



IRON AND STEEL
PRODUCTS

Rebar



Rebar Mix, Standard Dim & Mass

Diameter (mm)	Cross sectional area (mm ²)	Nominal mass per unit of length (Kg/m)	Tolerance (%)	
			Min	Max
8	50.3	0.395	-6	+4
10	78.5	0.616	-5	+3
12	113	0.888	-5	+3
14	154	1.21	-5	+3
16	201	1.58	-3	+3
18	254	2.00	-3	+3
20	314	2.47	-3	+3
22	380	2.98	-3	+3
25	491	3.85	-3	+2
28	616	4.83	-3	+2
32	804	6.31	-3	+2

Rebar's Mechanical Properties

Standard	Yield strength Re (N/mm ²)	Tensile Strength Rm (N/mm ²)	Rm / Re	Elongation	Radius for bend test, degrees
IRAN National Standard	≥ 400	≥ 600	≥ 1.25	≥ 16	160-180
Sarmad Co.	≥ 430	≥ 620	≥ 1.28	≥ 18	180

Rebar's Reference chemical composition

Mass content of elements, %

Standard	C %	Si %	Mn %	P %	S
IRAN National Standard	≤ 0.37	≤ 0.60	≤ 1.6	≤ 0.045	≤ 0.045
Sarmad Co.	0.30-0.36	0.20-0.35	0.70-0.90	≤ 0.030	≤ 0.020







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