

## BASED ON MINERAL WOOL

# KABE THERM MW WHITE

External wall insulation (EWI) system with silicone, polysilicate, silicate-silicone, acrylic external render with optional paint coating



## MAIN ADVANTAGES

- Fire reaction class: non-flammable;
- Free release of moisture;
- Prevents water vapour condensation inside the system;
- Very good soundproofing properties;
- Reduction of building heating costs
- Improved microclimate inside the building
- Wall protection against adverse weather conditions
- Protection against the growth of algae and fungi
- A wide range of types and colours of renders
- Plastic, easy-to-process white cement-based adhesive

## TECHNICAL DATA

**Type of thermal insulation layer:** plain, lamella and dual-density mineral wool boards with codes according to ETA-22/0535

**Thickness of the thermal insulation layer:** lamella boards from 50 to 400 mm inclusive, plain and double-density boards from 50 to 300 mm inclusive;

**Thermal insulation fixing:** bonding system with additional mechanical fixing or mechanical fixing with additional bonding;

**Mechanical fixings:** as per technical design;

**Reinforcing mesh:** system reinforcing fibreglass mesh;

**Reaction to fire:** class A2-s1,d0 (non-flammable);

**Colours:** natural white and colours according to KABE and NCS colour charts or a sample provided (for NOVALIT T and ARMASIL T renders only in colours that can be obtained by using inorganic pigments);

**Textures:** solid / scraped / mixed (for ARMASIL T, SILCO T AVANT, SISI AVANT renders only solid texture);

**Grain size:** 1.0 mm (for ARMASIL T render only solid texture), 1.5 mm; 2.0 mm; 2.5 mm; 3.0 mm (SILCO T AVANT, SISI AVANT, PERMURRO AVANT renders only with grain size 1.5 mm and 2.0 mm);

### Adhesion:

- to concrete  $\geq 250$  kPa;
- to lamella mineral wool  $\geq 70$  kPa;
- to plain and dual-density mineral wool  $\geq 10$  kPa;

### Interlayer adhesion:

- to lamella mineral wool  $\geq 80$  kPa
- to plain and dual-density mineral wool  $\geq 10$  kPa;

### Surface layer water absorption (after 24 hours):

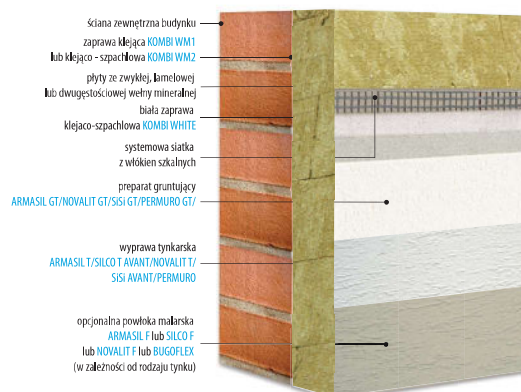
**Impact resistance for the system with render**  $< 0.5$  kg/m<sup>2</sup>;

**SISI AVANT on lamella boards and SILCO T AVANT on plain boards** cat. I

**PERMURRO, SISI AVANT and SILCO T AVANT, as well as NOVALIT T (all other systems):** cat. II

**Water vapour permeability for top coat, S<sub>d</sub>:**  $\leq 0.5$  m

## SYSTEM CONSTRUCTION



## AREAS OF APPLICATION

The **KABE THERM MW WHITE** EWI system is a modern thermal insulation system for external walls based on mineral wool.\* The system is used in single- and multi-family housing construction industry, public utility and industrial buildings, both on low and high buildings (over 25 m). The system can be used on new and renovated walls made of fine masonry components (e.g., bricks, blocks, stone, etc.) or concrete (poured on site or in the form of prefabricated slabs). It is also possible to use it on horizontal or inclined surfaces, that are not exposed to precipitation. The system external layer can be made using **ARMASIL T** silicone renders or **SILCO T AVANT**, **NOVALIT T** polysilicate renders, **SISI AVANT** silicate-silicone renders and **PERMURRO** acrylic renders, available in a wide range of colours and textures. The reinforcing system layer can be made using **KOMBI WHITE** white adhesive/base coat and system reinforcing mesh. Before applying the render, the reinforcing layer must be primed with an appropriate primer (dedicated for the selected render).

Layer type	Name and description of the product	Average coverage
ADHESIVE LAYER	<b>KOMBI WM1</b> adhesive or <b>KOMBI WM2</b> adhesive/base coat	approx. 5.0-5.5 kg/m <sup>2</sup>
THERMAL INSULATION	Plain, lamella and dual-density mineral wool boards	1.0-1.10 m <sup>2</sup> /m <sup>2</sup>
	Mechanical fixings – pins for fixing thermal insulation to the substrate	Type, quantity and layout as per technical design
REINFORCING LAYER	<b>KOMBI WHITE</b> white adhesive/base coat – for applying reinforcing layer	approx. 4.0-5.0 kg/m <sup>2</sup>
	System fibreglass mesh: <b>KABE 145</b> , <b>KABE 150</b> / <b>KABE AVANT 150</b> , <b>KABE 160</b> , <b>KABE 165</b> / <b>KABE AVANT 165</b> – anti-alkali impregnated mesh, completely immersed in <b>KOMBI WHITE</b> base coat	1.10 m <sup>2</sup> /m <sup>2</sup> of thermal insulation
FINISH COAT	Primer (dedicated for the same type of render): <b>ARMASIL GT</b> , <b>NOVALIT GT</b> , <b>SISI GT</b> , <b>PERMURRO GT</b> , to reduce the absorbency of the substrate and increase the adhesion of the finish coat	average coverage approx. 0.2 l/m <sup>2</sup>
	External coat of render: <b>ARMASIL T</b> , <b>SILCO T AVANT</b> , <b>NOVALIT T</b> , <b>SISI AVANT</b> , <b>PERMURRO</b> , – protective and decorative layer protecting against adverse weather conditions and mechanical damage; render texture and colour to choose	grain size 1.0 mm (only for <b>ARMASIL T</b> render – solid texture) – 1.8 kg/m <sup>2</sup> grain size 1.5 mm – 2.3-2.5 kg/m <sup>2</sup> – scraped 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>
OPTIONAL PAINT COATING	<b>ARMASIL F</b> or <b>SILCO F</b> or <b>NOVALIT F</b> or <b>BUGOFLEX</b> paint coating – protective and decorative layer protecting against adverse weather conditions and providing an attractive colour.	from 0.36 l/m <sup>2</sup> (when applied twice and depending on the render grain size)

Depending on the render type  
 Note: Due to the excessive heating of dark-coloured façades, it is not recommended to use colours featuring a low light reflection coefficient (r < 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".