



TermoK8® MINERALE L.R.

Special Thermal Insulation,
Renovation and Energy Upgrade System



The ideal option for cladding and insulating a building, with particular emphasis on the system's thermal, acoustic and fire retardant properties, featuring high breathability and a predominantly mineral composition.

SPECIFICATIONS

All external surfaces of the façade are to be clad on site using the TermoK8® MINERALE L.R. process, following any specific and appropriate preparation of the substrate, to be evaluated on a case by case basis according to the condition and type of surface. Please refer to the TermoK8® technical manual for installation specifications.

Insulation layer

The setting-out and retention of the insulation system is to be achieved by fitting an aluminium alloy section (base profile) along the ground floor perimeter of the building and possibly the walls of recesses, to suit the thickness of the insulation, fixed with the use of expansion plugs. For retaining walls, follow the instructions contained in the TermoK8® technical manual.

TERMOK8® MINERALE L.R. COMPONENTS

ADHESIVE:	Klebocem Minerale
INSULATION:	Lana di Roccia (rockwool)
SKIM COAT:	Klebocem Minerale
REINFORCEMENT:	Armatex C1 - Armatex C1 "R"
FINISHING COAT:	Rivasil - Rivatone Idrosiliconico Plus
ACCESSORIES:	depending on the type and structural configuration of the wall to be clad and the project

Application of rockwool insulating panels compliant with UNI EN ISO 13162 (mono density: density 130 kg/m³; bi-density: average density 90 kg/m³) size 100 x 50 cm, class A1 fire reaction rating, thickness depending on design calculation. The panels are to be fastened to the surface of the façade (horizontally, starting from the bottom, with staggered vertical joints), by spreading Klebocem Minerale mineral-based adhesive mortar in ribbons along the perimeter of the slab and in dabs in the centre, ensuring that the insulation panel adheres properly to the substrate and is perfectly flat.

Mechanical fixing

Insert 6 special expansion plugs per m² (normal arrangement) or 8 per m² (reinforced arrangement) depending on environmental conditions, substrate condition and height, ensuring an adequate depth of anchorage into the sound part of the wall. Install the plugs following a "W" scheme. We recommend increasing the number of expansion plugs at the perimeter of the building (over a width of at least 1 m) if it is more than 18 m in height.

Before skimming the insulation panels, to protect the whole system, it is essential to fit all corners with guards, and any other profile fittings, by spreading adhesive on the panels (galvanised or painted steel sections are not acceptable). Patches of Armatex C1 mesh (20 x 40 cm) are to be stuck on at the corners of all openings (doors, windows etc.), at 45° to the perpendicular axis of the opening. We recommend applying an acrylic primer (Acrilica 100) on the entire surface of the insulating layer in order to facilitate subsequent application and processing of the skim coat.



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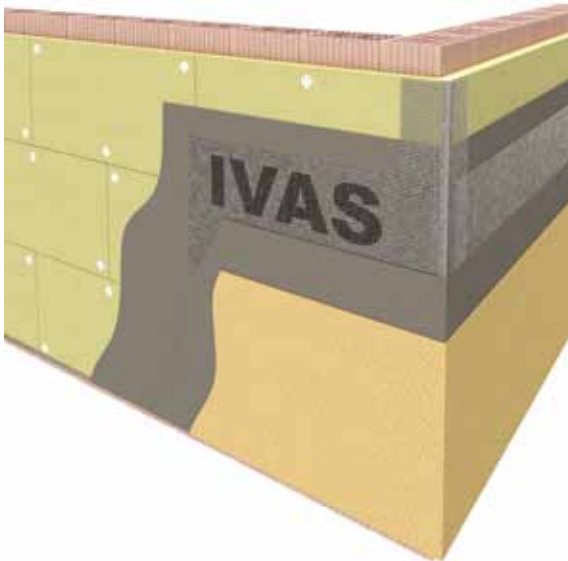
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SYSTEM CERTIFIED BY DNV
= ISO 9001:2008 =



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Reinforced thin render

The insulating panels will be coated on site with Klebocem Minerale smoothing mortar, in which the sized, anti-alkaline and unravel-proof Armatex C1 glass fibre mesh fabric is to be embedded while the mortar is still fresh. The overlaps must be at least 10 cm (both vertically and horizontally) and 15 cm near corners unless the corner profile protections have incorporated mesh. The reinforced layer is to be completed with another skim coat, fully covering the mesh once the first layer of mortar is completely dry.

If the insulating layer is particularly irregular, the entire insulated surface will need to be skimmed beforehand: in this case the mesh must be embedded in the outermost third of the render rather than at the mid-point.

Except special cases, for the buildings plinths – particularly in applications in contact with the ground, in areas exposed to accidental impact and those that require low water absorption – in conjunction with the Termok8® Minerale L.R. system, we recommend using special High Performance Polystyrene insulating slabs having the same thickness and conductivity $\lambda=0.036$.

Seal with suitable over-paintable polyurethane sealant (Sigil Pol) to cover resilient packing previously fitted to compensate for expansion and contraction of the system.

Finishing coat

When the reinforced layer has completely set, a trowel is used to apply, and then level, a single continuous layer of silicate-based Rivasil coating (see the specifications on the technical information sheet). We recommend a light finishing colour, or at least one with a light reflection index greater than 25 %.

Horizontal and vertical gaps must be provided to prevent defects deriving from interrupting and resuming application.

During application, the environmental temperature must be between +5°C and +35°C with relative humidity below 80%.

Accessories

Expansion gaps and joints between the insulation system and the retention and/or protective profiles are to be installed using the right accessories and sealed with a suitable over-paintable sealant. Any other functional and/or decorative components depend on the complexity of the design.

N.B. Drafting of the Specification requires particular attention to the condition of the substrate and resolution of the various "critical issues" of the building, so it must be customised for each individual project.