

LOADS

Aircrete anchor GB

Highest permissible loads¹⁾ for a single anchor in aerated concrete.

The given loads are valid for fischer- safety screws⁴⁾ acc. attached table.

For the design the complete approval Z-2 1.2-123 has to be considered.

Type			GB 8	GB10	GB14
Min. spacing ⁷⁾	s_{min}	[mm]	150 (100) ⁸⁾	200 (150) ⁸⁾	300 (200) ⁸⁾
Min. edge distance ²⁾	c_{min}	[mm]	100 (75) ⁸⁾	150 (100) ⁸⁾	200 (150) ⁸⁾
Min. edge distance to solidified joints ⁶⁾	c_{min}	[mm]	9	10	12
min. member thickness	h_{min}	[mm]	75	100	200 ⁵⁾
Anchorage depth	h_{ef} (h_V)	[mm]	50	55	75
Permissible load in the respective base material F_{perm} ³⁾					
Aerated concrete	PB2, PP2 (G2)	[kN]	0,20	0,25	0,40
Aerated concrete	P3,3 (GB3,3)	[kN]	0,30	0,50	0,80
Aerated concrete	≥ PB4, PP4, P4,4 (≥ G4 , GB4,4)	[kN]	0,40	0,60	0,90
Tensile zone of aerated concrete roof- and ceiling slabs acc. DIN 4223	≥ P3,3 (GB3,3)	[kN]	-	-	0,30

¹⁾ Required safety factors are considered.

²⁾ Minimum permissible edge distance.

³⁾ Valid for tensile load, shear load and oblique load under any angle. For combinations of tensile loads, shear loads and bending moments see approval.

⁴⁾ gvz and A4.

⁵⁾ The minimum member thickness of aerated concrete roof- and ceiling slabs is 150 mm.

⁶⁾ Only in aerated concrete walls.

⁷⁾ Minimum possible axial spacing while reducing the permissible load.

⁸⁾ Values in brackets apply to PB2, PP2 (G2).