



Expanded insulation corkboard

Material Data Sheet

Material Description & Properties

The **expanded insulation corkboard** is a sustainable construction material made through a 100% natural process, using cork as the only raw material. It delivers high performance in thermal, acoustic and anti-vibration insulation, making it especially suitable for ETICS, ITICS, roofs, floors, and interior insulation systems.

Advantages

- 100% natural material
- High thermal, acoustic and anti-vibration insulation
- Enhanced thermal lag
- Mechanical stability
- High durability
- Water vapor permeability
- Renewable, biodegradable and recyclable
- Negative carbon footprint ⁽¹⁾

Product specifications

- Board dimension: 1000 x 500 mm
- Thickness up to 300 mm
- Option: Overlapping system
- Density: $110 \pm 10 \text{ kg/m}^3$
- Thermal Conductivity: $0,039 \text{ W/m.K}$ ⁽²⁾



(1) EPD number, HUB-0281

(2) 0,040 W/m.K for ACERMI certification

Technical characterization · In accordance with the harmonized technical specification EN 13170:2012+A1:2015

Technical characterization	Performance	Specific test standard
Thermal Resistance (R)	See table below	EN 12667
Thermal Conductivity	0,039 W/m·K	EN 12667
Specific Heat	1560 J/(kg·K)	EN ISO 10456
Reaction to fire (Euroclass characteristics)	Class E	EN13501-1
Flexural strength	Thicknesses up to 50 mm: ≥ 140 kPa Thicknesses above 50 mm: ≥ 110 kPa	EN12089
Compressive strength (10% deformation)	CS(10)100: ≥ 100 kPa	EN 826
Tensile strength perpendicular to surface	TR40: ≥ 40 kPa	EN1607
Water absorption	WS: < 0.5 kg/m ²	EN1609
Water vapour transmission	MU20 (60mm)	EN ISO 12086

Thermal resistance as a function of thickness · EN 12667

Thickness · mm	10	15	25	30	35	40	45	50	55	60	65	70	70
Thermal Resistance · (m ² ·K)/W	0.25	0.40	0.60	0.75	0.90	1.00	1.15	1.25	1.40	1.50	1.65	1.75	1.75
Thickness · mm	75	80	90	95	100	110	120	130	140	150	160	170	170
Thermal Resistance · (m ² ·K)/W	1.90	2.05	2.30	2.40	2.55	2.80	3.05	3.30	3.55	3.85	4.10	4.35	4.35
Thickness · mm	180	190	210	220	230	240	250	260	270	280	290	300	300
Thermal Resistance · (m ² ·K)/W	4.60	4.85	5.35	5.60	5.90	6.15	6.40	6.65	6.90	7.15	7.40	7.65	7.65

Main application systems

Roofs



Floors



External walls



Internal partitions



Ceilings



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