PITTINI

SGQ
FERRIERE NORD

TECHNICAL SPECIFICATION
REBARS B500B

Document SPF400
Revision 15
Date 05/08/2025
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1. DESCRIPTION

Weldable steel rebars for concrete according to standards/approvals: DIN 488 B500B (Germany); HRN 1130 B500B (Croatia); STS-07/060 (Slovenia); SRPS EN 10080 B500B (Serbia); IBDiM-KOT-2018/0114 wydanie 2 B500B (Poland); A-90/2017 B500B (Hungary); SK TP – 13/0032 – verzia 03 B500B (Slovak Republic); CSN 42 0139 B500B (Czech Republic).

2. CHEMICAL COMPOSITION ON HEAT

	Limits	C %	P %	S %	Cu %	N %	Ceq %
DIN 488; IBDiM-KOT-2018/0114 w.2;	max	0.22	0.050	0.050	0.60	0.012	0.50
HRN 1130; STS-07/060; SRPS EN 10080; A-90/2017; CSN 42 0139; SK TP–13/0032–v03;	max	0.22	0.050	0.050	0.80	0.012	0.50

C max 0.25% is permitted, provided that Ceq max is 0.48%
In addition Si_{max} = 0.60% and Mn_{max} = 1.60% according to IBDiM-KOT-2018/0114 w.2

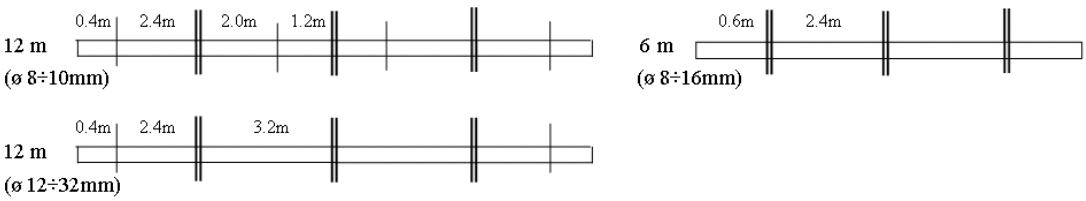
3. MECHANICAL AND DIMENSIONAL PROPERTIES

Standard	Steel grade	Diameter range mm	Weight tol. %	Re min MPa	Re max MPa	Rm min MPa	Rm/Re min	Rm/Re max	Agt min %	A5 min
DIN 488	B500B	8 ÷ 28	+6/-4c	500c	650c	-	1.08c	-	5c	-
HRN 1130	B500B	8 ÷ 32	± 4.5	500c	-	-	1.08c	-	5c	-
STS-07/060	B500B	8 ÷ 32	± 4.5÷± 6	500c	650c	-	1.08c	-	5c	-
SRPS EN 10080	B500B	8 ÷ 32	± 4.5÷± 6	500c	650c	-	1.08c	-	5c	-
IBDiM-KOT-2018/0114 w.2	B500B	8 ÷ 32	+6/-4c	500c	650c	-	1.08c	-	5c	-
A-90/2017	B500B B60.50	8 ÷ 32	± 4.5÷± 6	500c	650c	590	1.08c	-	5c	18
SK TP–13/0032–v03	B500B	8 ÷ 32	± 4.5÷± 6	500c	650c	-	1.08c	-	5c	-
CSN 42 0139	B500B	8 ÷ 32	± 4.5÷± 6	500c	-	-	1.08c	-	5c	-

NOTES:
- c - characteristic values;
- fR values and rib geometry parameters according to the relevant standards;
- bend and re-bend test parameters according to the relevant standards;
- fatigue performance according to relevant standards.

4. STANDARD PACKAGING

In bundles with standard length 6m and 12m (14m on demand); tied with wire rod diam. 7 mm. Tolerance length 0/+100mm. Short bars for a maximum amount of 2% in weight and minimum length 6m.
Bundle weight for 6m max 1.7 t. Bundle weight for 12m: about 1.7 t for diameter 8mm; about 2.2 t for diameter 10mm; about 2.5 t for diameters from 12 mm to 32 mm.



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5. STANDARD IDENTIFICATION

Each bundle with label reporting:

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

Additional label for deliveries in Croatia, Serbia and Poland.

6. STANDARD CERTIFICATION

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

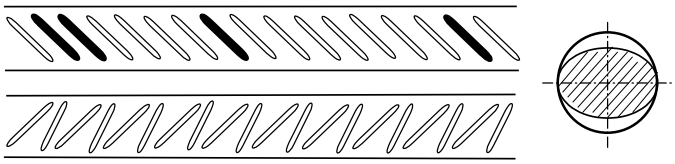
Where required: Declaration of Conformity/Performance.

7. APPROVALS

PRÜFSTELLE FÜR BETONSTAHL (Germany), IGH (Croatia), ZAG (Slovenia), IMS (Serbia), IBDiM (Poland), SIMPTESTCERT (Poland), EMI (Hungary), TSUS (Slovak Republic), TZUS (Czech Republic).

8. IDENTIFICATION MARK

Mark 4-7



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