

LOADS

Frame fixing SXS ⁴⁾

Highest permissible loads ¹⁾ for a single anchor for multiple fixings of non-structural applications in normal concrete \geq C16/20 resp. \geq B20 ⁷⁾. For the design the complete approval ETA-09/0352 has to be considered.

			Cracked or Non-cracked concrete			
Type	Min. embedment depth h_{nom} (h_v) [mm]	Min. member thickness h_{min} [mm]	Permissible tensile load N_{perm} ^{3) 6)} [kN]	Permissible shear load V_{perm} ³⁾ [kN]	Min. spacing s_{min} ²⁾ [mm]	Min. edge distance c_{min} ²⁾ [mm]
SXS 10	50	100	2,0	7,4/6,9 ⁸⁾	50	50

¹⁾ The required partial safety factors for material resistance as well as a partial safety factor for load actions of $\gamma_L = 1,4$ are considered.

²⁾ Minimum possible axial spacings resp. edge distance (anchor group) while reducing the permissible load. The combination of the given min. spacing and min. edge distance as well as the min. member thickness is not possible. Details see approval.

³⁾ For combinations of tensile loads, shear loads, bending moments as well as reduced edge distances or spacings (anchor groups) see approval.

⁴⁾ gvz and A4. For exterior applications of galvanised screws measures against incoming humidity have to be taken.

⁶⁾ Valid for temperatures in the substrate up to +50°C (resp. short term up to 80°C). For long term temperatures up to 30°C higher permissible loads may be possible.

⁷⁾ Values for concrete C12/15 see approval.

⁸⁾ Value for screws made of steel of corrosion resistance class III, e.g. A4.