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INSULATION GUIDE

100% NATURAL

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100%
NATURAL

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AMORIM ISOLAMENTOS, S.A.

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



➤ ANTI-VIBRATION



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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 $0.040\text{ W/m}^\circ\text{C}$.
- High density: 170 to 190 kg/m³;
- Thermal conductivity: $\lambda = 0.043\text{ W/m}^\circ\text{C}$.
- 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 10.35 MPa.
- 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.

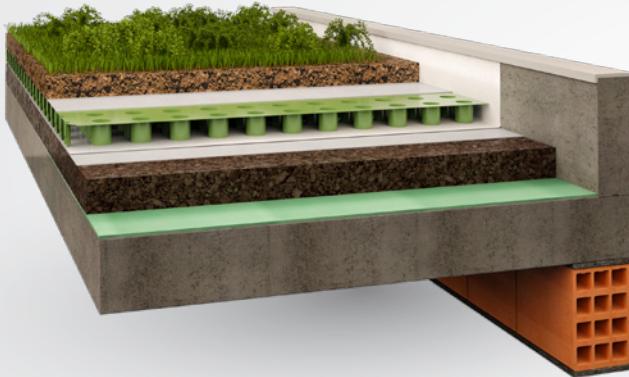
PRODUCT LINES

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



GREEN ROOF

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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 $0.040 \text{ W/m}^\circ\text{C}$.
- Excellent thermal lag.
- Excellent acoustic insulation.
- Resistance to compression at 10%: $\geq 100 \text{ Kpa}$.
- 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 x 500 mm x [10 to 320mm].



► 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 x 500 mm x [10 to 320mm].



FLOATING SLAB

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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: $\Delta Lw = 21$ dB.
 - b) Slab 140mm, Insulation cork 50mm, Floating slab (screed) 50mm: $\Delta Lw = 22$ dB.
 - c) Slab 140mm, Insulation cork 20mm, Floating slab (screed) 70mm: $\Delta Lw = 22$ dB.
 - d) Slab 140mm, Insulation cork 50mm, Floating slab (screed) 70mm: $\Delta Lw = 25$ 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.

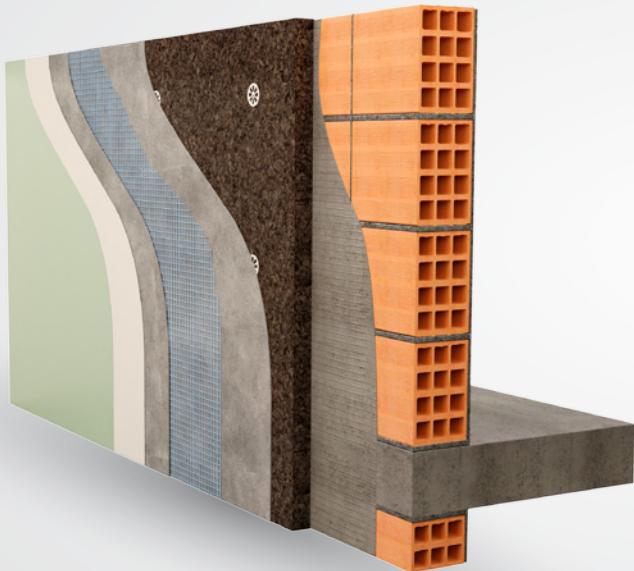
PRODUCT LINES

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



► ETICS / EIFS (EU/USA)

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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: $> 1.8 \times 10^6$ 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.