The economical special screw for window installation

BUILDING MATERIALS

- Concrete
- Vertically perforated brick
- Hollow blocks made from lightweight concrete
- Perforated sand-lime brick
- Solid sand-lime brick
- Solid brick made from lightweight concrete
- Solid brick
- Aerated concrete

APPROVALS

ADVANTAGES

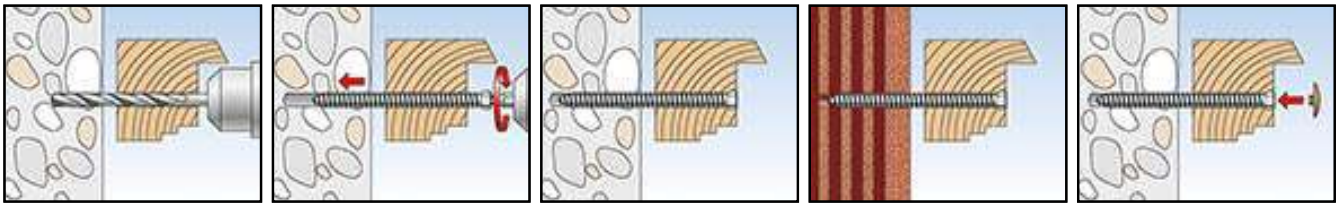
- Screw installation without plug for economical processing.
- The small drill bit diameter of 6 mm allows for efficient series installation.
- The continuous thread ensures a stress-free fixing of the frame in the substrate.
- The high-low-thread at the screw tip as well as several cutting notches reduce the amount of force required for screwing in the screws. The installation process can be completed without excessive effort.
- With two head types applicable for all common frame materials.
- According to the ift Rosenheim suitable for the fixation of a plastic window in brick masonry.

APPLICATIONS

- Window frames made of wood, plastic and aluminium
- Door frames
- Squared timbers

FUNCTIONING

- Note the drill hole and screw-in depths for the different building materials listed in the table.
- Cylinder head screws are recommended for recessed installation in wooden profiles.
- Flat head screws are recommended for installation in plastic and aluminium profiles.



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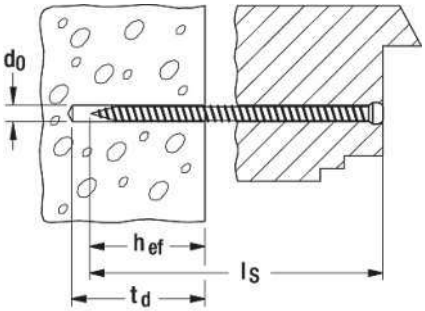
TECHNICAL DATA

Window frame screws FFSZ



Anchorage depth h_{ef}
$h_{ef} \geq 30$ mm in concrete
$h_{ef} \geq 40$ mm in solid brick
$h_{ef} \geq 60$ mm in perforated brick / aerated concrete

t_d : drill hole depth $\geq h_{ef} + 10$ mm

Article name	Art.-No.	Drill hole diameter d_0 [mm]	Screw length l_s [mm]	Drive	Head [Ø mm]
FFSZ 7,5 x 52 T30	**532906**	6	52	T30	8
FFSZ 7,5 x 62 T30	**532907**	6	62	T30	8
FFSZ 7,5 x 72 T30	**532908**	6	72	T30	8
FFSZ 7,5 x 82 T30	**532909**	6	82	T30	8
FFSZ 7,5 x 92 T30	**532910**	6	92	T30	8
FFSZ 7,5 x 102 T30	**532911**	6	102	T30	8
FFSZ 7,5 x 112 T30	**532912**	6	112	T30	8
FFSZ 7,5 x 122 T30	**532913**	6	122	T30	8
FFSZ 7,5 x 132 T30	**532914**	6	132	T30	8
FFSZ 7,5 x 152 T30	**532915**	6	152	T30	8
FFSZ 7,5 x 182 T30	**532916**	6	182	T30	8
FFSZ 7,5 x 202 T30	**532917**	6	202	T30	8
FFSZ 7,5 x 212 T30	**532919**	6	212	T30	8
FFSZ 7,5 x 252 T30	**532920**	6	252	T30	8
FFSZ 7,5 x 302 T30	**532921**	6	302	T30	8

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LOADS

Window frame screw FFSZ and FFS

Highest recommended loads[1] for a single screw.

Type		FFS 7,5 / FFSZ 7,5								
Screw diameter	[mm]	7,5								
Anchoring depth	$h_{ef} \geq$ [mm]	30			40			60		
		recommended tensile load	recommended shear load	min. edge distance	recommended tensile load	recommended shear load	min. edge distance	recommended tensile load	recommended shear load	min. dist
		N_{rec}[4]	V_{rec}[4]	c_{min}[5]	N_{rec}[4]	V_{rec}[4]	c_{rec}[5]	N_{rec}[4]	V_{rec}[4]	c_m
		[kN]	[kN]	[mm]	[kN]	[kN]	[mm]	[kN]	[kN]	[m
Concrete	≥ C20/25 bzw. ≥ B25	1,00	0,70	30	-	-	-	-	-	
Solid sand-lime brick	≥ KS 12	-	-	-	1,00	0,60	40	-	-	
Solid brick	≥ Mz 12	-	-	-	0,40[2]	0,30[2]	40	0,80	0,70	4
Vertical perforated brick	≥ HLz 12 [2]	-	-	-	-	-	-	0,25	0,40	4
Aerated concrete block	≥ PB2, PP2 [3]	-	-	-	-	-	-	0,10	0,10	4
Aerated concrete block	≥ PB4, PP4 [3]	-	-	-	-	-	-	0,25	0,25	4

[1] A single screw is, e.g. a screw with an axial spacing $s \geq 3 \times h_{ef}$ and an edge distance $c \geq 1,5 \times h_{ef}$. The required safety factors are considered with a displacenment of 3 mm in case of shear loads.

[2] Drill method rotary drilling.

[3] Without pre-drilling.

[4] Without influence from edge distances and spacings.

[5] Minimal possible edge distance while reducing the recommended loads.

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