

BASED ON MINERAL WOOL

KABE THERM MW ELASTO



External wall insulation (EWI) system for buildings with increased impact resistance with silicone and silicate-silicone external render and attractive decorative effects

MAIN ADVANTAGES

- System classified as non-flammable
- Reduction of building heating costs
- Improved microclimate inside the building
- Increased impact resistance (class I)
- Attractive decorative effects and high aesthetics of the façade
- Wall protection against adverse weather conditions
- Protection against the growth of algae and fungi
- Optional use of façade paints available in a wide range of colours

TECHNICAL DATA

Type of thermal insulation: made of lamella, dual-density or plain mineral wool that meets the requirements of ETA-22/0426

Thickness of thermal insulation: from 5 to 30 cm inclusively;

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

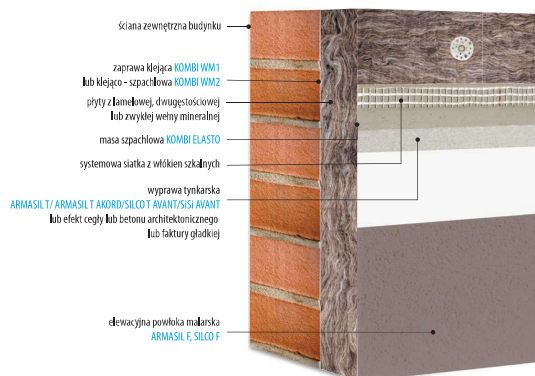
Use of mechanical fixings: as specified in technical design;

Reinforcing mesh: system reinforcing fibreglass mesh;

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

Textures: solid;

SYSTEM CONSTRUCTION



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

Reaction to fire: class A2-s1, d0

Adhesion:

- to concrete ≥ 250 kPa;
- to mineral wool ≥ 80 kPa or destruction in wood; ≥ 80 kPa or destruction in wool;

Adhesion after ageing, surface layer:

Water absorption (after 24 hours):

Impact resistance:

Water vapour permeability, top layer:

< 0.5 kg/m²;

cat. I

≤ 0.5 m

AREAS OF APPLICATION

The **KABE THERM MW ELASTO** EWI system is a thermal insulation system for external walls based on non-flammable mineral wool boards, that provides high fire protection and enhanced impact resistance (resistance to mechanical impacts). It is used in single- and multi-family housing, public utility and industrial buildings for newly erected and already existing buildings. Especially recommended for façades requiring high fire protection, increased impact resistance and attractive decorative effects. The system can be used on walls made of masonry components (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 external system layer can be made by using **ARMASIL T**, **ARMASIL T AKORD**, **SILCO T AVANT** structural silicone renders or **SISI AVANT** silicate-silicone renders, available in a wide range of colours and textures. In addition, for this system, it's possible to perform decorative effects of brick and architectural concrete, as well as smooth texture.

Layer type	Name and description of the product	Average coverage
ADHESIVE LAYER	KOMBI WM1 adhesive or KOMBI WM2 adhesive/base coat	approx. 5.0 to 5.5 kg/m ²
THERMAL INSULATION	Boards made of lamella, dual-density or plain mineral wool that meet the requirements of ETA-22/0426	1.0-1.10 m ² /m ²
	Mechanical fixings meet the requirements of ETA-22/0426 – pins for fixing thermal insulation to the substrate	Type, quantity and layout as per technical design
REINFORCING LAYER	KOMBI ELASTO dispersive, cement-free base coat – for applying reinforcing layer	approx. 4.0 to 5.0 kg/m ²
	System fibreglass mesh: KABE 145 , KABE 150 / KABE AVANT 150 , KABE 160 , KABE 165 / KABE AVANT 165 – anti-alkali impregnated mesh, completely immersed in KOMBI ELASTO base coat	1.10 m ² /m ² of thermal insulation
FINISH COAT (RENDER OR DECORATIVE EFFECT)	External coat of render: ARMASIL T , ARMASIL T AKORD , SILCO T AVANT , SISI AVANT – protective and decorative layer protecting against adverse weather conditions and mechanical damage; render texture and colour to choose	grain size 1.0 mm – 1.8 kg/m ² (only for ARMASIL T render with solid texture) 1.5 mm – 2.3-2.5* 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
	Façade paint coating (optional): ARMASIL F , SILCO F – protective and decorative layer protecting against adverse weather conditions and giving an attractive colour	from 0.36 l/m ² (when applied twice)
	Brick effect: ARMASIL T-DECOR BRICK – ARMASIL T modelled render – LAZUR Z/W lazure paint (optional ageing effect)	approx. 2.0 kg/m ² approx. 0.10 l/m ²
	Architectural concrete effect: ARMASIL T-DECOR ARCHITECTURAL CONCRETE – ARMASIL T modelled render – ARMASIL F undercoat – LAZUR Z/W lazure paint	approx. 2.0 kg/m ² approx. 0.13 l/m ² approx. 0.10 l/m ²
	Smooth texture effect: ARMASIL T - DECOR – smooth texture (ARMASIL T SP + ARMASIL T MODELLED)	from 3.8 kg/m ² *

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".

Note: If mechanical fixings with discs embedded in thermal insulation layer are used, all caps should be installed in the hole (glued) with **KOMBI WM2** adhesive/base coat. Failure to follow this recommendation may result in local bulging in the places, where fixings and the unglued caps are used.

* Depending on the render type and texture