

BASED ON MINERAL WOOL

KABE THERM MW DECOR EFFECT

SYSTEM CONSTRUCTION



External wall insulation (EWI) system for buildings with external cladding in the form of ready-made façade panels according to the manufacturer's catalogue

MAIN ADVANTAGES

- Approved façade fire protection
- High aesthetics and decorative value of thermal insulation with various textures, e.g. board or embossing effect
- Effective wall protection against adverse weather conditions
- Easy and quick installation technology
- Reduction of building heating costs
- Improved microclimate inside the building
- Option to use various cladding patterns

TECHNICAL DATA

Type of thermal insulation: boards made of lamella, plain or dual-density mineral wool (meeting the requirements of ICIMB-KOT-2022/0176 edition 1)

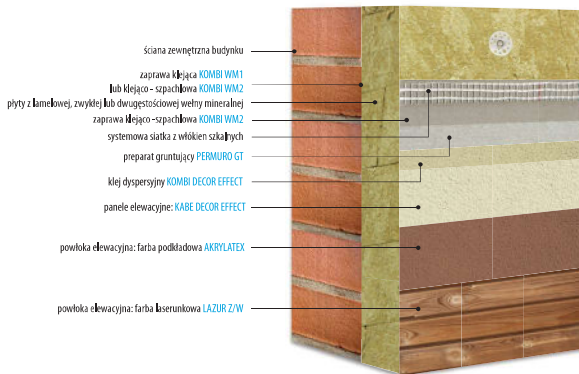
Thickness of thermal insulation: from 5 to 30 cm inclusively;

Thermal insulation fixing: bonding system with additional mechanical fixing or mechanical fixing with additional bonding (gluing);

Mechanical fixings with steel pin: as per technical design;

Reinforcing mesh: system reinforcing fibreglass mesh;

Reaction to fire: class A2-s1,d0;



Adhesion in laboratory conditions:

- to concrete ≥ 0.25 MPa;
- to mineral wool ≥ 0.08 MPa or destruction in wool;

Surface layer adhesion:

Water absorption (after 24 hours):

Surface layer impact resistance:

Diffusion resistance of the surface layer:

< 0.5 kg/m²;

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≤ 0.5 m

AREAS OF APPLICATION

The **KABE THERM MW DECOR EFFECT** EWI system is a set of materials designed to provide thermal insulation of external walls based on lamella, plain and dual-density mineral wool boards with a top coat in the form of flexible façade panels. It is used in single- and multi-family housing, public utility and industrial buildings for newly erected and already existing buildings. The system is especially recommended for buildings requiring high fire protection, high vapour permeability and special decorative effects. The system can be used on walls made of fine masonry components (bricks, blocks, stone, etc.) or concrete (monolithic or prefabricated). It is also possible to use it on horizontal or inclined surfaces, that are not exposed to precipitation. The top layer of the system is a structural cladding made of ready-made **KABE DECOR EFFECT** façade panels, according to the manufacturer's catalogue (e.g. with a board, embossing effect, etc.) painted with **AKRYLATEX** undercoat and **LAZUR Z/W** lazure paint, available in a wide range of colours (as per Farby KABE colour chart).

Layer type	Name and description of the product	Average coverage
ADHESIVE LAYER	KOMBI WM1 adhesive or KOMBI WM2 adhesive/base coat Bonding (adhesive) surface area min. 40% of the bonding surface for boards made of plain or double-density mineral wool and 100% bonding surface for lamella mineral wool boards.	approx. 5.0 to 5.5 kg/m ²
THERMAL INSULATION	Boards made of lamella, plain or dual-density mineral wool (meeting the requirements of ICIMB-KOT-2022/0176 edition 1)	1.0-1.10 m ² /m ²
	Mechanical fixings with steel pins – pins for fixing thermal insulation to the substrate Meeting the following requirements: – disc diameter ≥ 60 mm – disc rigidity ≥ 0.5 kN/mm	Type, quantity and layout as per technical design
REINFORCING LAYER	KOMBI WM2 adhesive/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 WM2 base coat	1.10 m ² /m ² of thermal insulation
STRUCTURAL LAYER	Primer: PERMURO GT to reduce the absorbency of the substrate and increase the adhesion of the finish layer	approx. 0.2 l/m ²
	KOMBI DECOR EFFECT dispersive adhesive – for simultaneous bonding of façade panels to the substrate (bonding surface 100% of the tile area) and grouting	approx. 2.5 kg/m ²
	KABE DECOR EFFECT façade panels (patterns according to manufacturer's catalogue) Flexible façade panels with an organic binder, with the following dimensions: – length up to 2000 mm – width up to 600 mm – thickness from 3 to 5 mm	one installation metre of cladding is sufficient to cover an area of 1 m ²
FINISH COAT	Protective and decorative layer: – AKRYLATEX undercoat 1x – LAZUR Z/W lazure paint 1x – optionally for products with ageing effect – LAZUR Z/W lazure paint 1x	approx. 0.1 – 0.12 l/m ² approx. 0.08 – 0.10 l/m ² , single layer

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

The information included in this document does not cover all the aspects of the product system use. Therefore, the information should be verified each time due to the possibility of justified differences depending on the method of carrying out work, the type of substrate and other external conditions.