

# Insulation anchor TIS

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### Material

- screw: galvanised steel
- cap: polyethylene (3 colors)

### Base material

- approved for concrete C 20/25 bis C 50/60
- cracked and non-cracked concrete

### Product features

- approved for multiple fastening of insulation panels
- high load-bearing capacity and non-cracked concrete
- small drill hole
- quick and safe installation



# Insulation anchor TIS

## Technical characteristics without fire exposure

			Toge insulation anchor TIS
drill bit diameter	$d_0$	[mm]	6
depth of drill hole	$h_1 \geq$	[mm]	30
effective anchorage depth	$h_{ef} \geq$	[mm]	25
minimum thickness of member	$h_{min}$	[mm]	80
edge distance	$c$	[mm]	60
spacing	$s$	[mm]	120
permissible load in cracked and non-cracked concrete C20/25 - C50/60 <sup>1)2)</sup>	$N_{zul}$	[kN]	0,22

- 1) The partial safety factor for material resistance from the approval  $\gamma_M = 1.5$  as well a partial safety factor for load actions  $\gamma_F = 1.4$  were considered for determining the load



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## Technical characteristics under fire exposure

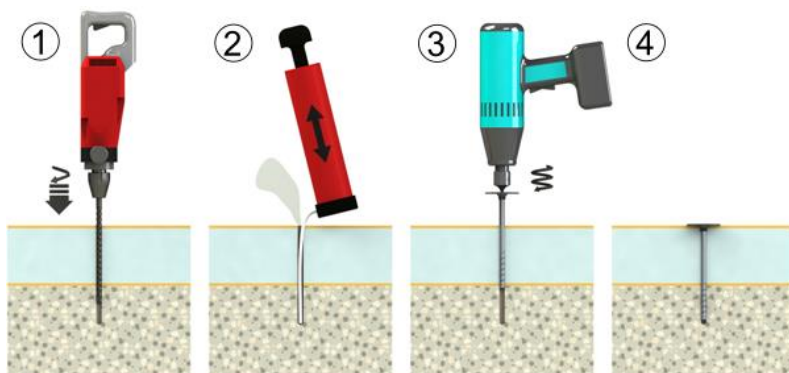
			Toge Isolierschraube TIS
fire resistance class			
R 30	permissible load $F_{fi,per,30}^{1)}$	[kN]	0,34
R 60	permissible load $F_{fi,per,60}^{1)}$	kN]	0,31
R 90	permissible load $F_{fi,per,90}^{1)}$	[kN]	0,21
R 120	permissible load $F_{fi,per,120}^{1)}$	[kN]	0,17
R 180	permissible load $F_{fi,per,180}^{1)}$	[kN]	0,12
R 30 - R 120	spacing $S_{fi}$	[mm]	120
	edge distance $C_{fi}$	[mm]	60

- 1) The partial safety factor for material resistance from the approval  $\gamma_M = 1.0$  as well a partial safety factor for load actions  $\gamma_F = 1.0$  were considered for determining the load.

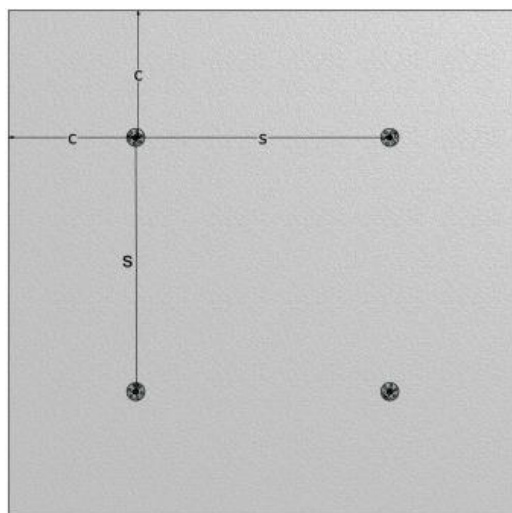


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## Installation instructions



- 1) set drill hole
- 2) clean out drill hole from the base
- 3) knock insulation fastener through the insulation panel with a hammer
- 4) anchor disc must fully contact the insulation panel



**Minimum 4 anchors per square meter for insulation panel. The dimension between axes and edge distance is valid without fire exposure.**

