

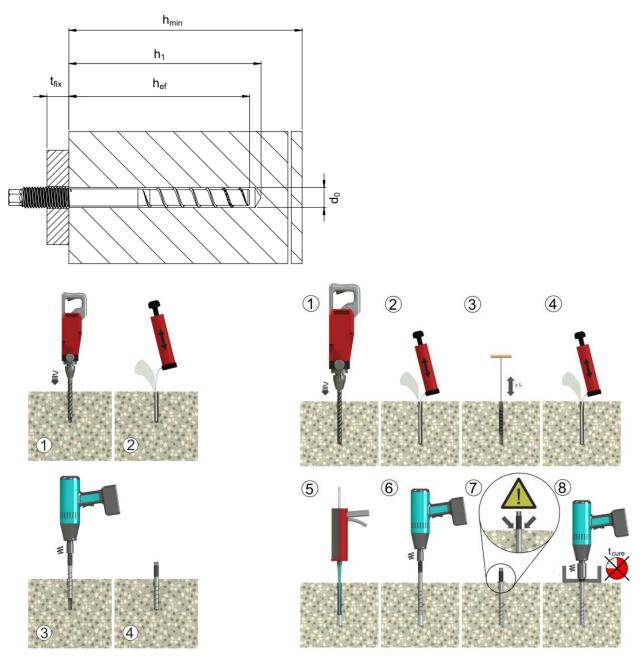








Technical data Toge concrete screw TSM 14x165 M 16x35 SW 12



Installation instruction without chemical component

Installation instruction with chemical component





ETA-06/0124





technical characteristics without fire exposure				
			TSM 14 x כסו	
			without chemical component	with chemical component
drill bit diameter	d₀	[mm]	14	14
depth of drill hole	h₁	[mm]	135	125
embedment depth of anchor	h _{nom}	[mm]	125	125
effective anchorage depth	h _{ef}	[mm]	125	125
minimum thickness of member	h _{min}	[mm]	200	195
minimum edge distance	C _{min}	[mm]	100	60
minimum spacing	Smin	[mm]	100	60
characteristic edge distance	C _{cr,N}	[mm]	1,5 x h _{ef}	
characteristic spacing	S _{cr,N}	[mm]	3 x h _{ef}	
installation torque	T _{inst}	[Nm]	80	
permissible tension load in non- cracked concrete C 20/25 ^{1) 2)}	N _{per}	[kN]	23,9	28,3
permissible tension load in cracked concrete C 20/25 ^{1) 2)}	N _{per}	[kN]	17,1	28,3
permissible shear load in cracked and non cracked concrete C 20/25 to C 50/60 ^{1) 2)}	V _{per}	[kN]	30,5	30,5

¹⁾ The partial safety factor for material resistance γ_M = 1.5 as well the partial safety factor for load actions γ_F = 1,4 are considered.

²⁾ The value applies without influence of spacing and edge distance.