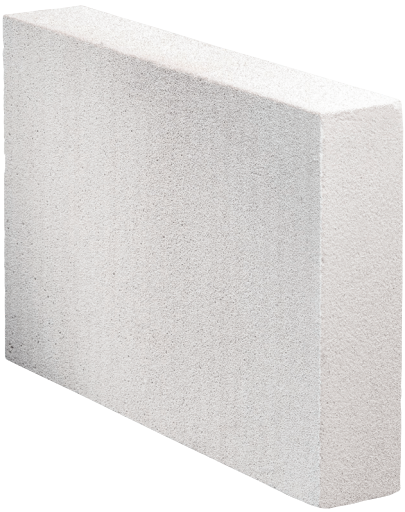
akurit MI-XP 045 Mineral insulation panel

WDVS insulation panel according to ETA-05/0093 made of non-flammable mineral foam (MI) – building material class A1
- thermal conductivity: λ = 0.045 W/(mK)
- dimensions: 600 x 390 mm



Applications

- as an insulating material on the outside in the AKURIT System Mono MI M
- For insulation systems underneath, e.g. in underground garages or basements.

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
- For checking and pre-treating the substrate, the general rules of technology and relevant standards are to be observed. For ETICS, these include DIN 55699 and BFS data sheet no. 21.

Pretreatment
- Non-load-bearing coatings must be completely removed.

Processing

Applying / Processing / Assembling
- The insulation board can be cut to size with a fine-toothed foxtail or an aerated concrete saw.
- For bonding and reinforcing the insulation panels, AKURIT SK-MI mineral filling and adhesive mortar is to be used.
- The insulation panel can be glued over the whole area or using the spot bead method. The adhesive area must be at least 70 %. Uneven areas in the substrate can be levelled up to 1 cm with adhesive mortar.
- 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.

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Subsequent coating / workability
- The insulation can be coated with the finish coats and coatings specified in the general type approval.
- Remove dust from insulation panels before further coating.
- Additional measures for pretreating the substrate may be necessary, depending on the subsequent coating.

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

Notes
- The specifications in the general type approval Z-33.43-1028 are to be observed when applying in the ETICS.
- 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.
- Not suitable for use in the base joint area.

Storage

- Store dry and as per instructions.

Technical Data

Application abbreviation	DAD, WAP, WZ, DEO, DZ according DIN 4108-10
Fire behaviour	A1 (non-flammable) in accordance with EN 13501
Rated value of the thermal conductivity λ	Reveal panels 20 – 40 mm: 0,047 W(mK); Plates ≥ 50 mm: 0,045 W/(mK)
Water vapour diffusion resistance μ	3
Bulk density	Reveal panels 20 – 40 mm: approx. 115 kg/m³ Plates ≥ 50 mm: approx. 110 kg/m³
Compressive strength	Reveal panels 20 – 40 mm: ≥ 350 kPa; Plates ≥ 50 mm: ≥ 300 kPa
Panel format	Reveal panels 20 – 40 mm: 600 x 250 mm; Panels ≥ 50 mm: 600 x 390 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.