

Installation instruction fischer concrete screw ULTRACUT FBS II D6



ULTRACUT FBS II D6 P/LP



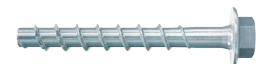
ULTRACUT FBS II D6 SK



ULTRACUT FBS II D6 M10/M8



ULTRACUT FBS II D6 M8/M10I



ULTRACUT FBS II D6 US

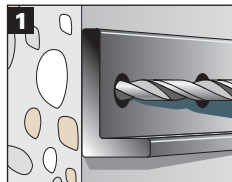


Connecting
nut and Torx

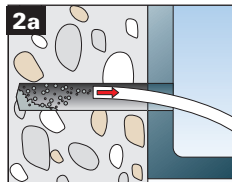


Socket nut hexagon

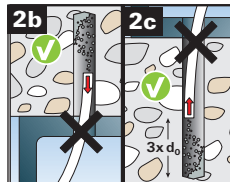
Installation according to ETA - 18/0242 and ETA - 15/0352



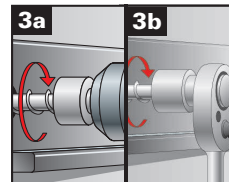
1 Drill the hole using hammer-drill.



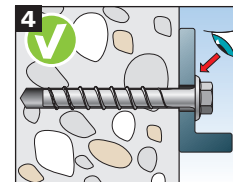
2a Clean the drill hole.



2b 2c Cleaning drill hole can be omitted, if drilling vertically upwards/or 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.



3a 3b 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.

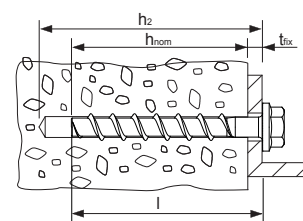


4 After installation a further turning of the screw must not be possible. The head of the screw must be supported on the fixture and is not damaged.

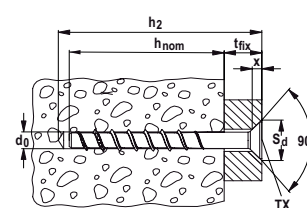
Installation parameters concrete C 20/25 - C50/60

ULTRACUT FBS II D6 Concrete screw		US, SK, P, LP, M, I	
Drill hole diameter [mm]	d_0	6	
Nominal screw-in depth h_{nom} [mm]	h_{nom}	$25 \leq h_{nom} < 35$	$35 \leq h_{nom} \leq 55$
Drill hole depth (push-through installation) [mm]	$h_2 \geq$	$l + 5$	$l + 10$
Drill hole depth (push-through installation) [mm]	$h_1 \geq$	$l + 5$	$l + 10$
Clearance hole diameter [mm]	d_f	8	
Maximum torque for installation with impact screw driver in concrete	$T_{imp,max}$	80	450
Maximum torque for manual installation in concrete	T_{max}	12	25
Width across flat (US, M8)	SW	10	
Width across flat (M10, I)	SW	13	
Drive (SK, P, LP)	Torx	T 30	

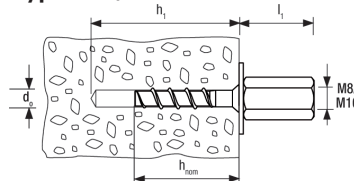
Type US



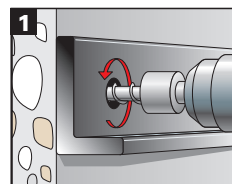
Type SK



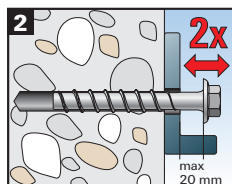
Type M8, M10



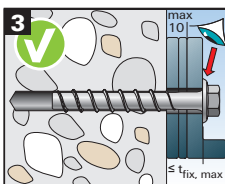
Adjustment of fixture



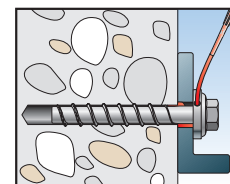
Optional: It is permissible to adjust the screw two times.



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 C1 applications: The gap between screw shaft and fixture must be filled with mortar, compressive strength $\geq 50 \text{ N/mm}^2$ e.g.: FIS V, FIS EM Plus, FIS HB or FIS SB.

Installation parameters masonry

ULTRACUT FBS II D6 Concrete screws		US, SK, P, LP, M, I	
Base material	Compressive strength class $[N/mm^2]$	Size	
		h_{nom}	[mm]
			55
Solid clay brick (EN771-1)	≥ 12	T_{inst}	[Nm]
Solid sand-lime brick (EN771-2)	≥ 12	T_{inst}	[Nm]
Aerated concrete (EN771-4)	≥ 6	T_{inst}	[Nm]

Additional installation parameters prestressed concrete hollow ceilings

ULTRACUT FBS II D6 Concrete screws		US, SK, P, LP, M, I	
Distance to clamping strands [mm]	$a_p \geq$	50	
Bottom flange thickness	$d_b \geq$	25	
Minimum attachment thickness	$t_{fix} \geq$	$l - d_b - 30 \text{ mm}$	
Maximum torque for installation with impact screw driver in concrete	$T_{imp,max}$	80 (450 ¹)	
Maximum torque for manual installation in concrete	T_{max}	12 (25 ¹)	

¹ Values for $d_b \geq 35 \text{ mm}$ and $h_{nom} \geq 35 \text{ mm}$

