

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

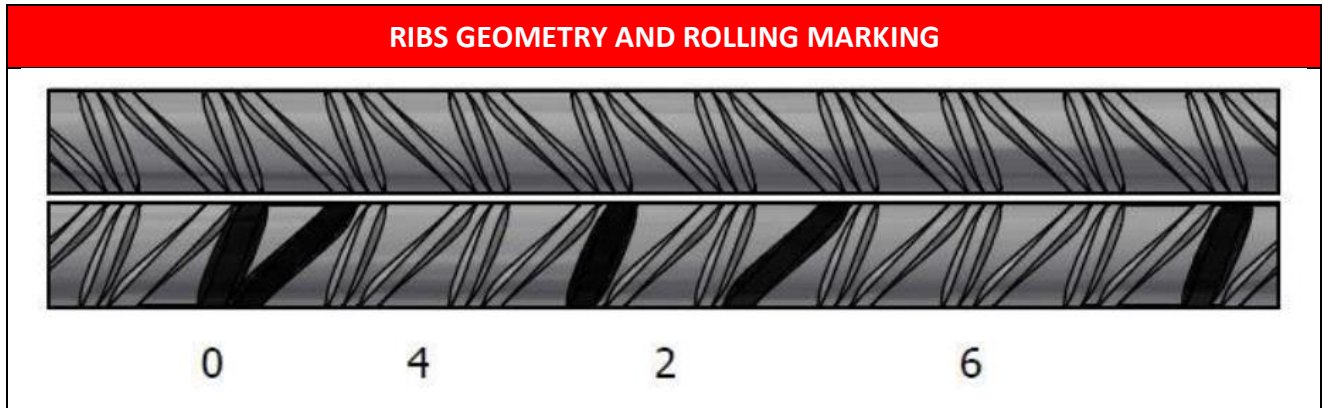
Each bundle is identified with a metal or paper plastic label containing the following information:

- Company logo
- Heat number
- Diameter
- 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)



| 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 | ✓ |
| 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 | | |
| 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 |