

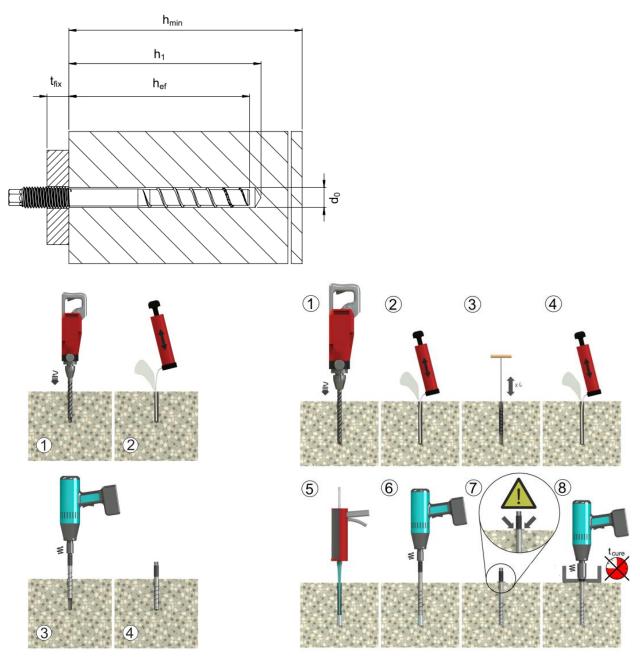








## Technical data Toge concrete screw TSM 14x165 M 16x35 SW 12



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 <sub>nom</sub>	[mm]	125	125
effective anchorage depth	h <sub>ef</sub>	[mm]	125	125
minimum thickness of member	h <sub>min</sub>	[mm]	200	195
minimum edge distance	C <sub>min</sub>	[mm]	100	60
minimum spacing	Smin	[mm]	100	60
characteristic edge distance	C <sub>cr,N</sub>	[mm]	1,5 x h <sub>ef</sub>	
characteristic spacing	S <sub>cr,N</sub>	[mm]	3 x h <sub>ef</sub>	
installation torque	T <sub>inst</sub>	[Nm]	80	
permissible tension load in non- cracked concrete C 20/25 <sup>1) 2)</sup>	N <sub>per</sub>	[kN]	23,9	28,3
permissible tension load in cracked concrete C 20/25 <sup>1) 2)</sup>	N <sub>per</sub>	[kN]	17,1	28,3
permissible shear load in cracked and non cracked concrete C 20/25 to C 50/60 <sup>1) 2)</sup>	V <sub>per</sub>	[kN]	30,5	30,5

<sup>1)</sup> The partial safety factor for material resistance  $\gamma_M$  = 1.5 as well the partial safety factor for load actions  $\gamma_F$  = 1,4 are considered.

<sup>2)</sup> The value applies without influence of spacing and edge distance.