

LOADS

Window frame screws FFSZ and FFS

Highest recommended loads¹⁾ of a single screw.

Type			FFSZ			FFS		
Screw diameter	∅	[mm]	7,5			7,5		
Anchorage depth	$h_{ef} \geq$	[mm]	30	40	60	30	40	60
Anchorage in concrete \geq C20/25								
Recommended tensile load		[kN]	1,00	-		1,00	-	
Recommended shear load		[kN]	0,70	-		0,70	-	
Min. edge distance ⁵⁾	c_{min}	[mm]	30	-		30	-	
Anchorage in masonry								
Recommended tensile load in solid brick	$\geq Mz 12$	[kN]	-	0,40 ³⁾	0,80	-	0,40 ³⁾	0,80
Recommended shear load in solid brick	$\geq Mz 12$	[kN]	-	0,30 ³⁾	0,70	-	0,30 ³⁾	0,70
Recommended tensile load in solid sand-lime brick	$\geq KS 12$	[kN]	-	1,00	-	-	1,00	-
Recommended shear load in solid sand-lime brick	$\geq KS 12$	[kN]	-	0,60	-	-	0,60	-
Recommended tensile load in vertically perforated brick	$\geq HLz 12$	[kN]	-		0,25 ³⁾	-		0,25 ³⁾
Recommended shear load in vertically perforated brick	$\geq HLz 12$	[kN]	-		0,40 ³⁾	-		0,40 ³⁾
Min. edge distance ⁵⁾	c_{min}	[mm]	-	40		-	40	
Anchorage in aerated concrete								
Recommended load ²⁾ in aerated concrete	$\geq AAC 2$	[kN]	-		0,10 ⁴⁾	-		0,10 ⁴⁾
	$\geq AAC 4$	[kN]	-		0,25 ⁴⁾	-		0,25 ⁴⁾
Min. Randabstand ⁵⁾	c_{min}	[mm]	-		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⁾ Valid for tensile load, shear load and oblique load under any angle.

³⁾ Rotary drilling.

⁴⁾ Without pre-drilling.

⁵⁾ Minimal possible edge distance while reducing the recommended loads.