

Alsifix Carbon

Approved ETICS screw anchor with steel screw for the direct fixing of insulation boards in alsecco facade systems



AREAS OF APPLICATION

Fixing of insulation boards in push-through installation, e.g. polystyrene, mineral wool and phenolic resin insulation boards. The ETICS screw anchor can be flush-mounted, countersunk or recessed depending on the insulation material. The plug must be supplemented by the appropriate plug accessories depending on the type of installation.

PRODUCT PROPERTIES

- Can assume large tensile forces
- non-ageing
- Optimised for thermal bridges
- Can be combined with the Alsifix VT 90 or SBL 140 plus combination disk for the fixing of special insulation types
- 100% placement control
- Faster installation speed
- Can be combined with the Alsifix VT 2G combination disk for recessed plug installation in mineral wool insulation board type WAP-zg
- Countersunk plug installation without additional combination disks possible in polystyrene and mineral wool insulation boards WAP type zg and type zh

TECHNICAL DATA

Design

Diameter [mm]	required Anchoring depth [mm]/ usage categories	Length of shank [mm]	Point thermal transmittance λ_x [W/K]
Disc: 60	≥ 25 : A, B, C, D	115 - 455	0,001: recessed/co untersunk
Plug: 8	≥ 65 : E		0,002: flush

Use categories

Category	Substrate



A =	Concrete, weather shell
B =	Solid bricks, solid sand-lime bricks, solid lightweight concrete bricks
C =	Vertically perforated bricks, perforated sand-lime bricks, lightweight concrete hollow blocks
D =	Lightweight aggregate concrete
E =	Aerated concrete

Accessories

For mineral wool insulation boards:

Combination disk Alsifix SBL 140 plus for flush mounting, when mineral wool lamella insulation boards are anchored.

Combination disk VT 90 for flush mounting, when mineral wool type WAP-zg (e.g. Alsitherm Miwo 035 AeroPlus/Aero or mineral wool insulation board WV) is anchored.

Combination disk Alsifix VT 2G for the recessed mounting of Alsifix Carbon, when mineral wool type WAP-zg (e.g. Alsitherm Miwo 035 AeroPlus/Aero or mineral wool insulation board WV) is anchored. In the process, the plug is recessed in the insulation and covered with the Alsifix Miwo cap.

Alsifix Miwo cap for the countersunk mounting of Alsifix Carbon, when mineral wool type WAP-zg (e.g. Alsitherm Miwo 035 AeroPlus/Aero or mineral wool insulation board WV) is anchored.

Alsifix sealing plug, to seal Alsifix Carbon when flush mounted.

For polystyrene insulation boards:

Alsifix EPS cap for the countersunk mounting of Alsifix Carbon, when polystyrene insulation boards (e.g. Alsitherm EPS 032 Carbon or 034 Quattro) are anchored.

Alsifix sealing plug, to seal Alsifix Carbon when flush mounted.

APPLICATION INSTRUCTIONS

Preparation

Adapt plug type and anchoring depth to the substrate and the system version to be used.

Please observe the special information for the respective system approval or in the fixing brochure.

Application

General information

Execute drill hole depth generally at least 10 mm deeper than the required anchoring depth.

Execute the drill hole depth for countersunk / recessed mounting at least 25 mm deeper than the required anchoring depth.

Position drill holes at a right angle to the board surface.

After installation, the insulation disk must be positioned level and force-locked on the insulation board, in the countersink or on the reinforcement.

Avoid a jolting of the insulation board and damages when positioning the

insulation disk.

This plug can either be installed countersunk, recessed or flush.

Only use permissible and stipulated setting tools.

Countersunk mounting:

Make a drill hole through the insulation into the stable substrate. Drill hole depth for substrate. Drill hole depth for substrates A, B, C, D: at least 50 mm. Drill hole depth for substrate E: at least 90 mm.

Adjust the plug length on the support element of the setting tool.

Insert plug and screw in the plug screw using the Alsifix Tool Set setting tool and T30 special bit until the depth stop rests on the insulation.

Cover the plug with Alsifix EPS or Miwo cap.

Recessed mounting:

Make a drill hole through the insulation into the stable substrate. Drill hole depth for substrates A, B, C, D: at least 50 mm. Drill hole depth for substrate E: at least 90 mm.

Adjust the plug length on the support element of the setting tool.

Insert the plug through the combination disk Alsifix VT 2G and allow to click into place. Insert the plug with the combination disk into the drill hole and press it into the insulation up to the rim of the combination unit. Using the Alsifix Tool Set setting tool and T30 special bit, screw in the plug screw until the combination disk rests on the insulation.

Cover the plug with Alsifix Miwo cap.

Flush mounting:

Make a drill hole through the insulation into the stable substrate. Drill hole depth for substrates A, B, C, D: at least 35 mm. Drill hole depth for substrate E: at least 75 mm.

Combine and insert the plug and screw it in using the T30 special bit (setting tool support shaft) until the insulation disk / insulation disk with combination disk rests evenly on the insulation.

Cover the sleeve of the plug with Alsifix sealing plug.

Calculating the required anchor length

$$L_a > h_{ef} + t_{tol} + h_d$$

L_a = plug length

h_{ef} = required anchoring depth

t_{tol} = tolerance compensation or thickness of the unstable final coating

h_d = insulation thicknesses

Tolerance compensation is calculated based on:

- + thickness of unstable layers (thicknesses of old render, wood wool panels, facing bricks, etc. if available, the old render thickness is often approx. 20 mm)
- + thickness of adhesive mortar layer after pressing the insulation boards onto the wall (normally approx. 10 mm)

- + additional compensation for facade unevenness
- + if applicable, reinforcement layer thickness for anchoring through the mesh

STORAGE

Cool, dry and protected against frost.

PACKAGING INFORMATION

Colour	Charcoal coloured / as of 315 mm white
Packaging unit	Box 100 pieces

OTHER INFORMATION

Transportation	Not a hazardous material
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The above information is based on many years of experience and tests and is provided by us to the best of our knowledge. Such information applies in addition to our application guidelines. However, we cannot accept any responsibility for the correctness of our recommendations on account of wide variety of substrates and of on-site conditions and applications which are outside our control. Any recommendations provided by our employees and deviating from these documents must be given in writing. We reserve right to make any changes on account of technical progress or building regulations. Your technical advisor will be pleased to provide the relevant product data sheets.

