

### Description

Kalekim Carbon EPS thermal insulation board is a gray EPS Thermal Insulation Board that is manufactured out of Expanded Polystyrene.

### Fields of Application

- Thermal insulation on exterior and interior walls of buildings.
- It is used for sheathing within thermal insulation systems.

### Properties

- Due to its graphite content, prevents thermal energy radiation. Therefore, it provides better thermal insulation compared to EPS Thermal Insulation Boards.
- Dry and still air is trapped within the innumerable number of small closed porous cells in its structure (3-6 billions depending on EPS density in 1 m<sup>2</sup>). The material is very light as 98% of it is air, and it doesn't bring additional loads to structures.
- Light, easy-to-apply and easy-to-handle.
- Environment-friendly. 100% recyclable and no polluting waste.
- Useable in interior and exterior walls.
- Fixed thickness, doesn't get thinner over time.
- Maintains its insulation property.
- Infinite lasting.

### Storage

- Packages should be stored in a cool and ventilated environment.
- Protect from water and sunlight when storing outdoors.
- Don't expose to heat.
- Stock in an inclined way to prevent accumulation and penetration of rainwater.

### Packaging

- 2 cm package 12.5 m<sup>2</sup>
- 3 cm package 8 m<sup>2</sup>
- 4 cm package 6 m<sup>2</sup>
- 5 cm package 5 m<sup>2</sup>
- 6 cm package 4 m<sup>2</sup>
- 7 cm package 3.5 m<sup>2</sup>
- 8 cm package 3 m<sup>2</sup>

**Technical Specifications**

(23 °C and 50% RH)

Standart	TS EN 13163
Thermal Conductivity Value	≤ 0.032 W/mK
Fire Resistance	According to EN 13501-1 Class E
Density	16 kg/m <sup>3</sup>
Dimensional Consistency	± % 0.2 DS (N) 2
Compression Resistance (min.) (10% deformation)	CS (10) 60
Tensile Strength Perpendicular to The Surface	TR100
Long Term Water Absorption Under Total Immersion	WL (T) 5
Vapour Diffusion Resistance Coefficient (μ)	20-40
Flexural Strength	≥ 115 kPa

**Dimensions**

Length	1.000 mm
Width	500 mm
Thickness	20, 30, 40, 50, 60, 70, 80, 90, 100, 110, 120 mm



**Certificate of Quality**  
TS EN 13163