Loads

Aerated concrete plug FFA

Recommended loads[1] for a single anchor in aerated concrete and gypsum blocks.
The given loads are valid for screws with the specified diameter and metric screws with the specified thread size.

Type			FFA 8		FFA 10		FFA 14	
Screw diameter		[mm]	6.0	M5	6.0	M6	10.0	M8
Min. edge distance	c_{min}	[mm]	100	100	150	150	200	200
Recommended load in the respecative base material F_{empf} [2]								
Aerated concrete	AAC 2 ≥ 2.5 N/mm²	[kN]	0.24	0.19	0.26	0.23	0.44	0.37
Aerated concrete	AAC 4 ≥ 5.0 N/mm²	[kN]	0.51	0.35	0.56	0.56	0.90	0.67
Aerated concrete	AAC 6 ≥ 7.5 N/mm²	[kN]	0.71 [3]	0.55 [3]	0.88 [3]	0.87 [3]	1.52 [3]	0.74 [3]
Gypsum block	ρ ≥ 0.85 kg/dm³	[kN]	0.54	0.41	0.61	0.72	0.98	0.63

[1] Required safety factors are considered. 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).

[2] Valid for tensile load, shear load and oblique load under any angle.

[3] Loads are valid for plastered aerated concrete. For unplastered aerated concrete, the loads must be reduced by 60% and a larger drill diameter is recommended: FFA 8 ø 10 mm, FFA 10 ø 12 mm, FFA 14 ø 16 mm.