



## Screwbolt TSM LP VZ 30

Group: 1405

### Application

Suitable for quick and safe fixation of Sikla Channels or Mounting Plates 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
- ◆ Approved 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

For installation an impact wrench or rotary screwgun with a Torx bit T30 is to be used. 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. The screwgun or impact wrench should not be used with any hammer-action setting engaged on the tool.

### 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 ( $Y_M$  und  $Y_F$ ).

#### Diameter 6 mm

	Embedment depth 40 mm	Embedment depth 55 mm
Drive	T30	T30
Nominal diameter of drill $d_o$ [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 ≤ [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 ( $Y_M$  und  $Y_F$ ).

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	T30	T30
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]	Head-Ø [mm]	W [kg]	Quantity [pack]	Part number
6 x 40 *	40	18	0.01	100	<b>115026</b>
6 x 60	60	18	0.02	100	<b>115722</b>
LPS 6 x 40 *	40	14.5	0.01	100	<b>116691</b>
LPS 6 x 60	60	14.5	0.02	100	<b>116692</b>