

MW 035WE HW A2

Cellar ceiling insulation panel

Two-layer board made of non-combustible mineralwool and 10 mm thick cement-bonded fine-wood wool on one side (2 mm chip width)

- Chamfered edge, white surface
- non-flammable A2-s1, d0 according to EN-13501-1
- dimensions: 1000 x 500 mm



Applications

- for retrofitting thermal and acoustic improvements to reinforced concrete basement and garage ceilings

Properties

- heat and sound insulating
- vapour-permeable
- Resistant surface
- long-lasting
- quick and easy assembly

Packaging

Delivery only in complete packaging units on factory-owned pallets.

Article	Packaging unit	Weight
81854 / d = 50 mm	44 m ²	approx. 12 kg/m ²
81855 / d = 75 mm	30 m ²	approx. 14 kg/m ²
81856 / d = 100 mm	22 m ²	approx. 17 kg/m ²
81857 / d = 125 mm	18 m ²	approx. 19 kg/m ²
81858 / d = 150 mm	16 m ²	approx. 23 kg/m ²
81859 / d = 175 mm	12 m ²	approx. 26 kg/m ²
81860 / d = 200 mm	10 m ²	approx. 29 kg/m ²

Substrate

Condition / Testing

- The substrate must be dry, level, load-bearing, clean, firm and free of adhesion-reducing residues, separating layers, form-work 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

Mixing / Preparing / Processing

- Cut the insulation boards to size using tools fitted with a Widia saw blade (e.g. hand-held circular saw).

Applying / Processing / Assembling

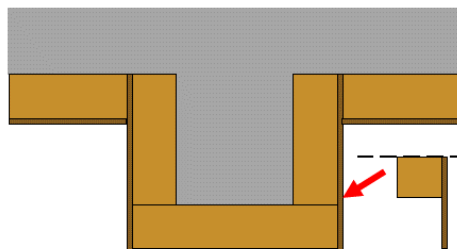
- Bonding alone is possible with akurit KM adhesive mortar up to and including 75 mm thickness. For surfaces exposed to wind suction, direct sunlight, strong temperature fluctuations or high humidity, doweling is necessary. The akurit KM adhesive mortar can be used for installation and to level out minor unevenness.
- The adhesive is applied with a notched trowel (e.g. 10 x 10 mm notches). The edges (approx. 1 cm) remain free of adhesive.
- For insulation thicknesses of 100 mm or more, we recommend applying the adhesive to the ceiling for better initial adhesion. Carry out adhesive tests in advance.
- 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 the outer corner area, the boards must be mitered or the insulation core cut out.
- Whole panels must always be used. Fitting pieces $\geq 0.15 \text{ m}^2$ are permitted in the edge area.
- Provide akurit DDS-Z ceiling insulation screw incl. DDT ceiling insulation plate with 8 dowels/m² for dowelling and set according to the technical data sheet of the screw (see also dowel diagram).

Notes

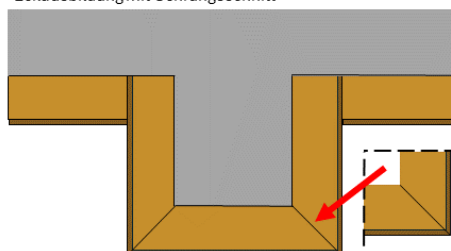
- The course of the panels must be determined beforehand to ensure that the joints run straight and are butted close together. It is recommended to start in the middle of the room. Chalk lines help with the laying process.
- Damaged or soaked insulation panels must not be installed. Adhesive mortar in 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.

Exterior corner area

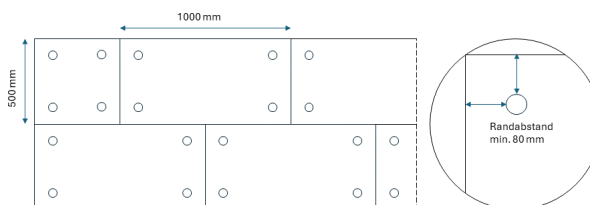
Eckausbildung Dämmplatte ausgeschnitten



Eckausbildung mit Gehrungsschnitt



Dowel scheme



Storage

- Store insulation boards horizontally, flat and dry.

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Technical Data

Designation key	WW-C/2-MW EN 13168 L1-W1-S1-CI1-CS10(30)-TR 7,5
Application abbreviation	DI according to DIN 4108-10
Panel format	L x W (mm): 1000 x 500
Fire behaviour	A2-s1, d0 according to EN 13501
Water vapour diffusion resistance μ	Mineral wool 1 / wood wool 5
Thermal conductivity	$\lambda = 0.035 \text{ W/(mK)}$
Compressive stress at 10% compression	$\geq 30 \text{ kPa}$
Tensile strength vertical to panel plane	$\geq 10 \text{ kPa}$
Sound absorption coefficient	1,00 Mittelwert

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.