

Sleeve anchor FSA

Recommended loads¹⁾ of a single anchor in normal concrete of strength class C20/25.

Type	Material/ surface	Effective anchorage depth h_{ef} [mm]	Minimum member thickness h_{min} [mm]	Installation torque T_{inst} [Nm]	Char. spacing $s_{cr,N}$ [mm]	Char. edge dis- tance $c_{cr,N}$ [mm]	Non-cracked concrete			
							Recommended tension (N_{rec}) and shear loads (V_{rec}); minimum spacing (s_{min}) and edge distances (c_{min}) with reduced loads			
							$N_{rec}^{2)}$ [kN]	$V_{rec}^{2)}$ [kN]	$s_{min}^{3)}$ [mm]	$c_{min}^{3)}$ [mm]
FSA 8	gvz	35	70	8	105	53	2.0	3.4	70	50
FSA 10	gvz	40	80	25	120	60	3.5	6.3	80	60 ⁴⁾
FSA 12	gvz	50	100	40	150	75	5.0	9.9	100	75 ⁴⁾

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

²⁾ In the case of combinations of tension and shear loads, bending moments with reduced or minimum spacing and edge distances (anchor groups), the design must be carried out in accordance the provisions of the EN 1992-4:2018.

³⁾ Minimum possible axial spacings resp. edge distance while reducing the recommended load.

⁴⁾ No reduction of the recommended tensile load.