redstone GmbH & Co. KG
Haferwende 1
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Technical Data Sheet

Clima Redboard pro

Interior Primed Mineral Heat-Insulation Board Made of Calcium Silicate

Areas of application:

- Enhances home comfort
- Prevents mould growth
- Absorbs excess interior air humidity
- Prevents the formation of condensation
- For interior insulation of walls and ceilings

Features/benefits:

- Room side primed (polished side of board)
- Controls humidity
- Capillary-active
- Breathable
- Heat-insulating
- Mould-resistant
- Non-flammable (A1)
- Countless micropores
- 'Made in Germany' quality

Technical data:

• Material:	Calcium silicate, cellulose fibres
• Fire behaviour:	Class A1 in accordance with EN 13501-1:2010 (Corresponding to ETA-19/0559)
• Water vapour resistance factor:	μ = 3
• Thermal conductivity:	$\lambda_{D\ (23.50)}$ = 0.059 W/(mK) $\lambda_{Rated\ value}$ = 0.062 W/(mK) (In keeping with ETA-19/0559)
• Apparent density range:	180 kg/m³–187 kg/m³
• Pressure resistance:	≥ 1,000 kPa
• Water absorption coefficient:	46 kg/m²√h
• pH value:	Approx. 10

The technical information and instructions for use contained in this document are correct to the best of our knowledge and are provided in good faith. The content of this document does not constitute an explicit or implicit guarantee for the performance of these products. Since we have no control over how our materials will be used or the conditions under which they are used, we can only guarantee that these products meet our quality standards. We can therefore only guarantee the quality of our products within the framework of our general terms and conditions, but we cannot guarantee their successful functioning in every situation. Subject to changes without prior notice. This data sheet replaces all previous data sheets.

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Instructions for use:
The mineral substrate upon which the **Clima Redboard pro** 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 redstone Vivo-line (Mould Remedy) should be used. Construction defects and penetrating moisture must be properly remedied.

Uneven substrates must be levelled beforehand with a mineral patching plaster 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 pro** to size; smooth the edges. After that, the **System Adhesive** [Systemkleber] is applied. Notice: A **Special Sulphate-Resistant Adhesive** [Spezialkleber SB] must be used for substrates containing gypsum!
Depending on the composition of the substrate (e.g. extremely porous), the surface can be pretreated 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 pro** (textured side facing the wall) 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 110** [Putzgewebe 110] 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 pro** 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 **Levelling Compound** [Spachtelmasse] or **Luno Lime Smooth Finish** [Luno Kalkglätte] is to be applied over the entire surface. It is necessary to embed the **Plaster Mesh 110** [Putzgewebe 110] in the coatings. Alternatively, the strip -shaped **Clima Joint Mesh** [Clima Fugengewebe] can be used in the area of the joints.

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

The data sheets of all redstone products used must be observed.

Dimensions / Form of Delivery / Art. No. / EAN No.:
1250 x 1000 x 25 mm; 80 pc. / pallet (100.00 m²); Art. No.: RBP251250MM / 4260122563883
1250 x 1000 x 30 mm; 68 pc. / pallet (85.00 m²); Art. No.: RBP301250MM / 4260122563890
1250 x 1000 x 50 mm; 40 pc. / pallet (50.00 m²); Art. No.: RBP501250MM / 4260122563906
1250 x 1000 x 60 mm; 33 pc. / pallet (41.25 m²); Art. No.: RBP601250MM / 4260122563913

625 x 1000 x 25 mm; 160 pc. / pallet (100.00 m²); Art. No.: RBP25625MM / 4260122563838
625 x 1000 x 30 mm; 136 pc. / pallet (85.00 m²); Art. No.: RBP30625MM / 4260122563845
625 x 1000 x 50 mm; 80 pc. / pallet (50.00 m²); Art. No.: RBP50625MM / 4260122563852
625 x 1000 x 60 mm*; 66 pc. / pallet (41.25 m²); Art. No.: RBP60625MM / 4260122563869
625 x 1000 x 80 mm*; 50 pc. / pallet (31.25 m²); Art. No.: RBP80625MM / 4260122563876

* special-production

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

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