



## Interior Insulation Board

## Technical sheet

### Non-combustible, fiber-free, mineral insulation board made of natural raw materials for internal insulation purposes

#### Fields of application:

- thermal insulation of external walls from the inside
- thermal insulation of ceilings in the interior

#### System components:

- Special Adhesive
- Special Filler (for extensive application all over the surface)
- Special Primer (for priming the interior surface before finishing)

#### Properties:

- non-combustible (A1)
- high tear-off strength
- easy to handle
- ecological manufacture
- recommended by the Institute for Building Biology in Rosenheim, Germany

#### Technical data:

Material	Cement, calcium hydroxide, silicon dioxide, natural protein as pore builder
Dimensions	22 <sup>7</sup> / <sub>8</sub> " x 15" (58 x 38 cm) per board
Consumption	approx. 4.5 boards per m <sup>2</sup>
Thicknesses	2", 2 <sup>3</sup> / <sub>8</sub> ", 3 <sup>1</sup> / <sub>8</sub> ", 4", 4 <sup>3</sup> / <sub>4</sub> " (5, 6, 8, 10, 12 cm)
Combustibility	non-combustible, A1
Bulk density	219 lb/yd <sup>3</sup> (130 kg/m <sup>3</sup> ) ± 10 %
Compressive strength	0.360 N/mm <sup>2</sup> (360 KN/m <sup>2</sup> )
Tear-off strength	0.085 N/mm <sup>2</sup> (85 KN/m <sup>2</sup> )
Thermal conductivity λ	0.045 W/mK
Water vapour resistance μ	5

The data contained in this document are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions or technical data etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed. All former technical leaflets are replaced by this one.



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### **Processing:**

Interior Insulation Board is a component of the Mold Preventing Interior System. We recommend the use of the special filler, primer, and material components of the system for best installation.

### *The surface:*

The interior insulation board can be applied to any clean, adherent and sustainable building material. Residuals on the surface (acid salts, bitumen, coatings, oil and the like) should be removed before application. If necessary test the adhesion of the surface. High absorbing surfaces should be moistened.

### *The insulation of external walls:*

Interior insulation board is easy to cut with a saw (jack saw) to the desired dimension. As the board is very easy to cut, roundings and lead-throughs are fast and easily created. Mix the Special Adhesive according to its technical sheet and apply the adhesive either to the board or to the surface with a notched trowel. Uneven walls can be worked with the blob-bead method. Extremely uneven surfaces should be levelled with an equalising plaster. The boards should be applied in a running bond. Avoid open joints and press the boards against one another.

Edges should be protected with a non-corrosive edge protection (e. g. made of plastic, stainless steel or aluminium). The edge protection should be mounted with the Special Adhesive.

Interior insulation board can be worked with different finishing. The opportunities are described on page 3. Follow the technical sheets of the system components in use.

Interior Insulation Board can be as well worked without any finishing (e. g. as a ceiling cover in cellars). Bevel the edges before application approx. 5-25 mm. Then butt joint the boards with the Special Adhesive.

### *The insulation of ceilings:*

Mount Interior Insulation Boards on ceilings use additional ETIC fixings. The anchoring length should be minimum the thickness of the board.

The specified values are average values. The values of natural raw materials may vary marginally without affecting the quality of the product.

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Table 1: Finishing opportunities

Application	Steps				
	Step 1	Step 2	Step 3	Step 4	Finishing
<b>Plasters</b>					
Clay Plaster	Special Primer	fix a plaster mesh with special filler	Clay Plaster (one layer, 5-10 mm)		Anti-Condensation Coating Silicate paint or the like
Clay Plaster (with wall heating)	Special Primer	Clay Plaster (5-10 mm)	fix a plaster mesh (wet in wet)	Clay Plaster	Silicate paint or the like
Silicate Plaster	Special Primer	fix a plaster mesh with filler	Silicate Plaster		Silicate paint or the like
Limestone Plaster	Special Primer	Limestone Plaster (1st layer)	fix a plaster mesh (wet in wet)	Limestone Plaster (2nd layer)	Anti-Condensation Coating Wallpaper Dispersion paint
Limestone Cement Plaster	Special Primer	Limestone Cement Plaster (1st layer)	fix a plaster mesh (wet in wet)	Limestone Cement Plaster (2nd layer)	Anti-Condensation Coating Wallpaper Dispersion paint
<b>Alternatives</b>					
Interior Insulation Board	apply the 1st layer of boards	Special Primer	apply 2nd layer with Special Adhesive		see above
tiles	apply the 1st layer insulation boards	Special Primer	fix a plaster mesh with filler	tile adhesive	tiles
wallpapers	Special Primer	1st layer Special Filler	fix a plaster mesh (wet in wet)	2nd layer Special Filler	wallpapers
paint	Special Primer	1st layer Special Filler	fix a plaster mesh (wet in wet)	2nd layer Special Filler	paint

**Explanations:**

1. For the technological intermission between each step please follow the technical sheet of the product in question.
2. The above mentioned finishings are only recommendations and do not pretend to be complete, as actual opportunities are more extensive.

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### Material safety data sheet:

We provide the Material Safety Data Sheet on demand.

### Storage:

Store dry

### Packing units:

Thickness	Amount
2" (5 cm)	144 pcs/pallet (=31,74 m <sup>2</sup> )
2 <sup>3</sup> / <sub>8</sub> " (6 cm)	120 pcs/pallet (= 26.45 m <sup>2</sup> )
3 <sup>1</sup> / <sub>8</sub> " (8 cm)	84 pcs/pallet (= 18.51 m <sup>2</sup> )
4" (10 cm)	72 pcs/pallet (= 15.87 m <sup>2</sup> )
4 <sup>3</sup> / <sub>4</sub> " (12 cm)	60 pcs/pallet (= 13,22 m <sup>2</sup> )

### Accessories:

- Special Adhesive
- Special Primer
- Special Filler
- Clay Plaster Finish

More information at  
[www.eco-smart.com](http://www.eco-smart.com)

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