



Expanded Cork Board - ICB

The ICB is a 100 % vegetable, originated from cork.

This product originates from a renewable and sustainable raw material, since the cork is extracted without killing or doing any harm to the tree. The maintenance of the cork oak forest is an ecofriendly activity, keeping and preserving a very fragile

and unique ecosystem.

The Insulation Corkboard is made from the expansion of the cork granules, by steaming.

The agglutination of the granules is made with the resins of the cork, without the use of any synthetic agents, namely glues or solvents. It is presented in boards.

The physical and mechanical properties of the cork origins on a product that is elastic, permeable to steam, with long durability (without changing its properties) and with excellent thermal, acoustical and vibrations insulation features.



Technical data

- Density: from 100 to 120 Kg/m³
- Dimensions: 1000x500mm
- Thicknesses: from 10mm to 300mm
- Thermal Conductivity Coeff.: 0,040 W/mK
- Tension to stress: from 1,4 to 2,0 Kgf/Cm²
- Tension to compression at 10%: ≥ 100 Kpa
- Permeability to steam: 386 ng/Pa.sm²
- Resistance to steam diffusion: $\mu = 7 - 14$
- Temp. of usage: from -180°C to $+120^{\circ}\text{C}$
- Fire class: Euroclasse E
- Fire class - ETICS System: B-s1,d0
- High elasticity
- Long durability, without losing any properties

Applications

- Sound insulation
- Thermal and sound insulation of walls
- Thermal and sound insulation of facades
- Thermal and sound insulation of roofs (flat decks and pitched roofs)
- Thermal insulation of refrigerator rooms
- Thermal insulation of heated floors
- Thermal and sound insulations of concrete structures
- Insulation of vibrations

Ecological indicators

- Delay time (in hours per 20cm): 13
- Very low primary energy
- Carbon consumer (reduces the green-house effect)
- 100% recyclable
- Natural product

Thermal insulation values

Thickness	R (in m ² k/W)	K (in W/m ² k)
20mm	0,500	2,000
25mm	0,650	1,600
30mm	0,750	1,333
40mm	1,000	1,000
50mm	1,250	0,800
60mm	1,500	0,667
80mm	2,000	0,500
100mm	2,500	0,400

Certifications



Packing

Thickness	Sheets p/pack	m ² p/pack	m ³ p/pack
20mm	15	7,50	0,150
25mm	12	6,00	0,150
30mm	10	5,00	0,150
40mm	8	4,00	0,160
50mm	6	3,00	0,150
60mm	5	2,50	0,150
80mm	4	2,00	0,160
100mm	3	1,50	0,150