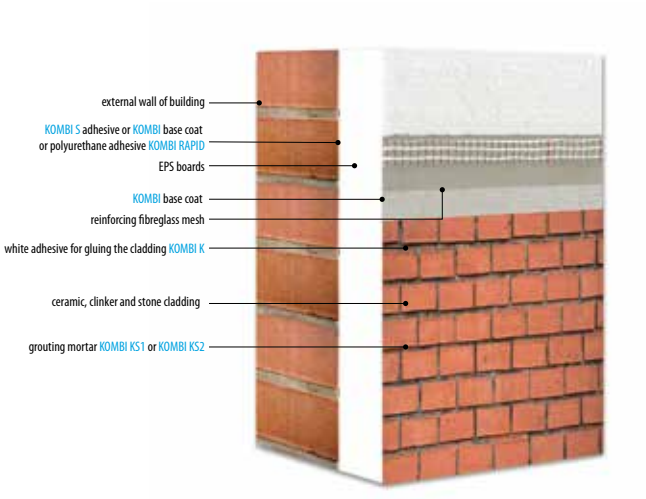
EPS BASED

KABE THERM CK

EWI system for buildings with external ceramic, clinker or stone cladding

SYSTEM CONSTRUCTION



MAIN ADVANTAGES

- Reduction of heating costs
- Interior micro-climate improvement
- Attractive decorative effects and high aesthetics of the facade
- Protection of walls against the impact of adverse atmospheric conditions
- Different types of cladding can be used

TECHNICAL SPECIFICATION

Type of thermal insulation: EPS boards with the following codes: EPS-EN 13163-T(2)-L(2)-W(2)-S(5)-P(5)-BS150-DS(N)2-DS(70,-)2-TR100;
Thickness of thermal insulation: from 2 to 30 cm inclusively;
Thermal insulation fixing: bonding or bonding and mechanical fixing;
Use of mechanical fixings: obligatory (as specified in technical design);
Reinforcing mesh: reinforcing fibreglass mesh;
Fire classification: non-fire spreading system (NRO);

Adhesion:	
• to concrete	≥ 0.25 MPa;
• to EPS	≥ 0.08 MPa;
Adhesion of the surface layer:	≥ 0.08 MPa;
Water absorption (after 24 hours):	< 0.5 kg/m^2;
Surface layer impact resistance:	cat. I
Surface layer diffusion resistance:	≤ 5.7m;
Behavior under self-weight:	
• Max. non-destructive load 260N	
• Max. deflection 8.4 mm	

AREAS OF APPLICATIONS

KABE THERM CK EWI system is a set of materials intended for insulation of external walls of buildings based on EPS with ceramic, clinker or stone cladding. It is applied in single- and multi-family housing construction industry, public utility and industrial buildings, both in new build and existing (retrofit) building walls to the height of up to 25 m (for the buildings erected before 1 April 1995 to the height of eleventh story inclusively). It is especially recommended for investments where high aesthetics and resistance to external conditions are required. The system can be used on walls made of small-sized masonry elements (bricks, blocks, stone, etc.) or concrete (monolithic or prefabricated).

Layer type	Name and description of the product	Average coverage
ADHESIVE LAYER	**KOMBI S adhesive or KOMBI base coat or polyurethane adhesive KOMBI RAPID** Gluing surface min. 60% of the surface of the tile.	ca. 6.0 kg/m^2 ca. 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)-BS150-DS(N)2-DS(70,-)2-TR100** – cured EPS thermal insulation boards	1.0÷1.10 m^2/m^2
	Mechanical fixings with metal mandrel (obligatory through the reinforcing mesh) – pins for fixing thermal insulation to the substrate	Type, quantity and layout as per technical plan
REINFORCING COAT	**KOMBI base coat** - for applying reinforcing layer	ca. 4.0 kg/m^2
	Reinforcing fibreglass mesh: KABE 145, KABE 150, KABE 160, KABE 165 – anti-alkali impregnated mesh, completely immersed in **KOMBI** base coat	1.10 m^2/m^2 of thermal insulation
FINISH COAT	**White adhesive for gluing the cladding KOMBI K** (Gluing surface 100% of the surface of the tile)	2.8-8.4 kg/m^2
	Ceramic tiles according to PN-EN 14411 dry pressed, with absorbency up to 0.5%, surface mass not more than 20.5 kg / m², dimensions: length - not more than 600 mm, width - not more than 300 mm, thickness 5 ÷ 8 mm	depending on tile size and tile joint width
	Clinker tiles, obtained by cutting full clinker bricks, type U and category I, according to PN-EN 771-1, with absorbency up to 10%, surface mass not more than 40 kg / m², dimensions: length - not more than 240 mm, width - not more than 115 mm, thickness: 10 ÷ 15 mm	depending on tile size and tile joint width
	Stone tiles according to PN-EN 1469, with absorbency up to 13.5%, surface mass: not more than 40.0 kg / m², dimensions: length not more than 600 mm, width - not more than 300 mm, thickness - 10 ÷ 15 mm	depending on tile size and tile joint width
	Grouting mortars (used interchangeably) **KOMBI KS1** (for grouting) or **KOMBI KS2** (for sealing) - weld widths in the range of 6 ÷ 20 mm	3.0-5.0 kg / m^2 depending on the size of the tile joints and cladding used

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