

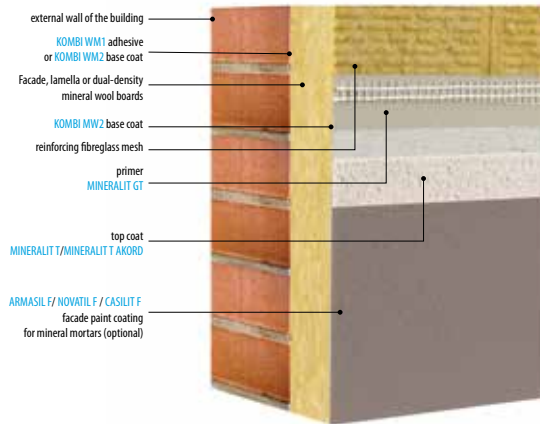
### BASED ON MINERAL WOOL

# KABE THERM IN MW



The system of thermal insulation of the internal walls of buildings with a mineral external render (with optional paint coating)

### SYSTEM CONSTRUCTION



### MAIN ADVANTAGES

- Non-flammable system components
- Reduction of heating costs
- Interior micro-climate improvement
- High aesthetics of top coating
- Free release of moisture
- Prevention from water vapour condensation inside the system
- Slowing down the dirt process

### TECHNICAL SPECIFICATION

**Type of thermal insulation:** Lamella or dual-density mineral wool boards with codes acc. to ETA 16/0079;  
**Thickness of thermal insulation:** from 80 mm to 250 mm for dual-density mineral wool and from 50 mm to 250 mm for regular and lamella boards of mineral wool;  
**Thermal insulation fixing:** sticking and mechanical fixing;  
**Use of mechanical fixings:** required (as specified in technical project);  
**Reinforcing mesh:** reinforcing fibreglass mesh;  
**Reaction to fire:** class A1 – system with mineral top coat (MINERALIT T, MINERALIT AKORD), optionally coated with NOVALIT F paint, remaining systems class – A2-s1,d0;  
**Colours for mineral renders:** white or base (intended for painting);

**Silicone, polysilicate and silicate paint colours:** natural white, colours from the KABE and NCS colour charts or according to samples provided (can be obtained by adding non-organic pigments);  
**Textures:** solid/grained texture, scratched/mixed;  
**Grain size:** 1.5 mm; 2.0 mm; 3.0 mm (spray applied mortars/top coats)  
**MINERALIT AKORD** – only with a 1.5 mm thickness);  
**Relative diffusion resistance of external layer:**  $\leq 0.3$  m;  
**System impact resistance:** cat. II or cat. III (depending on the type of mineral wool and top coat);  
**Adhesion of the adhesive to the substrate:**  $\geq 0.25$  MPa;  
**Top coat adhesion to mineral wool boards:**  $\geq 0.08$  MPa;

### AREAS OF APPLICATIONS

KABE THERM IN MW thermal insulation system is used mainly on buildings that require high vapour permeability, fire protection and protection against mechanical damage. The system is used in single- and multi-family housing construction industry, public utility and industrial buildings, on new and existing (retrofit) building walls. It can be made of regular wool, facade wool (with disturbed fibre arrangement), lamella wool (with arranged fibres) and dual-density mineral wool boards. The KABE THERM IN MW system can be applied on walls made of masonry elements (bricks, blocks, stone etc.) or from concrete (poured on site or in the form of prefabricated panels). The system is especially recommended on buildings with walls made of materials of porous texture (such as e.g.: lightweight concrete, cinder blocks, porous bricks). The external layer of KABE THERM IN MW system can be made of: MINERALIT T mineral top coat available in a wide range of textures, colours and grain sizes. The top coat can be painted with ARMASIL F silicone paints, NOVALIT F polysilicate paints or CALSILIT F silicate paints.

Layer type	Name and description of the product	Average coverage
ADHESIVE LAYER	KOMBI WM1 adhesive or KOMBI WM2 base coat – for fixing insulation mineral wool boards to the substrate	ca. 5.0 kg/m <sup>2</sup> ca. 5.5 kg/m <sup>2</sup> when using lamella wool boards
THERMAL INSULATION	Regular, lamella or dual-density mineral wool boards	1.0÷1.10 m <sup>2</sup> /m <sup>2</sup> of thermal insulation
	Mechanical fixings (acc. to ETA) – pins for fixing thermal insulation to the substrate	Type, quantity and layout as per technical plan

The manufacturer provides a guarantee only when used with a complete EWI system (all components) in accordance with the "Guarantee card for EWI systems".

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Layer type	Name and description of the product	Average coverage
REINFORCING COAT	<b>KOMBI WM2 base coat</b> - for applying reinforcing coat	ca. 5.0 kg/m <sup>2</sup>
	<b>Reinforcing fibreglass mesh: KABE 145, KABE 150, KABE 160, KABE 165</b> – anti-alkali impregnated mesh, completely immersed in <b>KOMBI WM2</b> base coat	1.10 m <sup>2</sup> /m <sup>2</sup> of thermal insulation
FINISH COAT	<b>Primer MINERALIT GT</b> – a product that improves adhesion and limits the substrate water absorbency	ca. 0.20 l/m <sup>2</sup>
	External top coat / dry mortar <b>MINERALIT</b> or <b>MINERALITT AKORD</b>	grain size 1.5 mm – 2.5 kg/m <sup>2</sup> grain size 2.0 mm – 3.0 kg/m <sup>2</sup> grain size 3.0 mm – 4.0 kg/m <sup>2</sup>  In the case of spray applied renders (AKORD) grain size 1.5 mm – 2.0÷4.0 kg/m <sup>2</sup>
	<b>NOVALIT F / ARMASIL F / CALSILIT F</b> an optional paint coating – protective-decorative coat	from 0.36 l / m <sup>2</sup> (with double application)

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