

## 1. DESCRIPTION

Weldable ribbed reinforcing steel bars for concrete reinforcement according to standard NF A 35-080-1 grade B500B. Mechanical properties and chemical composition according to "Arrêté Interministériel du 08 Mars 1997" (published on Journal Officiel de La Republique Algerienne Nr. 54) grade Fer H. AD/E E500.

## 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
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: in accordance with NF A 35-080-1 carbon content can exceed the specified limit of a maximum quantity of 0.03%, provided that the maximum value of Ceq is lowered of 0.02%.

## 3. MECHANICAL AND DIMENSIONAL PROPERTIES

Standard	Steel grade	Diameter range Mm	Y.P. min MPa	T.P. min MPa	YP/YP nom Max	TP/YP min	A5 min %	Agt min %
PITTINI	B500	8 ÷ 36	500	550	< 1.30	1.10	12	5
J.O.R.A.	E500	6 ÷ 40	500	550	-	1.10	12	-
NF A 35-080-1	B500B	5 ÷ 56	500	-	< 1.30	1.08	-	5

### NOTE:

Tolerance on mass per meter: as per "Arrêté Interministériel du 08 Mars 1997" published on Journal Officiel de La Republique Algerienne Nr. 54, or alternatively as per customer's request.

Bend and rebend test: tables A, B e C.

Table A – bend test (bend angle 180°) according to J.O.R.A.

Nominal diameter (mm)	8	10	12	14	16	20	25	32	40
Mandrel diameter (mm)	20	25	40	52	63	80	125	160	200

Table B – rebend test (bend angle 90° rebend angle 20° after aging) according to J.O.R.A.

Nominal diameter (mm)	8	10	12	14	16	20	25	32	40
Mandrel diameter (mm)	40	50	63	84	100	160	200	320	400

Table C – bend and rebend test (bend angle 90° rebend angle 20° after aging) according to NF A 35-080-1

Nominale diameter (mm)	8	10	12	14	16	20	25	32	36	40
Bend mandrel diameter (mm)	24	30	36	42	48	120	150	192	216	240
Rebend mandrel diameter (mm)	40	50	60	70	80	160	200	320	360	400

## 4. STANDARD PACKAGING

In bundles of standard length 12m and maximum weight 2.5t.

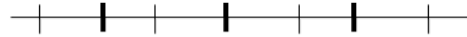
Diameter 8/10mm bundles: tied with wire rod (4 single bindings and 3 double bindings at position 500-2000-4250-6000mm from the ends of the bundle).

Diameter 12/36mm: tied with wire rod (2 single bindings and 3 double bindings at position 750-3000-6000mm from the ends of the bundle).

Length tolerance: + 100/0 mm.

Short bars: maximum 3 for each bundle, with minimum length 6m.

Bundle length 12m (diameters 8/10 mm)



Bundle length 12m (diameters 12-36mm)



| = single binding

▬ = double binding

## 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

Mill test report with chemical composition and mechanical properties.

## 8. RIB GEOMETRY

Rolling mark 4-7-2

