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

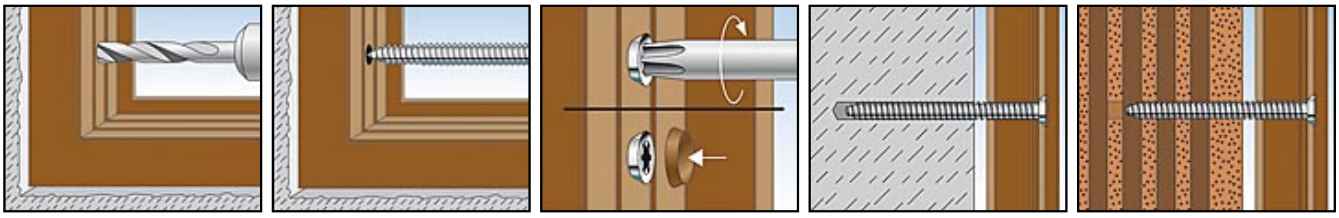
- No additional plugs are required for screw installation, thus allowing work to progress quickly and economically.
- The small drill bit diameter of 6 mm allows for efficient work, including in the case of series installation.
- The continuous thread prevents the window frame from being pulled against 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

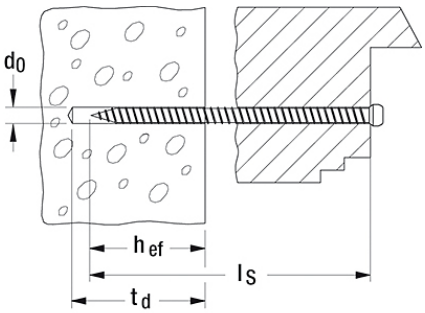
FUNCTIONING

- 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
$h_{ef} \geqq$ 40 mm in solid sand-lime brick/solid block
$h_{ef} \geqq$ 50 mm in pumice/aerated concrete
$h_{ef} \geqq$ 60 mm perforated brick

t_d: drill hole depth $\geqq h_{ef}$ + **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

LOADS

Frame fixing screw FFSZ and FFS

Highest recommended loads[1] for a single anchor for multiple use for non-structural applications in concrete C20/25.

		Cracked or Non-cracked concrete			
Type	**Effective anchorage depth h_{ef} [mm]**	**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.