



Key Stainless Steel Rebar Data

Nominal C/S Area and Nom. Mass/m

for typically specified Stainless Steel Rebar (after BS6744:2001)

diameter (mm)	C/S Area (mm ²)	Steel Designation No.			Notes
		EN1.4301	EN1.4436	EN1.4462	
		Mass per meter (kg/m)			
3	7.1	0.06	0.06	0.06	
4	12.6	0.1	0.1	0.1	
5	19.6	0.16	0.16	0.15	
6	28.3	0.22	0.23	0.22	
8	50.3	0.4	0.4	0.39	
10	78.5	0.62	0.63	0.61	
12	113.1	0.89	0.91	0.88	
16	201.1	1.59	1.61	1.57	
20	314.2	2.48	2.51	2.45	
25	490.9	3.88	3.93	3.83	¹
32	804.2	6.35	6.43	6.27	¹
40	1256.6	9.93	10.05	9.8	¹
50	1963.5	15.51	15.7	15.32	¹

Note 1: These sizes are only produced to Grade 500

Tolerances on Kg/m

≥ 3 mm diameter & ≤ 6 mm diameter	+ / - 9.0% kg/m
≥ 7 mm diameter & ≤ 12 mm diameter	+ / - 6.0% kg/m
> 12 mm diameter	+ / - 4.5% kg/m

Tolerance on Bar Length

Unless otherwise specified: +100 / -0 mm on nominal length

Tensile Strength

Three Grades in British Standard:

- Grade 200 ²
- Grade 500
- Grade 650

Note 2: to be specified for plain bar only

Grade of tensile strength based on the following measures:

- 0.2% proof strength (R p0.2) in MPa or N/mm²
- stress ratio: Rm/R p0.2 (min.)
- elongation at fracture: A5 (min.)
- total elongation at maximum force, Agt (min.)