

TOGE TSM BC

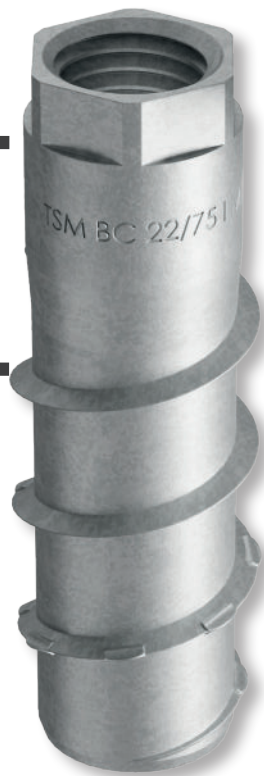
Parapet anchor for fastening of scaffolding and forwork in renovation areas

High Loads

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

Frost proof

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



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.

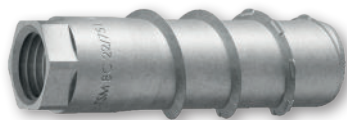


Headshapes & Materials

Steel,
zinc plated

Steel, anti-
corrosion-coated
TOGE KORR

Steel,
stainless A4



Sleeve with female thread
TSM BC 22x75 IM 16 KA



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Connector M24x100 KA



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Connector with female thread
DW15 IG KA



TOGE KORR



Injection mortar and
accessories

Application Examples



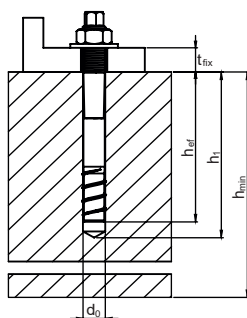
Fixing scaffolding and formwork in the renovation area

Product Overview

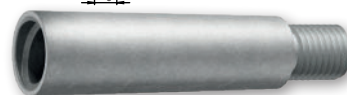
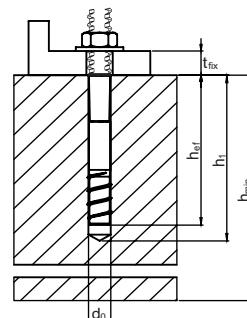
Steel - anti-corrosion coated, TOGE KORR



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
742 241 000	Connector M24x100 KA	-	-	-	20
742 150 000	Connector DW15 IG KA	-	-	-	20

Composite Mortar CF-T 300V

Chemical special mortar, vinylester 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

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

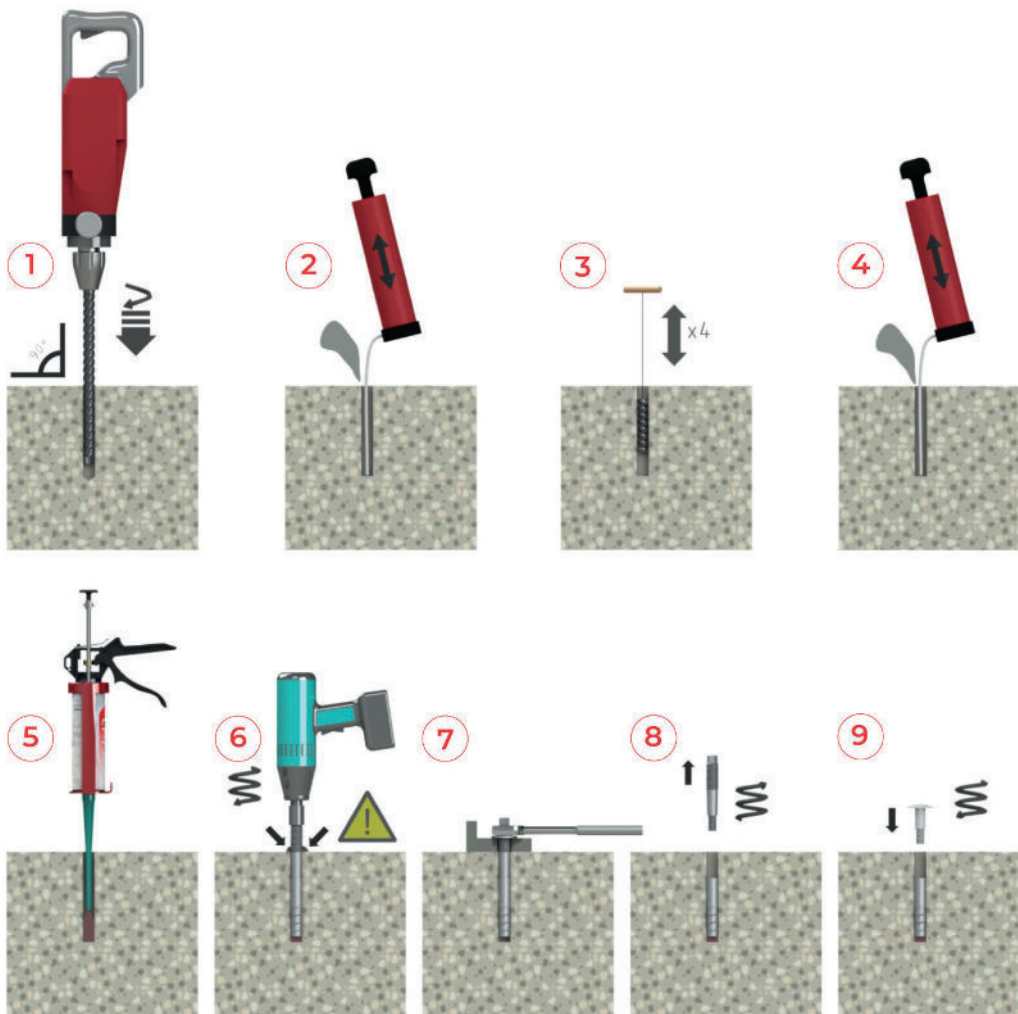
Anchor size			TSM BC 22
Screw length	L	[mm]	75
Nominal diameter of drill bit	d_o	[mm]	22
Depth of drill hole	$h_o \geq$	[mm]	160
Effective anchorage depth	h_{ef}	[mm]	150
Diameter of clearance hole in the fixture	$d_f \leq$	[mm]	28
Installation torque (for metrical thread)	T_{inst}	[mm]	80
Minimum edge distance	$C_{min} \geq$	[mm]	225
Minimum spacing	$S_{min} \geq$	[mm]	450
Minimum basement thickness	$h_{min} \geq$	[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
Permissible tension load in cracked concrete > C20/25 ^{1) 2)}	$N_{Rd,s}$	[kN]	51,3
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
Screw length	L	[mm]	75
Nominal diameter of drill bit	d_o	[mm]	22
Depth of drill hole	$h_o \geq$	[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 thickness	$h_{min} \geq$	[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
Permissible tension load in cracked concrete > C20/25 ^{1) 2)}	$N_{Rd,s}$	[kN]	51,3
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.



- 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.