



ECOLOGICAL INSULATION - CORK AND CORKWALL

CORK AND DERIVATIVES



WHY WE SHOULD USE CORK IN CONSTRUCTION

- 100% natural product
- Several applications (ceilings, walls, floors, indoor and outdoor decoration, etc)
- Without any additives, agglomeration with its own resins (suberin).
- 90% of energy consumption is biomass (waste of its own industrial process)
- The Industrial process waste is 100% reusable (cork granulated + dust)
- High dimensional stability (supports big thermal oscillations (from -180°C to + 120°C).
- In Case of fire the cork does not release toxic gases.
- Unlimited durability, maintaining the technical characteristics (official tests have proven 45-50 years).
- After use is completely recycled and used again in construction applications.

CORK AND DERIVATIVES

APPLICATIONS



ETICS

THERMAL INSULATION SYSTEM BY THE OUTSIDE



DOUBLE EXTERIOR WALL



SIMPLE PARTITION WALL



PARTITION WALL FOR EXISTING WALL



VENTILATED WALL



FLOATING SLAB



FLAT COVER



GREEN COVER

CORK AND DERIVATIVES

APPLICATIONS



SLOPED COVER
WITH SUB-TILE



SLOPED COVER



DILATATION
JOINTS



ANTI-VIBRATION

TECHNICAL CHARACTERISTICS

> **Density:** 100/120 kg / m³. > **Thermal conductivity:** test result between 0.036 / 0.038 W / (mk) > **declared for CE value:** 0.040 W / (mk) > **Compressive strength 10%:** 100kPa reported (110/120 kPa results of tests) - EN 1607.
> **moisture content:** maximum 8% - EN 12105. > **Water Absorption:** 0.5 kg / m² declared (maximum test result 0.3 kg / m²) - EN 1609. > **Tolerances length:** between 3 and 5 mm +/- - EN 822. > **Tolerances on width:** between 2 and ± 3 mm - EN 822. > **Thickness tolerances:** ± between - 1 and 2 mm - EN 823.
> **Resistance fire:** Euro class "E" - EN 13501-1. > **Sustainability:** virtually unlimited. > **Recyclable:** 100%.
> **Impact noise:** 20dB BF - MF 40 dB - 30 dB MF. > **Airborne noise emissions:** 30 dB BF - MF 35dB - 34dB HF. > **50 mm Sound absorption:** 40% to 400 Hz / 50 Hz to 3500%
> **Speed of sound on the cork.** 500 m / second. > **Acoustic absorption coefficient 500 CPS:** 0.33 / 0.35

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Technical characteristics	Norm	values limit / tolerance	Class
length	NP EN 822	1000 ± 5 mm	L2
width	NP EN 822	500 ± 3 mm	W2
thickness	NP EN 823	(20 a 50 mm) ± 1mm (55 a 160 mm) ± 2mm	T1 T2
miter	NP EN 824	≤ 2 mm	---
flatness	NP EN 825	≤ 2mm	---
bulk density	NP EN 1602	≤ 130 kg/m ³	---
Thermal conductivity coefficient	EN 12667	≤ 0,040 W/m.K (λ_0)	---
dynamic stiffness (by thickness 50mm)	EN 29052-1	≤ 126 MN/m ³	SD126
flexural strength	NP EN 12089	≥ 130 kPa	---
compressive strength (10% deformation)	NP EN 826	≥ 100 kPa	CS(10)100
tensile strength perpendicular to the faces	NP EN 1607	≥ 50 kPa	TR50
water content	EN 12105	≤ 8%	---
water absorption	NP EN 1609	≤ 0,5 kg/m ²	WS
Reaction to fire	EN ISO 11925-1	≤ 150 mm (h)	Euroclasse E

Thermal resistance values	
Thickness (mm)	R _T (m ² .°C/W)
10	0,25
20	0,50
30	0,75
40	1,00
50	1,25
60	1,50
70	1,75
80	2,00
90	2,25
100	2,50
110	2,75
120	3,00
130	3,25
140	3,50
150	3,75

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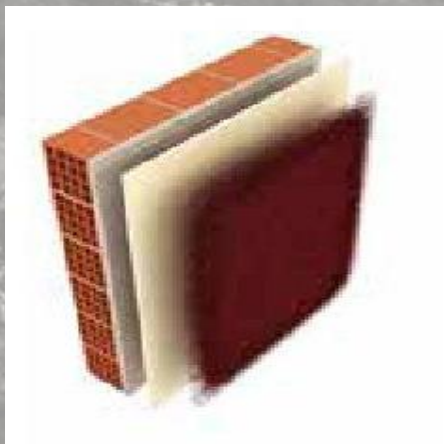


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CORKWALL

WHAT IS CORKWALL

- It is natural cork projected in emulsion, with thermal, acoustic and anti-cracks finishing.
- Corkwall is a mixture of cork granules selected with aqueous resins, minerals and additives.
- Corkwall adheres to the most common coating materials and finishing of construction (mortar, metal, wood, PVC, EPS, XPS, cork). It's perfect for:
 - Coating and finishing of facades, providing additional thermal insulation and anti-cracks.
 - Impermeable to the water from rain (in substrates such as mortar and plaster), adding resistance to fire M1.
 - Encapsulation of asbestos roofs, adding thermal and acoustic properties without cost of renovation.
 - Has a fine textured appearance, is applied with a special pistol or prepared for the product. It is available in white and in other colours. (See catalogue forward)
 - Has fire rating Euroclass B (M1)



CORK AND DERIVATIVES

CORKWALL



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CORKWALL

