



DESCRIPTION: Polystyrene-based, carbon-reinforced thermal insulation board.

APPLICATION AREAS: It is used to provide thermal insulation in the interior and exterior facades of buildings, roofs, terraces, basement floors, ceilings, and floor coverings.

ADVANTAGES: Graphite reflector EPS, due to the graphite additive it contains, gains the ability to absorb and reflect infrared rays, allowing a reduction in thermal conductivity and thus providing significant thermal insulation in the applied structures and surfaces throughout the year. The significant energy savings it provides contribute to both household economics and environmental and ecological balance. Thanks to its high vapor permeability, it breathes. It is a lightweight material.

APPLICATION: **Petek Sistem YP** should be applied around the insulation board, leaving a 5 mm gap at the edges. Three large pieces of **Petek Sistem YP** should be applied to the middle section as spot applications. Ensure that 40% of the insulation board is covered with adhesive. To avoid creating a conductive path, adhesive should not be carried over to the joints. Depending on weather conditions, the application of **Petek Sistem SV** can begin 2 days after the insulation boards are adhered. The boards should be installed from the bottom upwards, continuously and in a staggered pattern. At corners, boards coming from opposite directions should overlap each other. After the boards are adhered, any gaps should be filled with insulation tapes or **Petek Therm Karbonlu EPS** where necessary. Anchoring should begin only after the adhesive has fully dried (24 hours). Anchoring should be done in a way that does not create protrusions on the surface, with a minimum of 6 anchors per square meter. More anchors should be used at corners and window edges. After anchoring the entire surface, plaster application can begin. Corner profiles should be used in weak areas such as corners and window edges. Tools should be cleaned with water before the adhesive dries.

PACKAGING AND STORAGE: Packaging size: 500 mm x 1000 mm. Store in a cool, ventilated environment, away from flammable products such as solvents and thinners. It should not be exposed to direct sunlight and should not be placed near heat sources.

Technical Specifications

Thermal conductivity coefficient: 0,032 W/mK Density: 16 kg/m³

Compressive strength: 60 kPa

Flexural Strength: 100 kPa

Reaction to fire: Class E

Tensile strength perpendicular to surfaces: ≥ 100 kPa

Squareness tolerance: ± 2 mm

Flatness tolerance: ± 5 mm

Length tolerance: ± 2 mm

Width tolerance: ± 2 mm

Thickness tolerance: ± 1 mm

Long-term water absorption by partial immersion: $\leq 0,5$ kg/m²

TS EN: 13163

