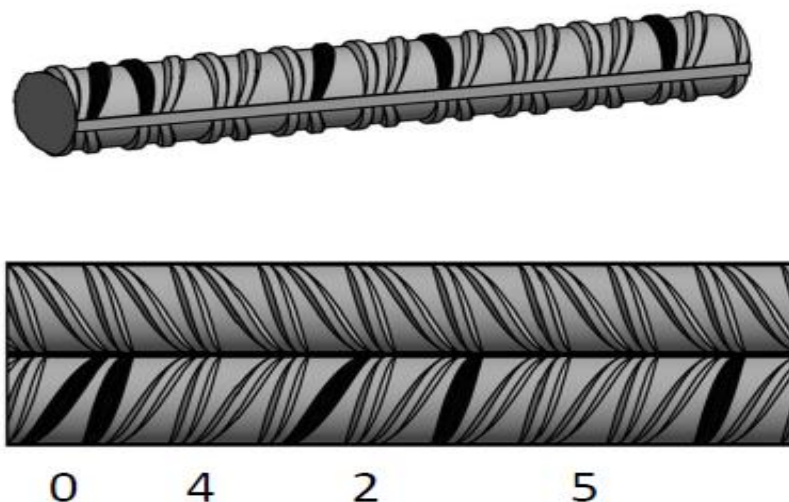
- Company logo
- Heat number
- Diameter
- Length
- Weight
- Steel grade
- Production date
- Standards references
- Certification logos
- QR Code

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Certifications

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

RIBS GEOMETRY AND ROLLING MARKING



CONFORMITY TO STANDARDS

Country	Standard	Grade	Certifications
ITALY	D.M. 17/01/2018	B 450 C	✓
BULGARIA	BDS 9252	B500C	✓
FRANCE	NFA 35016-1 NFA 35080-1	Fe 500-3 - B 500 B B 500 B	
ROMANIA	ST009	B 500 C	✓
GERMANY	DIN 488	B 500 B	✓
GREECE	ELOT 1421-3	B 500 C	✓
UNITED KINGDOM	BS 4449	B 500 C	
USA	ASTM A615 ASTM A706	GRADE 40-60	
CANADA	G30.18-09CSA	400W-500W	
ISRAEL	SI 4466-3	S 500W (C)	

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

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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		
BDS 9252	B 500 C	≥ 500	≥ 575	≥ 1.15 - ≤ 1.35	≥ 7.5		
NFA 35016-1	Fe 500-3 - B 500 B	≥ 500	≥ 540	≥ 1.08	≥ 5		
NFA 35080-1	B 500 B	≥ 500	≥ 540	≥ 1.08 - ≤ 1.30	≥ 5		
ST 009	B 500 C	≥ 500	≥ 575	≥ 1.15 - ≤ 1.35	≥ 7.5	≥ 16	
DIN 488	B 500 B	≥ 500		≥ 1.08	≥ 5		
ELOT 1421-3	B 500 C	≥ 500	≥ 575	≥ 1.15 - ≤ 1.35	≥ 7.5		
BS 4449	B 500 C	≥ 500	≥ 540	≥ 1.15 - ≤ 1.35	≥ 7.5		
ASTM A615	GR. 40	≥ 280	≥ 420		≥ 11		
ASTM A615	GR. 60	≥ 420	≥ 620		≥ 7		
ASTM A706	GR. 60	≥ 420	≥ 550	≥ 1.25	≥ 12		
G30.18	400W	≥ 400	≥ 540		≥ 12		
G30.18	500W	≥ 500	≥ 625		≥ 10		
SI 4466-3	S 500 W (C)	≥ 500		≥ 1.15 - ≤ 1.35	≥ 7.5		≥ 10

GEOMETRICAL CHARACTERISTICS				
Ø 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