FerrieraValsabbia	BAR DATA SHEET	A-PRQ10-1 eng B500C Greece Rev.0 20/01/2021

B500C – GREECE

STANDARD: **ELOT 1421-3:2007 / ELOT EN10080:2005**

PRODUCT TYPE: **WELDABLE REINFORCING STEEL ELOT 1421-3 B500C**

DIMENSION: Ø mm **8 - 10 - 12 - 14 - 16 - 18 - 20 - 22 - 25 - 28 - 32 - 40**

CHEMICAL COMPOSITION (%)

	C	S	P	Cu	N	Ceq	
Cast analysis	0,22	0,050	0,050	0,80	0,012	0,50	It is permitted to exceed the maximum values for carbon by 0,03 % by mass, provided that the carbon equivalent value is decreased by 0,02 % by mass
Product analysis	0,24	0,055	0,055	0,85	0,014	0,52	

MECHANICAL PROPERTIES

	Characteristic value		Single Value	
	Min	MAX	Min	MAX
UPPER YIELD STRENGTH R_{eH} (MPa)	500	625	485[a)]	635
R_m/R_{eH}	1,15	1,35	1,13	1,37[b)]
PERCENTAGE TOTAL ELONGATION AT MAXIMUM FORCE A_{gt} (%)	7,5		7	

[a)] lot acceptable if average is ≥510

[b)] lot accettable if average is≤1,33

GEOMETRY

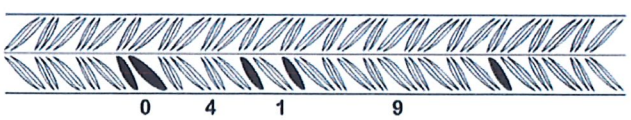
DEVIATION FROM NOMINAL MASS (%)	Ø≤8	±6,0
	Ø>8	±4,5
RELATIVE RIB AREA f_R	Ø=8	≥0,045
	Ø=10	≥0,052
	Ø>12	≥0,056

BEND AND RE-BEND

Angle of bend		
= 180°		
Bend mandrel		
Ø ≤ 16 mm		Ø > 16 mm
3Ø		6Ø

Angle of bend	Ageing	Angle of re-bend
= 90°	1 h (-0,+15 min) at 100°C ±10°C	≥ 20°
Bend mandrel		
Ø ≤ 16 mm	16 < Ø ≤ 25 mm	Ø > 25 mm
5Ø	8Ø	10Ø

MARKING



QSE

Baruzzi Mario

QSM

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