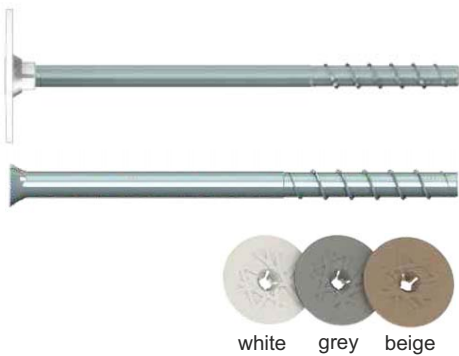


Isolierschraube TIS



Material:

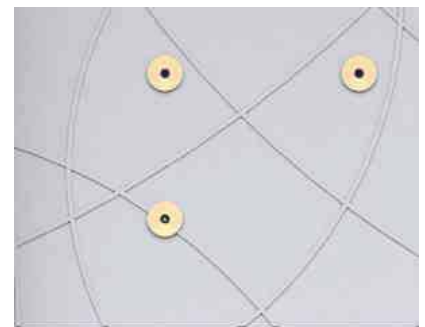
- screw: zinc plated steel or TOGE KORR coated
- Cap: polyethylene (3 colors)

Base material:

- approved for concrete strength classes from C20/25 to C50/60
- 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 with galvanised steel screw:

Item number	Designation	Depth of drill hole	Embedment depth of anchor	Maximum thickness of fixture	Qty.
031 069 050	TIS 50 GREY	30 mm	25 mm	25 mm	100
031 069 075	TIS 75 GREY	30 mm	25 mm	50 mm	100
031 069 085	TIS 85 GREY	30 mm	25 mm	60 mm	100
031 069 100	TIS 100 GREY	30 mm	25 mm	75 mm	100
031 069 125	TIS 125 GREY	30 mm	25 mm	100 mm	100
031 069 135	TIS 135 GREY	30 mm	25 mm	110 mm	100
031 069 150	TIS 150 GREY	30 mm	25 mm	125 mm	100
031 069 175	TIS 175 GREY	30 mm	25 mm	150 mm	100
031 069 200	TIS 200 GREY	30 mm	25 mm	175 mm	100
031 069 225	TIS 225 GREY	30 mm	25 mm	200 mm	100
031 069 250	TIS 250 GREY	30 mm	25 mm	225 mm	100
031 069 275	TIS 275 GREY	30 mm	25 mm	250 mm	100
031 069 300	TIS 300 GREY	30 mm	25 mm	275 mm	100
031 069 325	TIS 325 GREY	30 mm	25 mm	300 mm	100

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Item number	Designation	Depth of drill hole	Embedment depth of anchor	Maximum thickness of fixture	Qty.
031 169 050	TIS 50 WHITE	30 mm	25 mm	25 mm	100
031 169 075	TIS 75 WHITE	30 mm	25 mm	50 mm	100
031 169 085	TIS 85 WHITE	30 mm	25 mm	60 mm	100
031 169 100	TIS 100 WHITE	30 mm	25 mm	75 mm	100
031 169 125	TIS 125 WHITE	30 mm	25 mm	100 mm	100
031 169 135	TIS 135 WHITE	30 mm	25 mm	110 mm	100
031 169 150	TIS 150 WHITE	30 mm	25 mm	125 mm	100
031 169 175	TIS 175 WHITE	30 mm	25 mm	150 mm	100
031 169 200	TIS 200 WHITE	30 mm	25 mm	175 mm	100
031 269 225	TIS 225 WHITE	30 mm	25 mm	200 mm	100
031 169 250	TIS 250 WHITE	30 mm	25 mm	225 mm	100
031 169 275	TIS 275 WHITE	30 mm	25 mm	250 mm	100
031 169 300	TIS 300 WHITE	30 mm	25 mm	275 mm	100
031 169 325	TIS 325 WHITE	30 mm	25 mm	300 mm	100

Item number	Designation	Depth of drill hole	Embedment depth of anchor	Maximum thickness of fixture	Qty.
031 269 050	TIS 50 BEIGE	30 mm	25 mm	25 mm	100
031 269 075	TIS 75 BEIGE	30 mm	25 mm	50 mm	100
031 269 085	TIS 85 BEIGE	30 mm	25 mm	60 mm	100
031 269 100	TIS 100 BEIGE	30 mm	25 mm	75 mm	100
031 269 125	TIS 125 BEIGE	30 mm	25 mm	100 mm	100
031 269 135	TIS 135 BEIGE	30 mm	25 mm	110 mm	100
031 269 150	TIS 150 BEIGE	30 mm	25 mm	125 mm	100
031 269 175	TIS 175 BEIGE	30 mm	25 mm	150 mm	100
031 269 200	TIS 200 BEIGE	30 mm	25 mm	175 mm	100
031 269 225	TIS 225 BEIGE	30 mm	25 mm	200 mm	100
031 269 250	TIS 250 BEIGE	30 mm	25 mm	225 mm	100
031 269 275	TIS 275 BEIGE	30 mm	25 mm	250 mm	100
031 269 300	TIS 300 BEIGE	30 mm	25 mm	275 mm	100
031 269 325	TIS 325 BEIGE	30 mm	25 mm	300 mm	100

Product overview of galvanised TIS screw :

Item number	Designation	Depth of drill hole	Embedment depth of anchor	Maximum thickness of fixture	Qty.
031 969 050	Schraube TIS 50	30 mm	25 mm	25 mm	100
031 969 075	Schraube TIS 75	30 mm	25 mm	50 mm	100
031 969 085	Schraube TIS 85	30 mm	25 mm	60 mm	100
031 969 100	Schraube TIS 100	30 mm	25 mm	75 mm	100
031 969 125	Schraube TIS 125	30 mm	25 mm	100 mm	100
031 969 135	Schraube TIS 135	30 mm	25 mm	110 mm	100
031 969 150	Schraube TIS 150	30 mm	25 mm	125 mm	100
031 969 175	Schraube TIS 175	30 mm	25 mm	150 mm	100
031 969 200	Schraube TIS 200	30 mm	25 mm	175 mm	100
031 969 225	Schraube TIS 225	30 mm	25 mm	200 mm	100
031 969 250	Schraube TIS 250	30 mm	25 mm	225 mm	100
031 969 275	Schraube TIS 275	30 mm	25 mm	250 mm	100
031 969 300	Schraube TIS 300	30 mm	25 mm	275 mm	100
031 969 325	Schraube TIS 325	30 mm	25 mm	300 mm	100

Product overview with TOGE KORR coated screw:

Item number	Designation	Depth of drill hole	Embedment depth of anchor	Maximum thickness of fixture	Qty.
031 068 050	TIS KORR 50 GREY	30 mm	25 mm	25 mm	100
031 068 075	TIS KORR 75 GREY	30 mm	25 mm	50 mm	100
031 068 085	TIS KORR 85 GREY	30 mm	25 mm	60 mm	100
031 068 100	TIS KORR 100 GREY	30 mm	25 mm	75 mm	100
031 068 125	TIS KORR 125 GREY	30 mm	25 mm	100 mm	100
031 068 135	TIS KORR 135 GREY	30 mm	25 mm	110 mm	100
031 068 150	TIS KORR 150 GREY	30 mm	25 mm	125 mm	100
031 068 175	TIS KORR 175 GREY	30 mm	25 mm	150 mm	100
031 068 200	TIS KORR 200 GREY	30 mm	25 mm	175 mm	100
031 068 225	TIS KORR 225 GREY	30 mm	25 mm	200 mm	100
031 068 250	TIS KORR 250 GREY	30 mm	25 mm	225 mm	100
031 068 275	TIS KORR 275 GREY	30 mm	25 mm	250 mm	100
031 068 300	TIS KORR 300 GREY	30 mm	25 mm	275 mm	100
031 068 325	TIS KORR 325 GREY	30 mm	25 mm	300 mm	100

Item number	Designation	Depth of drill hole	Embedment depth of anchor	Maximum thickness of fixture	Qty.
031 168 050	TIS KORR 50 WHITE	30 mm	25 mm	25 mm	100
031 168 075	TIS KORR 75 WHITE	30 mm	25 mm	50 mm	100
031 168 085	TIS KORR 85 WHITE	30 mm	25 mm	60 mm	100
031 168 100	TIS KORR 100 WHITE	30 mm	25 mm	75 mm	100
031 168 125	TIS KORR 125 WHITE	30 mm	25 mm	100 mm	100
031 168 135	TIS KORR 135 WHITE	30 mm	25 mm	110 mm	100
031 168 150	TIS KORR 150 WHITE	30 mm	25 mm	125 mm	100
031 168 175	TIS KORR 175 WHITE	30 mm	25 mm	150 mm	100
031 168 200	TIS KORR 200 WHITE	30 mm	25 mm	175 mm	100
031 168 225	TIS KORR 225 WHITE	30 mm	25 mm	200 mm	100
031 168 250	TIS KORR 250 WHITE	30 mm	25 mm	225 mm	100
031 168 275	TIS KORR 275 WHITE	30 mm	25 mm	250 mm	100
031 168 300	TIS KORR 300 WHITE	30 mm	25 mm	275 mm	100
031 168 325	TIS KORR 325 WHITE	30 mm	25 mm	300 mm	100

Item number	Designation	Depth of drill hole	Embedment depth of anchor	Maximum thickness of fixture	Qty.
031 268 050	TIS KORR 50 BEIGE	30 mm	25 mm	25 mm	100
031 268 075	TIS KORR 75 BEIGE	30 mm	25 mm	50 mm	100
031 268 085	TIS KORR 85 BEIGE	30 mm	25 mm	60 mm	100
031 268 100	TIS KORR 100 BEIGE	30 mm	25 mm	75 mm	100
031 268 125	TIS KORR 125 BEIGE	30 mm	25 mm	100 mm	100
031 268 135	TIS KORR 135 BEIGE	30 mm	25 mm	110 mm	100
031 268 150	TIS KORR 150 BEIGE	30 mm	25 mm	125 mm	100
031 268 175	TIS KORR 175 BEIGE	30 mm	25 mm	150 mm	100
031 268 200	TIS KORR 200 BEIGE	30 mm	25 mm	175 mm	100
031 268 225	TIS KORR 225 BEIGE	30 mm	25 mm	200 mm	100
031 268 250	TIS KORR 250 BEIGE	30 mm	25 mm	225 mm	100
031 268 275	TIS KORR 275 BEIGE	30 mm	25 mm	250 mm	100
031 268 300	TIS KORR 300 BEIGE	30 mm	25 mm	275 mm	100
031 268 325	TIS KORR 325 BEIGE	30 mm	25 mm	300 mm	100

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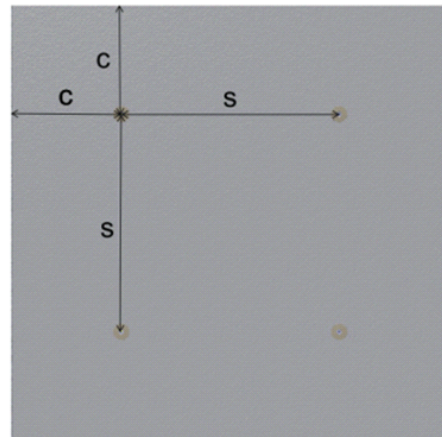
Product overview of TOGE KORR coated TIS screw:

Item number	Designation	Depth of drill hole	Embedment depth of anchor	Maximum thickness of fixture	Qty.
031 968 050	Schraube TIS 50 KORR	30 mm	25 mm	25 mm	100
031 968 075	Schraube TIS 75 KORR	30 mm	25 mm	50 mm	100
031 968 085	Schraube TIS 85 KORR	30 mm	25 mm	60 mm	100
031 968 100	Schraube TIS 100 KORR	30 mm	25 mm	75 mm	100
031 968 125	Schraube TIS 125 KORR	30 mm	25 mm	100 mm	100
031 968 135	Schraube TIS 135 KORR	30 mm	25 mm <td 110 mm	100	
031 968 150	Schraube TIS 150 KORR	30 mm	25 mm	125 mm	100
031 968 175	Schraube TIS 175 KORR	30 mm	25 mm	150 mm	100
031 968 200	Schraube TIS 200 KORR	30 mm	25 mm	175 mm	100
031 968 225	Schraube TIS 225 KORR	30 mm	25 mm	200 mm	100
031 968 250	Schraube TIS 250 KORR	30 mm	25 mm	225 mm	100
031 968 275	Schraube TIS 275 KORR	30 mm	25 mm	250 mm	100
031 968 300	Schraube TIS 300 KORR	30 mm	25 mm	275 mm	100
031 968 325	Schraube TIS 325 KORR	30 mm	25 mm	300 mm	100

Technical data:

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]	0.22

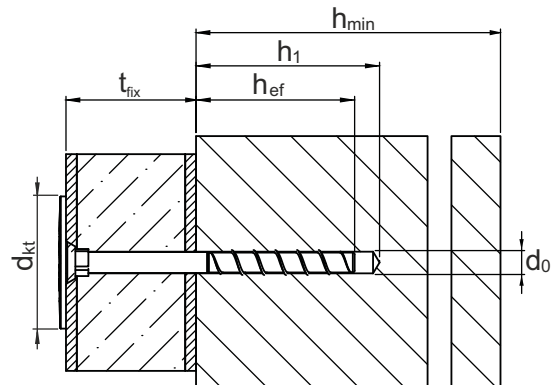
¹⁾ The partial safety factor for material resistance from the approval $\gamma_{M} = 1.5$ as well a partial safety factor for load actions $\gamma_f = 1.4$ were considered for determining the load.



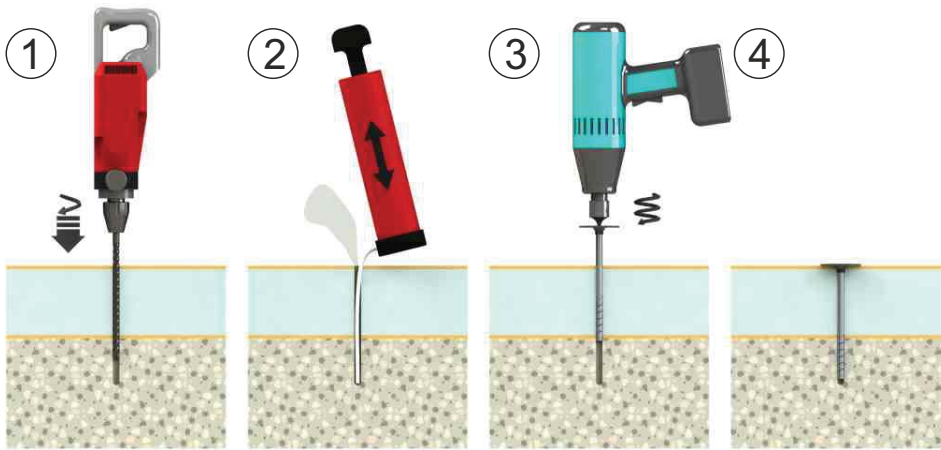
At least 4 anchors per m^2 of panel.

Technical characteristics under fire exposure			
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]	0.22
R 120	permissible load $F_{fi,per,120}$ ¹⁾	[kN]	0.17
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) Screw in insulation screw with a screwdriver
- 4) Top plate must fully contact the panel