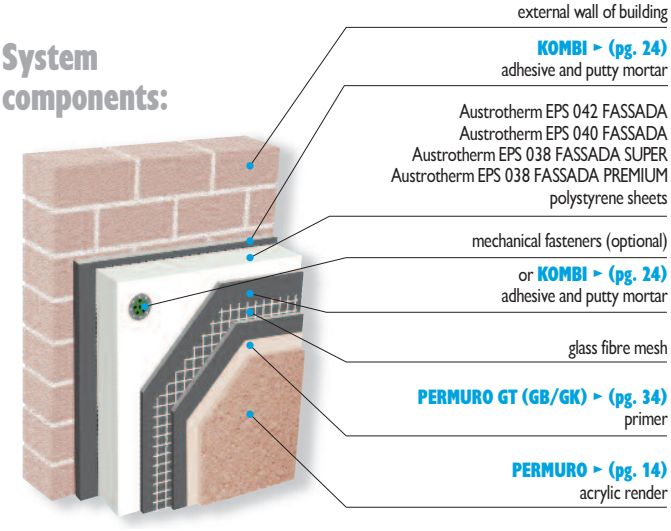
KABE THERM EPS

Building insulation system based on polystyrene with external acrylic render PERMURO◆

System components:



Main advantages:

- **Effectively protects against the effects of unfavourable atmospheric conditions;**
- **Contains high quality acrylic render, available in a wide range of colours and textures;**
- **Possesses a finishing layer with a high resistance to micro-cracking and physical damage;**
- **Improves the microclimate inside of the building;**
- **Ensures the appropriate thermal insulating power of walls;**
- **Limits the costs of heating the building;**
- **Is easy to install.**

Purpose:

The **KABE THERM EPS** with external acrylic render **PERMURO** insulation system is the most popular system for the insulation of exterior walls of buildings. It is used in residential constructions for one or more families, and public and industrial buildings, in existing structures as well as in those under construction up to a height of 25 m (for buildings constructed before April 1995, up to a height of the eleventh story inclusively). Due to the easy technology of installation and low costs of realisation, it is used most often during the thermo-modernisation of buildings made using out-dated energy consuming technologies (not fulfilling the valid requirements for thermal insulating power). The system can be used on all typical mineral surfaces (such as concrete, cement or cement-calciferous render, sandstone, as well as on unfinished walls made from bricks, blocks, hollow bricks, and other such ceramic or sand-calciferous materials) as well as on surfaces coated with an adherent coat of facade paint or a thin-coat render. The finishing layer for the system is the **PERMURO ▸ (pg. 14)** acrylic render, available in a wide range of colours and textures.

Technical data:

Type of thermal insulation layer: Austrotherm EPS 042 FASSADA, Austrotherm EPS 040 FASSADA, Austrotherm EPS 038 FASSADA SUPER, Austrotherm EPS 038 FASSADA PREMIUM polystyrene sheets;
Thickness of thermal insulation layer: from 50 to 200 mm inclusively;
Method of affixation of thermal insulation: fixing or fixing with mechanical fixation;
Application of mechanical fasteners: optional (specified in the technical design);
Reinforcing material: a glass fibre mesh with a basis weight of 145 or 165 g/m^2;
Fire safety class: system not propagating flames (NPF);
Colours: natural white and colours according to the KABE, NCS templates or a supplied template;
Textures: full, brushed/mixed;
Grain sizes: 1.5 mm; 2.0 mm; 2.5 mm; 3.0 mm;

Adhesion:	• to concrete	≥0.3 MPa;
	• to polystyrene	≥0.1 MPa;
Interlayer adhesion:		≥0.1 MPa;
Water absorbability (after 24h):		≤ 1000 g/m^2;
Resistance to impact:		≥ 3 J.

Type of layer	Product name and description	Average consumption
Adhesive layer	**KOMBI ▸ (pg. 24) or adhesive and putty mortar** - for the fixing of polystyrene	about 4.0 kg/m^2
Thermal insulation layer	Austrotherm **EPS 042 FASSADA** Austrotherm **EPS 040 FASSADA** Austrotherm **EPS 038 FASSADA SUPER** Austrotherm **EPS 038 FASSADA PREMIUM** polystyrene sheets	1.0÷1.10 m^2/m^2 of insulation
	Mechanical fasteners (optional) - pins for affixing the thermal insulation layer to the base	type, amount and placement according to the technical design
Reinforced layer	**KOMBI ▸ (pg. 24) adhesive and putty mortar** - for the application of the reinforced layer	about 4.0 kg/m^2
	glass fibre mesh - anti-alkaline impregnated mesh, with its entire surface immersed in the **KOMBI ▸ (pg. 24)** mortar	1.10 m^2/m^2 of insulation
Finishing layer	**PERMURO GT (GB/GK) ▸ (pg. 34) primer** - preparation improving adhesion and limiting base absorbability	about 0.20 l/m^2
	Acrylic render made from PERMURO ▸ (pg. 14) - protective and decorative layer, protecting the system against the unfavourable effects of atmospheric conditions and physical damage; render colour and texture to be selected	grain size 1.5 mm —2.3 kg/m^2 grain size 2.0 mm —3.0 kg/m^2 grain size 2.5 mm —3.7 kg/m^2 grain size 3.0 mm —4.5 kg/m^2

Note: Due to excessive facade heating for dark colours, we do not recommend using colours with a low coefficient of light reflection (Y<20%).

◆ The manufacturer grants a guarantee only in the case of application of the complete system in accordance with the "Guarantee card for insulation systems"

ETA 09/0042
European Technical Approval

BBA APPROVAL INSPECTION TESTING CERTIFICATION
CERTIFICATE 13/5015

Farby KABE