MW 035 Basement ceiling insulation panel RP

textile laminated on visible side, insulation panel according to DIN EN 13162 made of non-flammable mineral wool (MW) – building material class A1

- thermal conductivity: λ = 0.035 W/(mK)
- dimensions: 800 x 625 mm

Applications

- application area: DI-zg for basement- and underground garage ceilings
- Thermal insulation, sound protection and preventive fire protection on ceilings for interior use
- not suitable for applications with requirements of the surface appearance regarding evenness and colour consistency

Properties

- Surface with increased compressive strength
- heat and sound insulating
- water-repellent
- vapour-permeable
- recyclable

Substrate

Condition / Testing

- The substrate must be dry, level, load-bearing, clean, firm and free of adhesion-reducing residues, separating layers, formwork oils, efflorescence and sinter layers.
- 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.
- Rusty and damp areas must not be covered with insulation until the damage has been rectified and the causes for the ingress of moisture have been properly eliminated.

Pretreatment

- Carefully remove adhesion-reducing layers and contamination, e.g. dust, sinter layers, efflorescence or release agent residue, using suitable measures.
- All traces of non-loadbearing coatings or paint should be removed without residues.
- Uneven areas in the substrate must be filled flush.
- Smooth concrete surfaces are to be mechanically roughened for better adhesion purposes. Alternatively a scratch filler can be applied with AKURIT KM adhesive mortar.

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Processing

Temperature

- Do not process or allow to dry out at air, material or substrate temperatures below +5°C, or if there is a risk of exposure to night frost, or at temperatures above +30°C, or in direct sunlight, or on heated up surfaces, and/or in windy conditions.

Mixing / Preparing / Processing

- Cut insulation panels to length with an insulation knife or a saw.

Applying / Processing / Assembling

- The basement ceiling insulation panels are bonded with AKURIT KM adhesive mortar.
- Bonding over the whole area in the combed bed method on even substrates: In the first work step the adhesive mortar must be applied directly to the back of the panel and permanently kneaded into the insulating material (press filling). During the second work step, the adhesive mortar is to be applied “wet-in-wet” onto the plaster baseboard.
- The adhesive is applied with a notched trowel (e.g. 10 x 10 mm notches). The edges (approx. 1 cm) remain free of adhesive.
- Position insulation panels tightly immediately, at the latest however 10 minutes after applying the adhesive, with at least 10 cm overlap butt jointed. Then press on the panels with a large, clean plastering float.
- In case of highly uneven substrates, an additional anchoring process is to be planned to secure the panel.
- When doing so, two anchors are to be positioned on each panel so that the panel is divided into three sections of equal size.
- If an overall weight of the insulation of 15 kg/m² is exceeded, the AKURIT DDS-Z ceiling insulation screw and AKURIT DDT ceiling insulation plate is to be used. This is necessary for insulating material thicknesses ≥ 140 mm.

Subsequent coating / workability

- Coating the surface later with paint, filler or plaster is not permitted.

Notes

- The course of the panels must be determined beforehand to ensure that the joints run straight and are butted close together. It is recommended to start in the middle of the room. Chalk lines help with the laying process.
- 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.
- The insulating material must be protected from extreme moisture before and during the application.

Storage

- Store dry and as per instructions.
- Protect against direct sunlight.

Technical Data

Designation key	MW-EN 13162 T5-CS(10)7,5-TR1-AFr5
Application abbreviation	DI-zg; WI-zg according to DIN 4108-10
Adhesive coating	without adhesive coating / with fleece lamination on the visible side
Panel format	L x W (mm): 800 x 625
Fire behaviour	A1 (non-flammable) in accordance with EN 13501
Melting point	≥ 1000 °C according to DIN 4102-17
Water vapour diffusion resistance μ	1 according to EN 12086
Nominal value of thermal conductivity λ	0.034 W(mK) according to DIN EN 13162
Rated value of the thermal conductivity λ	0,035 W(mK) according to EN 13162
Lengthways flow resistance	≥ 5 kPa*s/m² according to DIN EN ISO 29053

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.