

Klima Airwool Plus

Mineral wool (MW) heat-insulating panel for application on ETICS external thermal insulating panelling systems; compliant with standard EN 13162. Mono-density, uncoated.

Highly breathable, mineral wool, non-combustible heat-insulating panel with high thermal performance in both summer and winter and excellent acoustic efficiency for thermal insulation of vertical walls. Product specified for the ETICS Klimaexpert ETA System with European Technical Approval. Panel dimensions 1200 x 500 mm, available in thicknesses from 50 to 200 mm.



1. Non-combustible
2. Highly breathable
3. Excellent thermal insulation in winter
4. Excellent thermal diffusivity in summer
5. Documentation availability CAM – Minimum Environmental Criteria
6. Improves the acoustic performance of vertical opaque walls
7. Suitable for external thermal insulating panelling systems on moisture rising after dehumidification
8. Suitable for Klimaexpert Fire Protection kits
9. Suitable for Klimaexpert High Performance MW systems

Areas of application

→ Use

- Specific for Klimaexpert ETA external thermal insulation panelling systems with European Technical Approval - ETA - according to EAD 040083-00-0404.
- Suitable for external and internal use, for air-space insulation and for insulating floor slabs soffits.
- Can be used as an heat-insulating panel in dehumidification cycles applied to substrates subject to moisture rising.

- Suitable for Klimaexpert Fire Protection kits.
- For use in new-builds or for the renovation of existing buildings, on brick, concrete, plaster/ render substrates.
- Suitable for Klimaexpert High Performance MW systems

Do not use on dirty, non-cohesive, dusty, poorly anchored or uneven surfaces, in the presence of grease or water-repellent treatments.

Instructions for use

The instructions for use refer, where required, to the Italian Technical Report UNI / TR 11715 "Heat-insulating products for buildings - Design and installation of external heat-insulating systems (ETICS)".

→ Preparation of substrates (UNI / TR 11715 - paragraph 9)

The substrate must be clean, dry, even, solid, dimensionally stable and free from loose or non-cohesive debris.

Substrates that are not compact must be treated in advance with Rasobuild Consolidante stabilizing consolidant.

Any uneven areas must be corrected in advance with products in the Geocalce or Geolite range. Clean new concrete with a high pressure water jet.

Remove any paint or other coatings that do not adhere perfectly to the substrate or that are tempered by contact with water.

When mould, algae or fungi are present, clean the surfaces in advance with Skil Remove.

If moisture rising is present at the plinth of the building, the masonry must be restored using Benesserebio thermally dehumidifying bio-render. Next, start the system directly using the mineral wool panel after applying the accessories Starting Base, Joint Element, Starting Base Drop Breaker.

→ Preparation

The panel is ready-to-use. Use special knives and cutters for mineral wool to cut panels.

→ Application (UNI / TR 11715 - paragraph 9)

Fix the panel using a Kerakoll adhesive & finishing product applied to the back of the panel using an external rim method with three central spots or using a suitable toothed spreader to form a solid bed. When laying the adhesive, keep a few cm away from the edges of the panel. Minimum fixing surface 40%.

Special notes

- Follow the instructions in the Kerakoll Technical documents when laying the insulating panels.
- Pin the system with suitable mechanical insulation anchors 24 to 48 hours after bonding, and in any case after the adhesive&finishing product has set and hardened.
- On dehumidifying systems, it is recommended to use screw-in anchors applied recessed, along with the corresponding MW cap.
- Do not apply the panels in direct contact with the ground or with horizontal surfaces in general.
- Use suitable Starting Bases.
- Do not use spot adhesion.

- Do not apply on expansion joints or façade joints in general.
- Store the panels in their original packaging, in a dry place out of direct sunlight and protected against atmospheric agents.
- Lay the product at environmental and substrate temperatures from +5 °C to +30 °C.
- Screen the scaffolding to avoid excessive heating of the substrate and of the panel during laying, and protect the materials from the weather during the setting and hardening phase.

Certificates and marks



Abstract

Thermal insulation will be carried out with uncoated mono-density mineral wool panels meeting the requirements of European Assessment Document EAD 040083-00-0404 for insulation with external thermal insulation panelling systems such as Klima Airwool Plus by Kerakoll Spa; specific for ETICS use, they must comply with CAM (Criteri Ambientali Minimi – Minimum Environmental Criteria) Italian Decree, be CE-marked according to standard EN 13162, must have a reaction to fire class A1, be highly breathable ($\mu = 1$) with thickness tolerance T5, good density ($> 90 \text{ kg/m}^3$) for excellent summer and acoustic performance, with a declared thermal conductivity λ_D of 0.034 W/(m K) .

Technical Data compliant with Kerakoll Quality Standard		
Panel size	1200x600 mm	
Performance		
HIGH-TECH		
Performances according to EN 13162 standard		
Declared thermal conductivity*	λ_D 0.034 W/(m K)	EN 12667
Declared thermal resistance:		
- thickness 50 mm	1.45 m² K/W	EN 12667
- thickness 60 mm	1.75 m² K/W	EN 12667
- thickness 80 mm	2.35 m² K/W	EN 12667
- thickness 100 mm	2.90 m² K/W	EN 12667
- thickness 120 mm	3.50 m² K/W	EN 12667
- thickness 140 mm	4.10 m² K/W	EN 12667
- thickness 160 mm	4.70 m² K/W	EN 12667
- thickness 180 mm	5.25 m² K/W	EN 12667
- thickness 200 mm	5.85 m² K/W	EN 12667
Specific heat capacity	1030 J/(kg K)	UNI EN ISO 10456
Tolerance for length	± 2%	EN 822
Tolerance for width	± 1.5%	EN 822
Tolerance for thickness	T5 = 1% o 1 mm	EN 823
Tolerance for squareness	≤ 5 mm/m	EN 824
Tolerance for flatness	≤ 6 mm	EN 825

Performance		
HIGH-TECH		
Performances according to EN 13162 standard		
Apparent volumetric mass	90 kg/m³ ± 15%	EN 1602
Dimensional stability at +70 °C and 90% R.H.	DS(70;90) 1%	EN 1604
Reaction to fire	class A1	EN 13501-1
Resistance to the diffusion of vapour	µ = 1	EN 12086
Long-term water absorption	WL(P) ≤ 3 kg/m²	EN 12087
Short-term water absorption	WS ≤ 1 kg/m²	EN 1609
Tensile strength perpendicular to surfaces	TR ≥ 10 kPa	EN 1607
Compressive strength with 10% deformation	CS(10) ≥ 20 kPa	EN 826

* Corrections to the λD value expressed in the CE marking are possible and not mandatory; they are provided for humidity and temperature conditions different from the standard ones defined by the relevant product standard EN 13162. If the set of conditions for the declared values can be considered representative for the actual application, these values can be used directly as project values, otherwise the data must be corrected using the procedures described in standard UNI EN ISO 10456.

Warning

- Abide by any standards and national regulations

→ use at temperatures between +5 °C and +30 °C

→ provide suitable mechanical hooks in compliance with current regulations

→ do not move the panels once the adhesive has started to set

→ wear appropriate equipment. For further information please refer to the Information Sheet
- avoid using or coming into contact with aromatic solvent-based adhesives and/or products

→ the product is an item according to the definitions of the EC Regulation No. 1907/2006 and therefore does not require a Safety Data Sheet

→ for any other issues, contact Kerakoll Technical Customer Service: + 39 0536.811.516 www.kerakoll.com/contatti



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