TOGE TSM BC

Parapet anchor for fastening of scaffolding and formwork in renovation areas

Authorized Approval
Our parapet anchors have a general technical approval / general type approval (Z.21.8-2048). This approval guarantees that the anchors meet the highest safety and quality standards.

Frost proof
Sealing the borehole prevents water penetration and frost damage in winter.

High Loads
High load bearing capacity in cracked and non-cracked concrete.

Fast and safe installation
The optimized thread enables a quick and easy embedment process.

Immediate Load
Immediately loadable directly after installation.

Sustainable
Reusability of the fastening part.

Approval

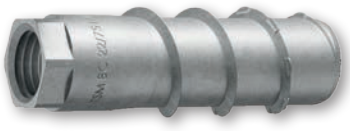
Approval

General technical approval Z-21.8-2048.

Base Materials

Application in cracked and non-cracked concrete of strength classes from C20/25 to C50/60.

Headshapes & Materials

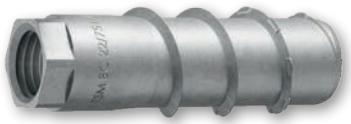
		Steel, zinc plated	Steel, anti-corrosion-coated TOGE KORR	Steel, stainless A4
	Sleeve with female thread TSM BC 22x75 IM 16 KA		✓ TOGE KORR	
	Connector M24x100 KA		✓ TOGE KORR	
	Connector with female thread DW15 IG KA		✓ TOGE KORR	
	Injection mortar and accessories			

Application Examples

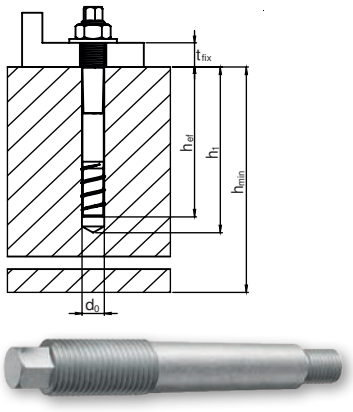
Fixing scaffolding and formwork in the renovation area

Product Overview

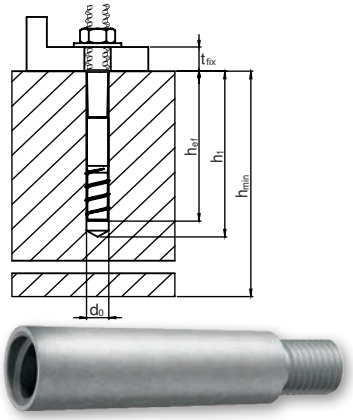
Steel - anti-corrosion coated, TOGE KORR



Sleeve with female thread
TSM BC 22x75 KA



Connector M24 KA



Connector with female thread
DW15 IG KA

Item nr.	Designation	Depth of drill hole h_0	Embedment depth of anchor h_{nom}	Max. thickness of fixture t_{fix}	Packing Unit
742 220 750	TSM BC 22x75 IM 16 KA	160 mm	150mm	-	20
742 240 751	Connector M24x75 IA SW12	-	-	-	20
742 150 000	Connector DW15 IG KA	-	-	-	20

Composite Mortar CF-T 300V

Chemical special mortar, vinylesther styrene-free,
suitable for concrete screws

Item nr.	Designation	Packing Unit
222 222 003	Cartridge CF-T 300 V	1
222 223 001	Mixing nozzle for CF-T 300 V	1
222 222 004	Squeezing pistol for CF-T 300 V	1

Processing instructions composite mortar

Temperature in ground	Processing Time	Min. curing time in dry borehole	Min. curing time in wet borehole
≥ -5°C	60 min	360 min	720 min
≥ 0°C	60 min	180 min	360 min
≥ 5°C	60 min	120 min	240 min
≥ 10°C	45 min	80 min	160 min
≥ 20°C	15 min	45 min	90 min
≥ 30°C	5 min	25 min	50 min
≥ 35°C	4 min	20 min	40 min

Technical characteristics

Installation of parapet anchor with connector M24 according to Z-21.8-2048

Anchor size			TSM BC 22
Length of female threaded sleeve	**L**	**[mm]**	**75**
Length of connector	**L**	**[mm]**	**190**
Nominal diameter of drill bit	d_0	[mm]	22
Depth of drill hole	$h_0 \geq$	[mm]	160
Effective anchorage depth	h_{ef}	[mm]	150
Diameter of clearance hole in the fixture	$d_f \leq$	[mm]	28
Installation torque (for metrical thread)	T_{inst}	[mm]	80
Minimum edge distance	$C_{min} \geq$	[mm]	225
Minimum spacing	$S_{min} \geq$	[mm]	450
Minimum basement thicknesss	$h_{min} \geq$	[mm]	200
Hexagon drive for mounting the screws	SW	[Nm]	17
Permissible tension load in cracked concrete C20/25 [1) 2)]	$N_{Rd,c} \geq$	[kN]	48,7
Design value of shear force for steel failure without lever arm [1) 2)]	$V_{Rd,s}$	[kN]	69,3
Rated torque of the tangential screwdriver	T	[Nm]	≤ 650

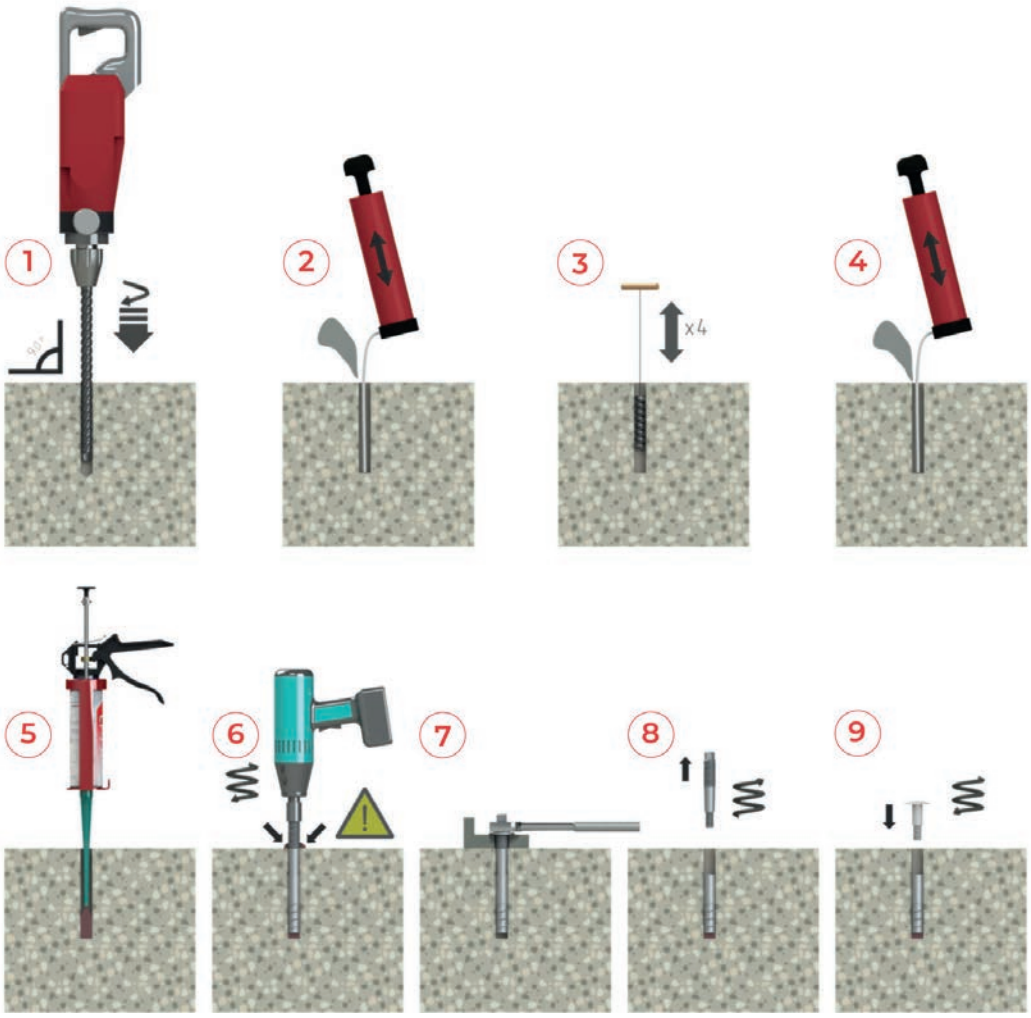
Installation of parapet anchor with connector GW15 according to Z-21.8-2048

Anchor size			TSM BC 22
Length of female threaded sleeve	**L**	**[mm]**	**75**
Length of connector	**L**	**[mm]**	**75**
Nominal diameter of drill bit	d_0	[mm]	22
Depth of drill hole	$h_0 \geq$	[mm]	160
Effective anchorage depth	h_{ef}	[mm]	150
Diameter of clearance hole in the fixture	$d_f \leq$	[mm]	17
Installation torque (for metrical thread)	T_{inst}	[mm]	80
Minimum edge distance	$C_{min} \geq$	[mm]	225
Minimum spacing	$S_{min} \geq$	[mm]	450
Minimum basement thicknesss	$h_{min} \geq$	[mm]	200
Hexagon socket drive for mounting the screws	SW	[Nm]	12
Permissible tension load in cracked concrete C20/25 [1) 2)]	$N_{Rd,c} \geq$	[kN]	48,7
Design value of shear force for steel failure without lever arm [1) 2)]	$V_{Rd,s}$	[kN]	33,4
Rated torque of the tangential screwdriver	T	[Nm]	≤ 650

[1)] To determine the permissible load, the partial safety factor from the approval was taken into account on the resistance side.

[2)] The specified values apply regardless of center and edge distances.

Installation Instructions



1) Drill a hole perpendicular to the concrete surface.

2) Thoroughly blow out the borehole.

3) Brush the borehole 4x.

4) Thoroughly clean the borehole again.

5) Inject composite mortar.

6) Screw in screws with an impact screwdriver. After reaching the screw-in depth, the composite mortar must emerge at the concrete surface.

7) Fix the attachment.

8) After work, the screw-in aid can be easily unscrewed.

9) Seal the hole left behind with the screw cap.