

SoKoVerd.LV

Fine-grained, super compact light natural cork panel

Fine-grained,
super compact light
natural cork panels
made of agglomerate
of pre-boiled pure light
cork, normalized in its
fibro cellular structure.

PRODOTTO ITALIANO
MADE IN ITALY



BioEdilizia

Use and application

Due to its excellent features, it is particularly suitable for eco-friendly buildings with reduced environmental impact and low energy consumption.

The most appreciated features are: low thermal conductivity, high transpiration, high mass, high elasticity, very low thermal diffusion, high acoustic absorption, high humidity resistance. The SoKoVerd.LV cork panels are used, with dry laying or by means of PraKov adhesive, for thermal, hygrometric and acoustic insulation of:

- Pitch and plane coverings
- Garrets
- Intermediate floors
- Ground-floors and non-heated spaces
- False ceilings in dry systems
- Counter walls in dry systems
- Cavities of outside walls
- Partitions
- Counter-caisson for reinforced concrete structures
- Inside walls and ceilings with BioVerd covering system for indoor
- Walls with BioVerd covering system for outdoor, ETA certified and CE marking

Item specification

... Ecological and transpiring insulating layer composed of super compact, fine-grained, light natural cork panels, SoKoVerd.LV, thickness ... cm of selected quality ...

Bio-compatibility

The SoKoVerd.LV has no negative effects on the healthiness and transpiration of inside spaces because it is totally composed of natural cork. Thanks to its nature, it doesn't cause allergies and doesn't produce irritating dust during the processing step and the laying. The SoKoVerd.LV is comparable, for its nature, to a wooden element.

VOC Emission: A + (French Decree 2011-321)

Emissive qualities were tested in a voluntary way through methods that allow to determine the presence of any volatile compounds emitted by the product in its operating conditions. These tests were performed by means of DHS spectrophotometric analysis on the 89 substances indicated in the EPA list (Environmental Protection Agency) 8260 C 2006, by obtaining a very positive result and values under the instrumental recording limit.

Eco-compatibility

SoKoVerd.LV panels are obtained by grinding cork barks.

The barks picking doesn't require tree felling. Barks grow back naturally, without chemical fertilizers and a new picking is possible after only ten years. Therefore the cork is a renewable and inexhaustible resource. The picking process is manually done, with just a minimum use of machinery. Production and transport require a low energy consumption because of the lightness of the product. Production wastes (dust, etc.) are burned to produce thermal energy, used for the same production or in agriculture. Processing wastes are completely reusable.

*Information sur le niveau d'émission de substances volatiles dans l'air intérieur, présentant un risque de toxicité par inhalation, sur une échelle de classe allant de a+ (très faibles émissions) à C (fortes émissions).



COVERD

**Applied technology
of natural cork
for acoustic and
bioclimatic insulation
Acoustics division
Energy division**

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CISQ



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Technical data sheet

Package: thermo-shirking package, size 100x50x30cm

Panels size: 100x50cm trimmed at 90°

Available thickness: 1-2-3-4-5-6-8-10cm (tolerances \pm 3mm)

Density: thickness 1cm = 220/250kg/mc; thickness 2-3-4-5-6-8-10cm = 150/160kg/mc

Thermal conductivity λ : W/m²K 0.042

Specific heat: KJ/Kg K 2.1

Vapour permeability: Kg/smPa (E-12) 17.5

Humidity content: 6%

Humidity resistance over the time (disaggregation): absent

Boiling water resistance for an hour (disaggregation): absent

Ultimate tensile strength by flexure

(thickness 30mm; width 75mm; support distances 145mm): N 101,01

Unitary ultimate tensile strength by traction (perpendicular to faces): MPa 0,2063

Unitary ultimate tensile strength by traction (parallel to faces): MPa 0,2476

Compression strength and return after 1 minute (deformation 50%): MPa 0,9310 recovery 91,91%

Compression strength (deformation 3%): MPa 0,1618

Linear dimensional change from wet to dry: 0,275%

Linear dimensional change from 60° to 23°: 0,20%

Dynamic rigidity thickness 3 cm: $s' = 23\text{MN/m}^3$

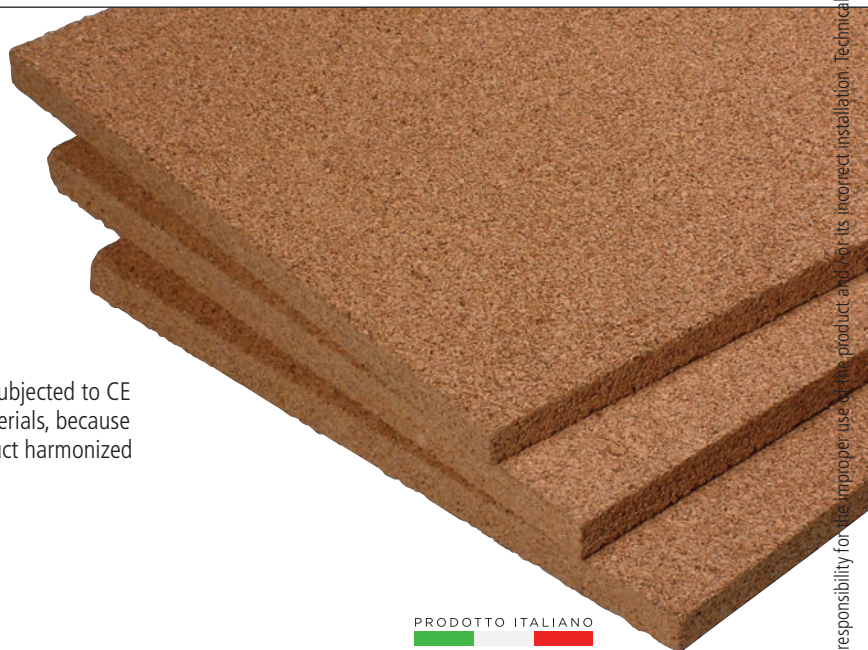
Fire resistance: Euro class E

Emission of Volatile Organic Compounds (VOC) – French decree: class A+

Emission of Volatile Organic Compounds (VOC) - DHS spectrophotometric analysis:
under the instrumental recording limit



Product used in the
BioVerd covering system
Biologically pure



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Certifications

The light natural cork is not subjected to CE marking for construction materials, because to this day there isn't a product harmonized technical rule.

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