Installation instruction fischer concrete screw ULTRACUT FBS II A4

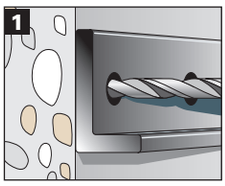
fischer ULTRACUT FBS II US A4

fischer ULTRACUT FBS II SK A4

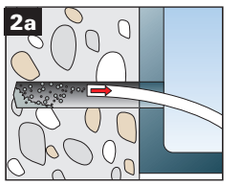
fischer connecting nut and Torx A4

fischer socket nut hexagon A4

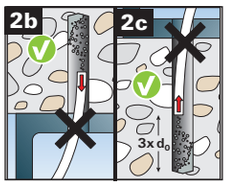
Installation according to ETA - 17 / 0740



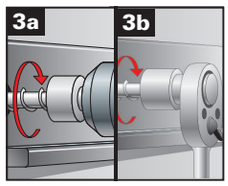
Drill the hole using hammer-drill, hollow drill or diamond core drill.



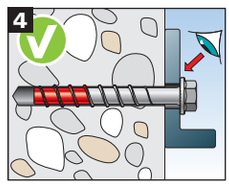
Clean the drill hole.
Step 2 can be omitted in the preparation of the hole with hollow drill (complete).



Cleaning drill hole can be omitted, if drilling vertically upwards or if drilling vertically downwards and the hole depth has been increased. We recommend to increase the drill hole depth by an additional 3 x drill Ø when drilling in soils.



Installation with any torque impact screw driver at a max. mentioned torque moment ($T_{imp,max}$). and with simultaneous axial pressure on the torque impact.

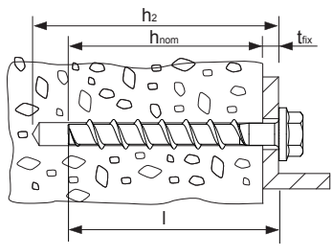


After installation a further turning of the screw must not be possible. The head of the screw must be supported on the fixture and is not damaged.

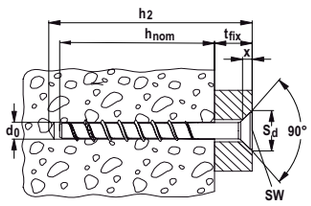
Installation parameters concrete C 20/25 - C50/60

ULTRACUT FBS II A4 Concrete screw		8	10	12
Drill hole diameter [mm]	d_0	8	10	12
Nominal screw-in depth h_{nom}	h_{nom}	65	85	100
Drill hole depth (push-through installation) [mm]	$h_2 \geq$	l + 10	l + 10	l + 10
Clearance hole diameter [mm]	d_f	10,6 - 12	12,8 - 14	14,8 - 16
Maximum torque for in-stallation with impact screw driver in concrete	$T_{imp, max}$	300	300	450
Maximum torque for manual installation in concrete	T_{max}	50	75	120
Width across flat	SW	13	15	17
Drive	Torx	T 40 (SK)	T 50 (SK)	–

Type US

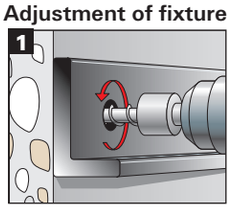


Type SK

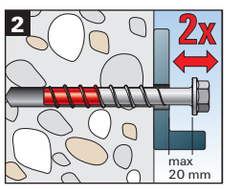


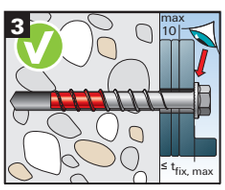
	X [mm]	S_d [mm]
ULTRACUT FBS II 8 A4	6	20
ULTRACUT FBS II 10 A4	7	23

Adjustment of fixture



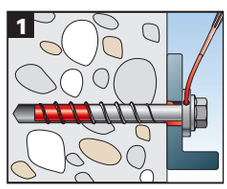
Optional: It is permissible to adjust the screw two times.





Therefore the screw may be tighten to a maximum of 20 mm of the surface of the initial fixture. The total permissible thickness of shims added during the adjustment process is 10 mm.

Filling (e.g. for Seismic)



For Seismic Performance Category C2 applications: The gap between screw shaft and fixture must be filled with mortar, compressive strength ≥ 50 N/mm² e.g.: FIS V, FIS EM, FIS HB oder FIS SB.

Installation parameters masonry (not regulated in ETA-17/0740)

ULTRACUT FBS II A4 Concrete screws					
Base material	**Compressive strength class [N/mm²]**	**Size**	[mm]	8	10
		h_{nom}	[mm]	65	85
Solid clay brick (EN771-1)	≥ 12	T_{inst}	[Nm]	10	10
Solid sand-lime brick (EN771-2)	≥ 12	T_{inst}	[Nm]	15	15
Aerated concrete (EN771-4)	≥ 6	T_{inst}	[Nm]	5	5

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