Aircrete anchor GB

Highest permissible loads[1] for a single anchor in aerated concrete.
The given loads are valid for fischer- safety screws[4] acc. attached table.
For the design the complete approval Z-21.2-123 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	150	200
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 slaps 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 slaps 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).