

Alsitherm Miwo 035 AeroPlus

Mineral wool insulation boards for alsecco facade systems



AREAS OF APPLICATION

Fireproof mineral wool insulation boards for bonded and mechanically fixed alsecco facade insulation systems

PRODUCT PROPERTIES

- Area of application according to DIN 4108-10: WAP-zg
- Approved according to the Ordinance on Hazardous Substances (GefStoffV), List of Prohibited Hazardous Substances (ChemVerbotsV and EU Directive 97/69 (note Q))
- Quality controlled according to DIN EN 13162 and general approval by building authorities
- Class A1 (DIN EN 13501-1), fireproof
- Improved effect of sound absorption and insulation
- Coating on both sides for possible adhesive machine application using a procedure for partial areas

TECHNICAL DATA

Fire behavior	A1 according to DIN EN 13501-1
Thermal conductivity λ	Rated value: 0,035 W/(mK) in accordance with DIN 4108-4
Dimensions	1,200 mm x 400 mm
Thickness	40 - 240 mm (1 layer) 200 - 400 mm (2 layers)
Melting point	≥ 1.000 °C
Tensile strength at right angles to board (to DIN EN 13163)	$\geq 3,5$ kPa
Water vapour diffusion resistance μ	approx. 1 according to DIN EN 12086

Dynamic Stiffness (to DIN EN 13162 / DIN EN 29052-1)

Type	Value
Mineral wool	$s' \leq 12 \text{ MN/m}^3, (\geq 60 - 70 \text{ mm})$
	$s' \leq 9 \text{ MN/m}^3, (\geq 80 - 90 \text{ mm})$
	$s' \leq 7 \text{ MN/m}^3, (\geq 100 - 110 \text{ mm})$
	$s' \leq 6 \text{ MN/m}^3, (\geq 120 - 130 \text{ mm})$
	$s' \leq 5 \text{ MN/m}^3, (\geq 140 - 170 \text{ mm})$
	$s' \leq 4 \text{ MN/m}^3, (\geq 180 - 220 \text{ mm})$

length-specific flow resistance r according to DIN EN 29053

30 kPA*s/m²

Density

120 kg/m³ ± 15 %

Coatings

Reinforcement side: coated red
Adhesive side: coated white

APPLICATION INSTRUCTIONS

Substrate pre-treatment

Pretreat substrates according to the application instructions for the adhesive.

Application as insulating material

Depending on the substrate, fix in position with system-specific bonding mortars using the spot-and-bead method or the combed-bed method (40 % bond min.) or by using a machine method (50 % bond min.).

The adhesive is applied to the white rear face of the insulation board.

Because of the existing adhesive coating, the mortar does not have to be applied to and worked into the board.

The boards are installed with the vertical joints staggered by at least 10 cm. The insulation material must be dovetailed at the corners of the building.

The vertical and horizontal joints of the boards must be kept free of adhesive.

Butt joints on insulation boards may not be above the connection zones of different components (e. g. ring beams, roller shutter boxes, element joints).

Here, the insulation material should bridge a space of at least 10 cm and be supported on both sides by means of a reliable bond.

Close open joints up to 5 mm wide between insulation with B1 Filling Foam; insert strips of insulation material to close larger joints.

Double layer bonding:

Single layers of the boards can be installed up to 200 mm and two layers of the boards from 200 to 400 mm. If two layers are installed, the boards must possess an insulation material thickness of at least 60 mm and not more than 200 mm. The second layer must be fully bonded to the first layer, with the joints staggered.

Insert plugs into the mineral-wool insulation boards in accordance with the building-inspectorate approval for the insulation material. Depending on the specific application and the plug type, the plugs can be inserted through the surface of the board and the joint, or solely through the board. Depending on the plug installation and position, the load-bearing capacities and application limits



must be taken into account when determining the number of plugs inserted.

Where the thickness of the insulation material exceeds 200 mm, only plugs with disc diameters of at least 90 mm may be used.

Flush plugs:

The plugs, with a disc diameter of 60 or 90 mm, can be fitted so that they are flush with the surface when inserted through the boards only or through the boards and joints.

Depressed plugs:

Depressed plugs, using the VT 2G disc, may also be used for insertion through the boards only or through the boards and joints.

Countersunk plugs:

Countersunk plugs can only be used for insertion through the boards. This is permissible up to a maximum wind load of $w_e \leq 1.44 \text{ kN/m}^2$ and an insulation material thickness of between 80 and 200 mm. The Alsifix Tool Set with a 20 mm cutting sheet must be used when inserting the plugs.

If the plugs are to be inserted through the boards only, the plugs must be at least 15 cm from the edge of the board and spaced at least 20 cm apart.

Informations

The insulation material is not suitable for the incorporation of spiral plugs and mounting elements such as DoRondo-PE mounting cap or ZyRillos mounting cylinder, which are solely adhered to the insulation material. Components can only be fixed using corresponding mounting elements in insulation thickness.

Unrendered insulation boards on the facade must be protected against moisture and coated with reinforced undercoat render as soon as possible.

Do not install damaged insulation boards.

STORAGE

Dry, protected against moisture.

PACKAGING INFORMATION

Colour Reinforcement side: Red

Adhesive side: white

Packaging unit Please also refer to the current product range

OTHER INFORMATION

Waste code 17 06 04(class II waste disposal, household and construction waste disposal)

alsecco GmbH
Kupferstraße 50
D-36208 Wildeck
Phone 03 69 22 / 88-0
Fax 03 69 22 / 88-330
Internet: www.alsecco.de

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.



FASSADENKOMPETENZ