

Aircrete anchor GB

Highest permissible, respectively recommended loads^{1) 2)} for a single anchor in aerated concrete.

The given loads are valid for fischer safety screws⁴⁾ acc. to selection table.

Type			GB 10 ²⁾	GB 8 ⁹⁾	GB 14 ⁹⁾
Diameter fischer safety screw	∅	[mm]	7	5	10
Min. spacings ⁶⁾	smin	[mm]	100	150 (100) ⁸⁾	300 (200) ⁸⁾
Min. edge distance ⁷⁾	cmin	[mm]	100	100 (75) ⁸⁾	200 (150) ⁸⁾
Minimum member thickness	hmin	[mm]	120	75	200
Anchorage depth	hef (hv)	[mm]	55	50	75
Load in the respective base material			Permissible loads F_{perm}³⁾	Recommended loads F_{rec}³⁾	
Aerated concrete	AAC 2	[kN]	0,21	0,20	0,40
Aerated concrete	AAC 3	[kN]	0,32 (0,43) ⁵⁾	0,30	0,80
Aerated concrete	AAC 4	[kN]	0,54 (0,71) ⁵⁾	0,40	0,90

¹⁾ Required safety factors are considered.

²⁾ In case of the design of the GB 10 for tension, shear and bending the complete approval Z-21.2-123 has to be considered.

³⁾ Valid for tensile load, shear load and oblique load under any angle.

⁴⁾ Galvanised steel (gvz) and stainless steel A4.

⁵⁾ The values in brackets are decisive for member thickness ≥ 150 mm.

⁶⁾ Minimum possible axial spacing while reducing the permissible load.

⁷⁾ Minimum possible edge distance.

⁸⁾ Values in brackets apply to AAC 2.

⁹⁾ GB 8 and GB 14 are not part of the approval.