



Screwbolt TSM-IM

Group: 1402

Application

Suitable for quick and safe fixation of Sikla pipe clamps and further components to concrete and masonry ceilings or walls. To be applied in dry rooms not exposed to high corrosion resistance requirements.

- ◆ European Technical Assessment for anchoring in cracked and non-cracked concrete (Option 1)
- ◆ European Technical Assessment for multiple use for non-structural systems in concrete and precast pre-stressed hollow core slabs
- ◆ ZApproved for applications under seismic impact of category C1 (Types, diameters and anchoring depths are shown in the "type overview" and ETA-16/0655)
- ◆ Also fixes into pressure-resistant natural stones and different solid bricks (not part of ETA approval / guideline)
- ◆ Small edge and axial distance due to low expansion pressure
- ◆ Low drilling effort

Installation

Screw in the bolt screw in pre-drilled hole. The special thread guarantees a mechanical form lock with the base material. Fine adjustment of depth is possible if the screwbolt is initially installed too deep.

Technical Data

Single fixing:

Extract from application conditions of ETA-16/0655

Permissible loads according to EN 1992-4 without influence of centre and edge distances. Overall safety factor is taken into account (Y_M and Y_F).

Diameter 6 mm

	Embedment depth 40 mm	Embedment depth 55 mm
Drive	SW 13	SW 13
Nominal diameter of drill d_0 [mm]	6	6
Depth of bore hole h_1 [mm]	45	60
Approved loads cracked concrete		
C20/25 [kN]	1.0	1.9
Approved loads non-cracked concrete		
C20/25 [kN]	1.9	4.3
Minimum thickness of concrete slab h_{min} [mm]	100	100
Char. spacing $s_{cr,N}$	93	132
Char. edge distance $c_{cr,N}$	46.5	66
Diameter of clearance hole in the fixture \leq [mm]	8	8

Multiple fixing:

Extract from application conditions of ETA-16/0656

For the multiple use for non-structural applications. Permissible loads according to EN 1992-4 without influence of centre and edge distances. The overall safety factor is taken into account (Y_M and Y_F).

The maximum permissible load per fixing point may be less than the permissible load of the anchor, depending on national regulations.

Diameter 6 mm

	Embedment depth 35 mm	Embedment depth 55 mm
Drive	SW 13	SW 13
Nominal diameter of drill d_0 [mm]	6	6
Depth of bore hole h_1 [mm]	40	60
Approved loads cracked concrete		
C20/25 [kN]	1.4	3.6
Approved loads non-cracked concrete		
C20/25 [kN]	1,4	3,6
Minimum thickness of concrete slab h_{min} [mm]	80	100
Char. spacing $s_{cr,N}$	81	132
Char. edge distance $c_{cr,N}$	40.5	66
Diameter of clearance hole in the fixture \leq [mm]	8	8

Further technical information (load capacities under fire exposure, appr. loads in further concrete classes and precast pre-stressed hollow core slabs) are shown in the following overview.

Material: Steel, electrogalvanized

Approvals / Conformity

ETA-16/0655 and ETA-16/0656



* Only to be used as multiple fixing for non-load-bearing systems in concrete and prestressed concrete hollow plate ceilings.

Type	Length [mm]	Thread connection	W [kg]	Quantity [pack]	Part number
6 x 35 K *	35	M8/M10	0.04	50	115028
6 x 55	55	M8/M10	0.04	50	115721