

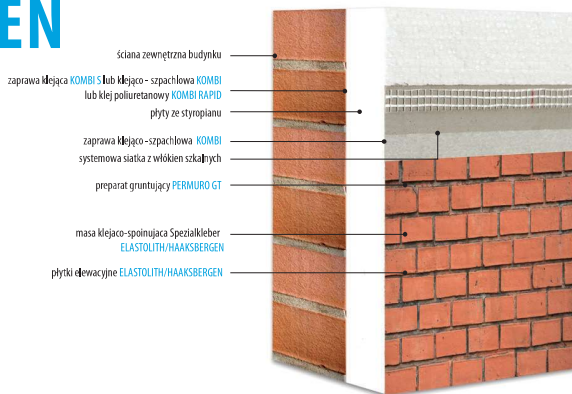
EPS-BASED

# KABE THERM EPS ELASTOLITH / HAAKSBERGEN



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

## SYSTEM CONSTRUCTION



### 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:**

- to concrete  $\geq 0.25$  MPa;
- to EPS  $\geq 0.08$  MPa;

**Surface layer adhesion:**

$\geq 0.08$  MPa;

**Water absorption (after 24 hours):**

$< 0.5$  kg/m<sup>2</sup>;

**Surface layer impact resistance:**

cat. I

**Diffusion resistance of the surface layer:**

$\leq 1.0$  m

### AREAS OF APPLICATION

The **KABE THERM EPS ELASTOLITH / HAAKSBERGEN** 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. 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 flexible **ELASTOLITH / HAAKSBERGEN** façade tiles, imitating clinker cladding and available in a wide range of colours, shapes and textures.

Layer type	Name and description of the product	Average coverage
ADHESIVE LAYER	<b>KOMBI S adhesive or KOMBI adhesive/base coat or 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 with a metal pin (optional use)</b> – pins for fixing thermal insulation to the substrate <b>Meeting the following requirements:</b> – disc diameter $\geq 60$ mm – disc rigidity $\geq 0.3$ kN/mm	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</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</b> , coloured adhesive and grouting compound: Spezialkleber <b>ELASTOLITH / HAAKSBERGEN</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>ELASTOLITH / HAAKSBERGEN façade tiles</b> Prefabricated mineral tiles with an organic binder with the following dimensions: – length 210-1050 mm – width 30-480 mm – thickness 4-8 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 cladding is sufficient to cover an area of 1 m <sup>2</sup> , including a joint width of approx. 11-12 mm

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