

1. DESCRIPTION

Weldable hot rolled and cold stretched ribbed steel wire in coils for concrete reinforcement, steel grade B500B, according to DIN 488 (Germany), NF A 35-080-1 (France), SIA 262 (Switzerland), NEN 6008 and BRL 0501 (Netherlands) and EN10080 standards.

2. HEAT CHEMICAL COMPOSITION

	Limits	C %	P %	S %	Cu %	N %	Ceq %
DIN 488	max	0.22	0.050	0.050	0.60	0.012	0.50
NF A 35-080-1	max	0.22*	0.050	0.050	0.80	0.012	0.50
SIA 262	max	0.22*	0.050	0.050	0.60	0.012	0.50
NEN 6008	max	0.22	0.050	0.050	0.80	0.012	0.50
EN 10080	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%.

3. MECHANICAL AND DIMENSIONAL PROPERTIES

Standard	Steel Grade	Diameter mm	Weight tol. %	Re min MPa	Re max MPa	Rm/Re min	Agt min %	Bend test
DIN 488	B500B	8 ÷ 16	-4/ +6	500c	650c	1.08c	5.0c	note 2
NF A 35-080-1	B500B	8 ÷ 16	± 4,5	500c	650c	1.08c	5.0c	note 2
SIA 262	B500B	8 ÷ 16	note 3	500c	650c	1.08c	5.0c	note 2
NEN 6008 / BRL 0501	B500B	8 ÷ 16	± 4,5	500c	-	1.08c	5.5c	note 2
EN 10080	-	8 ÷ 16	note 3	-	-	-	-	note 2

NOTES:

- test on sample straight by laboratory machine and aged 100°C/1h.
- diameter of the mandrel $D = k \cdot d$, bending angle 90°, re-bending angle 20° after aging 100°C/1h.
- ± 6 for $\varnothing \leq 8$ mm; ± 4.5 for $\varnothing > 8$ mm.
- Average and individual lower values of mechanical properties according to relevant standards.
- For Germany according to DIN 488 and Netherlands according to NEN 6008: $f_R \geq 0.052$ for diameter 8mm, $f_R \geq 0.060$ for diameter 10mm, $f_R \geq 0.065$ for diameter ≥ 12 mm. For France and Switzerland, $f_R \geq 0.040$ for diameter 8 ÷ 12mm, $f_R \geq 0.056$ for diameter ≥ 14 mm.

4. STANDARD PACKAGING

- Coils weight 2.5 t, height = 700 mm, int. diameter = 700mm, ext. diameter = approx. 1130 mm, tied with 4 single or double strips according to the diameter.
- Coils weight 5.0 t, height = 900 mm, int. diameter = 700mm, ext. diameter = approx. 1300 mm, tied with 4 double strips.

5. STANDARD IDENTIFICATION

Each coil with diameter painted on the surface and label reporting:

PITTINI
ACCIAIERIE DI VERONA S.p.A.
JUMBO STRETCHED B500B
DIAMETER mm
HEAT N°
NOMINAL WEIGHT kg
PACKAGING
DATE OF PRODUCTION
REFERENCE STANDARDS
PRODUCT CERTIFICATION LOGOS

6. STANDARD CERTIFICATION

On demand certificate 3.1 according EN10204.



Acciaierie di Verona S.p.A.

Plant

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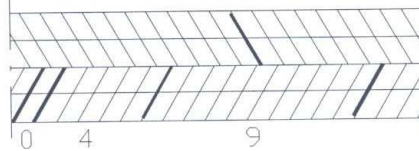
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7. APPROVALS

PRÜFSTELLE FÜR BETONSTAHL (Germany), AFCAB (France), EMPA (Switzerland), KIWA (Netherlands).

8. IDENTIFICATION MARK

Mark 4-9



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