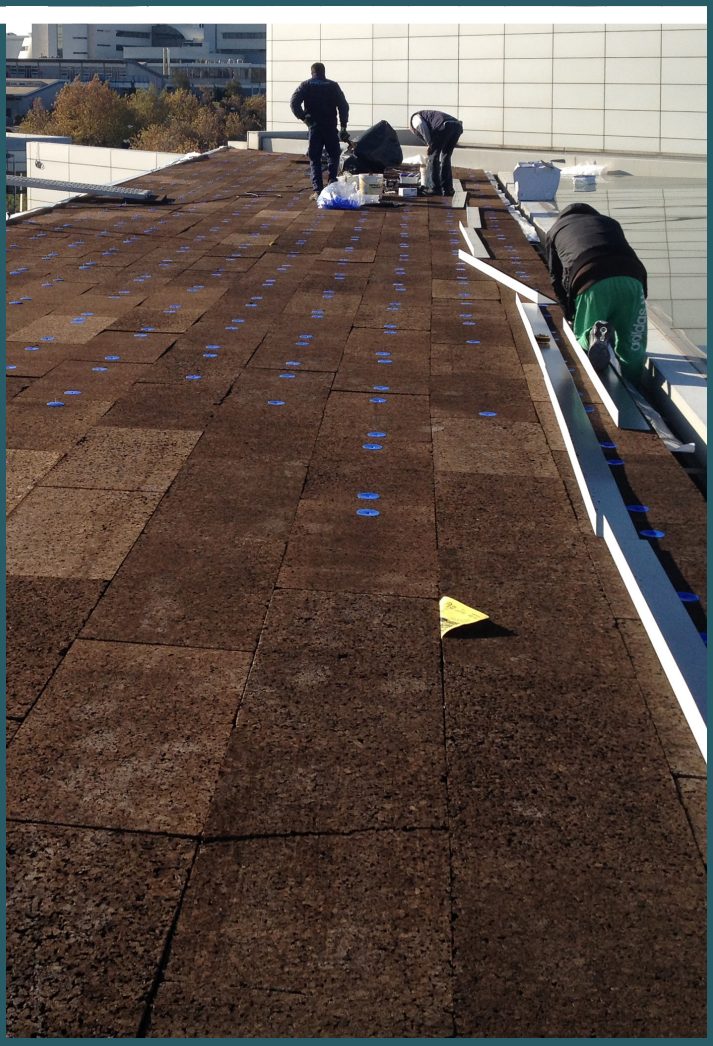
Expanded insulation corkboard

Natural materials for technical solutions

Description

The EXPANDED INSULATION CORKBOARD is a sustainable material for sustainable construction. 100% natural process in which only cork is used as raw material. Solution with high performance in thermal, acoustic and anti-vibration insulation, especially suitable for use in external and internal walls, slabs and floors, roofs and ceilings.



Advantages

- 100% natural and fully recyclable
- Very low embodied energy
- CO_2 sink (Carbon Negative)
- Excellent thermal, acoustic and anti-vibration insulation
- Mechanical stability
- Almost unlimited durability, keeping technical features
- Promotes thermal lag
- Indoor Air Quality A+
- Permeability to water vapor

Product lines

- Board dimension: 1000 x 500 (mm)
- Thickness up to 300 (mm)
- Option: Overlapping system

Product specifications

- Density: +/- 110 Kg/m^3
- Thermal Conductivity: 0,039 W/m.K
(declared 0,040 W/m.K for ACERMI certification)

Main application systems

Roofs



Floors


External walls



Internal partitions

Ceilings

TECHNICAL CHARACTERIZATION

Declared performance: ICB - EN 13170 - L2 - W2 - T2 - CS(10)100 - TR50 - WS - MU20 - CC(0,8/0,4/10)5 - AFr35

Essential characteristics	Performance	Harmonised technical specification EN 13170: 2012
Reaction to fire, Euroclass characteristics	Reaction to fire	Euroclass E
Thermal resistance	Thermal resistance	see Table A
	Thermal conductivity	0,039 W/m.K
	Thickness, d_L	T1 - T2 (d > 50mm)
Water permeability	Water absorption	WS
Water vapour	Water vapour transmission	MU20
Compressive strength	Compressive stress at 10% deformation	CS (10) 100
Durability of reaction to fire against heat, weathering, ageing/degradation	Durability characteristics	Satisfy
Durability of thermal resistance against heat, weathering, ageing/degradation	Thermal resistance and thermal conductivity	Satisfy
	Durability characteristics	Satisfy
Tensile/Flexural strength	Tensile strength perpendicular to faces	TR50
Durability of compressive strength against ageing/degradation	Compressive creep	CC (0,8/0,4/10)5

Table A

Thermal Resistance (R) in accordance with EN 13170: 2012+A1: 2015

Thickness, d_L [mm]	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95
Thermal resistance [m2 . K/W]	0,50	0,60	0,75	0,85	1,00	1,10	1,25	1,35	1,50	1,60	1,75	1,85	2,00	2,10	2,25	2,35
Thickness, d_L [mm]	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250
Thermal resistance [m2 . K/W]	2,50	2,75	3,00	3,25	3,50	3,75	4,00	4,25	4,50	4,75	5,00	5,25	5,50	5,75	6,00	6,25

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