

BASED ON MINERAL WOOL

KABE THERM MW

External wall insulation (EWI) system with silicone, polysilicate, silicate-silicone, mosaic and mineral external render, including with board effect (with optional paint coating)



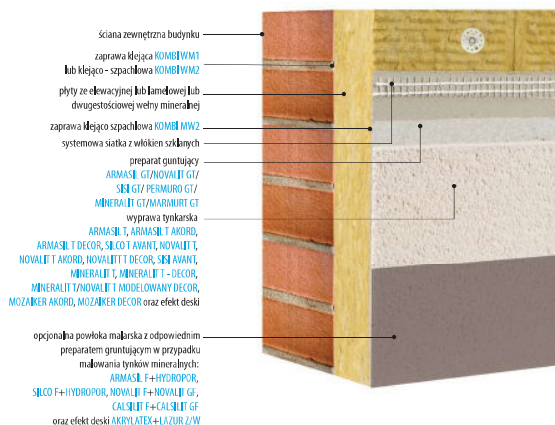
MAIN ADVANTAGES

- Non-flammable system components
- Reduction of building heating costs
- Improved microclimate inside the building
- High aesthetics of façade
- Free release of moisture
- Prevents water vapour condensation inside the system
- Slows down the process of façade soiling
- Ample opportunities to shape external render
- Very good soundproofing properties

TECHNICAL DATA

Type of thermal insulation: Façade, lamella or dual-density mineral wool boards with codes acc. to ETA 16/0079;
Thickness of thermal insulation: from 50 mm to 250 mm for façade, dual-density and lamella mineral wool boards;
Thermal insulation fixing: bonding system with additional mechanical fixing or mechanical fixing with additional bonding;
Use of mechanical fixings: as specified in technical design;
Reinforcing mesh: system reinforcing fibreglass mesh;
Reaction to fire: class A1 – system with mineral renders (**MINERALIT T**, **MINERALIT T AKORD**, **MINERALIT T** + **KOMBI FINISZ**), optionally coated with **NOVALIT F** paint, remaining systems: class – A2-s1,d0, system with mosaic renders: 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 (possible to obtain using inorganic pigments);
Textures: solid, scraped/mixed (**ARMASIL T**, **SILCO T AVANT**, **SISI AVANT**, **MOZAIKER AKORD**, **MOZAIKER DECOR** renders: only solid texture);
Grain size: 1.5 mm; 2.0 mm; 2.5 mm; 3.0 mm (spray-applied renders: **ARMASIL T AKORD** and **NOVALIT T AKORD** and **MINERALIT T AKORD** – only with grain size of 1.5 mm, **SILCO T AVANT** silicone render and **SISI AVANT** silicate-silicone render – grain sizes 1.5 and 2.0 mm, while mineral renders: **MINERALIT T** excluding grain size 2.5 mm);
Surface absorption coefficient of external layer: $< 0.5 \text{ kg/m}^2$;
Relative diffusion resistance of external layer: $\leq 1.0 \text{ m}$;
Impact resistance for the system: cat. II or cat. III (depending on the type of mineral wool and coat render)

AREAS OF APPLICATION

KABE THERM MW EWI system is used mainly on buildings that require high fire protection, vapour permeability and protection against the impact of aggressive weather conditions. It is used in single- and multi-family housing, public utility and industrial, both on already existing buildings and newly erected ones, both low and high buildings (over 25 m). The system can be made using façade 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 used on walls made of masonry components (e.g., bricks, blocks, stone, etc.) or concrete (poured on site or in the form of prefabricated slabs). 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. It is especially recommended for use on buildings with walls made of materials with a porous structure (such as aerated concrete, slag concrete, porous brick). Because of its very good soundproofing properties, it is also suitable for the thermal insulation of buildings located in the zones exposed to high noise levels. The external layer of **KABE THERM MW** system can be made with **ARMASIL T** and **SILCO T AVANT** silicone renders, **NOVALIT T** polysilicate render, **SISI AVANT** silicate-silicone render or **MINERALIT T** mineral render, **MOZAIKER AKORD** and **MOZAIKER DECOR** mosaic renders, available in a wide range of textures, colours and grain sizes and with board effect. After wetting the **ARMASIL T** silicone render, the effect of water molecules "being repelled" by silicone resin is observed on its surface. This effect protects façades against precipitation and reduces soiling deposition. It is also 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	KOMBI WM1 adhesive or KOMBI WM2 adhesive/base coat – for fixing insulation mineral wool boards to the substrate	approx. 5.0 kg/m^2 approx. 5.5 kg/m^2 when using lamella wool boards
THERMAL INSULATION	Façade, lamella and dual-density mineral wool boards	$1.0\text{-}1.10 \text{ m}^2/\text{m}^2$ of thermal insulation
	Mechanical fixings – pins for fixing thermal insulation to the substrate	Type, quantity and layout as per technical design

Note: Due to the excessive heating of dark-coloured façades, it is not recommended to use colours featuring a low light reflection coefficient ($Y < 20\%$).
 The manufacturer grants a warranty only when a complete EWI system is used (all components) in accordance with the "Guarantee card for EWI systems".

BASED ON MINERAL WOOL

Layer type	Name and description of the product	Average coverage
REINFORCING LAYER	KOMBI WM2 adhesive/base coat – for applying reinforcing layer	approx. 5.0 kg/m ²
	System fibreglass mesh: KABE 145, KABE 150, KABE 160, KABE 165 – anti-alkali impregnated mesh, completely immersed in KOMBI WM2 base coat	1.10 m ² /m ² of thermal insulation
FINISH COAT	Primer (dedicated for the same type of render coat or mortar): ARMASIL GT, NOVALIT GT, SISI GT, PERMURO GT, MINERALIT GT, MARMURIT GT – a product that improves adhesion and limits the substrate water absorbency	approx. 0.20 l/m ²
	External coat of render or mortar STANDARD version ARMASIL T, SILCO T AVANT, NOVALIT T, SISI AVANT, MINERALIT T, MOZAIKER DECOR AKORD version ARMASIL T AKORD, NOVALIT T AKORD, MINERALIT T AKORD, MOZAIKER AKORD DECOR version ARMASIL T - DECOR (ARMASIL T SP + ARMASIL T MODELLED) – smooth texture NOVALIT T - DECOR (NOVALIT T SP + NOVALIT T MODELLED) – smooth texture MINERALIT T - DECOR (MINERALIT T SP + KOMBI FINISZ) – smooth texture MINERALIT T / NOVALIT T MODELLED - DECOR (MINERALIT T SP + NOVALIT T MODELLED) – smooth texture with marble effect – protective and decorative layer protecting against adverse weather conditions and mechanical damage; render texture and colour to choose The wood/board effect is made using the following set of products: – KOMBI DECOR PRINT mineral mortar, – BUDOGRUNT ZG primer, – AKRYLATEX undercoat, – LAZUR Z/W lazure paint – a protective and decorative layer that protects the system against external factors and gives an attractive wood/board texture and colour (AKRYLATEX and LAZUR Z/W paints) according to the Farby KABE wood/board effect chart	grain size 1.5 mm – 2.0-2.5* kg/m ² grain size 2.0 mm – 3.0 kg/m ² grain size 2.5 mm – 3.7 kg/m ² grain size 3.0 mm – 4.5 kg/m ² MOZAIKER AKORD mosaic renders – approx. 2.6 kg/m ² , MOZAIKER DECOR – 1.9-3.8 kg/m ² 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 ² 0.2 l/m ² 0.14-0.20 l/m ² 0.1 l/m ²
OPTIONAL PAINT COATING	Primers: HYDROPOR, NOVALIT GF, CALSILIT GF,	0.19-0.24 l/m ² , depending on the substrate absorbency and roughness
	Paint coating: ARMASIL F, SILCO F, NOVALIT F	from 0.36 l/m ² (when applied twice, depending on the thickness of the render grain)

* Depending on the render type

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