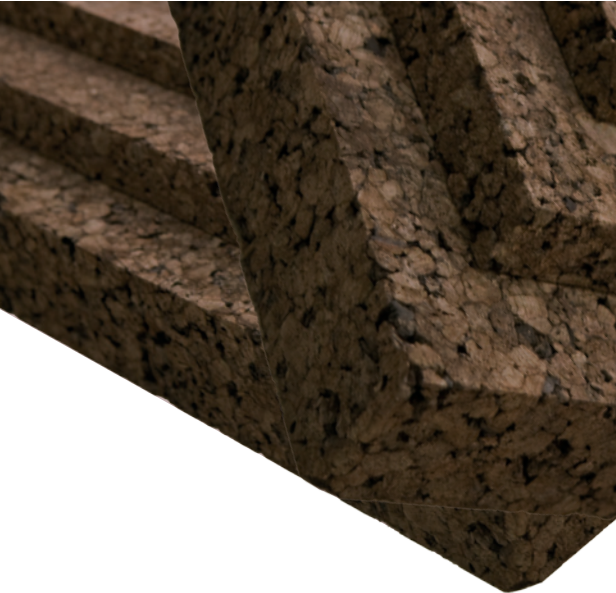




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INSULATION GUIDE 100% NATURAL

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100%
NATURAL

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AMORIM

AMORIM ISOLAMENTOS, S.A.

-
- Ⓢ Long durability
 - Ⓢ The best insulation
 - Ⓢ Low embodied energy
 - Ⓢ Dimensional stability
 - Ⓢ Totally recyclable
-



ANTI-VIBRATION WWW.AMORIMISOLAMENTOS.COM



Reduce or eliminate the transmission of vibrations and consequent noise to the building in which it is installed and the neighbouring buildings. All machines should be insulated.

TECHNICAL FEATURES

- > Standard density: 110 to 120 kg/m³;
- > Thermal conductivity: $\lambda = 0.037$ to 0.040 W/m°C.
- > High density: 170 to 190 kg/m³;
- > Thermal conductivity: $\lambda = 0.043$ W/m°C.
- > Excellent thermal lag.
- > Excellent acoustic insulation.
- > Permissible temperatures: -180°C to 120°C.
- > Does not absorb water by capillary action.
- > Fire resistance: EuroClass E.

ENVIRONMENTAL FEATURES

- > 100% natural and additive-free industrial process.
- > Durability of 50 to 60 years without loss of features.
- > Carbon sink.
- > Low embodied energy.
- > Totally recyclable.

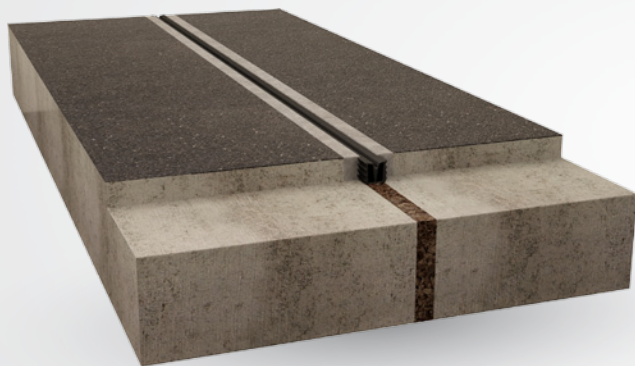
PRODUCT LINES

- > Standard Density 110/120 Kg/m³: 1000 x 500 mm x [10 to 320mm].
- > High Density 170/190 Kg/m³: 1000x500x [25; 50; 75; 100mm]



EXPANSION JOINT

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Expansion joints are used in demanding concrete constructions neutralizing expansion and contraction, preventing cracks and burst concrete.

TECHNICAL FEATURES

- Meets ASTM D 1752/84 Type II standard.
- Compression: 50% of thickness with loads from 0.34 to 10.35MPa.
- Recovery: 90% of original thickness at 50% compression.
- Extrusion: 6.35 mm (max.) expansion when subjected to 50% compression.
- No disintegration in boiling water.
- No disintegration in HCl.

ENVIRONMENTAL FEATURES

- 100% natural and additive-free industrial process.
- Excellent durability without requiring maintenance.
- Carbon sink.
- Low embodied energy.
- No emission of compounds harmful to indoor air quality.

PRODUCT LINES

- Standard size: 1000 x 500 mm x [12,5 ; 15 ; 20 ; 25 ; 50mm].
- Density: 170/190 Kg/m³.



GREEN ROOF WWW.AMORIMISOLAMENTOS.COM



Thermal and acoustic insulation for green roofs, providing a more aesthetically pleasing landscape but also absorbing rainwater, providing insulation and lowering urban air temperature.

TECHNICAL FEATURES

- Density: 110 to 120 kg/m³.
- Thermal conductivity: $\lambda = 0.037$ to 0.040 W/m°C.
- Excellent thermal lag.
- Excellent acoustic insulation.
- Resistance to compression at 10%: ≥ 100 Kpa.
- Permissible temperatures: -180°C to 120°C .
- Does not absorb water by capillary action.
- Fire resistance: EuroClass E.

ENVIRONMENTAL FEATURES

- 100% natural and additive-free industrial process.
- Durability of 50 to 60 years without loss of features.
- Carbon sink.
- Low embodied energy.
- Totally recyclable.

PRODUCT LINES

- Standard size: $1000 \times 500 \text{ mm} \times [10 \text{ to } 320\text{mm}]$.



FLAT ROOF

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Thermal and acoustic insulation for flat roofs, allowing the roof space to be visitable and useable

TECHNICAL FEATURES

- > Density: 110 to 120 kg/m³
- > Thermal conductivity: $\lambda = 0.037$ to 0.040 W/m°C.
- > Excellent thermal lag.
- > Excellent acoustic insulation.
- > Resistance to compression at 10%: ≥ 100 Kpa.
- > Permissible temperatures: -180°C to 120°C .
- > Does not absorb water by capillary action.
- > Fire resistance: EuroClass E.

ENVIRONMENTAL FEATURES

- > 100% natural and additive-free industrial process.
- > Durability of 50 to 60 years without loss of features.
- > Carbon sink.
- > Low embodied energy.
- > Totally recyclable.

PRODUCT LINES

- > Standard size: $1000 \times 500 \text{ mm} \times [10 \text{ to } 320\text{mm}]$.



FLOATING SLAB WWW.AMORIMISOLAMENTOS.COM



Acoustic insulation against impact noise for screeds and additionally providing thermal insulation with Expanded Insulation Cork Board.

TECHNICAL FEATURES

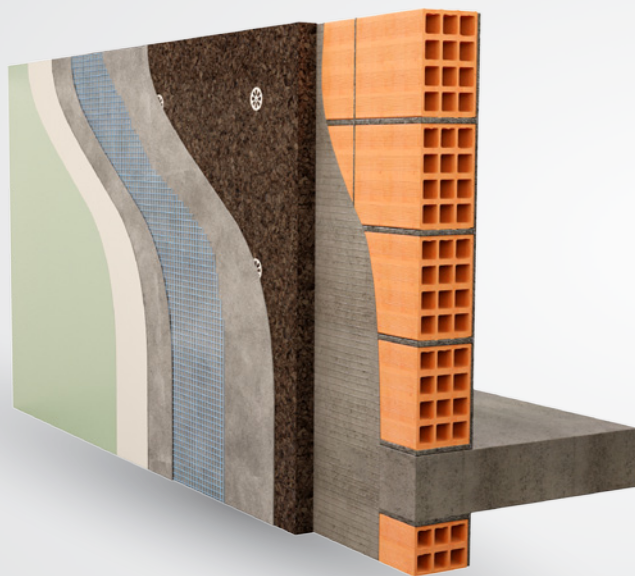
- > Insulation against impact noise:
 - a) Slab 140mm, Insulation cork 20mm, Floating slab (screed) 50mm: $\Delta L_w = 21$ dB.
 - b) Slab 140mm, Insulation cork 50mm, Floating slab (screed) 50mm: $\Delta L_w = 22$ dB.
 - c) Slab 140mm, Insulation cork 20mm, Floating slab (screed) 70mm: $\Delta L_w = 22$ dB.
 - d) Slab 140mm, Insulation cork 50mm, Floating slab (screed) 70mm: $\Delta L_w = 25$ dB.
- > Density: 110 to 120 kg/m³.
- > Thermal conductivity: $\lambda = 0.037$ to 0.040 W/m°C.
- > Resistance to compression at 10%: ≥ 100 Kpa.
- > Excellent dimensional stability.
- > Fire resistance: EuroClass E.

ENVIRONMENTAL FEATURES

- > 100% natural and additive-free industrial process.
- > Durability of 50 to 60 years without loss of features.
- > Carbon sink.
- > Low embodied energy.
- > Totally recyclable.

PRODUCT LINES

- > Standard size: 1000 x 500 mm x [10 to 320mm].



Thermal and acoustic insulation for external walls with Expanded Insulation Cork Board, applied to the outer surface of the wall in the External Thermal Insulation Composite System / External Insulation Façade System.

TECHNICAL FEATURES

- Density: 110 to 120 kg/m³.
- Thermal conductivity: $\lambda = 0.037$ to 0.040 W/m°C.
- Resistance to bending: $\geq 1.8 \times 10^6$ kg/m².
- Resistance to perpendicular traction: 50 Kpa.
- Resistance to compression 10% of deformation ≥ 100 Kpa.
- Excellent dimensional stability - does not expand or contract.
- Permissible temperatures: -180°C to 120°C.
- Does not absorb water by capillary action.
- Excellent acoustic insulation.
- Fire resistance of product: EuroClass E.
- Fire resistance in the system: EuroClass B

ENVIRONMENTAL FEATURES

- 100% natural and additive-free industrial process.
- Durability of 50 to 60 years without loss of features.
- Carbon sink.
- Low embodied energy.
- Totally recyclable.

PRODUCT LINES

- Standard size: 1000 x 500 mm x [10 to 320mm].



EXTERNAL CAVITY WALLS

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Thermal and acoustic insulation
for external cavity walls with
Expanded Insulation Cork Board,
partially filling the cavity.

TECHNICAL FEATURES

- Density: 110 to 120 kg/m³
- Thermal conductivity: $\lambda = 0.037$ to 0.040 W/m°C.
- Coefficient of insulation against airborne noise: $R_w = 53$ dB.
- Excellent dimensional stability.
- Excellent breathing capacity.
- Does not absorb water by capillary action.
- Fire resistance: EuroClass E.

ENVIRONMENTAL FEATURES

- 100% natural and additive-free industrial process.
- Durability of 50 to 60 years without loss of features.
- Carbon sink.
- Low embodied energy.
- Totally recyclable.

PRODUCT LINES

- Standard size: 1000 x 500 mm x [10 to 320mm].



The Cork Tree is the basis of a worldwide unique ecosystem, thus contributing for the survival of many native fauna species and for the protection of environment.

TECHNICAL CHARACTERISTICS

- > Density (standard) 110/120 kg/m³
- > Lambda: 0,037 / 0,040 W/mk.
- > Very good acoustical insulation.
- > Resistance 10% compression: 100 Kpa.
- > Resistance perpendicular to the faces: 50 Kpa.
- > Excellent dimensional stability.
- > Fire resistance: Euroclass "E".
- > Practically unlimited durability
(keeping their technical characteristics).
- > Standard dimensions: 1000 x 500 mm.
- > Working temperature: between - 180°C + 120°C

FAVOURABLE IMPACT ON CORK FORESTS

- > Total area (Portugal) 735,000 hectares.
- > The cork tree produce cork every nine years
(a renewable raw material).
- > Avoids soil desertification.
- > Provides local employment in the forestry sector
hence prevent population desertification.
- > Important in maintaining biodiversity (unique in Europe).
- > Portuguese forests trap 5 million tons of CO₂ every year.