

Window frame screws UFS

The economical special screw for window installation

Long Description

The Upat UFS window frame fixing screw is a special screw designed for the installation of window frames. After drilling, the screw can be inserted directly into both solid and hollow construction materials. The continuous special thread prevents the window frames from being pulled tight against the substrate. As a result, they are permanently secured without stress.

Applications

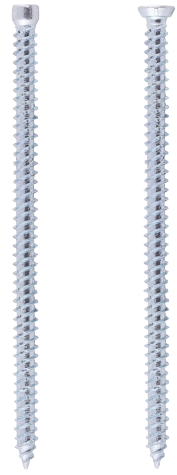
- Window frames made of wood, plastic and aluminium
- Door frames
- Squared timbers

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

Advantages

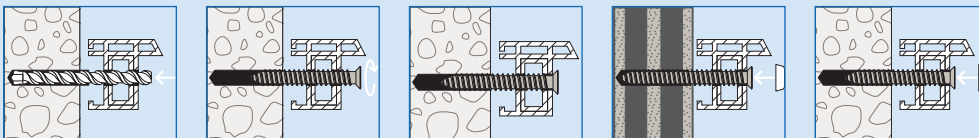
- Screw installation without plug for economical processing.
- The small drill bit diameter of 6 mm allows for efficient series installation.
- The continuous thread ensures a stress-free fixing of the frame in the substrate.
- The high-low-thread at the screw tip as well as several cutting notches reduce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



Application examples



Assembly



Straight to the product



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Product variants

Product	Art.No.	Drive	Drill diameter	Diameter	Head	Screw length	Sales unit
UFS CS 7,5x42 TX30	581007	TX30	6	7,5	11.5	42	100
UFS CS 7,5x52 TX30	581008	TX30	6	7,5	11.5	52	100
UFS CS 7,5x62 TX30	581009	TX30	6	7,5	11.5	62	100
UFS CS 7,5x72 TX30	581010*	TX30	6	7,5	11.5	72	100
UFS CS 7,5x82 TX30	581011	TX30	6	7,5	11.5	82	100
UFS CS 7,5x92 TX30	581012*	TX30	6	7,5	11.5	92	100
UFS CS 7,5x102 TX30	581013	TX30	6	7,5	11.5	102	100
UFS CS 7,5x112 TX30	581015	TX30	6	7,5	11.5	112	100
UFS CS 7,5x122 TX30	581019*	TX30	6	7,5	11.5	122	100
UFS CS 7,5x132 TX30	581020	TX30	6	7,5	11.5	132	100
UFS CS 7,5x152 TX30	581021	TX30	6	7,5	11.5	152	100
UFS CS 7,5x182 TX30	581022	TX30	6	7,5	11.5	182	100
UFS CS 7,5x202 TX30	581023	TX30	6	7,5	11.5	202	100
UFS CS 7,5x212 TX30	581024	TX30	6	7,5	11.5	212	100
UFS CS 7,5x252 TX30	581025	TX30	6	7,5	11.5	252	100
UFS CS 7,5x302 TX30	581026	TX30	6	7,5	11.5	302	100
UFS FH 7,5x52 TX30	580992	TX30	6	7,5	8	52	100
UFS FH 7,5x62 TX30	580993	TX30	6	7,5	8	62	100
UFS FH 7,5x72 TX30	580994	TX30	6	7,5	8	72	100
UFS FH 7,5x82 TX30	580995*	TX30	6	7,5	8	82	100
UFS FH 7,5x92 TX30	580996	TX30	6	7,5	8	92	100
UFS FH 7,5x102 TX30	580997*	TX30	6	7,5	8	102	100
UFS FH 7,5x112 TX30	580998	TX30	6	7,5	8	112	100
UFS FH 7,5x122 TX30	580999	TX30	6	7,5	8	122	100
UFS FH 7,5x132 TX30	581000	TX30	6	7,5	8	132	100
UFS FH 7,5x152 TX30	581001	TX30	6	7,5	8	152	100
UFS FH 7,5x182 TX30	581002*	TX30	6	7,5	8	182	100
UFS FH 7,5x202 TX30	581003	TX30	6	7,5	8	202	100
UFS FH 7,5x212 TX30	581004	TX30	6	7,5	8	212	100
UFS FH 7,5x252 TX30	581005	TX30	6	7,5	8	252	100
UFS FH 7,5x302 TX30	581006	TX30	6	7,5	8	302	100
UFS PH 7,5x72 TX30	581027	TX30	6	7,5	8	72	100
UFS PH 7,5x82 TX30	581028	TX30	6	7,5	8	82	100
UFS PH 7,5x92 TX30	581029	TX30	6	7,5	8	92	100
UFS PH 7,5x102 TX30	581030	TX30	6	7,5	8	102	100
UFS PH 7,5x112 TX30	581031	TX30	6	7,5	8	112	100
UFS PH 7,5x122 TX30	581032	TX30	6	7,5	8	122	100
UFS PH 7,5x132 TX30	581033	TX30	6	7,5	8	132	100
UFS PH 7,5x152 TX30	581034	TX30	6	7,5	8	152	100
UFS PH 7,5x182 TX30	581035	TX30	6	7,5	8	182	100
UFS PH 7,5x212 TX30	581036	TX30	6	7,5	8	212	100
UFS PH 7,5x252 TX30	581037	TX30	6	7,5	8	252	100

* Note: Available upon request. Not part of the standard product range.

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Load table

Recommended loads¹⁾ of a single screw.

Type			UCF CS			UCF FH			UCF PH		
Screw diameter	d_0	[mm]	7,5			7,5			7,5		
Anchorage depth	h_{ef}	[mm]	30	40	50	30	40	50	30	40	50
Recommended loads in concrete $\geq$ C20/25											
Tension load N_{rec}		[kN]	1.00	-	-	1.00	-	-	1.00	-	-
Shear load V_{rec}		[kN]	0.70	-	-	0.70	-	-	0.70	-	-
Minimum edge distance ²⁾	c_{min}	[mm]	30	-	-	30	-	-	30	-	-
Recommended loads in masonry											
Tension load N_{rec} in solid brick	$\geq Mz 12$	[kN]	-	0.40 ³⁾	0.80	-	0.40 ³⁾	0.80	-	0.40 ³⁾	0.80
Shear load V_{rec} in solid brick	$\geq Mz 12$	[kN]	-	0.30 ³⁾	0.70	-	0.30 ³⁾	0.70	-	0.30 ³⁾	0.70
Tension load N_{rec} in solid sand-lime brick	$\geq KS 12$	[kN]	-	1.00	-	-	1.00	-	-	1.00	-
Shear load V_{rec} in solid sand-lime brick	$\geq KS 12$	[kN]	-	0.60	-	-	0.60	-	-	0.60	-
Tension load N_{rec} in vertically perforated brick	$\geq Hlz 12$	[kN]	-	-	0.25 ³⁾	-	-	0.25 ³⁾	-	-	0.25 ³⁾
Shear load V_{rec} in vertically perforated brick	$\geq Hlz 12$	[kN]	-	-	0.40 ³⁾	-	-	0.40 ³⁾	-	-	0.40 ³⁾
Minimum edge distance ²⁾	c_{min}	[mm]	-	40	40	-	40	40	-	40	40
Recommended loads in aerated concrete											
Load ⁴⁾ F_{rec} in aerated concrete	$\geq AAC 2$	[kN]	-	-	0.10 ⁵⁾	-	-	0.10 ⁵⁾	-	-	0.10 ⁵⁾
	$\geq AAC 4$		-	-	0.25 ⁵⁾	-	-	0.25 ⁵⁾	-	-	0.25 ⁵⁾
Minimum edge distance ²⁾	c_{min}	[mm]	-	-	40	-	-	40	-	-	40

¹⁾ Required safety factors are considered. As a single screw counts e.g. a screw with a spacing $s \geq 3 \times h_{ef}$ and an edge distance $c \geq 1.5 \times h_{ef}$.

²⁾ Minimal possible edge distance while reducing the recommended loads.

³⁾ Drilling method: rotary drilling.

⁴⁾ Valid for tensile load, shear load, and oblique pull at any angle.

⁵⁾ Without pre-drilling.