Spirafix™ Ground Anchor Load Chart

kgs	kN	75mm Diameter Spirafix™ Vertical Maximum Working Tensile Loads	Soil Classification				
8000	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 (N=>250)	Basic Soil Type	Sub Group	Compaction/ Strength	SPT-N	ASTA Class
7500	73.5	represent approximately 80% of results (σ=1.5). 10% of possible values lie above the upper curve (0) and 10% below the lower curve (8). The maximum load is achieved when a steadily increasing pull is applied to 2 (68-85Nm)		Sand	Very Loose Loose Compact Cemented	0-3 3-8 8-30 30-58	8 5 3
7000	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)	Sands	Sandy Clay/ Sandy Silt	Soft Firm Stiff	3-8 8-30 30-58	5 3 1
6500	63.7	anchor becomes unstable in the ground and is unable to hold the load. (N=35-50) 4 (45-56Nm)		Silts	Very Soft Soft Firm	7-14 14-25 25-60	6 5 4
6000	58.8	Anchor Code Tensile Load kgs Tensile Load kN SF75-12-1100 1350 to 2700 13.2 to 26.5	Silts	Silty Clay	Soft Firm	7-14 14-25	6 5
5500	53.9	SF75-12-1320 1750 to 3700 17.2 to 36.3 5 (34-45Nm) (N=14-25) SF75-12-1760 2300 to 5000 22.6 to 49.1 (N=14-25)			Stiff Very Soft Soft	25-60 0-5 4-8	4 8 7
5000	49.0	SF75-12-2200 3000 to 6500 29.4 to 63.8 6 (23-34Nm) (N=7-14) SF75-12-2640 3800 to 8200 37.3 to 80.4 6 (23-34Nm) (N=7-14)	Clays	Clay	Firm Stiff Very Stiff	7-14 14-25 35-60	6 5 3
1500	44.1	7 (11-23Nm) (N=4-8)	-	Organic Clay Silt or Sand	Hard Firm	>60 0-5	1 8
1000	39.2	8 (0-11Nm) (N=0-5)	Peats	Peat	Spongy Plastic	0-5 0-5	8 8
8500	34.3	Typical SPT-N	Chalks	Weak 25		0-25 25-100 100-250	6 2
3000	29.4	0 Values Probe		Moderately st strong		>250	0
2500	24.5	SF75-12-2640AC Value Nm ASTM Class	Notes:				
2000	19.6	SF75-12-2200AC	"Clays" sections have been expanded. Also chalk is				
1500	14.7	6 7 8 SF75-12-1760AC SF75-12-1320AC	purpose values.	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			
000	9.8	SF75-12-1320AC	 can be considerably higher than shown on the chart and field tests need to be carried out to obtain accurate values. 				
kgs Maxin Vorking	kN num 1000 g Load	1200 1400 1600 1800 2000 2200 2400 2600 Depth of Spirafix [™] - mm ▶ ∞	above a ASTM S	andard Penetra are in accordan tandard D1586 .imited 2015, A	ice with BS137 -84 and AS 128	7:1990 Pa 9.6.3.1-1	art9, 993