

# WHO Frame screw

Special frame screw for window and door installation



## Product information

### Features and benefits

- Cylinder head for flush installation with the window and door frames.
- Expansion-free fixing imposes less stress on substrate during installation
- High load resistances from a relatively small hole diameter
- Easily removed for temporary works

### Applications

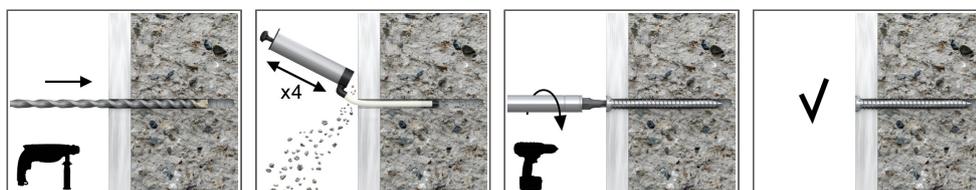
- Door and window frames
- Securing formwork
- Suspended ceilings
- Lightweight steel angles
- Timber constructions

### Base materials

**Approved for use in:**

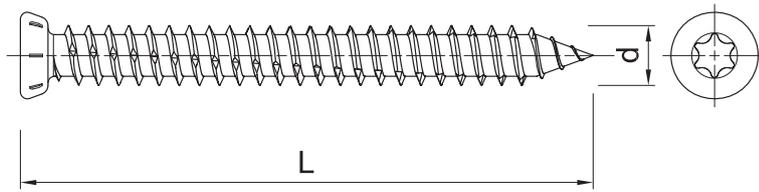
- Concrete
- Solid Brick
- Hollow Brick
- Aerated Concrete Block

## Installation guide



1. Drill a hole of required diameter and depth
2. Lightly screw into hole through the fixture, until fixing depth is reached and fixture is secure

## Product information



Size	Product Code
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## Installation data

Substrate			Concrete	Aerated concrete	Other
Fixing diameter	d	[mm]	7.5	7.5	7.5
Hole diameter in substrate	d <sub>0</sub>	[mm]	6	6	6
Min. hole depth in substrate	h <sub>0</sub>	[mm]	40	-	70
Min. installation depth	h <sub>nom</sub>	[mm]	30	60	60
Min. substrate thickness	h <sub>min</sub>	[mm]	60	90	90
Min. spacing	s <sub>min</sub>	[mm]	15	30	30
Min. edge distance	c <sub>min</sub>	[mm]	15	50	50

## Basic performance data

Performance data for single fixing without influence of edge distance and spacing

Substrate		Concrete C20/25	Solid brick 7.5MPa	Aerated concrete 400	Perforated brick K3
<b>MEAN ULTIMATE LOAD F<sub>ru,m</sub></b>					
Ø7.5, Effective embedment depth 30 mm	[kN]	6.15	-	-	-
Ø7.5, Effective embedment depth 60 mm	[kN]	-	2.58	1.27	1.02
<b>CHARACTERISTIC LOAD F<sub>Rk</sub></b>					
Ø7.5, Effective embedment depth 30 mm	[kN]	5.21	-	-	-
Ø7.5, Effective embedment depth 60 mm	[kN]	-	2.11	1.14	0.90
<b>DESIGN LOAD F<sub>Rd</sub></b>					
Ø7.5, Effective embedment depth 30 mm	[kN]	2.08	-	-	-
Ø7.5, Effective embedment depth 60 mm	[kN]	-	0.84	0.46	0.36
<b>RECOMMENDED LOAD F<sub>rec</sub></b>					
Ø7.5, Effective embedment depth 30 mm	[kN]	1.49	-	-	-
Ø7.5, Effective embedment depth 60 mm	[kN]	-	0.60	0.33	0.26