

KABE THERM EPS

Building insulation system based on polystyrene with external polysilicate render **NOVALIT T** ♦

Main advantages:

- Effectively protects the building against the effects of unfavourable atmospheric conditions;
- Ensures that the process of facade staining is significantly slowed down;
- Contains low-alkaline polysilicate render;
- Improves the microclimate inside of the building;
- Ensures the appropriate thermal insulating power of walls;
- Limits the costs of heating the building.

Purpose:

The **KABE THERM EPS** with polysilicate external render **NOVALIT T** insulation system has applications of insulating existing buildings as well as those under construction. It is used in residential constructions for one or more families, and public and industrial buildings up to a height of 25 m (for buildings constructed before April 1995, up to a height of the eleventh story inclusively). The specific purpose of this system is the thermo-modernization of buildings made using old, energy consuming technologies (not fulfilling the valid requirements for thermal insulating power). The **KABE THERM EPS** with polysilicate external render **NOVALIT T** system is most often applied to structures requiring high protection against unfavourable outdoor conditions. The system can be used on all typical mineral surfaces (such as concrete, cement or cement-calceiferous render, sandstone, as well as on unfinished walls made from bricks, blocks, hollow bricks, and other such ceramic or sand-calceiferous 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 low-alkaline polysilicate **NOVALIT T** > (pg. 19) render, available in a wide range of colours and surface qualities.

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/m²;

Fire safety class: system not propagating flames (NPF);

Colours: natural white or colours from the KABE template as well as selected colours from the NSC template or according to a supplied template (possible to obtain using non-organic pigments);

Textures: full, brushed/mixed;

Grain sizes: 1.5 mm; 2.0 mm; 2.5 mm; 3.0 mm;

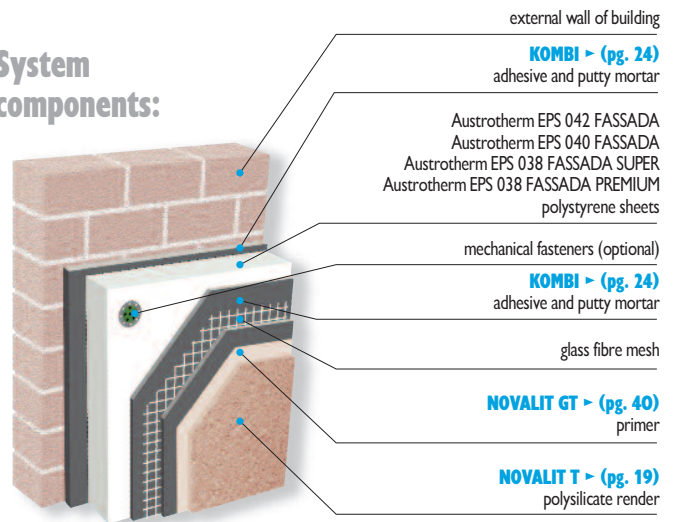
Adhesion: • to concrete ≥0.3 MPa;
• to polystyrene ≥0.1 MPa;

Interlayer adhesion: ≥0.1 MPa;

Water absorbability (after 24h): ≤ 1000 g/m²;

Resistance to impact: ≥ 1 J.

System components:



| Type of layer | Product name and description | Average consumption |
|--------------------------|---|--|
| Adhesive layer | KOMBI > (pg. 24) adhesive and putty mortar - for the fixing of polystyrene insulating panels to the base | 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 | NOVALIT GT > (pg. 40) primer -preparation improving adhesion and limiting base absorbability | about 0.20 l/m ² |
| | NOVALIT T > (pg. 19) polysilicate (low-alkaline silicate) render - 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"



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European Technical Approval

