



B500B - CROATIA

STANDARD: HRN 1130-2:2008 HRN 10080-2012

PRODUCT TYPE: REINFORCING STEEL BARS (CELIK ZA ARMIRANJE BETONA)

DIMENSION: \varnothing mm 8 - 10 - 12 - 14 - 16 - 18 - 20 - 22 - 24 - 25 - 26 - 28 - 30 - 32 - 40

CHEMICAL COMPOSITION (%)

	C	S	P	Cu	N	Ceq	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
Cast analysis	0,22	0,050	0,050	0,80	0,012	0,50	
Product analysis	0,24	0,055	0,055	0,85	0,014	0,52	

MECHANICAL PROPERTIES

	Characteristic value	Single value
	Min	Min
UPPER YIELD STRENGTH R_{eH} (MPa)	500	475
R_m/R_{eH}	1,08	1,06
PERCENTAGE TOTAL ELONGATION AT MAXIMUM FORCE A_{gt} (%)	5,0	4,5

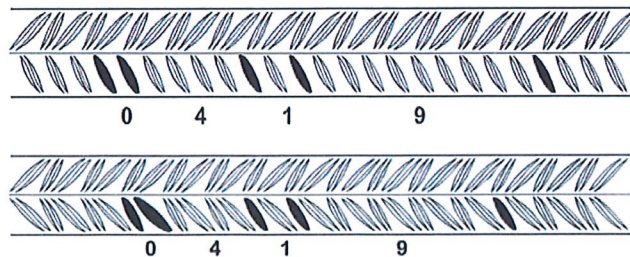
GEOMETRY

DEVIATION FROM NOMINAL MASS (%)	$\varnothing \leq 8$	$\pm 6,0$
		$\varnothing > 8$
RELATIVE RIB AREA f_R	$\varnothing = 8$	$\geq 0,045$
	$\varnothing = 10$	$\geq 0,052$
	$\varnothing > 12$	$\geq 0,056$

BEND AND RE-BEND

Angle of bend		
= 180°		
Bend mandrel		
$\varnothing \leq 16$ mm	$\varnothing > 16$ mm	
3 \varnothing	6 \varnothing	
Angle of bend	Ageing	Re-bend angle
= 90°	1 h (-0,+15 min) at 100°C $\pm 10^\circ$ C	$\geq 20^\circ$
Bend mandrel		
$\varnothing \leq 16$ mm	16 < $\varnothing \leq 25$ mm	$\varnothing > 25$ mm
5 \varnothing	8 \varnothing	10 \varnothing

MARKING



QCE

Baruzzi Mario

QSM

Brunori Andrea