

Technical Data Sheet
**Pura Hydrophilic (capillary-active)
Mineral Insulating Board**



[Pura Minerale Dämmplatte hydrophil (kapillaraktiv)]

**non-combustible, fibre-free, hydrophilic mineral insulation board
made of natural raw materials for the interior insulation of buildings**

Areas of application:

- for the thermal insulation of exterior walls in interior spaces
- for the thermal insulation of ceilings in interior spaces

Characteristics:

- highly capillary-active
- high thermal insulation properties
- non-flammable (A1)
- easy to work with
- ecological manufacturing process, low emissions
- tested by the Institute of Building Biology

Technical data:

- Colour: Terracotta
- Main components: silica flour, lime hydrate
- Standard dimensions: 60 cm x 38 cm
- Use: approx. 4.4 boards per m²
- Boards thickness: 5/6/8/10/12 cm
- pH value: 9.5
- Construction material class: A1 non-flammable
in accordance with EN13501-1:2007+A1: 2009
- Bulk density: 85 kg/m³ up to 110 kg/m³
- Pressure resistance: ≥ 150 kPa
- Tear strength: 0.07 N/mm² (70 KN/m²)
- Thermal conductivity: $\lambda_{D23/50} = 0.040 \text{ W/(mK)}$
 $\lambda_{\text{Rating}} = 0.042 \text{ W/(mK)}$
- Diffusion resistance: μ -value 3-7

Instructions for use:

The mineral substrate must be level, free from impurities such as paint, wallpaper, salts, bitumen, oil, etc., and must be capable of bearing a load and suitable for adhesion (you may want to try adhering a test piece). If necessary, it can be pre-treated with redstone **primer [Grundierung]** to regulate absorption (if necessary, wet it a little beforehand).

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The **Pura hydrophilic (capillary action) mineral insulating boards [Pura Minerale Dämmplatte hydrophil (kapillaraktiv)]** are easy to work and can be easily cut to size with a handsaw (e.g. a tenon saw). This makes it possible to quickly create insulation wedges or shapes to fit curves and installations. In order to achieve adhesion over the entire surface, uneven substrates must be levelled (e.g. Using redstone **patching plaster [Ausgleichsputz]**). Then mix the **System Adhesive [Systemkleber]** (use **Special Adhesive SB [Spezialkleber SB]**) for substrates containing gypsum) and apply to the entire surface on the back of the board. Adhesive consistency and trowel tooth height should be selected so as to achieve full-surface adhesion between the board and substrate (trowel tooth height at least 8 mm; perform an adhesion test if necessary).

The Pura should be placed and aligned quickly (before the adhesive can form a skin or harden) by pressing down on the entire surface and "floating" the boards into position with staggered joints (avoid cross joints). The board joints are pushed close together without adhesive. Board edges that are left open are protected against damage with corrosion-free corner protection rails (plastic or aluminium). These are fixed by using either **System Adhesive [Systemkleber]** or **Special Adhesive SB [Spezialkleber SB]**.

Generally, an insulating plane without unnecessary holes and air gaps should be created throughout. The edges of hanging ceilings, floor screed, floor covers, etc., must be shortened whenever possible. Open joints and air gaps in the insulation layer must be avoided. In order to avoid possible tensions in the area of the insulation level, redstone **pre-compressed sealant tape [Komprimierband]** should be professionally applied to all flanking components.

To regulate the absorbency, redstone **primer [Grundierung]** should be applied to the surface of the board on the room side. The surface of the board is then finished with redstone breathable putty or plaster (see "Coatings" section). It is necessary to embed redstone **plaster mesh 165 [Putzgewebe 165]** in all instances. The respective technical data sheets for the system components must be observed. The use of third-party products (e.g. plasters, paints, etc.) is not recommended!

Dowelling:

No dowelling is necessary when adhering to walls without mechanical loads and when applying uncoated visible facing. On ceilings, pitched roofs, tiled surfaces, heavy coatings, and claddings, the build-up of layers must also be fastened to the load-bearing substrate using redstone "**Pura Dowels STRU**" dowels [**Pura Dübel STRU**] (depending on the surface weight, approx. 3-5 dowels/m²). In order for these safety dowels to appear flush, the holding plate for dowels must be applied on a mesh-reinforced layer (e.g. putty, plaster). The panel thickness of the holding plate (approx. 3 mm) must be considered when applying the final coating.

Mechanical loads (bathroom hygiene accessories, heaters, etc.) must be redirected to the carrying substrate (e.g. masonry) using suitable mounting equipment.

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Coatings:

The following breathable coatings are available in our range:

- **Levelling compound [Spachtelmasse]**
- **Luno Lime interior plaster [Luno Kalkinnenputz]**
- **Luno Lime smooth finish [Luno Kalkglätte]**
- **Luno Clay fine filler [Luno Lehm-Feinspachtel]**

These can then optionally be finished using the following breathable redstone top coatings:

- **Luno Climate cover [Luno Klima-Deck]**
- **Luno Silicate brush-on plaster [Luno Silikat-Streichputz]**
- **Luno Lime roll-on plaster [Luno Kalkrollputz]**
- **Luno Lime finishing coat [Luno Kalkfeinputz]**
- **Luno Clay colour [Luno Lehm-Farbe]**

Disposal:

Excess insulating board can be disposed of with normal construction debris.

Storage:

Store in a dry place.

Dimensions/Form of delivery/Article No.:

60 x 38 x 5 cm / 12 pcs./packet / PURA5
60 x 38 x 6 cm / 10 pcs./packet / PURA6
60 x 38 x 8 cm / 7 pcs./packet / PURA8
60 x 38 x 10 cm / 6 pcs./packet / PURA10
60 x 38 x 12 cm / 5 pcs./packet / PURA12

Other:

The requirements of the EC Safety Data Sheet must be adhered to.

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