

75mm Spirafix™ Ground Anchor Load Chart

Spirafix Limited Unit 2, 64 Tregwilym Road, Rogerstone Newport NP10 9EJ United Kingdom Tel: +44 (0)1633 890910 Website: www.spirafix.com



lb	kN .	75mm Diameter Spirafix™ Vertical Maximum Working Tensile Loads	Soil Classification					
17640	78.4	These values indicative only. For any application on-site load tests need to be conducted to ascertain accurate values. The area within the black curves	Basic Soil Type	Sub Group	Compaction/ Strength	SPT-N	ASTA Class	
16534	73.5	above the upper curve (0) and 10% below the lower curve (8). (N=60-250) The maximum load is achieved when a steadily increasing pull is applied to 2 (68-85Nm)	Sands	Sand	Very Loose Loose Compact Cemented	0-3 3-8 8-30 30-58	8 5 3	
	68.6	the anchor and it ruptures out of the ground. The ground is deemed to have failed at this point and this is called the Ultimate Load. Acceptable working loads of the anchor are up to 80% of the Ultimate Load, termed the Maximum Working Load, which are shown on the curves below. Above this point the 3 (56-68Nm)	Salius	Sandy Clay/ Sandy Silt	Soft Firm Stiff	3-8 8-30 30-58	5 3 1	
14330	63.7	anchor becomes unstable in the ground and is unable to hold the load. (N=35-50) Quick Reference Load Chart 4 (45-56Nm)		Silts	Very Soft Soft Firm	7-14 14-25 25-60	6 5 4	
13230	58.8	Anchor Code Tensile Load lb Tensile Load kN (N=24-40) SF75-12-1100 2980 to 5950 13.2 to 26.5 (N=24-40)	Silts	Silty Clay	Soft Firm Stiff	7-14 14-25 25-60	6 5 4	
12120 11020	53.9 <u> </u> 49.0 <u> </u>	SF75-12-1320 3860 to 8160 17.2 to 36.3 SF75-12-1760 5070 to 11020 22.6 to 49.1 SF75-12-2200 6610 to 14330 29.4 to 63.8 SF75-12-2640 8380 to 18080 37.3 to 80.4	Clays	Clay	Very Soft Soft Firm Stiff Very Stiff	0-5 4-8 7-14 14-25 35-60	8 7 6 5 3	
9920	44.1	7 (11-23Nm) (N=4-8)		Organic Clay Silt or Sand	Hard	>60 0-5	1 8	
8820	39.2	8 (0-11Nm)↔ (N=0-5)	Peats	Peat	Spongy Plastic	0-5 0-5	8 8	
7720 6610	34.3 29.4	0 Probe	Chalks	Very Weak Weak Moderately Weak Moderately strong to very strong		0-25 25-100 100-250 >250		
5510	24.5	1 SF75-12-2640AC Value Nm 2 Class	Notes:					
4410	19.6	3 4 5 SF75-12-2200AC	The above classifications are outlined in BS 5930 with the exception of chalk and the "Sands" and "Clays" sections have been expanded. Also chalk is					
3310	14.7	6 7 8 SF75-12-1320AC			not covered in the ASTM classification, but for the purposes of predicting loads it has been assigned values. The range of pull out loads in strong chalks and tarmac can be considerably higher than shown			
2200	9.8	SF75-12-1100AC	on the chart and field tests need to be carried out to obtain accurate values.					
lb Maxim	kN num 3.28	3.93 4.59 5.25 5.90 6.56 7.22 7.87 8.53	above a	ndard Penetrat re in accordan andard D1586-	ce with BS137	7:1990 Pa	irt9,	