

Mineralwolle-Dämmplatte 035 FKD-MAX-C2

Mineral wool insulation board made of stone wool 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-zh
- 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
- Class A1 (DIN EN 13501-1), non-combustible
- 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	Rated value: 0,035 W/(mK) in accordance with DIN 4108-4
Dimensions	1200 x 400 mm
Thickness	60 - 300 mm (1 layer) > 300 - 340 mm (2 layers)
Melting point	≥ 1000 °C
Tensile strength perpendicular to the board (to DIN EN 13163)	$\geq 7,5$ kPa according to DIN EN 1607
Water vapor 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' 13 MN/m ² , (≥ 60 mm)
	s' 11 MN/m ² , (≥ 80 mm)
	s' 8 MN/m ² , (≥ 100 mm)

s' 7 MN/m², (≥ 120 mm)s' 6 MN/m², (≥ 140 mm)s' 5 MN/m², (≥ 160 - 180 mm)s' 4 MN/m², (≥ 200 - 220 mm)s' 3 MN/m², (≥ 240 - 300 mm)

length-specific flow resistance r according to DIN EN 29053	> 40 kPa*s/m ²
Density	approx. 105 kg/m ³ ± 15%
Coatings	base coat side: white adhesive side: white with coating-free stripes

APPLICATION INSTRUCTIONS

Substrate pre-treatment	Pretreat substrates according to the application instructions for the adhesive.
Application as insulating material	<p>Depending on the substrate, use a system-specific adhesive using the spot-and-bead method or the combed-bed method (adhesive contact area up to 200 mm ≥ 40%; > 200mm ≥ 50%) or by using a machine method (≥ 50%). The adhesive is applied to the white rear face of the insulation board.</p> <p>Because of the existing coating, a pre-coating is not necessary.</p> <p>The boards are installed with the vertical joints staggered by at least 10 cm. The insulation boards must be dovetailed at the corners of the building.</p> <p>The insulation boards are butted close together.</p> <p>The vertical and horizontal joints of the boards must be kept free of adhesive.</p> <p>The butt joints of insulation boards must not be positioned above the areas where different components meet (e.g. ring beams, shutter boxes, structural joints). The insulation boards should extend at least 10 cm beyond such areas, without a joint, and be securely bonded to both sides.</p> <p>Close open joints up to 5 mm wide between insulation with Füllschaum B1; insert strips of insulation material to close larger joints.</p> <p>Two-layer installation:</p> <p>The boards can be laid in one layer up to 300 mm and in two layers up to 340 mm. When laid in two layers, the boards must have an insulation thickness of at least 60 mm and no more than 180 mm.</p> <p>An adhesive contact area of at least 50 % must be achieved for systems with insulation thicknesses > 200 mm. The adhesive contact areas of 50 % must also be maintained between the single layers. When installing double-layered insulation boards, the insulation boards must be bonded to each other with an appropriate mineral adhesive.</p> <p>The second layer must be bonded with the first layer in a joint offset.</p> <p>Dowel mineral wool insulation boards according to the application document of the insulation material. Depending on the application situation and the type of dowel, the boards can be doweled either through the boards and joints or only through the boards. Depending on the dowel installation and position, the load bearing capacity and application limits must be taken into account when</p>



determining the dowel quantity.

For insulation thicknesses greater than 200 mm, dowelling under the glas fibre mesh is only possible with anchor plate diameters of at least 90 mm.

Dowelling flush with the surface:

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

Recessed dowelling:

Use the VT 2G disc for dowelling through the boards only or through the boards and joints.

Countersunk dowelling:

Countersunk dowelling is only possible through the boards only. This is permissible with Alsifix Carbon up to a maximum wind load $w_e \leq 1.96 \text{ kN/m}^2$ and an insulation thickness of 100 to 200 mm. The Alsifix Tool-Set with 20 mm cutting plate is to be used for installing the dowels.

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

Information

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	Insulation material: braun-yellow Base coat side: white Adhesive side: white with coating-free stripes
Packaging unit	Please also refer to the current product range

OTHER INFORMATION

Information on safety	The information contained in the current safety information sheet applies.
Transportation	Not a hazardous material
Waste code	17 06 04(class II waste disposal, household and construction waste disposal)

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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.



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