

Insulation anchor TID, TID-K

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Material

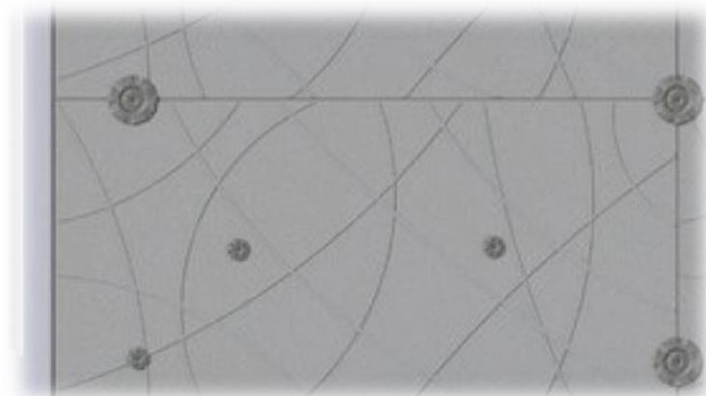
- galvanised steel– TID S
- A2 stainless steel – TID R
- cap: polythylene

Base material

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

Product features

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

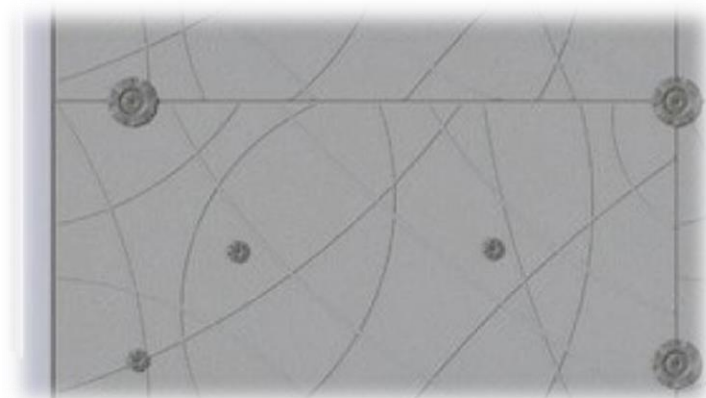


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Technical characteristics without fire exposure

| | | | Toge insulation anchor TID |
|--|---------------|------|----------------------------|
| drill bit diameter | d_0 | [mm] | 8 |
| depth of drill hole | $h_1 \geq$ | [mm] | 45 |
| effective anchorage depth | $h_{ef} \geq$ | [mm] | 40 |
| 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 ¹⁾²⁾ | N_{zul} | [kN] | 0,074 |

- 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

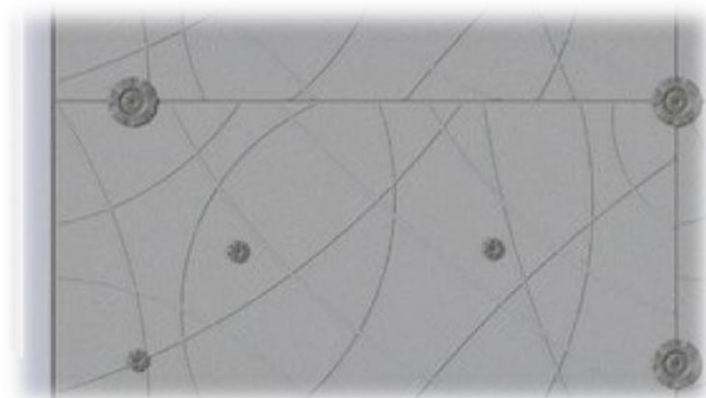


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Technical characteristics under fire exposure

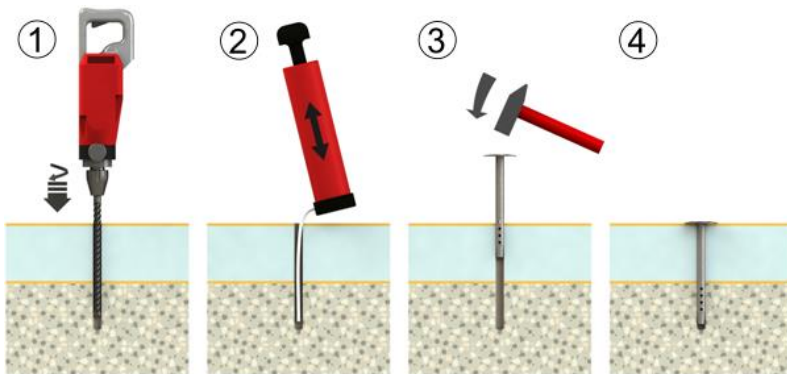
| | | | Toge insulation anchor TID |
|-----------------------|--|------|----------------------------|
| fire resistance class | | | |
| R 30 | permissible load $F_{fi,per,30}^{1)}$ | [kN] | 0,09 |
| R 60 | permissible load $F_{fi,per,60}^{1)}$ | kN] | 0,09 |
| R 90 | permissible load $F_{fi,per,90}^{1)}$ | [kN] | 0,09 |
| R 120 | permissible load $F_{fi,per,120}^{1)}$ | [kN] | 0,09 |
| R 180 | permissible load $F_{fi,per,180}^{1)}$ | [kN] | 0,06 |
| 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.

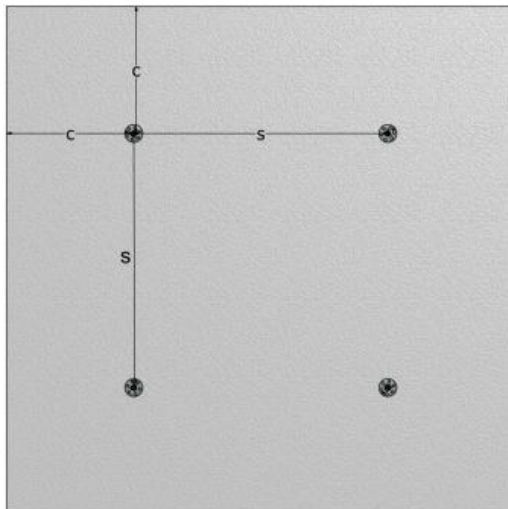


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Installation instructions



- 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. Assumed that an application is forced with fire exposure, please check the anchor layout from the general appraisal certificate No P-3444/7404-MPA BS.

