

HIGH YIELD DEFORMED STEEL BARS

SPECIFICATION BS 4449 (97) GR 460B

High yield deformed steel bars for concrete reinforcement in sizes 10-32 mm and 12 meter long are produced by quenching process for superior mechanical properties to specification BS 4449 (97) GR 460B.

CHEMICAL COMPOSITION %

	C	Si	Mn	P	S	N	C.Ev
As specified	max 0.25	-	-	max 0.050	max 0.050	max 0.012	max 0.51
Guaranteed by EISF	max 0.25	max 0.40	max 1.00	max 0.050	max 0.050	max 0.012	max 0.46

MECHANICAL PROPERTIES

	Yield Stress (N/mm ²)	Tensile Strength (N/mm ²)	Elongation (%)
As specified	min 460	min 1.08 x Act Y. S.	min 14
Guaranteed by EISF	Min 480	min 590	min 16

BAR DIMENSIONS

Nominal Diameter (mm)	Nominal Weight (kg/m)	No. of 12m long bars/2 ton bundle
10	0.616	270
12	0.888	188
14	1.208	138
16	1.579	106
18	1.998	84
20	2.466	68
22	2.984	56
25	3.854	44
28	4.834	34
32	6.313	26

Bundles are secured with 4-6 equidistant straps with 5.5 mm wire.

BAR TOLERANCES

Bar length and wt./m. tolerances as per specification.

BAR MARKINGS

