Installations Test Results

PERFORMANCE VALUES (CONCRETE C30/35)

Excalibur Screwbolts	M8		M10		M12	
Embedment Depth (mm)	40	60	50	75	60	90
Ultimate Load kN Tension	14.60	21.0	18.8	33.4	26.5	43
Safe Working Load kN 3:1	4.87	7.0	6.27	11.13	8.83	14.33
Ultimate Load kN Shear	-	25.50	28	46	59.8	59.8
Safe Working Load kN 3:1	-	8.50	9.33	15.33	19.93	19.93
Minimum Edge Distance (mm)						
Tension	40	-	-	50	-	60
Shear	80	-	-	100	-	120
Minimum Spacing (mm)						
Tension	80	-	-	120	-	150

Minimum Edge Distance equals 5 x Anchor Diameter i.e M8 = 40mm
For Distances between 5 x Anchor Diameter and 10 x Anchor Diameter
Apply Reduction Factors as follows;

EDGE REDUCTION DATA (CONCRETE C30/35)

Excalibur	Edge (mm)	40	50	60	70	80	90	100	110	120
M8	Tension	0.56	0.59	0.65	0.70	1.00	-	-	-	-
M10		-	0.58	0.66	0.75	0.83	0.92	1.00	-	-
M12		-	-	0.60	0.66	0.73	0.79	0.86	0.93	1.00
M8	Shear	0.32	0.49	0.66	0.83	1.00	-	-	-	-
M10		-	0.32	0.46	0.60	0.74	0.87	1.00	-	-
M12		-	-	0.33	0.39	0.51	0.63	0.76	0.88	1.00

Minimum Hole Spacing equals 5 x Anchor Diameter i.e M8 = 40mm
For Distances between 5 x Anchor Diameter and 10 x Anchor Diameter
Apply Reduction Factors as follows;

SPACE REDUCTION DATA (CONCRETE C30/35)

Excalibur	Edge (mm)	40	50	60	70	80	90	100	120	140
M8	Tension	0.57	0.67	0.70	0.78	0.86	0.95	1.00	-	-
M10		-	0.82	0.84	0.87	0.89	0.92	0.95	1.00	-
M12		-	-	0.70	0.75	0.80	0.85	0.90	0.95	1.00

The published performance values are compiled from independent tests in accordance with the methods described in the European Organisation of Technical Approval (EOTA) Guideline (ETAG), ETAG No.001 1997.