

1. DESCRIPTION

Weldable ribbed steel bars for concrete reinforcement according to standards D.M. 2018 grade B450C, ELOT EN 10080:2005 and ELOT 1421 – 3:2007 grade B500C, BS4449 grade B500B, ST-009 grade B500C, NF A 35-080-1 grade B500B and to “Arrêté Interministériel du 08 Mars 1997” (published on Journal Officiel de La Republique Algerienne Nr. 54) grade Fer H. AD/E E500 (chemical and mechanical properties).

2. HEAT CHEMICAL COMPOSITION

	Limit	C %	P %	S %	Cu %	N %	Ceq %
PITTINI	max	0.22*	0.050	0.050	0.80	0.012	0.50
DM 17.01.2018	max	0.22*	0.050	0.050	0.80	0.012	0.50
ELOT 1421-3	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
BS 4449	max	0.22*	0.050	0.050	0.80	0.012	0.50
J.O.R.A.	max	0.27	0.060	0.060	-	-	0.51
NF A 35-080-1	max	0.22*	0.050	0.050	0.80	0.012	0.50

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

3. MECHANICAL AND DIMENSIONAL PROPERTIES

Standard	Steel grade	Diameter Range mm	Y.S. min MPa	T.S. min MPa	T.S./Y.S. min	T.S./Y.S max	Y.S./Y.S.no m max	Agt min %	A5 min %
PITTINI	B500	8 ÷ 36	500c	550	1.15c	1.35c	1.25c	7.5c	16
DM 17.01.2018	B450C	6 ÷ 40	450c	540c	1.15c	1.35c	1.25c	7.5c	-
ELOT 1421-3	B500C	6 ÷ 40	500c	-	1.15c	1.35c	1.25c	7.5c	-
ST-009	B500C	6 ÷ 50	500c	-	1.15c	1.35c	1.30c	7.5c	16
J.O.R.A.	E500	6 ÷ 40	500	550	1.10	-	-	-	12
NF A 35-080-1	B500B	5 ÷ 56	500c	-	1.08c	-	1.30c	5c	-
BS 4449	B500B	6 ÷ 40	500c	-	1.08c	-	-	5c	-

NOTES:

c – characteristic values;

Tolerances on sections according to D.M., ELOT, BS, NF, ST, J.O.R.A. or alternatively according to customer's specification.

Tolerances on length: 0/+ 100 mm

Bend and Re-Bend tests according to D.M., ELOT, BS, NF, ST, J.O.R.A.

Specific rib area according to D.M., ELOT, BS, NF, ST.

4. STANDARD PACKING

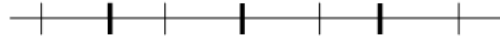
Ø8/10mm: in 12m length bundles with maximum weight 2.5t; tied with 7 bindings at position about 500-2000-4250-6000mm from the head of the bundle.

Ø12/36mm: in 12m length bundles with maximum weight 2.5t; tied with 5 bindings at position about 750-3000-6000mm from the head of the bundle.

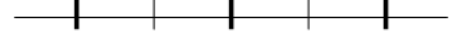
Ø8/36mm: in 14m length bundles with maximum weight 2.5t; tied with 7 bindings at position about 500-1750-4000-7000mm from the head of the bundle.

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

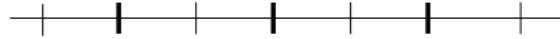
Fascio a12m (diam.8/10)



Fascio a 12m(diam.12/36)



Fascio a14m (diam.8/36)



| = Legatura singola

▬ = Legatura doppia

5. STANDARD IDENTIFICATION

Each bundle identified with a label reporting: manufacturer, grade, heat number, diameter, bundle length, nominal weight, standard references, date of rolling.

6. STANDARD CERTIFICATION

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

For Italian market: copy of Attestato di Qualificazione from STC and document type 3.1 according to EN10204.

For Romanian market: Declaration of Conformity.

7. APPROVALS

STC (Italy), TUV Hellas (Greece), ICECON (Romania).

8. ROLLING MARK

4-7-2 mark.

