



THERMOMAX® RM 160

Alkali-Resistant Glass-Fibre Reinforcing Mesh

Product Description

THERMOMAX® RM 160 is a woven glass-fibre mesh with an alkali-resistant polymer coating and a mass per unit area of 160 g/m². It is embedded in cement-based render; it reinforces the render layer, distributes surface stresses, prevents cracking and gives the system impact resistance.

It is a component of external thermal insulation composite systems (ETICS) and is used together with THERMOMAX® PLAST 65 base coat. The product is assessed within the scope of EAD 040083-00-0404; its mechanical properties are determined in accordance with EN 13496.

Fields of Application

- Reinforcement of the render layer in external thermal insulation composite systems (ETICS)
- In cement-based renders applied over EPS, XPS and mineral wool boards
- As diagonal reinforcement at the corners of windows and doors
- Prevention of cracking in interior and exterior renders

Advantages

- Its alkali-resistant coating ensures it does not lose strength over time in cement-based render
- High tensile strength distributes stresses in the render layer and prevents cracking
- Increases the impact resistance of the system
- Flexible structure adapts easily to the surface; easy to cut and lay
- Does not rot; resistant to weathering

Technical Properties

General Information	
Material	Woven glass-fibre mesh
Coating	Alkali-resistant polymer coating
Colour	Yellow
Mass per unit area	160 g/m ² (± 5%)
Mesh size	4 × 4 mm
Performance Data	
Tensile strength – warp / weft (EN 13496)	≥ 40 N/mm (≥ 2000 N/50 mm)
Tensile strength after alkali conditioning – warp / weft (EN 13496)	≥ 20 N/mm (≥ 1000 N/50 mm)
Residual strength after alkali conditioning	≥ 50% of initial value
Application Data	
Position in the render	Outer third of the render layer
Overlap	Min. 10 cm

Diagonal reinforcement at window and door corners	20 × 30 cm, at 45°
Consumption	Approx. 1.1 m ² /m ² (including overlaps)

The technical values stated were obtained at an ambient temperature of +23°C and 50% relative humidity.

Application Instructions

Before Application

The mesh must be applied at least 3 days after bonding the insulation boards and at least 24 hours after anchoring. The board surface must be even, dry, clean and free of dust, and any level differences must have been removed with a sanding float. Corner profiles with mesh must be fixed in advance at building corners and along the edges of window and door openings. The mesh is prepared by cutting it from the roll into strips matching the height of the façade.

Embedding the Mesh

THERMOMAX® PLAST 65 is applied to the board surface with a 6 × 6 mm notched trowel. The mesh strip is laid from the top downwards into the still-fresh render and embedded by pressing it with the trowel from the centre towards the edges. The mesh must be free of wrinkles and taut, and must lie within the outer third of the render layer. Adjacent strips must overlap by at least 10 cm. The mesh must remain fully within the render and must not be visible at the surface; laying the mesh dry on the board and applying render over it is not correct practice. Once the first coat has set, the second coat is applied to bring the total render thickness to 4 – 5 mm.

Corner and Opening Details

Before the main mesh is laid, additional mesh pieces of 20 × 30 cm are placed diagonally (45°) at the corners of window and door openings; these pieces prevent cracks starting from the corners. At building corners the mesh must wrap at least 10 cm around the corner or overlap the corner profile with mesh by at least 10 cm. On ground-floor façades with a high risk of impact, a second layer of mesh is recommended.

Storage Conditions and Shelf Life

Store in the original packaging in a dry, cool place, protected from direct sunlight and moisture. Stack the rolls so that they are not crushed and do not place heavy loads on them. When stored correctly, the shelf life is 36 months from the date of manufacture.

Safety Precautions

Glass fibre may cause itching and irritation on contact with bare skin. Wear protective gloves and long-sleeved work clothing during application and cutting, and protective goggles when cutting. In case of skin contact, wash with plenty of water. Store out of reach of children.

Liability

Our company is responsible only for the quality of the product. Any use of the product outside the scope of the written technical recommendations, including incorrect application or use under unsuitable conditions, is entirely the responsibility of the user. For further technical information, please refer to the product catalogue or contact our representatives.

Packaging

Rolls of 1 m × 50 m (50 m²)

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