



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

**US Metric Chart ASTM F1554 Grade 36
 36 KSI Yield 58 KSI Tensile**

Anchor Diameter in. (mm)	Drill Diameter in. (mm)	Tensile Stress Area	Embed Depth in. (mm)	Yield lb (kn)	Tensile lb. (kn)	Shear lb. (kn)
1/2 (12.7)	5/8 (15.9)	0.142	4 1/4 (108)	5112 (22.7)	8236 (36.64)	4118 (18.32)
5/8 (15.9)	3/4 (19.1)	0.226	6 (152)	8136 (36.2)	13108 (58.31)	6554 (29.20)
3/4 (19.1)	7/8 (22.2)	0.334	6 1/2 (165)	12024 (53.5)	19372 (86.17)	9686 (43.10)
7/8 (22.2)	1 (25.4)	0.462	7 1/2 (169)	16632 (74.0)	26796 (119.20)	13398 (59.60)
1 (25.4)	1 1/8 (28.6)	0.606	8 1/2 (216)	21816 (97.0)	35148 (156.35)	17574 (78.20)
1 1/8 (28.6)	1 1/4 (31.8)	0.763	10 (245)	27468 (122.1)	44254 (196.85)	22127 (98.43)
1 1/4 (31.8)	1 3/8 (34.9)	0.969	12 (205)	34884 (237.4)	56202 (250.00)	28101 (125.00)
1 3/8 (34.9)	1 1/2 (38.1)	1.155	15 (381)	41580 (184.8)	66990 (298.00)	33495 (149.00)
1 1/2 (38.1)	1 3/4 (44.4)	1.405	18 (457)	50580 (344.23)	81490 (362.50)	40745 (181.25)
1 3/4 (44.4)	2 (50.8)	1.900	20 (508)	68400 (224.80)	110200 (490.20)	55100 (245.10)
2 (50.8)	2 1/4 (57.2)	2.500	22 (559)	90000 (400.0)	145000 (645.00)	72500 (322.50)
2 1/4 (57.2)	2 1/2 (63.5)	3.250	26 (660)	117000 (520.00)	188500 (838.50)	94250 (419.25)
2 1/2 (63.5)	2 3/4 (69.9)	4.000	30 (762)	144000 (640.00)	232000 (1032.00)	116000 (516.00)
2 3/4 (69.9)	3 (76.2)	4.930	34 (864)	177480 (788.80)	285940 (1272.00)	142970 (363.00)
3 (76.2)	3 1/4 (82.5)	5.970	40 (1016)	214920 (955.20)	346260 (1540.30)	173130 (770.20)

Steel Strength ASTM F1554 Grade 36
 Yield = $F_y \times$ Tensile Stress Area
 Tensile = $F_t \times$ Tensile Stress Area
 Shear = $.50 \times$ 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