

Aircrete anchor GB

Permissible or recommended loads^{1) 2)} for a single anchor in aerated concrete.

Type		GB 10 ²⁾	GB 8 ³⁾	GB 10 ³⁾	GB 14 ³⁾
Screw diameter	[mm]	7	5	6	10
Minimum spacing ⁴⁾	s_{min} [mm]	100	150 (100) ⁶⁾	150 (100) ⁶⁾	300 (200) ⁶⁾
Minimum edge distance ⁵⁾	c_{min} [mm]	100	100 (75) ⁶⁾	100 (75) ⁶⁾	200 (150) ⁶⁾
Minimum member thickness	h_{min} [mm]	120	75	120	200
Nominal embedment depth	h_{nom} [mm]	55	50	55	75
Load in the respective base material		Permissible loads F_{perm} ⁷⁾	Recommended loads F_{rec} ⁸⁾		
AAC 2 $\rho \geq 0.35$ [kg/dm ³]	[kN]	0.21	0.18	0.20	0.40
AAC 4 $\rho \geq 0.50$ [kg/dm ³]	[kN]	0.54 (0,71) ⁹⁾	0.40	0.50	0.90

¹⁾ Required safety factors are considered. Valid for tension load, shear load and oblique load under any angle.

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⁾ Not part of the approval. Valid for installation and use in dry base material for temperatures in the substrate up to +24 °C (resp. short term up to +40 °C).

⁴⁾ Minimum possible axial spacing while reducing the permissible load.

⁵⁾ Minimum possible edge distance.

⁶⁾ Values in brackets apply to AAC 2.

⁷⁾ Value only applies in connection with GB 10 and fischer safety screw according to approval Z-21.2-123.

⁸⁾ Values are valid in combination with wood screws acc. DIN 571.

⁹⁾ The values in brackets are decisive for member thickness ≥ 150 mm.