Technical Data Sheet
Hot Rolled Carbon and Low Alloy Steel Rebars
Grade A500C

Size: 8-32 mm
Delivery Standard: DIN 488, BS 4449, ISO 6935, GOST 5781, GOST 34028 , INSO 3132
Shape:

1-Dimensional Properties

Nominal Diameter	Nominal Cross Area	1m bar weigth	12m bar weigth	Transverse rib (mm) width	Transverse rib (mm) height (min)	Longitudinal rib (mm) width	Longitudinal rib (mm) height (max)	Rib spacing
d	A_n(mm^2)	(kg/m)	w (kg)	b_1	h_1	b_2	h_2	c (mm)
8	50.3	0.367-0.422	4.408-5.072	0.8-1.6	0.52	1	1.2	4.8-6.6
10	78.5	0.585 -0.648	7.022-7.762	1.0-2.0	0.65	1.3	1.5	5.5-7.5
12	113	0.844-0.932	10.123-11.189	1.2-2.4	0.78	1.5	1.8	6.1-8.3
14	154	1.150-1.270	13.790-15.250	1.4-2.8	0.91	2	2.1	7.1-9.7
16	201	1.500-1.659	18.010-19.910	1.6-3.2	1.04	2	2.4	8.2-11.0
18	254	1.900-2.10	22.800-25.20	1.8-3.6	1.17	2	2.7	9.2-12.4
20	314	2.350-2.593	28.160-31.12	2.0-4.0	1.30	2	3	10.2-13.8
22	380	2.830-3.129	33.960-37.55	2.2-4.4	1.43	2	3.3	11.2-15.2
25	491	3.700-4.004	44.350-48.05	2.5-5.0	1.63	2	3.8	12.8-17.3
28	616	4.640-5.023	55.640-60.280	2.8-5.6	1.82	2.5	4.2	14.3-19.3
32	804	6.060-6.562	72.690-78.750	3.2-6.4	2.08	3	4.5	16.3-22.1

2-Chemical Analysis

Grade	Standard	C	Si	Mn	P	S
A500C	GOST 34028	≤0.24	≤0.6	≤1.8	≤0.050	≤0.050

3-Mechanical Properties

		Yield Strength	Tensile Strength	Elongation (%)		
Grade	Symbol	ReH, N/mm^2	R_m/ ReH	A_5	A_{10}	Agt
A500C	A500C	≥500	1.08	≥10	≥14	-

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