

TECHNICAL SPECIFICATION: REBARS ALFA 500S



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 – 18 m**

Packaging

- 5 fastenings for bundle length < 9 m:
- 7 fastenings for bundle length 9 to 14 m
- 9 fastenings for bundle length 15 m
- 11 fastenings for bundle length 16 to 18 m

Double-strap fastening with 7 mm diameter wire

Bundle weight:

- **6 m ~ 1400 kg**
- **12 m ~ 2300 kg**

Labelling

Each bundle 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

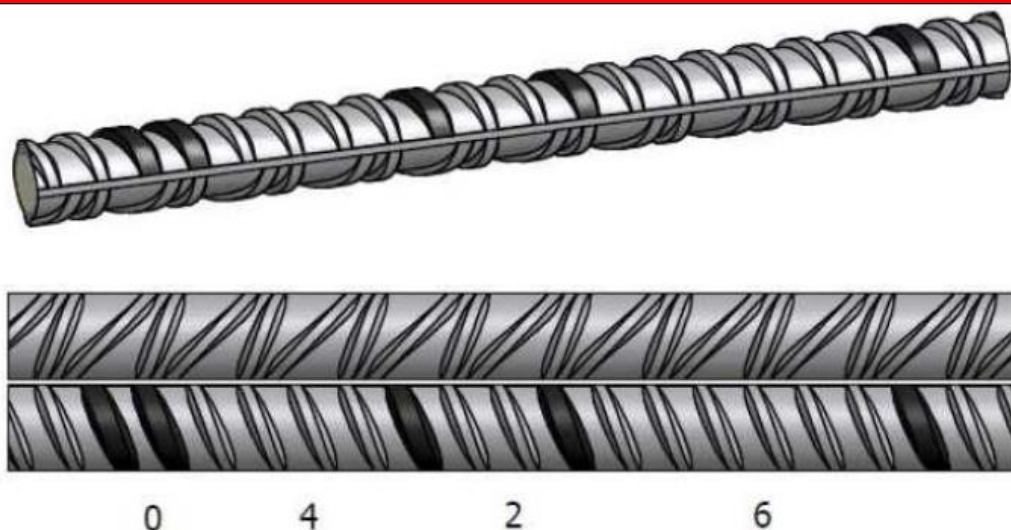
Certifications

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

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RIBS GEOMETRY AND ROLLING MARKING



CONFORMITY TO STANDARDS

Country	Standard	Grade	Certifications
ITALY	D.M. 17/01/2018	B 450 C	✓
FRANCE	NFA 35080/1	B 500 B	✓
GERMANY	DIN 488	B 500 B	✓
ROMANIA	ST 009	B 500 C	✓
CZECH REP.	DIN 488	B 500 B	✓
HUNGARY	DIN 488	B 500 B / B 500 C	✓
SLOVAKIA	DIN 488	B 500 B	✓
SWITZERLAND	SIA 262	B 500 B	✓
SLOVENIA	SIST EN 10080	B 500 B	✓
CROATIA	HRN 1130-2	B 500 B	✓
SERBIA	SRPS EN 10080	B 500 B	✓
POLAND	IBDiM-KOT-2022/0813	B 500 C	✓
SPAIN	UNE 36068	B 500 S	
UNITED KINGDOM	BS 4449	B 500 B	
PORTUGAL	LNEC E450	A 500 NR	
USA	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

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MECHANICAL PROPERTIES							
Standard	Grade	R_e N/mm ²	R_m N/mm ²	R_m/R_e	A_{gt} %	A_5 %	A_{10} %
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 B	≥ 500		≥ 1.08	≥ 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				
$\varnothing$ 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