

1. DESCRIPTION

Weldable steel rebars for concrete according to standards/approvals: D.M. 17/01/2018 B450C (Italy); DIN 488 B500B (Germany); HRN 1130 B500B (Croatia); STS-07/060 (Slovenia); SRPS EN 10080 B500B (Serbia); IBDiM-KOT-2018/0114 wydanie 1 B500B (Poland); A-90/2017 B500B (Hungary); SK TP – 13/0032 – verzia 03 B500B (Slovak Republic); CSN 42 0139 B500B (Czech Republic); AT 016-01/425-2020 B500C (Romania); SS212540 K500B-TR and K500C-TR (Sweden); NS 3576-2, NS 3576-3 B500NB and B500NC (Norway); EN10080 and EC2 grade B500B (Denmark).

2. CHEMICAL COMPOSITION ON HEAT

	Limits	C %	P %	S %	Cu %	N %	Ceq %
DIN 488	max	0.22	0.050	0.050	0.60	0.012	0.50
D.M. 17/01/2018; HRN 1130; STS-07/060; EN 10080; SRPS EN 10080; IBDiM-KOT-2018/0114 w.1; A-90/2017; CSN 42 0139; SK TP-13/0032-v03; AT 016-01/425-2020; SS212540; NS 3576	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 $S_{i\max} = 0.60\%$ and $Mn_{\max} = 1.60\%$ according to NS 3576 and IBDiM-KOT-2018/0114 w.1

3. MECHANICAL AND DIMENSIONAL PROPERTIES

Standard	Steel grade	Diameter range mm	Weight toll. %	Re min MPa	Re max MPa	Rm min MPa	Rm/Re min	Rm/Re max	Agt min %	A5 min
D.M. 2018	B450C	8 ÷ 32	± 4.5± 6	450c	563c	540c	1.15c	1.35c	7.5c	-
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.1	B500B	8 ÷ 32	± 4.5± 6	500c	650c	-	1.08c	-	5c	-
A-90/2017	B500B	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	-
AT 016-01/425-2020	B500C	8 ÷ 32	± 4.5± 6	500c	650c	-	1.15c	1.35c	7.5c	16
SS212540	K500B-T	8 ÷ 32	± 4.5± 6	500c	-	-	1.08c	-	5c	-
SS212540	K500C-T	8 ÷ 32	± 4.5± 6	500c	-	-	1.15c	1.35c	7.5c	-
NS 3576-2	B500NB	8 ÷ 32	± 4.5± 6	500c	650c	550c	1.08c	-	5c	-
NS 3576-3	B500NC	8 ÷ 32	± 4.5± 6	500c	650c	600c	1.15c	1.35c	NOTE	-
EN10080	-	8 ÷ 32	± 4.5± 6	-	-	-	-	-	-	-
EC2	B500B	8 ÷ 32	± 4.5± 6	500c	-	-	1.08c	-	5c	-

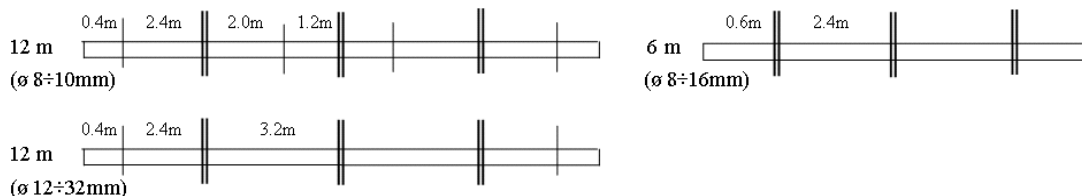
NOTES:

- 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
- NS 3576-3: $Agt_{\min} = 7.5\%$ for diameters up to 14mm, $Agt_{\min} = 8.0\%$ for diameters from 16mm up to 40mm.

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. Maximum 3 short bars in a bundle with minimum length 6 m.

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.



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, Norway and Sweden.

6. STANDARD CERTIFICATION

According EN 10204.

Declaration of Conformity or Performance where applicable.

7. APPROVALS

Servizio Tecnico Centrale Ministero Infrastrutture e Trasporti (Italy); PRÜFSTELLE FÜR BETONSTAHL (Germany), IGH (Croatia), ZAG (Slovenia), IMS (Serbia), SIMPTTESTCERT (Poland), EMI (Hungary), TSUS (Slovak Republic), TZUS (Czech Republic), ICECON (Romania), Globecert (Norway, Sweden and Denmark).

8. IDENTIFICATION MARK

Mark 4-7

