

1. DESCRIPTION

Weldable ribbed steel bars for concrete reinforcement according to standards ELOT EN 10080:2005 and ELOT 1421-3 grade B500C (Greece), BDS 9252 grade B500C (Bulgaria), ST-009 grade B500C (Romania), HRN 1130 grade B500B (Croatia), PN-H-93220:2018-02 grade B500SP (Poland), SK-TP-20/0031-v2 grade B500B (Slovakia), 20-CPR-387-(C-29/2020) A-18/2020 grade B500B (Hungary), STS-20/0012 grade B500B (Slovenia), CSN 42 0139 grade B500C (Czech Republic), SRPS EN 10080 grade B500B (Serbia).

2. HEAT CHEMICAL COMPOSITION

	Limit	C %	P %	S %	Cu %	N %	Ceq %
ELOT 1421-3	Max	0.22*	0.050	0.050	0.80	0.012	0.50
BDS 9252	Max	0.22*	0.050	0.050	0.80	0.012	0.50
ST-009	Max	0.22*	0.050	0.050	0.80	0.012	0.50
HRN 1130	Max	0.22*	0.050	0.050	0.80	0.012	0.50
PN-H-93220	Max	0.22*	0.050	0.050	0.80	0.012	0.50
SK-TP-20/0031-v1	Max	0.22*	0.050	0.050	0.80	0.012	0.50
A-18/2020	Max	0.22*	0.050	0.050	0.80	0.012	0.50
STS-20/0012	Max	0.22*	0.050	0.050	0.80	0.012	0.50
CSN 42 0139	Max	0.22*	0.050	0.050	0.80	0.012	0.50
SRPS EN 10080	Max	0.22*	0.050	0.050	0.60	0.012	0.50

NOTES: Cmax 0.25% is permitted, provided that Ceq maxi s 0.48%.

PN-H-93220: Mn_{max} = 1.60% e Si_{max} = 0.55%

3. MECHANICAL AND DIMENSIONAL PROPERTIES

Standard	Steel grade	Diameter Range mm	Weight tol. %	Y.S. min MPa	T.S. min MPa	T.S./Y.S. min	T.S./Y.S. max	Y.S./Y.S.nom max	Agt min %	A5 min %
ELOT 1421-3	B500C	8 ÷ 40	±4.5/±6	500c	-	1.15c	1.35c	1.25c	7.5c	-
BDS 9252	B500C	8 ÷ 32	±4.5/±6	500c	575c	1.15c	1.35c	1.25c	7.5c	-
ST-009	B500C	8 ÷ 32	±4.5/±6	500c	-	1.15c	1.35c	1.30c	7.5c	16
HRN 1130	B500B	8 ÷ 16	±4.5/±6	500c	-	1.08c	-	-	5c	-
PN-H-93220	B500SP	8 ÷ 20	±4	500c	-	1.15c	1.35c	1.25c	8c	16
SK-TP-20/0031	B500B	8 ÷ 16	±4.5/±6	500c	-	1.08c	-	-	5c	-
A-18/2020	B500B	8 ÷ 16	±4.5/±6	500c	-	1.08c	-	-	5c	18
STS-20/0012	B500B	8 ÷ 16	±4.5/±6	500c	-	1.08c	-	-	5c	-
CSN 42 0139	B500C	8 ÷ 16	±4.5/±6	500c	-	1.15c	1.35c	1.25c	7.5c	-
SRPS EN 10080	B500B	8 ÷ 32	±4.5/±6	500c	-	1.08c	-	-	5c	-

NOTES:

- c – characteristic values;
- Tolerances on sections according to relevant standard or alternatively according to customer's specification.
- Tolerances on length: 0/+ 100 mm.
- Bend and Re-Bend tests according to relevant standard.
- Specific rib area according to relevant standard.
- Y.S./Y.S.nom max = 1.25 corresponds to Y.S.max = 625MPa; Y.S./Y.S.nom,max = 1.30 corresponds to Y.S.max = 650MPa.

Siderpotenza S.p.A.

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4. STANDARD PACKING

Ø8/10mm: in 12m length bundles with maximum weight 2.5t; tied with 7 bindings at position about 500-2000-4250-6000mm from the head of the bundle.

Ø12/36mm: in 12m length bundles with maximum weight 2.5t; tied with 5 bindings at position about 700-3000-6000mm from the head of the bundle.

Ø8/36mm: in 14m length bundles with maximum weight 2.5t; tied with 7 bindings at position about 500-1750-4000-7000mm from the head of the bundle.

Ø8/36mm: short bars for a maximum amount of 2% in weight and minimum length 6m.

12m bundle (diam. 8/10mm)



12m bundle (diam. 12/36mm)



14m bundle (diam. 8/36mm)



| = single binding

| = double binding

5. STANDARD IDENTIFICATION

Each bundle with label reporting:

PITTINI
REBAR
HEAT N°
WEIGHT t
DIAMETER mm
LENGTH m
DATE
REFERENCE STANDARDS
PRODUCT CERTIFICATION LOGOS

Additional label for deliveries in Croatia, Serbia, Poland.

6. STANDARD CERTIFICATION

On demand certificate 3.1 according to EN10204 or Mill Test with chemical composition and mechanical properties.

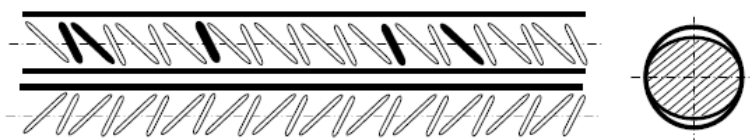
Where required: Declaration of Conformity.

7. APPROVALS

TÜV Hellas (Greece), NISI (Bulgaria), Permanent Technical Council for Construction (Romania), IGH (Croatia), SIMPTTESTCERT (Poland), TSUS (Slovakia), EMI (Hungary), ZAG (Slovenia), TZUS (Czech Republic), IMS (Serbia).

8. ROLLING MARK

4-7-2 mark.



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