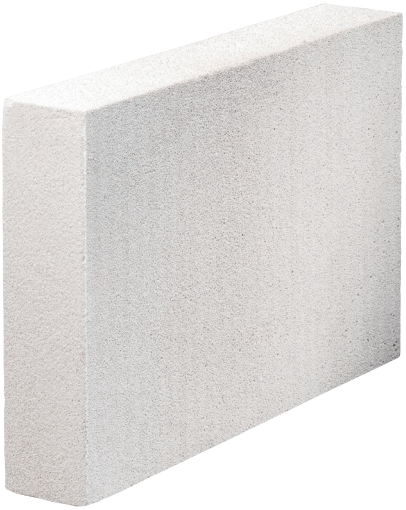
akurit MI-DI-042 Mineral insulation panel

interior insulation panel according to ETA-05/0179 made of non-flammable mineral foam (MI) – building material class A1

- thermal conductivity: λ = 0.042 W/(mK)
- dimensions:
  MI-DI-042: 600 x 380 mm
  MI-DI-042-LP: 500 x 150 mm



Applications

- for the interior insulation of walls
- for underside insulation systems, e.g. in underground car parks, basements, passageways etc.

Properties

- entirely mineral-based
- ecological
- heat and sound insulating
- vapour-permeable
- good workability
- dimensionally stable
- Inhibitory effect against fungi and micro-organisms
- recyclable
- capillary active

Composition

- Thermal insulation material made of calcium silicate hydrates

Substrate

Condition / Testing

- The substrate must be dry, load-bearing, clean, dust-free and free of adhesion-reducing residues, release agents, efflorescence and sintered coatings.
- The substrate for the bonding process is to be checked for load bearing capacity according to the state of the art and relevant standards and pre-treated if necessary.

Pretreatment

- Non-load-bearing coatings must be completely removed.
- Gypsum plaster, gypsum fillers and similar coatings are to be removed without residue before attaching the insulation panels.

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Processing

Applying / Processing / Assembling

- The insulation panel can be cut to length with aerated concrete saws.
- For bonding and reinforcing the insulation panels, AKURIT SK-MI mineral filling and adhesive mortar is to be used.
- The insulation panel must be glued over the whole area.
- The insulation panels are to be pressed into the fresh bed of adhesive mortar, floated and pressed on without cavities immediately after applying the adhesive.
- The adhesive mortar is to be combed on with a notched trowel immediately before positioning the insulation panel.
- Attach the insulation panels together exactly.
- Do not allow any adhesive mortar to get into the panel joints.
- No open joints must develop between the panels.
- When gluing soffits, if an overall weight of the insulation of 15 kg/m² including subsequent coating is exceeded, the AKURIT DDS-Z ceiling insulation screw and AKURIT DDT ceiling insulation plate is to be used.
- Panel offsets can be levelled using a sanding board.
- The reinforcement layer is made with AKURIT SK-MI mineral filling and adhesive mortar according to the processing regulations in the technical data sheet. When reinforcing soffits, anchors must be inserted through the reinforcement layer. 4 anchors/m² are to be planned for this purpose.

Subsequent coating / workability

- Remove dust from insulation panels before further coating.
- It is possible to design the surface of the insulation with water vapour diffusion permeable coatings.
- Additional measures for pretreating the substrate may be necessary, depending on the subsequent coating.
- The maximum plaster application thickness should not exceed one centimetre in case of interior insulation systems.

Tool cleaning

- Clean all tools and equipment with water immediately after use.

Notes

- Damaged or soaked insulation panels must not be installed. Adhesive mortar in the panel joints, the use of contaminated leftover panels as well as patchwork must be avoided.
- Interior insulation systems shift the dew point and should be structurally evaluated before installation.

Storage

- Store dry and as per instructions.

Technical Data

Application abbreviation	WAP acc. DIN 4108-10
Fire behaviour	A1 (non-flammable) in accordance with DIN EN 13501
Rated value of the thermal conductivity λ	0,042 W/(mK)
Water vapour diffusion resistance μ	3 - 7
Rohdichte	ca. 110 kg/m³
Compressive strength	≥ 220 kPa
Panel format	Reveal panel 30 mm: 500 x 50 mm; Panels ≥ 50 mm: 600 x 380 mm

General notes

This information sheet provides only general recommendations. Should you have any queries relating to a specific application, please contact our technical sales advisor or call our hotline: +49 541 601-601. All of the details given are based on our current knowledge and experience and on the assumption that the materials are professionally applied and used for their normal purpose. All of the details are non-binding and do not release users from their duty to undertake their own tests to ensure suitability for the intended application. Due to the effects of different weather, processing and construction site conditions, no guarantee can be given for the general validity of all details. We reserve the right to make changes as a result of further development of the product and applications engineering. The general rules for construction engineering, the valid standards and guidelines, and the technical working guidelines must be observed. The publication of this technical data sheet renders all previous editions of this data sheet void. Please obtain the latest information from our website.

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