



## Kalekim Stone Wool Thermal Insulation Board

**Description**

Kalekim Stone Wool Thermal Insulation Board is built by melting locally procured basalt, an inorganic material, at 1350 °C -1400 °C and turning it into fibers to provide thermal, sound and fire insulation.

**Fields of Application**

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

**Properties**

- Contains no harmful gases.
- Maintains its insulation property.
- High vapor permeability; Buildings breathe preventing mold growth.
- 5-10 dB sound insulation due to its fibrous structure.
- No thermal expansion; dimensional stability.
- No heat build-up at assembly points; no loss of energy.
- Class A1 fireproof material.
- Water-repellant; repels water thanks to its fibrous nature and vaporizes the water inside due to its breathing nature.

**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**

- 3 cm package 5.76 m<sup>2</sup>
- 4 cm package 4.32 m<sup>2</sup>
- 5 cm package 3.60 m<sup>2</sup>
- 6 cm package 2.88 m<sup>2</sup>
- 8 cm package 2.16 m<sup>2</sup>
- 10 cm package 1.44 m<sup>2</sup>
- 12 cm package 1.44 m<sup>2</sup>



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### Technical Specifications

(23 °C and 50% RH)

Standart	TS EN 13163
Thermal Conductivity Value	≤ 0.035 W/mK
Fire Resistance	According to EN 13501-1 Class E
Density	150 kg/m <sup>3</sup>
Thickness Tolerance Range	T4-3+5 mm
Compression Resistance (min.) (10% deformation)	CS (10) 60
Tensile Strength	TR15 ≥ kPa
Long Term Water Absorption Under Total Immersion	WL (P) ≤ 3 kg/m <sup>2</sup>
Vapour Diffusion Resistance Coefficient (μ)	μ 1
Melting Point	T1 > 1000°C

### Dimensions

Length	1.200 mm
Width	600 mm
Thickness	30, 40, 50, 60, 70, 80, 90, 100, 110, 120 mm



**Certificates of Quality**  
TS EN 13162