

Window frame screws UFS

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 $s \geq 3 \times h_d$ and an edge distance $c \geq 1.5 \times h_d$.

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.