

Speedwall-Lamelle 041

Mineral wool insulation boards for alsecco facade insulation systems and internal ceilings



AREAS OF APPLICATION

Fire proof mineral insulation board in bonded and bonded + mechanically fixed alsecco facade systems, as well as for internal ceilings.

PRODUCT PROPERTIES

- Area of application according to DIN 4108-10: WAP-zh and DI
- 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
- Easy and quick application
- Great tensile strength
- Mineral-wool lamella board compliant with DIN-EN 13162: T5-DS(70,-)-CS(Y)40-TR80-WL(P)-MU1
- Fireproof

TECHNICAL DATA

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|---|---|
| Fire behavior | A1 according to DIN EN 13501 |
| Thermal conductivity λ | Rated value: 0,041 W/(mK) in accordance with DIN 4108-4 |
| Dimensions | Size: 1200 x 200 mm |
| Thickness | 40 - 400 mm |
| Melting point | ≥ 1000 °C |
| Tensile strength at right angles to board (to DIN EN 13163) | ≥ 80 kPa |
| Water vapour diffusion resistance μ | approx. 1 according to DIN EN 12086 |
| Density | approx. 80 kg/m ³ |
| Coatings | White on both sides |

APPLICATION INSTRUCTIONS

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| Substrate pre-treatment | Pretreat substrates according to the application instructions for the adhesive. |
| Application as insulation material in ETICS | <p>If a continuous layer of adhesive is applied to the mineral-wool lamella boards, use the buttering-floating method and comb the surfaces with a notched trowel.</p> <p>If a continuous layer of adhesive is applied to the wall surface, the adhesive mortar must be combed with a notched trowel just before the mineral-wool lamella board is placed in position. Offer up the coated side of the mineral-wool lamella board to the adhesive mortar, float it into position and press it into the bed.</p> <p>If the adhesive is applied to part of the wall surface ($\geq 50\%$), offer up the coated side of the mineral-wool lamella board immediately, and within 10 minutes at most, to the fresh adhesive mortar, float it into position and press it into the bed.</p> <p>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.</p> <p>Butt the mineral-wool lamella boards tightly together.</p> <p>The vertical and horizontal joints 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 materials should extend at least 10 cm beyond such areas, without a joint, and be securely bonded to both sides.</p> <p>Close open joints < 0.5 cm wide between insulation boards with B1 Filling Foam; insert strips of insulation material to close larger joints.</p> <p>If the substrates are unsuitable for adhesive fixing and at wind loads in excess of $-1,6 \text{ kN/m}^2$, mechanical fixing as stipulated in the general building inspectorate approval for the insulation material or ETICS will be required.</p> <p>Additional information for mineral-wool lamella boards with insulation material thicknesses > 200 mm</p> <p>The adhesive mortar is always applied by machine.</p> <p>At wind suction loads up to -1.1 kN/m^2 at least a 50 % bond is required.</p> <p>At wind suction loads up to -1.6 kN/m^2 at least a 70 % bond is required.</p> <p>Suitable supports must be used to ensure that the boards remain in position during installation. At corners of buildings only whole, full-length insulation boards must be installed in so far as geometric parameters allow.</p> <p>Depending on the building geometry, the mineral-wool lamella boards must also be mechanically fixed to sections of the facade using at least 3 plugs/unit. The requirements and installation specifications of the general building inspectorate approval must be complied with.</p> <p>The maximum field sizes of the render systems without expansion joints as set out in the system approval document must be complied with.</p> |
| Application as basement ceiling insulation | <p>Adhesive application using the buttering-floating or bead-spot method.</p> <p>Bonding of mineral wool insulation boards on ceilings only with quick setting adhesives such as Armatop MP or insulation adhesive MK.</p> <p>Fixing of ceiling insulation up to a grammage of more than 15 kg/m^2 (Building Rules List C): mechanical fixing if required (on unstable substrates) with system screw anchors/screws such as DDS/DDS-Z ceiling insulation screw and DDT plate;</p> |

DDA ceiling insulation anchor.

Fixing of ceiling insulation for a grammage of 15 kg/m²: Use fixings DDS-Z ceiling insulation screw and DDT plate approved by building authorities.

Butt insulation boards together.

Do not apply any adhesive to butt or bed joints.

The front edges of the insulation boards are not laminated and therefore, may be visible in the laying pattern. This must be observed when planning the laying pattern.

Subsequent paint coats or render coats are possible.

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

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| Colour | Reinforcement side: white Adhesive side: white |
| Packaging unit | Please also refer to the current product range |

OTHER INFORMATION

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| Information on safety | The information provided in the current safety data 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.

