

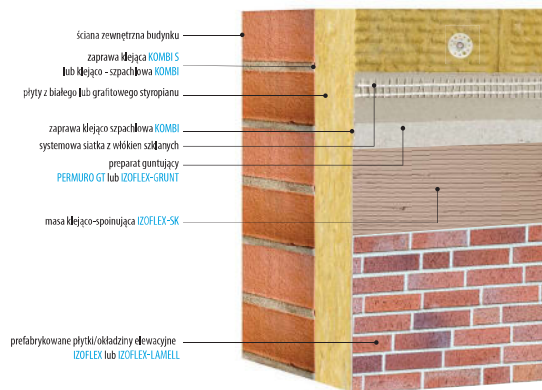
BASED ON MINERAL WOOL

KABE THERM MW IZOFLEX

SYSTEM CONSTRUCTION



External wall insulation (EWI) system for buildings with external cladding in the form of prefabricated façade tiles/cladding



MAIN ADVANTAGES

- Non-flammable system components
- Reduction of building heating costs
- Improved microclimate inside the building
- High aesthetics of façade
- Slows down the process of façade soiling
- Wide range of possibilities for shaping the façade appearance

TECHNICAL DATA

Type of thermal insulation: Plain or lamella mineral wool boards with codes according to ICIMB-KOT-2023/0186;
Thickness of thermal insulation: from 50 mm to 300 mm
Thermal insulation fixing: totally bonded system or bonded 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: A2-s1,d0 (non-flammable);

Adhesion:
 • to concrete ≥ 0.25 MPa;
 • to mineral wool ≥ 0.08 MPa or destruction in wool;
Surface layer adhesion: ≥ 0.08 MPa;
Surface layer water absorption (after 24 h): ICIMB-KOT-2021/0144 < 0.5 kg/m²;
Relative diffusion resistance of the surface layer: ≤ 1.0 m;
System impact resistance: cat. I

AREAS OF APPLICATION

KABE THERM MW IZOFLEX 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 plain mineral wool boards (with disturbed fibre arrangement) or lamella wool (with arranged fibres). The **KABE THERM MW IZOFLEX** 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. The top layer of the system is a durable and aesthetic cladding made of flexible **IZOFLEX** façade tiles imitating clinker cladding or **IZOFLEX-LAMELL** cladding with embossing effect.

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 (the bonding surface for lamella wool boards should be 100%, and for plain mineral wool boards at least 40%)	approx. 5.0 kg/m ² approx. 5.5 kg/m ² when using lamella wool boards
THERMAL INSULATION	Plain or lamella mineral wool boards	1.0-1.10 m ² /m ² of thermal insulation
	Mechanical fixings with a steel pin, approved for use in ETICS on the basis of appropriate documents (ETA, KOT), provided that they meet the following requirements: – disc diameter ≥ 60 mm; – disc rigidity ≥ 0.50 kN/mm	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".

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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 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
FINISH COAT	Primer: PERMURO GT or IZOFLEX-GRUNT – a product that improves adhesion and limits the substrate water absorbency	approx. 0.20 l/m ²
	Ready-to-use, coloured adhesive and grouting compound IZOFLEX-SK – for simultaneous bonding of tiles to the substrate (bonding surface 100% of the tile area) and grouting	approx. 2.2-2.5 kg/m ²
	Façade claddings/tiles: IZOFLEX or IZOFLEX-LAMELL Prefabricated mineral tiles/cladding on an organic binder with dimensions: – length 65-1150 mm – width 30-900 mm – thickness 3-6 mm smooth or rough texture. Tiles/claddings can also be manufactured in other dimensions and shapes upon agreement between the manufacturer and the recipient.	one installation metre of Izoflex tiles is sufficient to cover an area of 1 m ² , including a joint width of approx. 11-12 mm, while Izoflex-Lamell claddings are installed with butt joints

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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.