



Product description

maxit strohpanel interior insulation is an interior insulation board with square edges designed for use in the maxit strohpanel interior insulation system according to DIN EN 13171 T4/TR2.5.

Product properties

maxit strohpanel interior insulation is an eco-friendly interior insulation board with high CO₂ sequestration, made from 100 % natural raw materials. It contains no petroleum-based chemicals and is intended for use with maxit lime or clay plasters, based on a building physics assessment of the overall system.

Field of application

As an interior insulation panel for exterior walls and ceilings, with the exception of wet rooms. Suitable for use with maxit clay and lime/lime-cement plasters in interior applications.

When used as an interior insulation board, a building physics assessment of the construction should always be carried out by means of hygrothermal simulation. Exception: In cases of low driving rain exposure on the insulated exterior walls and low indoor humidity, constructions made of 36 cm solid brick or mixed masonry are approved for use with maxit straw interior insulation up to a maximum layer thickness of 50 mm.

Under any other conditions, hygrothermal calculations must always be performed. The use of a vapour control layer, such as AEROSANA VISCONN (FIBRE), provides a reliable solution when applying interior insulation.

Product benefits

- easy to apply
- significantly lighter than comparable interior insulating panels
- high CO₂ sequestration capacity
- low primary energy content
- ecological
- normally flammable
- dimensionally stable and resistant to ageing
- emission-free
- industrially compostable and recyclable

Site requirements

Ensure the building structure is dry, plumb, and properly aligned. The existing wall must be suitable for the application of plaster and for securely holding maxit screw anchors.

Substrate preparation

Check the existing wall for dimensional accuracy (plumb and alignment) and dryness. For unstable existing walls, also check the stability and secure fixing of the mechanical fasteners (maxit screw anchors). Remove any loose material such as dust or debris from the substrate. Level out any uneven areas with lime or clay plaster.

Installation

Use only panels with a maximum moisture content of 13 % (measure with a straw moisture meter). Boards cut to size must form tight joints without any cavities. Install the insulation boards in a staggered bond pattern, from bottom to top, aligned and flush, tightly butted, with a minimum overlap of 150 mm. Apply full-surface adhesion using the

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combined buttering-floating method in accordance with DIN 18515. If the substrate is not suitable for a load-bearing adhesive bond, provide additional mechanical fixing with two screw anchors per board.

Plaster coating:

If building physics calculations allow a coating without a vapour control layer, apply a full-surface coating using maxit lime, lime-cement, or clay plaster. For lime-bound materials: use maxit ip 315 in a layer thickness of 4–8 mm with an embedded maxit PS 4×4 mm reinforcing mesh. For lime-cement-bound materials: use maxit multi 300 in a layer thickness of 4–8 mm with embedded maxit PS reinforcing mesh.

For clay-bound plasters: pre-prime the surfaces with maxit prim 2050, or apply maxit multi 340 in a layer thickness of 3–6 mm with an embedded maxit Jute reinforcing mesh.

To ensure reliable performance from a building physics standpoint in rooms with increased indoor humidity, apply a vapour control layer such as AEROSANA VISCONN (FIBRE). Use coatings with an sd-value greater than 2.0 m for the calculations. This vapour control layer prevents excessive moisture ingress from the interior. Apply it directly onto the surface of the internal insulation board. Additionally, seal joints and connections at reveals vapour-tight using joint sealing tape. After applying the vapour control layer, coat with maxit ip 315 as described above.

At external corners and openings, plan and install mesh corner beads or diagonal reinforcements as required.

Material consumption

Panels: approx. 1.1 kg/m²

Actual consumption depends on on-site measurements and design specifications.

General information

Contact us for technical support if you have any questions regarding the application, substrate or special design features. Do not mix with other materials. Otherwise, the provisions of DIN 18340 VOB/C (Part C German Construction Contract Procedures) and ATV DIN 18299 (General Technical Specifications) apply.

Storage

Store flat on continuous surfaces, such as pallets, in a dry place, protected from moisture and the weather. Pallets must not be stacked!

Disposal

Do not dispose of with household waste. Material can be incinerated in waste-incineration plants or processed in biogas or composting facilities. Dispose of in accordance with official regulations.

Logistics

Delivery is made in full pallets.

Panel thickness [mm]	Panels per pallet	m ² per pallet
30	140	33.6
40	100	24.0
50	80	19.2
60	68	16.32

Legal notices

The information provided in this document is based on our technical knowledge and experience at the present time. It must be regarded as a general guideline only. Owing to the large number of potential influences, it does not relieve anyone using or processing our products from the responsibility of carrying out their own tests and experiments, nor does it imply any legally binding assurance of certain properties or that our products are fit for a specific purpose. Responsibility for complying with any property rights, applicable laws or other requirements lies solely with the user. This datasheet invalidates all previous datasheets.

Technical specifications	
Indoor application	Yes
Reaction to fire	Class E according to DIN EN 13501 (normally flammable in accordance with the regional building regulations)
Width	400 mm
Length	600 mm
Insulation thickness	30 / 40 / 50 / 60 mm
Panel surface area	0.24 m ²
Measured thermal conductivity	0.040 W/(m·K)
Design thermal conductivity	$\lambda_b = 0.045 \text{ W/(m·K)}$
Bulk density	approx. 130 kg/m ³
Moisture content	max. 13 % by mass

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