



TECHNICAL DATA SHEET

KEIM IPOR® TIPWALL

1. PRODUCT DESCRIPTION

Fibre-free, solid, purely mineral, monolithic interior insulation board made of calcium silicate hydrates. European Technical Assessment (ETA): ETA-05/0093.

2. FIELD OF APPLICATION

Interior insulation board for KEIM iPor interior insulation, in accordance with DIN 4108-3, in conjunction with system-associated adhesive and reinforcing mortars, e.g. KEIM Mycal-Por, to form a diffusion-open, moisture-regulating and heat-insulating interior insulation.

Generally approved by the building authorities for: interior walls; ceiling surfaces, indoors.

Suitable for: Masonry or concrete, rendered and unrendered; mineral render; natural stone; timber frame. The function of the system can be proven by suitable simulation methods.

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

Not suitable for: gypsum renders; wood substrates; distempers; metallic substrates; organic substrates; substrates with salt efflorescences.

3. PRODUCT PROPERTIES

- 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
- Externally monitored by the Kiwa GmbH MPA Berlin-Brandenburg

MATERIAL CHARACTERISTICS:

- | | |
|---|------------------------------|
| - Rated value of thermal conductivity: | 0,42 |
| - Nominal value of thermal conductivity λ_D : | 0,40 |
| - Panel size: | 600 x 390 mm |
| - Panel thickness: | 50 - 200 mm |
| - Edge formation: | square |
| - Bulk density according to EN 1602: | approx. 90 kg/m ³ |
| - Sorption moisture: | ≤ 6 M.-% |
| - Compressive strength: | ≥ 200 kPa |
| - Thickness tolerance: | T1 ±2 mm |
| - Width tolerance: | W2 ±2 mm |
| - Length tolerance: | L2 ±2 mm |
| - Colour shade: | light grey |

4. APPLICATION INSTRUCTIONS

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. Substrates containing gypsum as well as vapour-tight coatings, wallpapers or similar must be removed. Highly absorbent substrates must be sufficiently prewetted. 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 $\geq 5\text{ }^{\circ}\text{C}$ to $\leq 30\text{ }^{\circ}\text{C}$. Do not apply in direct sunlight or on sun-heated substrates. Protect surfaces from direct sun, wind and rain during and after application.

APPLICATION:

Cut to size with a fine-toothed saw.

GLUING:

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. 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. The insulation panels may also be adhered in 2 layers. The second layer of insulation panels is glued over the entire surface and in a staggered bond pattern (starting with half a row of panels). General instruction with regard to gluing: Do not apply adhesive to the panel joints. Do not create an insulation panel joint over a joint in the substrate underneath. 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 Clim-DK (insulation wedge) or Mycal Clima-LP (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. 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 KEIM 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 KEIM Glasfaser-Gittermatte (glass fibre mesh), overlap the edges by 10 cm and fill wet-in-wet with system-specific reinforcing mortar. The system-specific KEIM Glasfaser-Gittermatte should be embedded in the middle (layer thicknesses up to 6 mm) or in the upper third (layer thicknesses from 6 mm). Thickness of the reinforcement layer should be approx. 4 mm.

5. PACKAGING / TECHNICAL DATA

Panel thickness [mm]	m ² per pallet	Bundle per pallet
50	33.70	18
60	28.08	12
80	21.06	18
100	16.85	12
120	14.04	12
140	11.23	12

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Panel thickness [mm]	m ² per pallet	Bundle per pallet
160	9.83	12
180	8.42	12
200	8.42	12

Delivery by pallets only, larger thicknesses on request.

6. STORAGE

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

Please note max. stacking height of 2 m. Transport packaging is not sufficient weather protection.

7. DISPOSAL

Waste code: 17 06 04

8. SAFETY INSTRUCTIONS

No particular indications.

9. CERTIFICATES & QUALITY SEALS



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.



KEIMFARBEN GMBH

Keimstraße 16 / 86420 Diedorf / Tel. +49 821 4802-0 / Fax +49 821 4802-210
Frederik-Ipsen-Straße 6 / 15926 Luckau / Tel. +49 35456 676-0 / Fax +49 35456 676-38
www.keim.com / info@keimfarben.de