



Kelken Construction Systems  
 550 Hartle Street  
 Suite C  
 Sayreville, NJ 08872  
 (732) 416-6730 FAX (732) 416-6733

### US Metric Chart ASTM A615 Grade 60 Rebar 60 KSI Yield 90 KSI Tensile

Rebar Diameter in. (mm)	Drill Diameter in. (mm)	Embedment Depth Develop 1.25 x Yield in. (mm)	Embedment Depth Develop Tensile in. (mm)	Rebar Yield lb. (kn)	Rebar Tensile lb. (kn)
4 (13)	5/8 (15.9)	5 (127)	6 (152)	12000 (53.4)	18000 (80.1)
5 (16)	3/4 (19.1)	6 (152)	7 (178)	18600 (82.7)	27900 (124.1)
6 (19)	7/8 (22.2)	8 (203)	9 (229)	26400 (117.4)	39600 (176.1)
7 (22)	1 1/8 (28.6)	9 (229)	10 (254)	36000 (160.1)	54000 (240.2)
8 (25)	1 1/4 (31.8)	10 (245)	12 (305)	47400 (210.8)	71100 (316.3)
9 (29)	1 3/8 (34.9)	12 (305)	14 (356)	60000 (266.9)	90000 (400.3)
10 (32)	1 1/2 (38.1)	14 (356)	16 (407)	79200 (352.3)	114300 (508.4)
11 (36)	1 5/8 (41.2)	15 (381)	17 (432)	93600 (416.3)	140400 (624.5)
14 (43)	2 (50.8)	20 (508)	22 (559)	135000 (600.5)	202500 (900.8)
18 (57)	2 1/2 (63.5)	24 (610)	26 (661)	240000 (1067.6)	360000 (1601.4)

Steel Strength ASTM A615 Grade 60 Rebar (Plain or Epoxy Coated)

Yield =  $F_y \times \text{Tensile Stress Area}$

Tensile =  $F_t \times \text{Tensile Stress Area}$

Shear =  $.50 \times \text{Ultimate Steel Strength}$

Based on 3500 psi or greater compressive strength concrete 28 days old.

All values based on properly installed Keligrout/Keligrout 101-p per Technical Data Sheets