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US Metric Chart ASTM F1554 Grade 55 55 KSI Yield 75 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)	7810 (34.79)	10650 (47.43)	5325 (23.72)
5/8 (15.9)	3/4 (19.1)	0.226	6 (152)	12430 (55.37)	16950 (75.48)	8475 (37.74)
3/4 (19.1)	7/8 (22.2)	0.334	6 1/2 (165)	18370 (81.83)	25050 (111.56)	12525 (55.78)
7/8 (22.2)	1 (25.4)	0.462	7 1/2 (169)	25410 (113.19)	34650 (154.31)	17325 (77.16)
1 (25.4)	1 1/8 (28.6)	0.606	8 1/2 (216)	33330 (148.47)	45450 (202.40)	22725 (101.20)
1 1/8 (28.6)	1 1/4 (31.8)	0.763	10 (245)	41965 (186.94)	57225 (254.84)	28612 (127.42)
1 1/4 (31.8)	1 3/8 (34.9)	0.969	12 (205)	53295 (237.41)	72675 (323.65)	36337 (161.83)
1 3/8 (34.9)	1 1/2 (38.1)	1.155	15 (381)	63525 (282.98)	86625 (385.77)	43312 (192.89)
1 1/2 (38.1)	1 3/4 (44.4)	1.405	18 (457)	77275 (344.23)	105375 (469.27)	52687 (234.64)
1 3/4 (44.4)	2 (50.8)	1.900	20 (508)	104500 (465.50)	142500 (634.60)	71250 (317.30)
2 (50.8)	2 1/4 (57.2)	2.500	22 (559)	137500 (612.50)	187500 (835.00)	93750 (417.50)
2 1/4 (57.2)	2 1/2 (63.5)	3.250	26 (660)	178750 (796.25)	243750 (1085.50)	121875 (542.75)
2 1/2 (63.5)	2 3/4 (69.9)	4.000	30 (762)	220000 (980.00)	300000 (1336.00)	150000 (668.00)
2 3/4 (69.9)	3 (76.2)	4.930	34 (864)	271150 (1207.85)	369750 (1646.62)	184875 (823.31)
3 (76.2)	3 1/4 (82.5)	5.970	40 (1016)	328350 (1462.65)	447750 (1993.98)	223875 (997.00)

Steel Strength ASTM F1554 Grade 55
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