

1. DESCRIPTION.

Weldable ribbed steel bars for concrete according to 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. CHEMICAL COMPOSITION ON PRODUCT

	Limits	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: according to NF A 35-080-1 the max value of carbon may exceed by 0.03% if the carbon equivalent value is decreased by 0.02%.

3. MECHANICAL AND DIMENSIONAL PROPERTIES

Reference Standard	Steel grade	Diameter range	Y.P. min MPa	T.S. min MPa	YP/YP _m max	T.S./Y.S. min	A ₅ min %	Agt min %
PITTINI	B500	8 ÷ 32	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

NOTES:

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

Bending and rebending test: see table A, B and C.

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

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

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

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

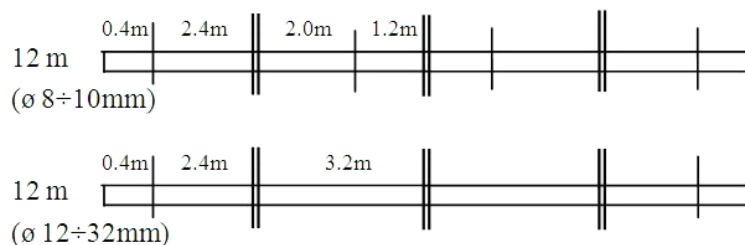
Table C – bending and rebending test (bend angle 90° and rebend angle 20° after ageing) according to NF A 35-080-1

Nominal diameter (mm)	8	10	12	14	16	20	25	32
Bending								
Mandrel diameter (mm)	24	30	36	42	48	120	150	192
Rebending								
Mandrel diameter (mm)	40	50	60	70	80	160	200	320

4. STANDARD PACKING.

In bundles with standard length 12m of max 2.5 t tied with wire rod diam. 7 mm.
Tolerance length 0/+100mm.

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



5. STANDARD IDENTIFICATION.

Each bundle with label reporting:

FERRIERE NORD S.p.A.
I - 33010 OSOPPO (UD) ITALIA
BARS PITTINI B500
Reference standards
HEAT N°
DIAMETER mm
LENGTH m

6. STANDARD CERTIFICATION.

On demand certificate according to EN 10204.

7. IDENTIFICATION MARK .

Mark 4-7

