Transform your project with Suberlev from Falconstema, an innovation in thermal and acoustic insulation.

NATURAL CORK AGGLOMERATE - S.A.T.E. Boards

Technical sheet

DESCRIPTION

An innovative thermal insulation system produced by expanding cork granules with steam, without involving any synthetic agents in its manufacturing process.

APPLICATION

Recommended for:

- Thermal and acoustic insulation of walls
- Thermal and acoustic insulation of façades
- Thermal and acoustic insulation of roofs (flat or sloped)
- Thermal insulation of cold rooms/refrigeration chambers
- Vibration insulation.

PROPERTIES

- Breathable
- Suitable for walking on (with rigid finishes)
- Lightweight and easy to cut
- Excellent thermal insulation
- Excellent acoustic insulation

SURFACES

- Concrete, cement, plaster, plasterboard, fiber cement, wood, galvanized steel, mortar, ceramic brick, natural stone, corrugated sheet, expanded polystyrene (EPS), extruded polystyrene (XPS), one-coat mortar, PVC…

SURFACE PREPARATION

- The surface must be perfectly clean, free of dust, mold, grease, paint residues, and must be completely dry.
- Avoid using high-pressure water mixed with chemicals, as internal moisture problems may arise, hindering installation.
- Ensure there is no moisture on the substrate by allowing sufficient drying time for all areas to be treated.
- Repair damaged areas (cracks, unevenness, etc.) using Thermal Mastic.

INSTRUCTIONS

- **Apply Thermal Mastic :** Spread Thermal Mastic with a notched trowel at approximately 1.2 kg/m² per cm thickness to ensure proper board adhesion.
- **Position the Boards :** Install the boards from the bottom up, staggering the joints.
- **Fix the Boards :**
    - Secure the boards with fixing anchors.
    - Seal the board joints and fill any irregularities caused by the anchors using Thermal Mastic.
- **Apply Additional Coats :** Depending on the desired finish, apply 1 or 2 more layers of Thermal Mastic to even out the surface and increase strength.
- **Final Finish :** Once the Mastic is dry, apply the chosen finishing material.

SALES FORMAT

- Boards measuring 500 × 1000 mm.
- The number of boards per pack varies by thickness; please consult the manufacturer for details.

STORAGE

Store the material in a **cool**, dry place.

SPECIFICATIONS / TECHNICAL DATA SHEET

STANDARD

- **Appearance and colour:** Rigid plate colour natural cork
- **Dimensions:** 500 x 1000 mm
- **Thicknesses:** 30 / 40 / 50 / 60 / 70 / 80 mm
- **Density:** 1,1 ± 0.05 g/cm³
- **Composition:** 100% natural cork
- **Operating temperature:** 180 °C to 140 °C
- **Thermal conductivity:** 0,04 W/m.K - Standard: EN 12667
- **Thermal resistance:** Standard: EN 12667

Thermal conductivity: EN 12667
Thermal resistance: EN 12667
Flexural strength: DIN EN 826 [2]
Compression behaviour: DIN EN 826 [2]
Point compression: DIN 52274
Dimensional stability: DIN 18165-1 [1]
Fire resistance: UNE EN 13501 -1
CE marking: En 13170

e = 20 mm – 0,50 m² K/W
e = 40 mm – 1,00 m² K/W
e = 60 mm – 1,50 m² K/W
e = 80 mm – 2,00 m² K/W

- **Specific thermal capacity:** 1852 J/(kg.K)
- **Noise reduction index:** Rw = 53 dB (11 cm double sheet + 4 cm plate)
- **Bending strength:** ≥104 kPa – Standard: DIN EN 826 [2]
- **Compression behaviour:** 30 kg/cm² - Standard: DIN EN 826 [2]
- **Point compression:** 0,056 – 0,047 N/mm² - Standard: DIN 52274
- **Breaking stress:** 1,4 – 2,0 kg/cm²
- **Dimensional stability:** 14,4% - Standard: DIN 18165-1 [1]
- **Water vapour resistance:** 5 – 10 μ
- **Moisture behaviour:** High humidity regulation capacity
- **Fire resistance:** Euroclass E (does not emit toxic fumes) – Standard: UNE EN 13501 -1
- **Delay time (in hours / 20 cm):** 13 hours (value related to thermal inertia)
- **CE marking:** Obtained - Standard: EN 13170

PRECAUTION

- Keep out of reach of children.

NOTE

SUBERLEV products must be applied by applicators approved by the manufacturer.

The above information is based on our practical experience and laboratory tests. Given the wide variety of construction materials available and the many application methods beyond our control. It is essential to carry out sufficient practical tests and verifications in each case to ensure the compatibility of the product with each specific application.

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