

The economical special screw for window installation



BUILDING MATERIALS

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

ADVANTAGES

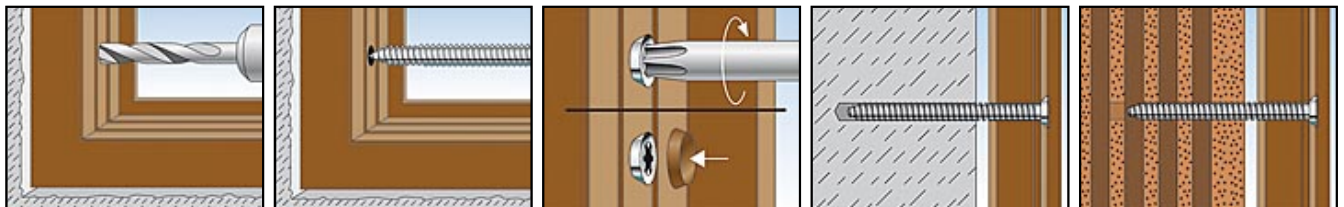
- No additional plugs are required for screw installation, thus allowing work to progress quickly and economically.
- The small drill bit diameter of 6 mm allows for efficient work, including in the case of series installation.
- The continuous thread prevents the window frame from being pulled against the substrate, and ensures a stress-free and long-lasting fixing of the frame.
- The optimised special thread reduces the amount of force required for screwing in the screws, meaning that the installation process can be completed without the use of too much force.

APPLICATIONS

- Window frames
- Door frames
- Squared timbers

FUNCTIONING

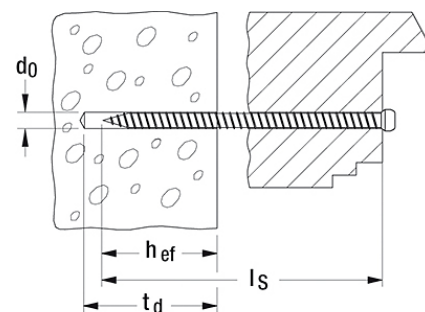
- Note the drill hole and screw-in depths for the different building materials listed in the table.
- In order to avoid the screw twisting during installation in concrete, the maximum anchorage depths stipulated must be adhered to.
- Cylinder head screws are recommended for recessed installation in wooden profiles.
- Flat head screws are recommended for installation in plastic and aluminium profiles.



TECHNICAL DATA



Window frame screw FFSZ



anchorage depth h_{ef}
 $h_{ef} = 20 - 40$ mm in concrete
 $h_{ef} \geq 40$ mm in solid sand-lime brick/solid block
 $h_{ef} \geq 50$ mm in pumice/aerated concrete
 $h_{ef} \geq 60$ mm perforated brick
 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]	Head [Ø mm]
FFSZ 7,5 x 52 T30	515731	6	52	8,5
FFSZ 7,5 x 62 T30	515732	6	62	8,5
FFSZ 7,5 x 72 T30	515734	6	72	8,5
FFSZ 7,5 x 82 T30	515737	6	82	8,5
FFSZ 7,5 x 92 T30	515738	6	92	8,5
FFSZ 7,5 x 102 T30	515739	6	102	8,5
FFSZ 7,5 x 112 T30	515740	6	112	8,5
FFSZ 7,5 x 122 T30	515741	6	122	8,5
FFSZ 7,5 x 132 T30	515742	6	132	8,5
FFSZ 7,5 x 152 T30	515743	6	152	8,5
FFSZ 7,5 x 182 T30	515744	6	182	8,5
FFSZ 7,5 x 202 T30	515745	6	202	8,5
FFSZ 7,5 x 212 T30	515746	6	212	8,5

Frame fixings / Stand-off installation

LOADS

Frame fixing screw FFSZ and FFS

Highest recommended loads¹⁾ for a single anchor for multiple use for non-structural applications in concrete C20/25.

Type	Effective anchorage depth h_{ef} [mm]	Cracked or Non-cracked concrete			
		Recommended tensile load N_{rec} [kN]	Recommended shear load V_{rec} [kN]	Min. spacing s_{min} [mm]	Min. edge distance c_{min} [mm]
FFS 7,5	20	0,9	0,4	60	30
FFSZ 7,5	20	0,9	0,4	60	30
FFS 7,5	40	1,9	0,6	120	30
FFSZ 7,5	40	1,9	0,6	120	30

¹⁾ Required safety factors are considered.