# Aircrete anchor GB Green

Secure in aerated concrete

Radiators

Trellis



## Applications

- Pipelines
- Letter boxes
- Trellis
- Handles
- Gratings
- Electrical installations

## Certificates

## Advantages

- Produced with at least 50% renewable raw materials and therefore particularly environmentally friendly.
- The spiral-shaped outer ribs cut a positive fit in the soft building material, thus ensuring best pressure distribution and load-bearing capacity.
- Can be applied with a hammer – there is no need for special tools, thus saving time and money for the installation.

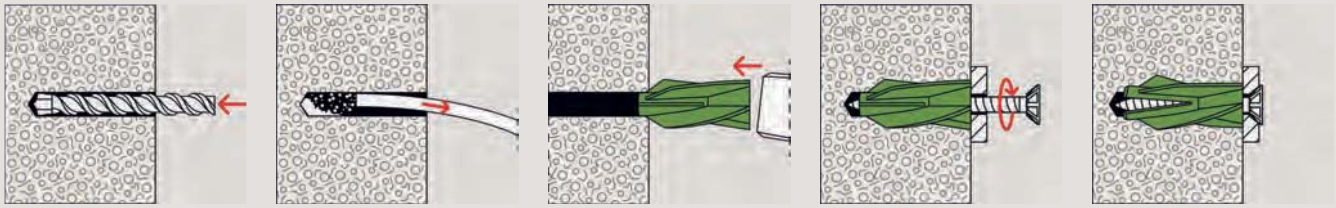
## Building materials

- Aerated concrete ≥ AAC 2
- Aerated concrete and ceiling panels of compressive strength ≥ 3.3

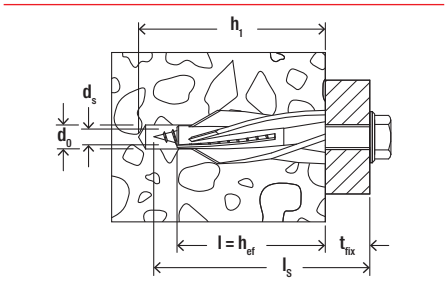
## Functioning

- The aircrete anchor GB GREEN is suitable for pre-positioned installation.
- The spiral-shaped outer ribs cut a positive fit into the soft building material when knocked in, thus ensuring optimal pressure distribution and load-bearing capacity.
- The required screw length is given by the plug length + fixture thickness + 1 x screw diameter.
- Rotary drilling of the hole is required.
- Can be used in unplastered aerated concrete.

## Installation GB Green








## Technical data

**Aircrete anchor GB Green**

GB Green

| | Item No. | 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 $d_s \times l_s$ [mm] | Sales unit [pcs] |
|---|---|---|---|---|---|---|
| **Item** | | | | | | |
| **GB Green 8** | **524870** | 8 | 60 | 50 | 5 | 20 |
| **GB Green 10** | **524871** | 10 | 65 | 55 | 7 | 18 |

## fischer Safety srew for GB

| Type | Usable length | | Screw dimension* | Zinc plated and passivated steel | | Stainless steel, corrosion resistance class III, e. g. A4 | |
|---|---|---|---|---|---|---|---|
| | min. $t_{fix}$ [mm] | max. $t_{fix}$ [mm] | Ø x $l_s$ | Countersunk head, TX star recess drive Art.-No. | Hexagonal head Art.-No. | Countersunk head, TX star recess drive Art.-Nr. | Hexagonal head Art.-Nr. |
| **GB 8** | 5 | 30 | 5 x 85 | 089230[1] | | 089240[1] | |
| **GB 10** | 0 | 5 | 7 x 67 | | 80404 | | |
| | 5 | 25 | 7 x 87 | 89170 | 80405 | 89244 | 80261 |
| | 25 | 45 | 7 x 107 | 89172 | | | |
| | 40 | 58 | 7 x 120 | 89174 | 80407 | | |
| | 60 | 78 | 7 x 140 | 89176 | 80408 | | |
| | 85 | 105 | 7 x 167 | 89178 | | | |
| **GB 14** | 0 | 10 | 10 x 95 | | 80412 | | |
| | 0 | 20 | 10 x 105 | 89186 | 80413 | | 80271 |
| | 35 | 55 | 10 x 140 | 89188 | 80415 | | |
| | 60 | 80 | 10 x 165 | | 80416 | | |

[1] Cross drive recess Z.
[2] Further sizes on request.

## Loads

**Aircrete anchor GB Green**

Recommended loads[1] for a single anchor in aerated concrete.
Load values apply when using fischer safety screws[2] according to selection table.

| Type | | | GB Green 8 | GB Green 10 |
|---|---|---|---|---|
| **Diameter fischer safety screw** | | **[mm]** | **5** | **7** |
| **Minimum spacing**[3] | $s_{min}$ | **[mm]** | 150 (100)[5] | 100 |
| **Minimum edge distance**[4] | $c_{min}$ | **[mm]** | 100 (75)[5] | 100 |
| **Minimum member thickness** | $h_{min}$ | **[mm]** | 75 | 120 |
| **Nominal embedment depth** | $h_{nom}$ | **[mm]** | 50 | 55 |
| **Recommended load ($F_{rec}$) in the respective base material** | | | | |
| AAC 2 | $\rho \geq 0{,}35$ [kg/dm³] | **[kN]** | 0.18 | 0.21 |
| AAC 4 | $\rho \geq 0{,}50$ [kg/dm³] | **[kN]** | 0.40 | 0.54 (0,71)[6] |

[1] Required safety factors are considered. Valid for tension load, shear load and oblique load under any angle.
[2] Galvanised steel (gvz) and stainless steel (R).
[3] Minimum possible axial spacing while reducing the permissible load.
[4] Minimum possible edge distance.
[5] Values in brackets apply to AAC 2.
[6] The values in brackets are decisive for member thickness ≥ 150 mm.