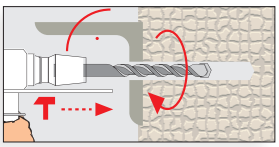
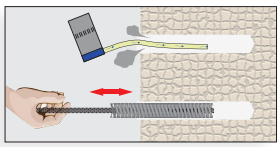
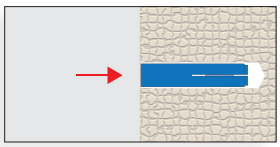
Method of Statement



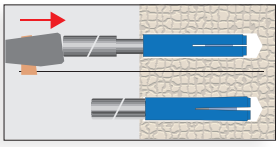
Make the drill hole



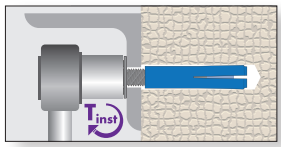
Clean the drill hole



Drive in the plug



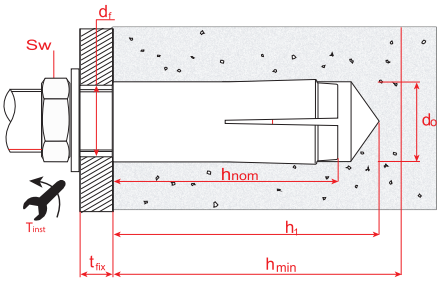
Drive the cone into the plug with a setting tool



Tighten with a torque spanner to the predetermined value Tinst

Installation Data

Size			M6x25	M8x25	M8x30	M10x25	M10x40	M12x25	M12x50	M16x65	M20x80
d_o	Nominal diameter of drill bit	[mm]	8	10	10	12	12	15	15	20	25
T_{in}	Installation torque moment	[Nm]	4	11	11	17	17	38	38	60	100
d_f	Fixture diameter	[mm]	7	9	9	12	12	14	14	18	22
h_1	Hole depth	[mm]	27	27	33	27	43	27	54	70	86
h_{nom}	Installation depth	[mm]	25	25	30	25	40	25	50	65	80
h_{min}	Minimum concrete thickness	[mm]	100	100	100	100	100	100	100	130	160
S_{min}	Minimum spacing	[mm]	60	60	60	80	80	100	100	130	160
S_{min}	Minimum edge distance	[mm]	105	-	105	-	140	-	175	230	280



Technical Data

Resistances in C20/25 Non-cracked Concrete, without effects of edge distance or spacing, BSUA / BSUAR - A4

Size	Design Tension Resistance N_{Rd}	Design Shear Resistance V_{Rd}	Recommended Tension Load N_{rec}	Recommended Shear Load V_{rec}
	[kN]	[kN]	[kN]	[kN]
M6x25	3.50	4.20	2.50	3.00
M8x30	4.60	5.52	3.29	3.94
M10x40	6.07	7.28	4.34	5.20
M12x50	8.49	11.88	6.06	8.49
M16x65	12.58	26.00	8.98	18.57
M20x80	17.17	38.00	12.27	27.14

Resistances in C20/25 Cracked Concrete, without effects of edge distance or spacing, BSUA / BSUAR - A4

Size	Design Tension Resistance N_{Rd}	Design Shear Resistance V_{Rd}	Recommended Tension Load N_{rec}	Recommended Shear Load V_{rec}
	[kN]	[kN]	[kN]	[kN]
M6x25	1.11	1.11	0.79	0.79
M8x30	1.67	1.67	1.19	1.19
M10x40	2.38	2.38	1.70	1.70
M12x50	3.57	3.57	2.55	2.55
M16x65	5.71	5.71	4.08	4.08
M20x80	9.52	9.52	6.80	6.80