Kalekim

Kalekim Stone Wool Thermal Insulation Board

Technical Data Sheet

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^2
- 4 cm package 4.32 m^2
- 5 cm package 3.60 m^2
- 6 cm package 2.88 m^2
- 8 cm package 2.16 m^2
- 10 cm package 1.44 m^2
- 12 cm package 1.44 m^2

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Technical Specifications

(23 °C and 50% RH)

Standart	TS EN 13162
Thermal Conductivity Value	≤ 0.039 W/mK
Fire Resistance	According to EN 13501-1 Class A1
Density	150 kg/m^3
Thickness Tolerance Range	T4-60 mm
Compression Resistance (min.) (10% deformation)	CS (10) 50
Tensile Strength Perpendicular to Faces	TR ≥ 15 kPa
Long Term Water Absorption By Partial Immersion	W_{lp} ≤ 3 kg/m^2
Short Term Water Absorption By Partial Immersion	W_p ≤ 1 kg/m^2
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

Quality Certificates

TS EN 13162

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