

### BASED ON MINERAL WOOL

# KABE THERM MW



EWI (External Wall Insulation) system with silicone, polysilicate, silicate-silicone, mosaic and mineral external coat render including the wood/board effect (with optional paint coating)

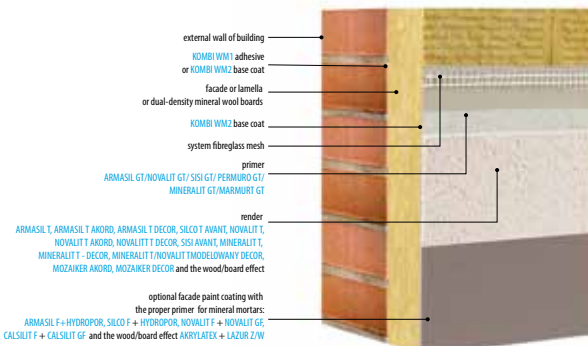
### MAIN ADVANTAGES

- Non-flammable system components
- Reduction of heating costs
- Interior micro-climate improvement
- High aesthetics of facade
- Free release of moisture
- Prevention from water vapour condensation inside the system
- Slowing down the process of the facade soiling
- Ample opportunities to shape external top coat
- Super soundproofing properties

### TECHNICAL SPECIFICATION

**Type of thermal insulation:** Facade, 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 facade and dual-density mineral wool and from 50 mm to 250 mm for lamella wool;  
**Thermal insulation fixing:** bonding or bonding and mechanical fixing;  
**Use of mechanical fixings:** required (as specified in technical design);  
**Reinforcing mesh:** reinforcing fibreglass mesh;  
**Reaction to fire:** class A1 – mineral render system (**MINERALIT T**, **MINERALIT AKORD**, **MINERALIT T+ KOMBI FINISZ**) optionally coated with **NOVALIT F** paints, remaining systems class – A2-s1, d0, system with mosaic render, class B-s1, d0.  
**Colours of mineral renders:** white or base (intended for painting);

### SYSTEM CONSTRUCTION



**Silicone and polysilicate render 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, scraped/mixed (**ARMASIL T**, **SILCO T AVANT**, **SISI AVANT**, **MOZAIKER AKORD**, **MOZAIKER DECOR** render, only solid/grained texture);  
**Grain size:** 1.5 mm; 2.0 mm; 2.5 mm; 3.0 mm (spray applied renders **ARMASIL T AKORD**, **NOVALIT T AKORD** and **MINERALIT T AKORD** – only with a thickness of 1.5 mm, **SILCO T AVANT** silicone render, **SISI AVANT** silicate-silicone render grain size 1.5 and 2.0 mm and **MINERALIT T** mineral render excluding 2.5 mm thickness) **MOZAIKER AKORD** and **MOZAIKER DECOR** mosaic render with grain size 0.8 mm  
**Surface absorption coefficient of external layer:** < 0.5 kg/m<sup>2</sup>;  
**Relative diffusion resistance of external layer:** ≤ 1.0 m;  
**System impact resistance:** cat. II or cat. III (depending on the type of mineral wool and coat render)

### AREAS OF APPLICATIONS

**KABE THERM MW** EWI system is used mainly on buildings that require high vapour permeability, fire protection and protection against the impact of aggressive atmospheric conditions. The system is used in single- and multi-family housing construction industry, public utility and industrial buildings, on new and existing (retrofit) building walls, including the facades of low and high buildings (over 25 m). The system can be made by using facade mineral wool boards (with disturbed fibre arrangement), lamella wool (with arranged fibres) and dual-density mineral wool boards. The **KABE THERM MW** system can be applied on walls made of masonry elements (such as e.g.: bricks, blocks, stone etc.) or from concrete (poured on site or in the form of prefabricated panels). The system can be used on new walls as well as for renovation of the existing ones. It is also possible to use it on horizontal or inclined surfaces that are not exposed to precipitation. The system is especially recommended on buildings with walls made of materials of porous texture (such as e.g.: cellular concrete, breeze blocks, porous bricks). Because of its super soundproofing properties, it is also suitable for the thermal insulation of buildings located in the zones exposed to high levels of noise. The external layer of **KABE THERM MW** system can be made of: **ARMASIL T** and **SILCO T AVANT** silicone top coat, **NOVALIT T** polysilicate top coat, **SISI AVANT** silicate-silicone top coat or **MINERALIT T** mineral top coat mosaic render **MOZAIKER AKORD** and **MOZAIKER DECOR**, available in a wide range of textures, colours and grain sizes. After wetting the silicone **ARMASIL T** render, the effect of water molecules 'being repelled' by silicone resin is observed on its surface. It means that water absorption is greatly reduced and the facade is protected against dirt/dust due to its self-cleaning properties. Additionally, it is possible to make an optional paint coating with **ARMASIL F** or **SILCO F** silicone paint, **NOVALIT F** polysilicate paint and **CALSILIT F** silicate paint.

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

Note: Due to the excessive heating of dark-coloured facades, it is not recommended to use colours featuring a low light reflection coefficient (Y<20%).  
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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 layer	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/dedicated under the same render:</b> <b>ARMASIL GT, NOVALIT GT, SISI GT, PERMURO GT, MINERALIT GT, MARMURIT GT</b> - a product that improves adhesion and limits the substrate water absorbency	ca. 0.20 l/m <sup>2</sup>
	External top coat of render or mortar <b>STANDARD version</b> <b>ARMASIL T, SILCO T AVANT, NOVALIT T, SISI AVANT, MINERALIT T, MOZAIKER DECOR</b> <b>AKORD version</b> <b>ARMASIL T AKORD, NOVALIT T AKORD, MINERALIT T AKORD, MOZAIKER AKORD</b> <b>DECOR version</b> <b>ARMASIL T - DECOR (ARMASIL T SP + ARMASIL T Modelled)</b> - smooth texture <b>NOVALIT T - DECOR (NOVALIT T SP + NOVALIT T Modelled)</b> - smooth texture <b>MINERALIT T - DECOR (MINERALIT T SP + KOMBI FINISZ)</b> - smooth texture Modelled <b>MINERALIT T SP / NOVALIT T - DECOR (MINERALIT T SP + NOVALIT T MODELLED)</b> - modelled texture with marble effect - a protective and decorative layer to protect the system against adverse effect of atmospheric conditions and mechanical damage, render texture and colour to be selected  <b>A plank effect made using the following set of products:</b> - <b>KOMBI DECOR PRINT</b> mineral mortar, - <b>BUDOGRUNT ZG</b> primer, - <b>AKRYLATEX</b> paint, - <b>LAZUR Z/W</b> lazure paint - a protective and decorative layer that protects the system against external factors and gives an attractive wood/board texture and colour ( <b>AKRYLATEX</b> and <b>LAZUR Z/W</b> paints) according to the Farby KABE wood/board effect chart	grain size 1.5 mm – 2.0÷2.5* kg/m <sup>2</sup> grain size 2.0 mm – 3.0 kg/m <sup>2</sup> grain size 2.5 mm – 3.7 kg/m <sup>2</sup> grain size 3.0 mm – 4.5 kg/m <sup>2</sup>  <b>MOZAIKER AKORD</b> mosaic render ca 2.6 kg/m <sup>2</sup> , <b>MOZAIKER DECOR</b> - 1.9 - 3.8 kg/m <sup>2</sup> depending on the colour  In the case of smooth texture, the consumption depends on the type and thickness of render applied  4.0-4.5 kg/m <sup>2</sup> 0.2 l/m <sup>2</sup> 0.14 - 0.20 l/m <sup>2</sup> 0.1 l/m <sup>2</sup>
OPTIONAL PAINT COATING	<b>HYDROPOR, NOVALIT GF, CALSILIT GF primer</b>	0.19-0.24 l/m <sup>2</sup> depending on the substrate absorbency and roughness
	<b>ARMASIL F, SILCO F, NOVALIT F</b> paint coating	from 0.36 l / m <sup>2</sup> (when applied twice, depending on the render grain size)

\* Depending on the render type

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