

TECHNICAL SPECIFICATION: REBARS ALFA 500SD



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:

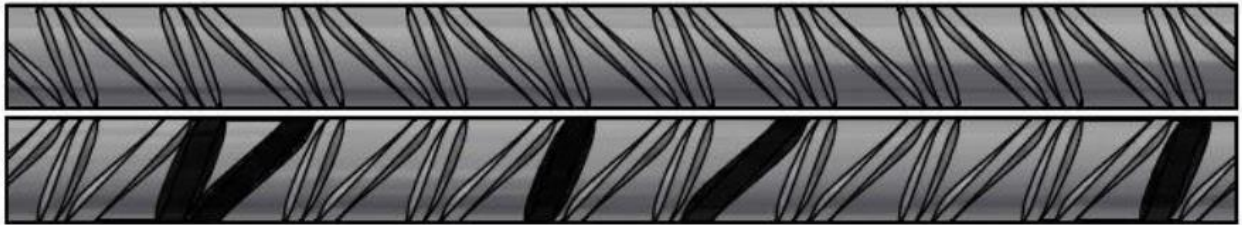
- Company logo
- Heat number
- Diameter
- Length
- Weight
- Steel grade
- Production date
- Standards references
- Certification logos
- QR Code

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Certifications

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

RIBS GEOMETRY AND ROLLING MARKING



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CONFORMITY TO STANDARDS

Country	Standard	Grade	Certifications
GREECE	ELOT 1421-3	B 500 C	✓
ITALY	D.M. 17/01/2018	B 450 C	✓
GERMANY	DIN 488	B 500 B	✓
CROATIA	HRN 1130-2	B 500 B	✓
BULGARIA	BDS 9252:2007	B500B - B500C	✓
POLAND	PN-H-93220	B 500 SP	

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 %
ELOT 1421-3	B 500 C	≥ 500		≥ 1.15 ≤ 1.35	≥ 7.5		
D.M. 17/01/2018	B450 C	≥ 450	≥ 540	≥ 1.15 ≤ 1.35	≥ 7.5		
DIN 488	B 500 B	≥ 500		≥ 1.08	≥ 5		
HRN 1130-2	B 500 B	≥ 500		≥ 1.08	≥ 5		
BDS 9252:2007	B500B - B500C	≥ 500		≥ 1.15 ≤ 1.35	≥ 7.5		
PN-H-93220	B 500 SP	≥ 500		≥ 1.15 ≤ 1.35	≥ 8		

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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