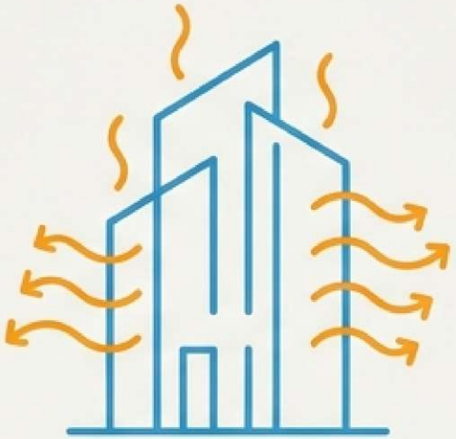
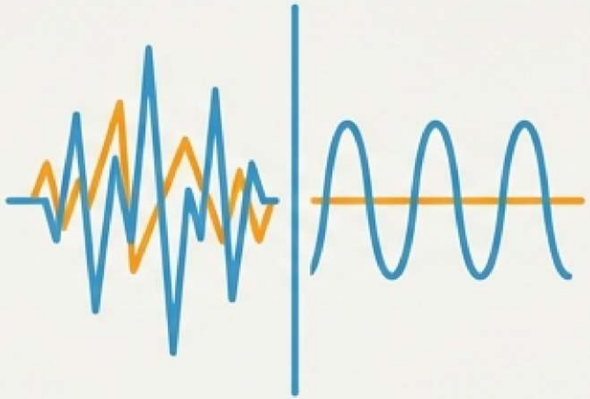

Redefining Building Performance with Nature's Technology
An Introduction to High-Performance Natural Cork Insulation
SUBERLEV
FALCON STEMA
NATURAL TECHNOLOGY

The Persistent Challenges in Modern Construction



Energy Inefficiency.

Uncontrolled heat and cold losses lead to high energy costs and compromised indoor comfort.



Acoustic Discomfort.

Poor sound insulation between rooms and from the outside reduces occupant well-being and privacy.

Moisture & Degradation.

Condensation and trapped moisture create ideal conditions for mold, mildew, and structural rot, threatening building health.

The Solution: Suberlev Blown-In Natural Cork

A 100% natural cork granule designed for blowing into hollow chambers, delivering superior thermal and acoustic insulation.

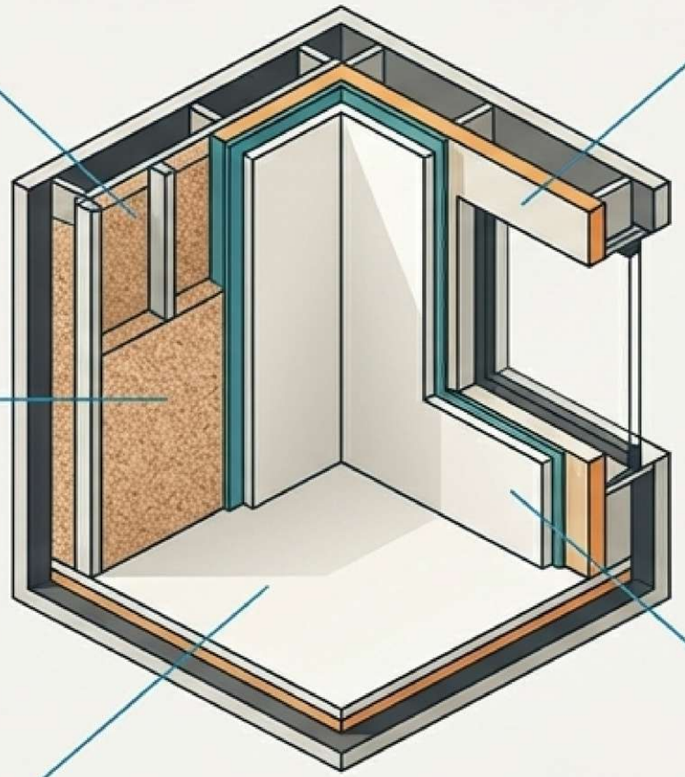
Improve comfort, efficiency, and building health with a single, sustainable material.

A Multi-Faceted Solution for Demanding Projects.

Superior Thermal Insulation: Significantly reduces heat and cold transfer.

Breathable Moisture Control: Prevents condensation, mold, and mildew without absorbing water.

Exceptional Durability: Rot-proof and chemically inert for long-lasting performance.



High-Performance Acoustic Insulation: Reduces noise transmission for improved acoustic comfort.

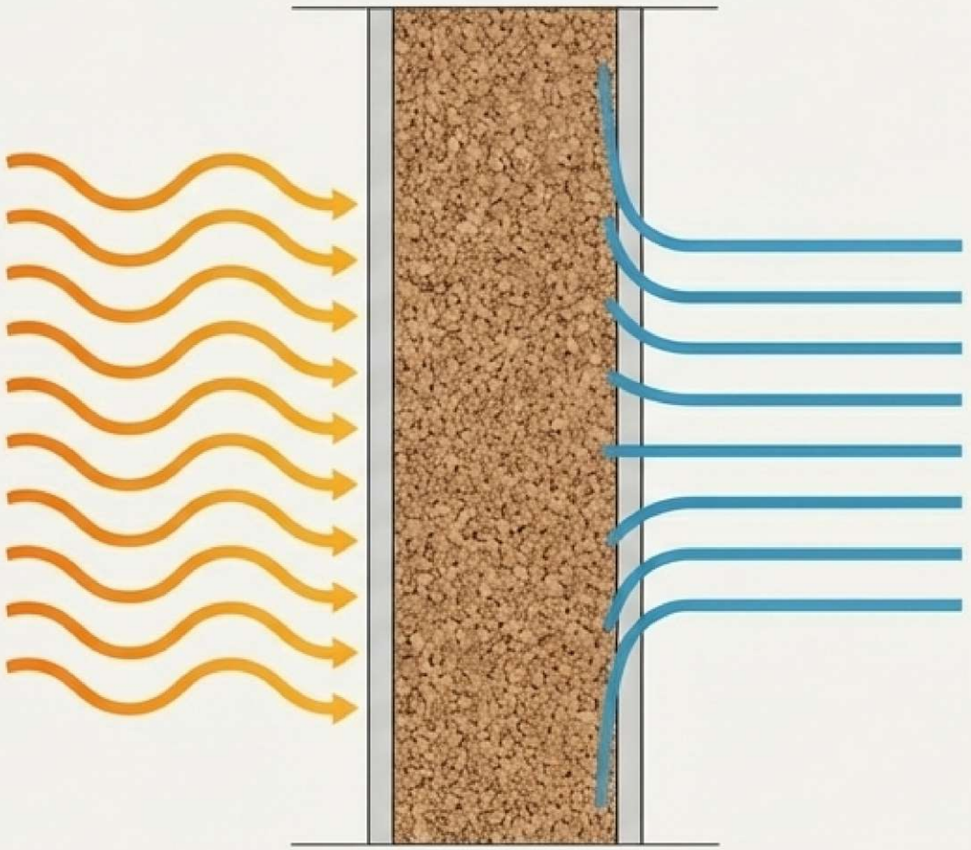
Fast & Clean Application: Minimizes dust and speeds up installation in renovations and new builds.

Uncompromising Thermal Performance.

$\lambda = 0.043$ W/m·K

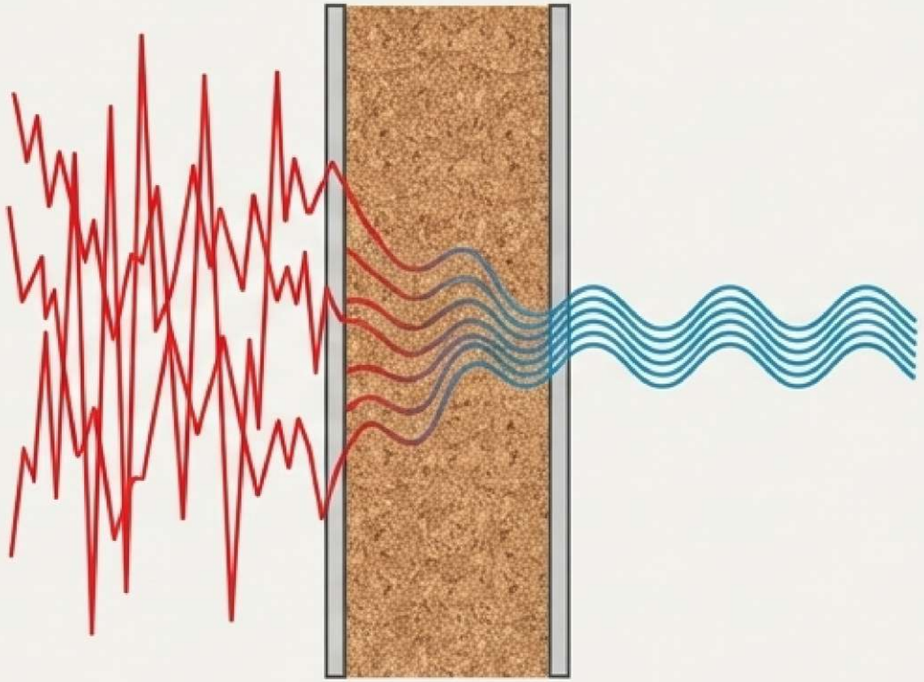
Certified according to EN 12667

This low thermal conductivity ensures a continuous insulation barrier, eliminating thermal bridges and drastically reducing energy consumption for heating and cooling.



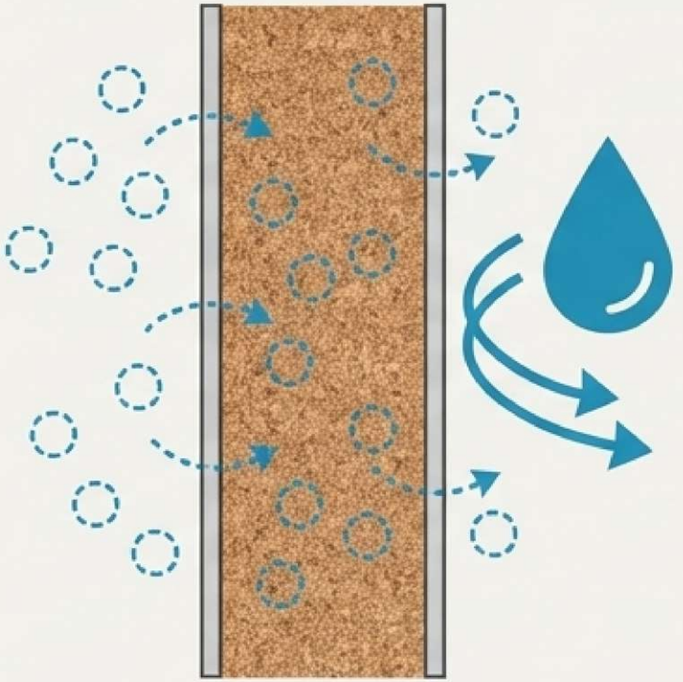
Creating Healthier, Quieter Interior Spaces

Proven Acoustic Control



Granulated cork effectively fills hollow chambers, significantly reducing noise transmission between rooms and improving acoustic privacy.

Advanced Moisture Management

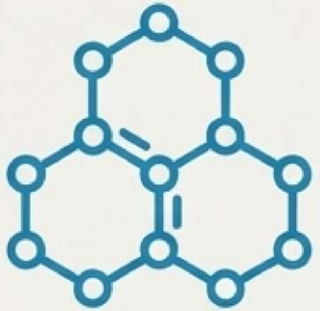


As a breathable and non-absorbent aggregate, Suberlev prevents condensation and dripping, directly combating the growth of mold, fungus, and mildew.

Engineered for Longevity and Stability

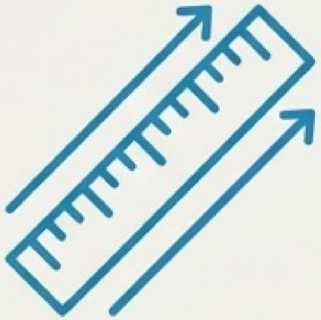
Rot-Proof

Inherently resistant to decay and degradation over time.



Chemically Inert

Does not react with other building materials.



High Dimensional Stability

Does not contract or expand (<0.5%), ensuring a permanent, gap-free fill.

Insect and Rodent Resistant

Unalterable by common pests.

A ‘fit and forget’ solution that maintains its integrity for the life of the structure.

Technical Data Sheet

Appearance: **Granular**

Grain Size: **2.00 – 4.00 mm**

Density: **65 kg/m³**

Thermal Conductivity (EN 12667): **0.043 W/m·K**

Water Absorption by Volume: **0.17 kg/m²**

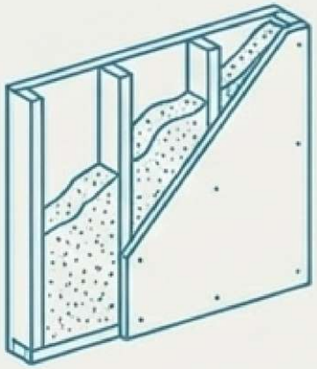
Fire Resistance: **Euroclase E**

Fire Performance: **Flame retardant, starts to burn at 121.11°C (250°F). Does not produce toxic gases.**

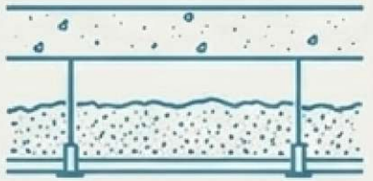
Certifications: **CE 1130-cpd-1501/08, CE 1130-cpd-1501/08, ISO 354:2023**

All data is presented clearly and concisely, reinforcing the product's tested and verified performance.

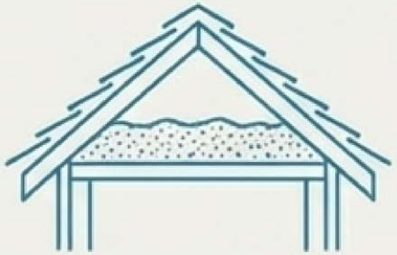
Ideal Applications for New Construction and Renovation.



Filling hollow chambers in partitions for thermal and acoustic separation.



Insulating false ceilings to reduce noise and energy loss between floors.



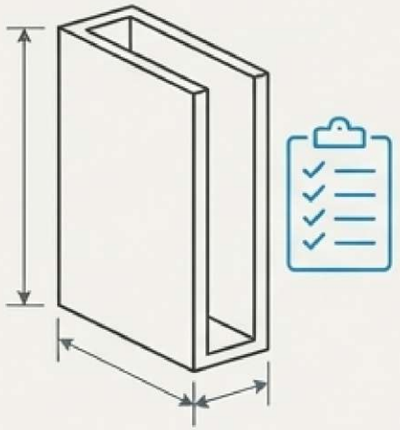
Preventing condensation and **heat loss** in roof and attic spaces.

Production of lightweight thermal and **acoustic** insulation mortars.

The ideal solution for energy rehabilitation projects, especially those with existing mold or condensation problems.

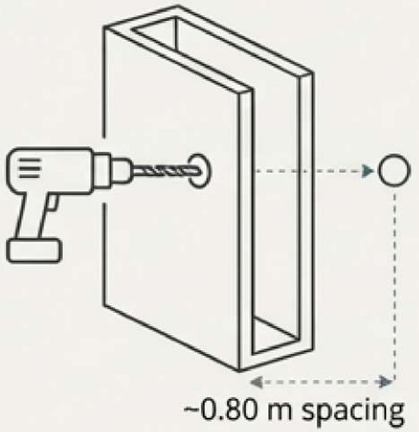
The Application Process: Efficient, Clean, and Precise.

1 Inspect & Measure



Pre-inspection of the cavity and calculation of the required volume.

2 Drill

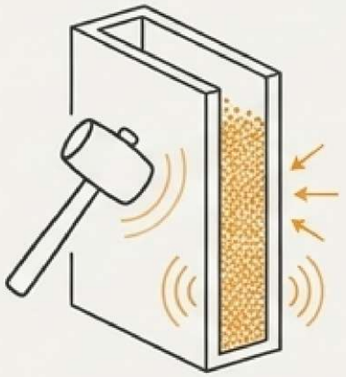


Drilling of precisely spaced holes (~0.80 m apart) for the injection nozzle.

3 Inject

Blowing the granulated cork into the cavity, starting from the lowest point and working upwards. Use of a sponge plug minimizes dust.

4 Compact



Lightly tapping the wall with a rubber mallet to ensure the material settles and compacts.

5 Seal

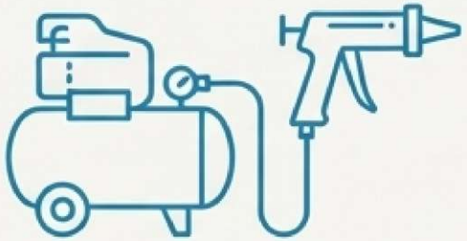
Filling and finishing the drilled holes with putty or appropriate materials.

Planning, Equipment, and Best Practices

Project Planning

- Determine the cavity volume (in liters) to calculate the required product.

Crucial Tip: Add 10-15% extra material to compensate for natural compaction within voids.



Required Equipment

- Air compressor (min. 200 L/min flow).
- SUBERLEV injection gun (gravity-type with hopper recommended) or industrial injection machine.

Handling & Storage

- Wear masks and gloves during application.
- Store in original, sealed 250 L bags in a cool, dry place.
- Shelf life: up to 1 year from date of manufacture.

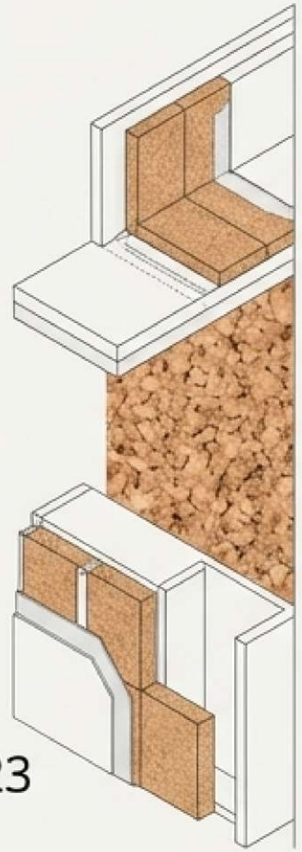
A Commitment to Certified Quality and Professional Application.

Certified Performance

CE 1130-cpd-1501/08

Thermal Conductivity
Standard: EN 12667

Acoustic Absorption
Certificate: ISO 354:2023



Professional Assurance

> To ensure optimal performance and adherence to best practices, SUBERLEV products must be applied by applicators approved by the manufacturer.

Help Us Help You

Innovation in Protection.

The information provided is based on extensive practical experience and laboratory testing.
We recommend practical tests to ensure compatibility for each specific application.

Falconstema

2bis, Rue de Violettes,
98000 Monaco

info@falconstema.mc

+377 99 90 56 35