



Pipes



Suspended ceilings



## BUILDING MATERIALS

Approved for:

- Aerated concrete with compressive strength 2 to 4 N/mm<sup>2</sup>
- Aerated concrete wall or ceiling boards with compressive strength 3.3 to 4.4 N/mm<sup>2</sup>

## APPROVAL / CHARACTERISTICS



# AIRCRETE ANCHOR GB

## Approved safety in aerated concrete

### ADVANTAGES

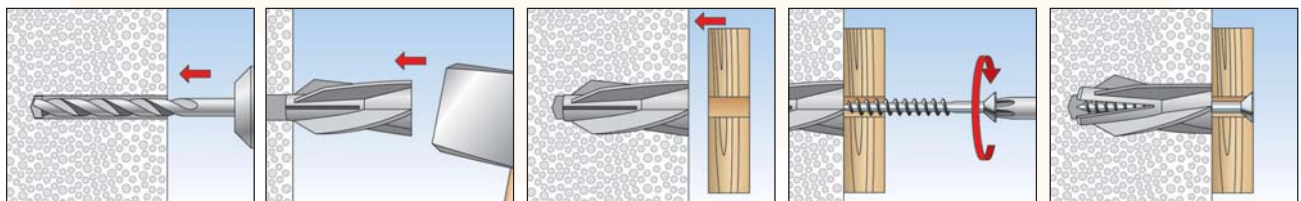
- The general building approval guarantees approved safety for use in safety-relevant applications.
- The spiral-shaped outer ribs cut a positive fit in the soft building material, thus ensuring the best pressure distribution and load-bearing capacity.
- Can be installed with a hammer - there is no need for special tools, thus saving time and money for the installation.
- The GB can also be used safely outside (e.g. in façade installation) when combined with the approved fischer safety screw in A4, stainless steel.

### APPLICATIONS

- Suspended ceilings (only GB 14)
- Cable trays
- Pipelines
- Guard rails
- Façade and roof constructions made of wood and metal
- Canopy brackets
- Letter boxes
- Clothes lines

### FUNCTIONING

- The GB is suitable for pre-positioned installation.
- The spiral-shaped outer ribs ensure a positive fit connection between the building material and anchor.
- The required screw length is given by: anchor length + fixture thickness + 1 x screw diameter.
- The GB must be used with fischer safety screws to fulfil the approval and to achieve the maximum load-bearing capacity.
- GB 14 is approved for use in cracked aerated concrete.
- Use rotary drilling to create the drill hole.
- The GB can be used in unplastered aerated concrete.

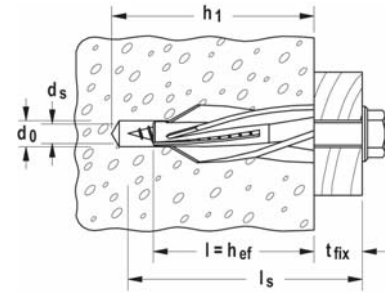


# AIRCRETE ANCHOR GB

## TECHNICAL DATA



Aircrete anchor GB



Item	Art.-No.	Approval DIBt	Drill hole diameter $d_0$ [mm]	Min. drill hole depth $h_1$ [mm]	Plug length = min. anchorage depth $l = h_{ef}$ [mm]	fischer safety screw $d_s$ [mm]	Sales unit [pcs]
GB 8	050491	●	8	60	50	5	25
GB 10	050492	●	10	65	55	7	20
GB 14	050493	●	14	90	75	10	10

## FISCHER SAFETY SCREW FOR GB

Fixing type	Usable length $t_{fix}$		Screw dimension * $\emptyset \times l_s$	Screw material			
				Zinc plated and passivated steel 6.8		Stainless steel of the corrosion resistance classe III, e.g. A4	
	[mm] min.	[mm] max.		Art.-No.	Art.-No.	Art.-No.	Art.-No.
GB 8	5	30	5 x 85	089230 <sup>1)</sup>		089240 <sup>1)</sup>	
GB 10	0	3	7 x 65		080404		080260
	5	23	7 x 85	089170	080405	089244	080261
	25	43	7 x 105	089172			
	40	58	7 x 120	089174	080407		
	60	78	7 x 140	089176	080408		
GB 14	85	103	7 x 165	089178			
	0	10	10 x 95		080412		080266
	0	20	10 x 105	089186	080413		080271
	35	55	10 x 140	089188	080415		
	60	80	10 x 165	089190	080416		

<sup>1)</sup> Cross drive recess Z.

\* Further sizes on request.

## LOADS

### Aircrete anchor GB

Highest permissible loads<sup>1)</sup> for a single anchor in aerated concrete.The given loads are valid for fischer- safety screws<sup>4)</sup> acc. attached table.

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

Type			GB 8	GB 10	GB 14
Min. spacing <sup>7)</sup>	$s_{min}$	[mm]	150 (100) <sup>8)</sup>	200 (150) <sup>8)</sup>	300 (200) <sup>8)</sup>
Min. edge distance <sup>2)</sup>	$c_{min}$	[mm]	100 (75) <sup>8)</sup>	150 (100) <sup>8)</sup>	200 (150) <sup>8)</sup>
Min. edge distance to solidified joints <sup>6)</sup>	$c_{min}$	[mm]	9	10	12
min. member thickness	$h_{min}$	[mm]	75	100	200 <sup>5)</sup>
Anchorage depth	$h_{ef} (h_v)$	[mm]	50	55	75
<b>Permissible load in the respective base material <math>F_{perm}</math> <sup>3)</sup></b>					
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	$\geq$ PB4, PP4, P4,4 ( $\geq$ G4, GB4,4)	[kN]	0,40	0,60	0,90
Tensile zone of aerated concrete roof- and ceiling slabs acc. DIN 4223	$\geq$ P3,3 (GB3,3)	[kN]	-	-	0,30

<sup>1)</sup> Required safety factors are considered.<sup>2)</sup> Minimum permissible edge distance.<sup>3)</sup> Valid for tensile load, shear load and oblique load under any angle. For combinations of tensile loads, shear loads and bending moments see approval.<sup>4)</sup> Zinc plated and A4.<sup>5)</sup> The minimum member thickness of aerated concrete roof- and ceiling slabs is 150 mm.<sup>6)</sup> Only in aerated concrete walls.<sup>7)</sup> Minimum possible axial spacing while reducing the permissible load.<sup>8)</sup> Values in brackets apply to PB2, PP2 (G2).

Chemical fixings / Steel anchors / Fixings - AIRCRETE ANCHOR GB

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