

## 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

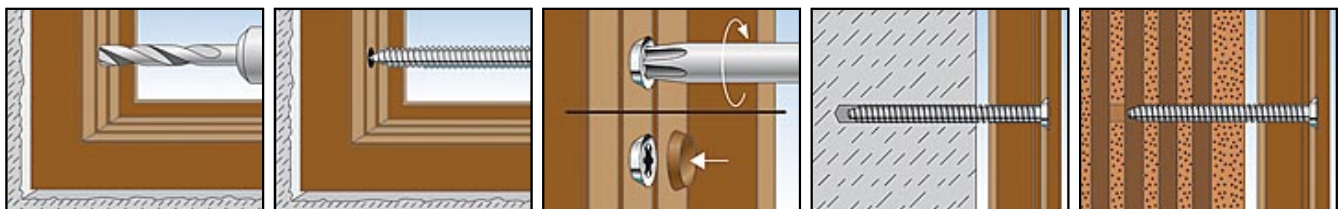
- No additional plugs are required for screw installation, thus allowing work to progress quickly and economically.
- The small drill bit diameter of 6 mm allows for efficient work, including in the case of series installation.
- The continuous thread prevents the window frame from being pulled against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

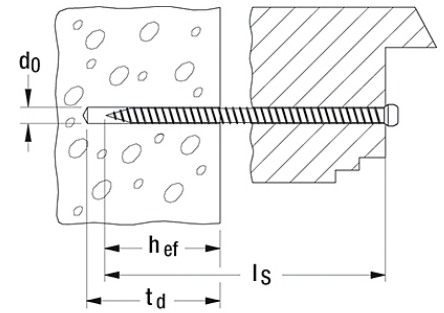
- Note the drill hole and screw-in depths for the different building materials listed in the table.
- In order to avoid the screw twisting during installation in concrete, the maximum anchorage depths stipulated must be adhered to.
- Cylinder head screws are recommended for recessed installation in wooden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

## LOADS

### Frame fixing screw FFSZ and FFS

Highest recommended loads<sup>1)</sup> 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]
<b>FFS 7,5</b>	20	0,9	0,4	60	30
<b>FFSZ 7,5</b>	20	0,9	0,4	60	30
<b>FFS 7,5</b>	40	1,9	0,6	120	30
<b>FFSZ 7,5</b>	40	1,9	0,6	120	30

<sup>1)</sup> Required safety factors are considered.