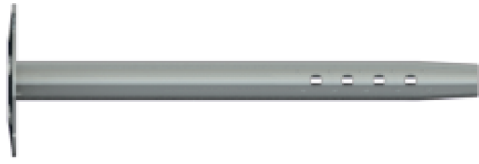




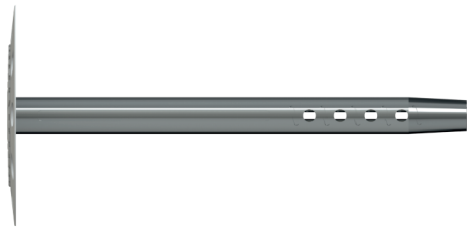
Insulation anchor TID, TID-K



TID
head diameter 35 mm



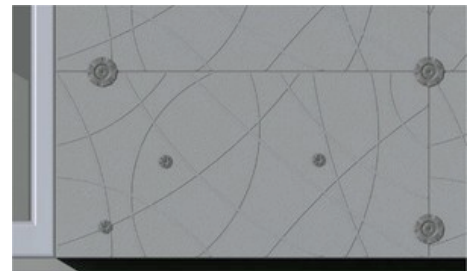
Plastic cap TID-E
for TID



TID-K
(with fixed plastic
cap as plaster base)
54 mm dia., white



Additional discs
80 mm diameter



Material:

- galvanised steel - TID S
- A2 stainless steel - TID R
- cap: polyethylene

Base material:

- approved for concrete strength classes from 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

Product overview:

Steel

Item number	Designation	Depth of drill hole	Embedment depth of anchor	Depth of drill hole ¹⁾	Embedment depth of anchor ¹⁾	Maximum thickness of fixture	Qty.
031 061 080	TIDS 80	35 mm	30 mm	45 mm	40 mm	50 mm	250
031 061 110	TIDS 110	35 mm	30 mm	45 mm	40 mm	75 mm	250
031 061 120	TIDS 120	45 mm	40 mm	45 mm	40 mm	80 mm	250
031 061 140	TIDS 140	45 mm	40 mm	45 mm	40 mm	100 mm	250
031 061 170	TIDS 170	50 mm	45 mm	45 mm	40 mm	125 mm	250
031 061 200	TIDS 200	55 mm	50 mm	45 mm	40 mm	150 mm	250
031 061 250	TIDS 250	55 mm	50 mm	45 mm	40 mm	200 mm	200
031 061 300	TIDS 300	55 mm	50 mm	45 mm	40 mm	250 mm	200
031 361 080	TIDS-K 80	35 mm	30 mm	45 mm	40 mm	50 mm	250
031 361 110	TIDS-K 110	45 mm	40 mm	45 mm	40 mm	75 mm	250
031 361 140	TIDS-K 140	45 mm	40 mm	45 mm	40 mm	100 mm	250
031 361 170	TIDS-K 170	50 mm	45 mm	45 mm	40 mm	125 mm	125
031 361 200	TIDS-K 200	55 mm	50 mm	45 mm	40 mm	150 mm	125
031 361 250	TIDS-K 250	55 mm	50 mm	45 mm	40 mm	200 mm	125

¹⁾ The depth of the drill hole, embedment depth of the anchor and fastening height deviate to a degree in the application depending on the approval.

A2 stainless steel

Item number	Designation	Depth of drill hole	Embedment depth of anchor	Depth of drill hole ¹⁾	Embedment depth of anchor ¹⁾	Maximum thickness of fixture	Qty.
031 063 080	TIDR 80	35 mm	30 mm	45 mm	40 mm	50 mm	250
031 063 110	TIDR 110	35 mm	30 mm	45 mm	40 mm	75 mm	250
031 063 120	TIDR 120	45 mm	40 mm	45 mm	40 mm	80 mm	250
031 063 140	TIDR 140	45 mm	40 mm	45 mm	40 mm	100 mm	250
031 063 170	TIDR 170	50 mm	45 mm	45 mm	40 mm	250 mm	250
031 063 200	TIDR 200	55 mm	50 mm	45 mm	40 mm	150 mm	250
031 063 250	TIDR 250	55 mm	50 mm	45 mm	40 mm	200 mm	200
031 063 300	TIDR 300	55 mm	50 mm	45 mm	40 mm	250 mm	200
031 363 080	TIDR-K 80	35 mm	30 mm	45 mm	40 mm	50 mm	250
031 363 110	TIDR-K 110	45 mm	40 mm	45 mm	40 mm	75 mm	250
031 363 140	TIDR-K 140	45 mm	40 mm	45 mm	40 mm	100 mm	250
031 363 170	TIDR-K 170	50 mm	45 mm	45 mm	40 mm	125 mm	125
031 363 200	TIDR-K 200	55 mm	50 mm	45 mm	40 mm	150 mm	125
031 363 250	TIDR-K 250	55 mm	50 mm	45 mm	40 mm	200 mm	125

¹⁾ The depth of the drill hole, embedment depth of the anchor and thickness of fixture deviate to a degree in the application depending on the approval.

Cover cap TID-E:

Item number	Designation	Diameter	Qty.
042 000 000	TID-E beige	38 mm	250
042 000 100	TID-E white	38 mm	250
042 000 200	TID-E grey	38 mm	250
042 000 300	TID-E light grey	38 mm	250
042 000 600	TID-E anthracite grey	38 mm	250

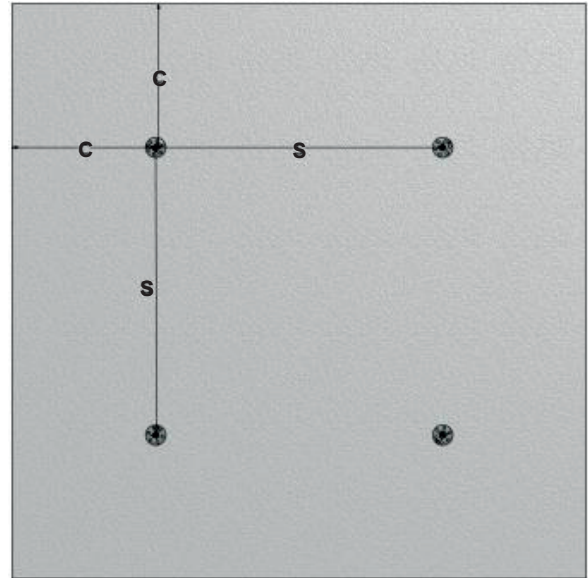
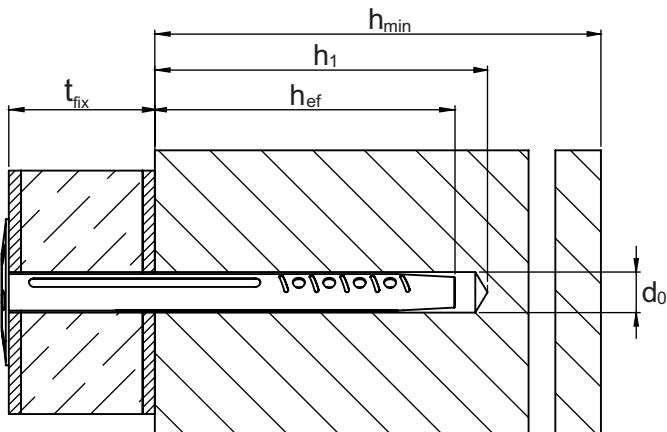
Additional discs:

Item number	Designation	Diameter	Qty.
030 156	TIDS T	80 mm	250
030 157	TIDR T	80 mm	250
030 158	TIDS T o. P. ¹⁾	80 mm	250

¹⁾ Additional disc without marking



Technical data:



At least 4 anchors per m² of panel.

Technical characteristics without fire exposure

Technical characteristics without fire exposure			
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
diameter of plastic disc	d_{kt}	[mm]	37
permissible load in cracked and non-cracked concrete C20/25 - C50/60 ¹⁾²⁾	N_{per}	[kN]	0.074

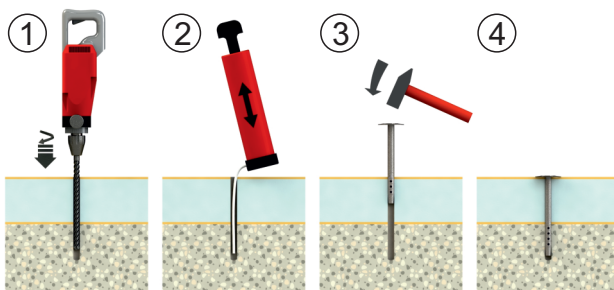
¹⁾ The partial safety factor for material resistance from the approval $\gamma_M = 1.5$ as well a partial safety factor for load actions $\gamma_F = 1.4$ were considered for determining the load.

Technical characteristics under fire exposure

Technical characteristics under fire exposure			
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 30 to R 120	spacing s_{fi}	[mm]	120
	edge distance c_{fi}		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.

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