



CONCRETE REINFORCING BARS



CONCRETE REINFORCING STEEL DUCTILITY CLASS B

FEATURES

TYPE:	Hot-rolled concrete reinforcing steel in straight bars
STEEL GRADE:	Ribbed, weldable, high tensile steel B500B, SD Class B Produced with the TEMPCORE method, according to: DIN 488 BSt500S (German standard) BDS 9252, EN10080 B500B (Bulgarian standard)
FORM - DIAMETERS:	Straight bars. Diameter from Ø8 to Ø40mm with SD marking up to Ø28mm
LENGTH - TOLERANCE:	Length of straight bars: 12m standard (or 14m upon request), with tolerance -100 / +100mm
PACKING - WEIGHT:	Bundles of straight bars. Weight: approximately 2,00MT per bundle

Customer requirements for other lengths, as well as other recognised industrial standards, can be met upon request. Chemical composition, mechanical properties, dimensions, weight and tolerances can be found overleaf.

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Reinforcing Steel

CONCRETE REINFORCING BARS

CHEMICAL COMPOSITION & MECHANICAL PROPERTIES

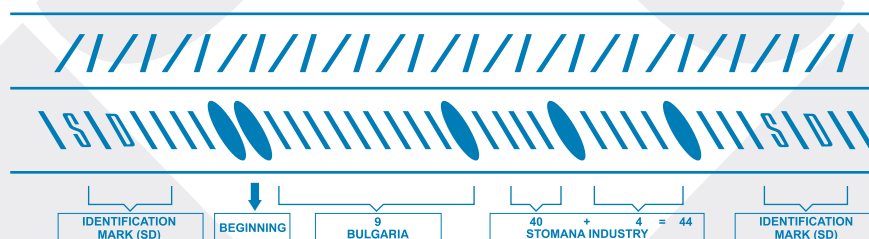
GRADE	HEAT CHEMICAL ANALYSIS (%) max ⁽¹⁾						MECHANICAL PROPERTIES					BEND - REBEND TEST		
	C	S	P	N	Cu	Ce _q	YIELD STRENGTH R _m (N/mm ²)	TENSILE STRENGTH R _m (N/mm ²)	R _m /R _e	Agt (%) Total Elongation at maximum force	Elongation A _{5.0} (%)	d ²⁰ ≤ 12	14 ≤ d ≤ 16	d ≥ 20
												d ²⁰ ≤ 16	16 ≤ d ≤ 25	d ≥ 25
DIN 488 BST500S	0,22 (0,24)	0,050 (0,055)	0,050 (0,055)	0,012 (0,013)	-	0,50 (0,52)	> 500	> 550	> 1,10	> 5,0	> 10	5d	6d	8d
BDS 9252 B500B	0,22 (0,24)	0,050 (0,055)	0,050 (0,055)	0,012 (0,014)	0,80 (0,85)	0,50 (0,52)	> 500	> 550	> 1,08	> 5,0	-	4d	7d	8d
STOMANA SD B500B	0,22 (0,24)	0,050 (0,055)	0,050 (0,055)	0,012 (0,013)	0,50 (0,55)	0,50 (0,52)	> 500	> 550	> 1,10	> 5,0	> 15	4d	6d	8d

Comments: (1) The values in parentheses refer to the final product, (2) d = nominal diameter of test piece

CONCRETE REINFORCING STEEL DIMENSIONS, WEIGHT AND TOLERANCES

NOMINAL DIAMETER (mm)	NOMINAL CROSS-SECTION (mm ²)	NOMINAL WEIGHT (kg/m)	WEIGHT TOLERANCE (%)
8,0	50,3	0,395	-4 / +4,5
10,0	78,5	0,617	-4 / +4,5
12,0	113	0,888	-4 / +4,5
14,0	154	1,21	-4 / +4,5
16,0	201	1,58	-4 / +4,5
18,0	254	2,00	-4 / +4,5
20,0	314	2,47	-4 / +4,5
22,0	380	2,98	-4 / +4,5
25,0	491	3,85	-4 / +4,5
28,0	616	4,83	-4 / +4,5
32,0	804	6,31	-4 / +4,5
40,0	1.257	9,86	-4 / +4,5

STOMANA S.A. CONCRETE REINFORCING STEEL B500B SD MARKING



QUALITY CERTIFICATIONS

STOMANA INDUSTRY SA Quality Management System is certified according to ISO 9001:2000.

For reinforcing steel, STOMANA INDUSTRY SA has also obtained quality certificates from the following certification bodies:

- the Bulgarian "NYCY" for grade B500B according to BDS 9252, EN10080,
- the German "PRÜFSTELLE FÜR BETONSTAHL" for grade BST500S according to DIN 488 and
- the Romanian ICECON for grade BST500S according to DIN 488 .



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