



Mineral Heat Insulation Board Made of Calcium Silicate

Areas of application:

- Prevents mould growth
- Absorbs excess interior air humidity
- Prevents the formation of condensation
- Enhances the energy efficiency of walls and ceilings
- Improves indoor climate

Features/benefits:

- Controls humidity
- Capillary-active
- Breathable
- Mould-resistant
- Non-flammable (A1)
- Countless micropores
- Natural raw materials
- Environmentally friendly
- 'Made in Germany' quality

Technical data:

- Material: Calcium silicate, cellulose fibres
- Fire behaviour: Class A1 in accordance with EN 13501-1:2010 (in keeping with ETA-19/0559)
- Water vapour resistance factor: $\mu = 3$
- Thermal conductivity: $\lambda_D (23.50) = 0.075 \text{ W/(mK)}$
 $\lambda_{\text{Rated value}} = 0.080 \text{ W/(mK)}$
(in keeping with ETA-19/0559)
- Apparent density range: 235 kg/m^3 – 253 kg/m^3
- Pressure resistance: $\geq 1,500 \text{ kPa}$
- Water absorption coefficient: $51 \text{ kg/m}^2\sqrt{\text{h}}$
- Water saturation: 890 kg/m^3
- pH value: Approx. 10
- Environmental product declaration: EPD-CSP-20180010-IBC1-DE

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Instructions for use:

The mineral substrate upon which **Clima Redboard basic** is to be mounted must be clean (e.g. free of paint, wallpaper, structurally damaging salts, bitumen, oil, mould growth), load-bearing, and tension-free. If it is necessary to disinfect the substrate, the redstone **Mould and Spore Destroyer (SuS) [Schimmelpilz- und Sporenvernichter SuS]** from the Mould Remedy (Vivo) line ["Schimmelsanierung (Vivo)"] should be used. Construction defects and penetrating moisture must be properly remedied.

Uneven substrates must be levelled beforehand with mineral **Patching Plaster [Ausgleichsputz]** from redstone in order to ensure full adhesion. Neighbouring elements (e.g. floor, ceilings, windows) must be separated using **Pre-Compressed Sealant Tape [Komprimierband]**. Cut the **Clima Redboard basic** to size; smooth the edges. After that, the **System Adhesive [Systemkleber]** can be applied. Notice: A **Special Sulphate-Resistant (SB) Adhesive [Spezialkleber SB]** must be used for substrates containing gypsum!

Depending on the composition of the substrate (e.g. extremely porous), it may be necessary to pretreat the surface with redstone **Primer [Grundierung]**. Thinly plastered areas are generally not considered a sufficiently stable substrate.

The product must be adhered without air bubbles and over the entire surface by spreading the adhesive using a notched trowel (at least 10 mm) so that a grooved pattern appears in the adhesive. Apply adhesive to the entire surface of the substrate under one board at a time and spread using a horizontal stroke. **Clima Redboard basic** must be applied and positioned immediately (before the surface of the adhesive starts to dry) by pressing evenly so a bond is formed across the entire surface. The next board can then be pushed flush against the previous one. It is important to carefully arrange the lower row of boards both perpendicularly and horizontally so that all boards can be cleanly aligned with each other. Cross joints must be avoided.

Ideally, adhesive should not be added in the joints between boards; these areas should be reinforced with **Clima Joint Mesh [Clima Fugengewebe]**; alternatively, **Plaster Mesh 070 [Putzgewebe 070]** can be applied to the entire area.

It is possible to bond the joints with **System Adhesive [Systemkleber]** or **Special SB Adhesive [Spezialkleber SB]**; however, joint width cannot exceed 3 mm and the excess adhesive must be fully removed.

For rooms higher than 3.50 m, the boards should be affixed with **Clima Plugs [Clima Dübel]** (2 per m²) in addition to the adhesive. On ceilings and sloped ceilings as well as areas subject to increased load (e.g. tiling) **Clima Redboard basic** should be affixed with four **Clima Plugs [Clima Dübel]** per m² in addition to the adhesive. Exposed board edges should be protected against damage with corrosion-free corner protection rails (e.g. made of plastic, stainless steel, or aluminium). Corner protection rails can be affixed at specific points using the **System Adhesive [Systemkleber]** or **Special SB Adhesive [Spezialkleber SB]** and corrosion-resistant fasteners if necessary.

Once the adhesive has set, redstone **Primer [Grundierung]** is to be applied over the entire surface of the board. Once a sufficient drying period has passed, (approx. 4 hr at +23 °C and 50% rel. humidity) the entire surface is to be coated with redstone **Levelling Compound [Spachtelmasse]** or **Luno Lime Smooth Finish [Luno Kalkglätte]**. It is only necessary to

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Technical Data Sheet

Clima Redboard basic



embed the **Plaster Mesh 070 [Putzgewebe 070]** in the coatings when it is expected that the structure will experience a high degree of movement.

In order to preserve the outstanding features of the **Clima Redboard basic**, only breathable final coatings or paint from the Wall Coatings (Luno) [Wandbeschichtungen (LUNO)] product line should be used.

Dimensions / Form of Delivery / Art. No.:

625 x 1000 x 25 mm; 160 pc. / pallet (100.00 m²); Art. No.: RBB25625MM
625 x 1000 x 40 mm; 100 pc. / pallet (62.50 m²); Art. No.: RBB40625MM
500 x 333 x 25 mm; 6 pc. / package (1.00 m²); Art. No.: KLB25EFP

Other:

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

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