



## TECHNICAL DATA SHEET

# MULTIPOR REVEAL

## 1. PRODUCT DESCRIPTION

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Fibre-free, solid, purely mineral, monolithic reveal insulation board made of calcium silicate hydrates.

## 2. FIELD OF APPLICATION

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Soffit insulation board for external thermal insulation composite systems according to system approval: Z-33.43-857} in conjunction with system-associated adhesive and reinforcing mortars, e.g. XPor light mortar (ETICS). The complete insulation system is non-combustible A2 according to DIN 4102.

Soffit insulation board for iPor interior insulation, in accordance with DIN 4108-3, in conjunction with system-associated adhesive and reinforcing mortars, e.g. Mycal-Por (IDS).

Generally approved by the building authorities for: window and door reveals

Suitable for: Masonry or concrete, rendered and unrendered

Application type according to DIN 4108-10: WAP; WI.

Not suitable for: horizontal and inclined surfaces exposed to weathering; metallic substrates; wood substrates; saponifiable existing substrates; organic substrates; gypsum renders; distempers.

## 3. PRODUCT PROPERTIES

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- easy to use
- good heat insulation
- in a handy format
- no hazardous emissions
- fire behaviour: non-flammable, class A1 according to EN 13501-1
- sound in terms of building biology
- completely recyclable
- especially stable in dimension
- resistant to aging
- The insulation panels comply with the high standards of the VDPM e.V. (association for insulation systems, renders and mortars)
- Externally monitored by the Kiwa GmbH MPA Berlin-Brandenburg

### MATERIAL CHARACTERISTICS:

- |   |                               |
|---|-------------------------------|
| - Rated value of thermal conductivity:                | 0.047 W/mK                    |
| - Nominal value of thermal conductivity $\lambda_D$ : | 0.045 W/mK                    |
| - Panel size:   | 600 x 250 mm                  |
| - Panel thickness:                                    | 20 / 30 / 40 mm               |
| - Edge formation:                                     | square                        |
| - Bulk density according to EN 1602:                  | approx. 115 kg/m <sup>3</sup> |
| - Sorption moisture:                                  | ≤ 6 M.-%                      |
| - Compressive strength:                               | ≥ 350 kPa                     |
| - Thickness tolerance:                                | T1 ±2 mm                      |
| - Width tolerance:                                    | W2 ±2 mm                      |
| - Length tolerance:                                   | L2 ±2 mm                      |
| - Colour shade:                                       | light grey                    |

### 4. APPLICATION INSTRUCTIONS

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#### SUBSTRATE PREPARATION:

The substrate must be strong, dry, clean, sound and free from adhesion-reducing residues and must not be too absorbent. The substrate must be suitable for a tension-resistant adhesion. Unevenness of up to 1 cm/m may be bridged. Larger unevenness must be mechanically levelled or by applying a render in accordance with DIN EN 998-1. The insulation panel may also be used on soffits: Strongly sanding or unevenly absorbent surfaces should be primed with Indulaqua primer. Observe the Technical Data Sheet of the primer with regard to execution and dilution. Application in KEIM interior climate systems: Highly absorbent substrates must be sufficiently prewetted. Substrates containing gypsum as well as vapour-tight coatings, wallpapers or similar must be removed. Microbially infested substrates must be pretreated with KEIM Mycal-Fix and removed when wet (at least up to 0.5 m above the visible area) to minimize spore flight as far as possible. Appropriate protective measures, e.g. respiratory mask, must be observed. Pretreatment of the substrates with Mycal-Ex or Mycal-XO is recommended.

#### APPLICATION CONDITIONS:

Ambient and substrate temperature during application and drying from  $\geq 5$  °C to  $\leq 30$  °C. Do not apply in direct sunlight or on sun-heated substrates. Protect surfaces from direct sun, wind and rain during and after application.

#### APPLICATION:

##### GLUING:

The insulation panel may also be used on soffits: The insulation panels are butted tightly and glued in a bond from bottom to top. Apply the appropriate adhesive mortar to the insulation panels using the bead-and-dot method or over the entire surface. Push the boards into place. At the edges of the building, the insulation panels are glued offset. For full-surface gluing, apply the system-specific adhesive mortar to the insulation panels and, if necessary, to the substrate using a 10 mm toothed trowel. Immediately float the insulation panels into the fresh mortar bed with slight pressure. Closing of unavoidable defects and joints up to 5 mm wide with Iso Top Thermfoam B1 is permissible. General instruction with regard to gluing: Do not apply adhesive to the panel joints. Application in KEIM interior climate systems: The panels are butted tightly and glued in a bond from bottom to top. Apply the system-specific adhesive mortar to the entire surface of the insulation panels, to the substrate, or to the insulation panels and the substrate using the floating-buttering method. Push the boards into place. At the edges of the building, the insulation panels are glued offset. All connecting joints are made airtight with a joint sealing tape. An edge insulation strip must be inserted at the connection to floors and moisture-sensitive components. System supplements are also possible across systems with Multipor Wedge (insulation wedge), Multipor Reveal (reveal panel), Mycal-CS-Dämmkeil (insulation wedge) or Mycal-CS-Laibungsplatte (reveal panel).

##### DOWELING:

Check the adhesion of the insulation panels after at least 3 days. Insulation panels that are not bonded or damaged must be replaced. The insulation panel may also be used on soffits: Anchoring is carried out in glued and dowelled ETICS systems using ETICS fasteners approved by the general building authorities or by the European authorities according to DIN EN 1991-1-4/NA. The required dowel quantity depends on the building height and the respective wind zone in which the object is located. For further information, please refer to our ETICS Technical Guide, Chapter #8, ETICS Wind Suction Loads. Application in KEIM interior climate systems: In the case of subsequent tiling work, the panels are additionally fastened through the mesh with suitable screw anchors and finished with another layer of Universalputz.

##### REINFORCEMENT:

After a sufficient setting time of the adhesive, apply the mixed, system-specific reinforcing mortar evenly to the insulation panels, preferably with a 10 mm toothed trowel. Embed the system-specific Glasfaser-Gittermatte (glass fibre mesh), overlap the edges by 10 cm and fill wet-in-wet with system-specific reinforcing mortar. The system-specific Glasfaser-Gittermatte should be embedded in the middle (layer thicknesses up to 6 mm) or in the upper third (layer thicknesses from 6 mm). The insulation panel may also be used on soffits: Thickness of the reinforcing layer depends on the respective system approval and can be in the range of approx. 5 mm. Application in KEIM interior climate systems: The layer thickness of the reinforcement layer should be approx. 5 mm.

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### 5. PACKAGING / TECHNICAL DATA

Panel size [mm]	Panel thickness [mm]	Rated value thermal conductivity [W/mK]	m <sup>2</sup> per bundle	Pieces per unit
600 x 250	20	0,047	1.80	12
600 x 250	30	0,047	1.20	8
600 x 250	40	0,047	0.90	6

#### PACKAGING / TECHNICAL DATA ADDITIONAL INFORMATION:

Delivery in cartons

### 6. STORAGE

max. storage time	Storage conditions
no maximum storage time	dry protect against weathering

#### STORAGE INFORMATION:

Transport packaging is not sufficient weather protection.

### 7. DISPOSAL

#### EC WASTE CODE:

Waste code: 17 06 04

### 8. SAFETY INSTRUCTIONS

no particular indications

The stated values and properties are the result of extensive development work and practical experience. Our recommendations for application, whether given verbally or in writing, are intended to provide assistance in the selection of our products and do not establish a contractual relationship. In particular, they do not release the purchaser and processor from the obligation to convince themselves of the suitability of our products for the intended application with due care, which is general practice in trade and crafts. The general rules of construction technology must be observed. We reserve the right to make modifications to improve the product or its application. This edition supersedes all earlier editions.



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