

1. DESCRIPTION.

Ribbed reinforcing steel bars according to D.M. 17/01/2018 grade B450C.

2. CHEMICAL COMPOSITION OF HEAT

	Limits	C %	P %	S %	Cu %	N %	Ceq %
PITTINI	max	0.22	0.050	0.050	0.80	0.012	0.50
D. M. 2018	max	0.22	0.050	0.050	0.80	0.012	0.50

Note: C max 0.25% is permitted if Ceq max is 0.48%.

3. MECHANICAL PROPERTIES AND DIMENSION TOLLERANCES.

Standard	Steel grade	Diameter range mm	Weight toll. %	Lenght Toll. mm	Re min MPa	Re max MPa	Rm min MPa	Rm/Re min	Rm/Re max	Agt min %	Bend test
PITTINI	B450C	8 ÷ 32	*	0/+100	450C	563C	540C	1.15C	1.35C	7.5C	**
D. M. 2018	B450C	6 ÷ 50	*	-	450C	563C	540C	1.15C	1.35C	7.5C	**

NOTE:

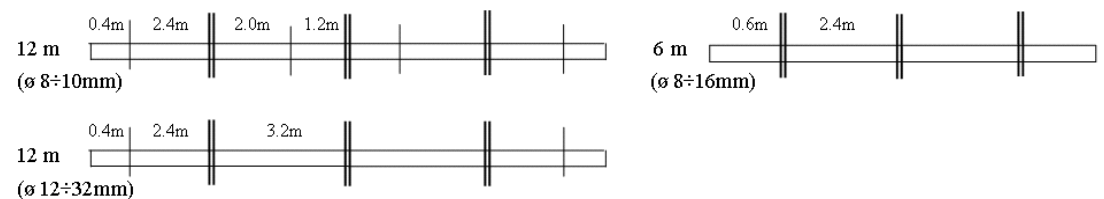
c - characteristic values;

* ± 4.5% on nominal diameters above 8mm; ± 6% on nominal diameters 8mm and below.

** D.M. bending test: D mandrel = k*d; bend $\alpha=90^\circ$ and bend back 20° after ageing, k=4 for $d\leq 10\text{mm}$, k=5 for $d=12\div 16\text{mm}$, k=8 for $d=18\div 25\text{mm}$, k=10 for $d\geq 26\text{mm}$

4. STANDARD PACKAGING.

In bundles with standard lenght 12m (14m on demand), max weight 2.5 t, or 6m and max weight 1.6 t, tied with wire rod diam. 7mm. Maximum 3 short bars in a bundle with minimum length 6m.



5. STANDARD IDENTIFICATION.

Each bundle with label reporting:

FERRIERE NORD S.p.A.
I - 33010 OSOPPO (UD) ITALIA
D.M. 17/01/2018 B450C
BARRE PITTINI
HEAT N°
DIAMETER mm
LENGHT m

6. STANDARD CERTIFICATION.

According EN 10204 3.1.

7. APPROVALS

Servizio tecnico centrale Ministero Infrastrutture e Trasporti

8. IDENTIFICATION MARK

Mark 4-7

