

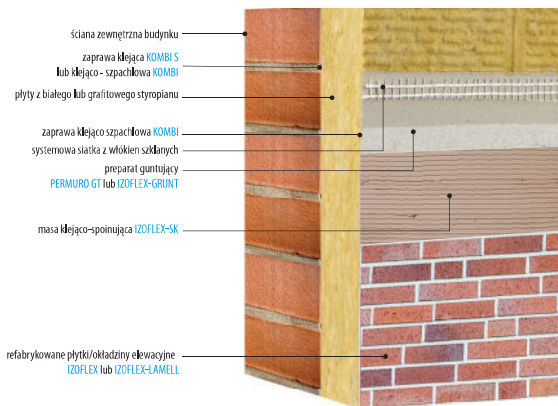
EPS-BASED

# KABE THERM EPS IZOFLEX

## SYSTEM CONSTRUCTION



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



### MAIN ADVANTAGES

- Reduction of building heating costs
- Improved microclimate inside the building
- Attractive decorative effects and high aesthetics of the façade
- Wall protection against adverse weather conditions
- Option to use various types of tiles

### TECHNICAL DATA

**Type of thermal insulation:** EPS boards with the code at least:

EPS-EN 13163-T(2)-L(2)-W(2)-S(5)-P(5)-BS75-DS(N)2-DS(70,-)2-TR80

**Thickness of thermal insulation:** from 2 to 30 cm inclusively;

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

**Use of mechanical fixings:** optional (as per technical design);

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

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

**Adhesion in laboratory conditions:**

- to concrete
- to EPS

≥ 0.25 MPa;

≥ 0.08 MPa;

≥ 0.08 MPa;

≤ 0.5 kg/m<sup>2</sup>;

cat. I

**Surface layer adhesion:**

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

**Surface layer impact resistance:**

**Diffusion resistance of the surface layer:**

≤ 1.0 m

### AREAS OF APPLICATION

**KABE THERM EPS EPS IZOFLEX** 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 tiles imitating clinker cladding or with embossing effect. 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 use in buildings, where high aesthetics and high resistance to external factors are required. 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 durable and aesthetic cladding made of prefabricated **IZOFLEX** façade tiles imitating clinker cladding or **IZOFLEX-LAMELL** tiles with embossing effect.

Layer type	Name and description of the product	Average coverage
ADHESIVE LAYER	<b>KOMBI S adhesive or KOMBI adhesive/base coat</b> or <b>KOMBI RAPID polyurethane adhesive</b> Bonding (adhesive) surface area min. 40% of the board area.	approx. 4.0 kg/m <sup>2</sup> approx. 1/4 pack/m <sup>2</sup>
THERMAL INSULATION	<b>White or graphite EPS boards with the code at least EPS-EN 13163-T(2)-L(2)-W(2)-S(5)-P(5)-BS75-DS(N)2-DS(70,-)2-TR80</b> – cured EPS thermal insulation boards	1.0-1.10 m <sup>2</sup> /m <sup>2</sup>
	<b>Mechanical fixings (used optionally)</b> – pins for fixing thermal insulation to the substrate <b>Approved for use in ETICS on the basis of appropriate documents (ETA, KOT)</b>	Type, quantity and layout as per technical design
REINFORCING LAYER	<b>KOMBI adhesive/base coat</b> – for applying reinforcing layer	approx. 4.0 kg/m <sup>2</sup>
	<b>System fibreglass mesh: KABE 145, KABE 150 / KABE AVANT 150, KABE 160, KABE 165 / KABE AVANT 165</b> – anti-alkali impregnated mesh, completely immersed in <b>KOMBI</b> base coat	1.10 m <sup>2</sup> /m <sup>2</sup> of thermal insulation
FINISH COAT	<b>Primer: PERMURO GT or IZOFLEX-GRUNT</b> to reduce the absorbency of the substrate and increase the adhesion of the finish layer	approx. 0.2 l/m <sup>2</sup>
	<b>Ready-to-use, coloured adhesive and grouting compound IZOFLEX-SK</b> – for simultaneous bonding of tiles to the substrate (bonding surface 100% of the tile area) and grouting	approx. 2.2-2.5 kg/m <sup>2</sup>
	<b>Façade tiles/cladding: IZOFLEX and IZOFLEX-LAMELL</b> Prefabricated mineral tiles/cladding with an organic binder, dimensions: – length 65-1150 mm – width 30-900 mm – thickness 3-6 mm smooth or rough texture. Tiles 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 <sup>2</sup> , including a joint width of approx. 11-12 mm, while Izoflex-Lamell claddings are installed with butt joints

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