



TECHNICAL DATA SHEET

GUTEX THERMOWALL-L

1. PRODUCT DESCRIPTION

Wood fiber insulation boards in accordance with DIN EN 13171, fire behaviour: E according to EN 13501.

2. FIELD OF APPLICATION

Facade insulation boards for KEIM external thermal insulation composite systems according to system approval: Z-33.43-942; Z-33.47-660

Generally approved by the building authorities for: exterior walls; window and door reveals.

Suitable for: Masonry or concrete, rendered and unrendered; panel material in timber construction.

Application type according to DIN 4108-10: WAP.

The complete ETIC system is normally inflammable B2 in accordance with DIN 4102-1. Permissible building height according to the State Building Code.

Not suitable for: Integration into the ground; horizontal and inclined surfaces exposed to weathering; metallic substrates; saponifiable existing substrates; substrates with salt efflorescences; plasto-elastic coatings; cold self-adhesive plastic membranes. Fastening to soffits on request.

3. PRODUCT PROPERTIES

- with improved heat protection
- in a handy format
- effort saving processing due to light formulation
- from renewable resources
- fire behaviour: E according to EN 13501
- excellent heat storage capacity
- for increased sound insulation
- form- and pressure-stable
- sound in terms of building biology
- low environmental impact
- recyclable
- The insulation panels comply with the high standards of the VDPM e.V. (association for insulation systems, renders and mortars)

MATERIAL CHARACTERISTICS:

- | | |
|--|---|
| - CE marking code: | WF-EN13171-T5-WS1,0- DC(70,-)3-CS(10/Y)50-TR7,5- MU3-AFr100 |
| - Panel size: | 1200 x 400 mm |
| - Panel thickness: | 120 - 200 mm |
| - Edge formation: | square |
| - Water vapour diffusion resistance μ -value: | 3 |
| - Compressive strength: | ≥ 50 kPa |
| - Tensile strength perpendicular to the panel plane: | TR7,5 $\geq 7,5$ kPa |
| - Thickness tolerance: | T5 +3 / -1 mm |
| - Squareness: | S5 ± 5 mm/m |
| - Colour shade: | brown |

4. APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION:

The substrate must be strong, dry, clean, sound and free from adhesion-reducing residues. Unevenness of up to 2 cm/m may be bridged. Larger unevenness must be mechanically levelled or by applying a render in accordance with DIN EN 998-1. Strongly sanding or unevenly absorbent surfaces should be primed with Indulagua primer. Observe the Technical Data Sheet of the primer with regard to execution and dilution. To use the anchor on substrates that do not fall into the approved use categories, anchor pull-out tests must be carried out on the building and documented.

APPLICATION CONDITIONS:

Ambient and substrate temperature during application and drying from min. + 5 °C to + 30 °C. Do not apply in direct sunlight or on sun-heated substrates. Protect surfaces from direct sun, wind and rain during and after application.

APPLICATION:

All insulation panels are to be protected against humidity during the installation and until covering.

Glued insulation panels must be protected from direct sun radiation with appropriate measures.

Unprotected weathered insulation panels chalk on the surface and have to be completely sanded before installation. Remove sanding dust.

Short-term exposure to sunlight should be limited to a maximum of 4 weeks.

Cut to size using an insulation knife or a suitable insulation saw.

GLUING:

Press levelling on the adhesive side is recommended.

The insulation panels are butted tightly and glued in a bond from bottom to top. Apply the appropriate adhesive mortar to the insulation panels using the bead-and-dot method or over the entire surface. Push the boards into place. At the edges of the building, the insulation panels are glued offset. The butt joint offset must be at least 30 cm. Closing of unavoidable defects and joints up to 5 mm wide with Iso Top Thermfoam B1 is permissible. A second sealing layer under window and door parapets must be implemented in combination with moisture-sensitive insulation materials in accordance with the generally recognised rules of technology. Please refer to the technical data sheet Parawet-HFD. For temporary protection against waterlogging during the construction phase, the fabric flag of the KS push-on profile or the PVC base insert profile must be embedded immediately in the system-related reinforcing mortar in the case of base insulation with recess. Otherwise, the first layer of insulation boards can also be provided with all-round moisture protection on the underside using Indulastic-P. General instruction with regard to gluing: Do not apply adhesive to the panel joints. Do not create an insulation panel joint over a joint in the substrate underneath.

DOWELING:

Check the adhesion of the insulation panels after at least 3 days. Insulation panels that are not bonded or damaged must be replaced. Anchoring is carried out in glued and dowelled ETIC systems using ETICS fasteners approved by the general building authorities or by the European authorities according to DIN EN 1991-1-4/NA. The required dowel quantity depends on the building height and the respective wind zone in which the object is located. For further information, please refer to our ETICS Technical Guide, Chapter #8, ETICS Wind Suction Loads. The minimum distance between anchor shank and board edge is min. 150 mm, the minimum distance between anchor shank and anchor shank is min. 200 mm.

REINFORCEMENT:

After a sufficient setting time of the adhesive, apply the mixed, system-specific reinforcing mortar evenly to the insulation panels, preferably with a 10 mm toothed trowel. Embed the system-specific Glasfaser-Gittermatte (glass fibre mesh), overlap the edges by 10 cm and fill wet-in-wet with system-specific reinforcing mortar. The system-specific Glasfaser-Gittermatte should be embedded in the middle (layer thicknesses up to 6 mm) or in the upper third (layer thicknesses from 6 mm). Thickness of the reinforcing layer depends on the respective system approval and can be in the range of approx. 5 - 10 mm. The wood moisture content must not exceed 16 M%. The difference in wood moisture in neighbouring areas must not exceed 2% (homogeneous distribution!)

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5. PACKAGING / TECHNICAL DATA

| Panel size [mm] | Panel thickness [mm] | edge | m ² per pallet | Bundle per pallet | Piece per PU |
|-----------------|----------------------|--------|---------------------------|-------------------|--------------|
| 1200 x 400 | 120 | square | 7.68 | 1 | 16 |
| 1200 x 400 | 140 | square | 7.68 | 1 | 16 |
| 1200 x 400 | 160 | square | 5.76 | 1 | 12 |
| 1200 x 400 | 180 | square | 5.76 | 1 | 12 |
| 1200 x 400 | 200 | square | 4.80 | 1 | 10 |

Delivery takes place on Boomerang exchange pallets.

6. STORAGE

| max. storage time | Storage conditions |
|-------------------------|--|
| no maximum storage time | dry protect against weathering protected from heat and direct sun. |

Observe the maximum stacking height of 2 m. The insulation material must be protected from the effects of moisture (rain) before, during and after processing. Undamaged transport packaging (shrink bonnets) are sufficient weather protection for short-term storage on the construction site.

7. DISPOSAL

Waste code: 03 01 05 17 02 01

8. SAFETY INSTRUCTIONS

No particular indications.

9. CERTIFICATES & QUALITY SEALS



The stated values and properties are the result of extensive development work and practical experience. Our recommendations for application, whether given verbally or in writing, are intended to provide assistance in the selection of our products and do not establish a contractual relationship. In particular, they do not release the purchaser and processor from the obligation to convince themselves of the suitability of our products for the intended application with due care, which is general practice in trade and crafts. The general rules of construction technology must be observed. We reserve the right to make modifications to improve the product or its application. This edition supersedes all earlier editions.



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