

Baumit Mineral Therm Insulation Board

General Information



- **Inflammable**
- **Double density**
- **Breathable and water repellent**

Product Overview

Dual-density, compression-resistant rock wool insulation boards. System component of the Baumit External Wall Insulation System Mineral. Complies with EN 13162.

Composition

Rock wool

Properties

- Improved thermal and sound insulation.
- Non-flammable, water resistant.
- Rot-resistant.
- Form retentive, resistant to ageing and water vapour permeable.

Technical Data

Product type:	MW-EN according to 13162
Designation code:	T5-DS(TH) -WL(P)-TR5-MU1
Compressive strength:	20 kPa Min
Declaimination strength:	5 kPa Min
Coefficient of thermal conductivity $\lambda_{90/90}$:	0.036 W/mK
Coefficient of vapour diffusion resistance μ:	1
Board size:	1200 x 1600 mm
Board thickness:	50 – 250 mm (in 10 mm increments)
Reaction to fire:	A1 (Euro class) in accordance with EN 13501-1
Melting point:	$\geq 1000^{\circ}$ C

Health & Safety

Not subject to labelling requirements.

Delivery

Packs wrapped in polythene

Storage

Store in dry conditions and protect from UV radiation (sunlight), moisture and mechanical damage.

Substrate

The background must be clean, dry and free from frost and dust, not water repellent, free from efflorescence, able to support the insulation system and be free of loose particles. The background condition and flatness must be inspected according to the guidance set out in the Baumit EWI Installation Guidelines.



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■ Application

Splash zone:

The bottom edge of the insulation system must be sealed tight to the substrate. Baumit perimeter insulation EPS Plinth board or XPS must be used for areas within and below the splash zone (min. 300 mm above finished ground level). Use the base profile Baumit SockelProfil Therm where the insulation system starts at or above the DPC line to protect and seal the bottom edge of the system. The base profile may not be installed below the DPC line or at ground level. Refer to the Product Data Sheet for fixing instructions.

Fitting the insulation boards:

together with a staggered bond between rows. Board off-cuts (min. 150 mm lengths) may be used in the main wall areas but not at building corners or openings. Care must be taken to ensure that the board surfaces sit flush. The board joints must be free of gaps and adhesive. The corner of an insulation board must not meet the corner of an opening (cross joint). Each row of boards must form an overlap (toothed joint) to the board depth at building corners. Only full and half boards may be used here.

Gaps < 4 mm which may occur in the board joints may be filled with Baumit FüllSchaum B1 expanding foam.

Adhesive application:

Mineral wool boards which are not pre-coated must be prepared with a full, thin coating of Baumit multiContact MC 55 W worked firmly into the board surface with a stainless steel plastering trowel. A 50mm wide continuous strip of Baumit multiContact MC 55 W is applied around the perimeter face of the insulation board and 3 equally spaced hand-sized adhesive dabs through the centre line. The adhesive layer must be 10 - 20 mm thick and provide a bonding contact of at least 40%. Deviations in the background flatness of up to +/- 10 mm can be accommodated in the adhesive layer.

Fixing anchors:

After sufficient hardening of the adhesive layer the Baumit Mineral facade insulation boards must be mechanically fixed with a minimum of 6 anchors/m². The number of fixing anchors may increase according to loading calculations. Refer to Baumit for advice on system fixing anchors.

Reinforcement layer:

Baumit multiContact MC 55 W mortar is applied to the boards and combed through with a notched rule or with stainless steel notched trowel (10 mm notches). Continuous sheets of Baumit StarTex reinforcing mesh are placed onto the Baumit multiContact MC 55 W, free of creases and with 100 mm overlapping edges. A further 1-2mm of Baumit multiContact MC 55 W is applied wet on wet over the embedded Baumit StarTex reinforcing mesh. The Baumit StarTex reinforcing mesh must be covered with at least 1 mm (0.5 – 3 mm max. at the overlapping edges) of Baumit multiContact MC 55 W. Excessive trowelling is to be avoided. Trowel lines are to be removed after hardening. The overall basecoat thickness must be from 5 – 8 mm.

Topcoat renders:

Refer to the relevant Baumit Product Data Sheet for information regarding Baumit topcoats. In addition to the quoted standards, the current guidelines for installing External Wall Insulation Systems must be observed.

■ General Information

The air, material and background temperature must be above +5° C during application and curing. Protect the facade from direct sunlight, rain and strong winds (i.e. with scaffold nets). High air humidity and low temperatures can prolong drying times considerably.

Facade insulation boards which have been exposed to UV radiation (sunlight) for more than 2 weeks (yellowing of the board surfaces) must be sanded down and the dust removed before application of the basecoat render.

Our recommendations for applications which we give to support the purchasers/handlers from our experience, corresponds to current science and practice. The advice is non-binding, and forms no contractual, legal relationship and no additional obligations in the purchase contract. The advice does not release the purchaser from examining our products for their suitability for their foreseen uses. The general rules of construction equipment must be adhered to. We reserve the right to make changes which serve to provide technical progress and improve the product or its use. When such technical information appears, earlier information is no longer valid. You can find the most current information on our Internet pages. Only our current sales and supply conditions as well as provisions for the placement and use of our silos and mixing facilities apply for all business cases.