

EPS-BASED

KABE THERM 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

- 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: EPS boards with the following code: EPS-EN 13163-T(2)-L(2)-W(2)-S(5)-P(5)-BS75-DS(N)2-DS(70,-)J2-TR80

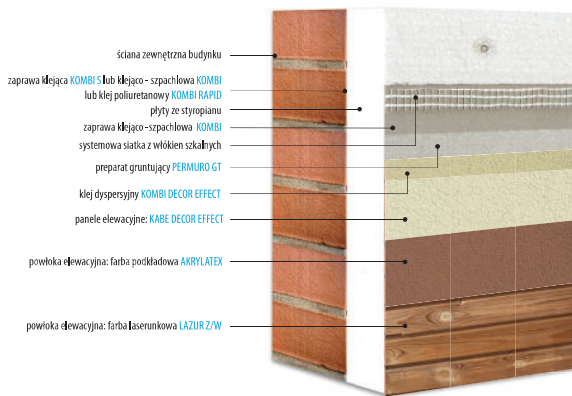
Thickness of thermal insulation layer: from 2 to 30 cm inclusive;

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;

Fire classification: non-fire spreading system (NRO);



Adhesion:

- to concrete ≥ 0.25 MPa;
- to EPS ≥ 0.08 MPa;

Surface layer adhesion:

- Water absorption (after 24 hours): < 0.08 MPa;
- Surface layer impact resistance: < 0.5 kg/m²;
- Diffusion resistance of the surface layer: cat. I
- ≤ 1.0 m

AREAS OF APPLICATION

The **KABE THERM DECOR EFFECT** EWI system is a set of materials designed to provide thermal insulation of external walls based on EPS with a top coat in the form of flexible façade panels. It is applied in single- and multi-family housing construction industry, public utility and industrial buildings – in both the existing and new constructions – to the height of up to 25 m (for the buildings erected before 1 April 1995 to the height of eleventh story, inclusive). It is especially recommended for projects that require unique decorative effects and a fast pace of work. 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 S adhesive or KOMBI adhesive/base coat or KOMBI RAPID polyurethane adhesive Bonding (adhesive) surface area min. 40% of the board area.	approx. 4.0 kg/m ² approx. 1/4 pack/m ²
THERMAL INSULATION	White or graphite EPS boards with the code EPS-EN 13163-T(2)-L(2)-W(2)-S(5)-P(5)-BS75-DS(N)2-DS(70,-)J2-TR80 – cured EPS thermal insulation boards	1.0-1.10 m ² /m ²
	Mechanical fixings – pins for fixing thermal insulation to the substrate Meeting the following requirements: – disc diameter ≥ 60 mm – disc rigidity ≥ 0.3 kN/mm	Type, quantity and layout as per technical design
REINFORCING LAYER	KOMBI adhesive/base coat – for applying reinforcing layer	approx. 4.0 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 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.