

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

MADE IN ITALY

BioEdilizia



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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.AF 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

Item specification

- Cavities of outside walls
- Partitions
- Counter-caisson for reinforced concrete structures
- Inside walls and ceilings with covering system for indoor
- Walls with covering system for outdoor

..... Ecological and transpiring insulating layer composed of compact light natural cork panels, SoKoVerd.AF, thickness ... cm of selected quality ...

Bio-compatibility

The SoKoVerd.AF 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.AF 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.AF 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).



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Technical data sheet

DEDILIZ Package: thermo-shirking package, size 100x50x30cm Panels size: 100x50cm trimmed at 90° Available thickness: 1-2-3-4-5-6cm (tolerances ± 3mm) **Density:** thickness 1cm = 220/250kg/mc; thickness 2-3-4-5-6cm = 150/160kg/mc Thermal conductivity λ: W°/m K 0.044, according to UNI EN 12667:2002 standards Declared Thermal Conductivity λD (23,50): W/m°K 0.046, according to UNI EN 12667:2002 and UNI EN ISO 10456:2008 standards Specific heat: Ki/Kg K 2.1 Vapour permeability: Kg/smPa (E-12) 19.5 Humidity content: 6% Humidity resistance over the time (disaggregation): absent Ultimate tensile strength by flexure (thickness 20mm; width 75mm; support distances 100mm): N 40,099 Unitary ultimate tensile strength by traction (perpendicular to faces): MPa 0,1699 Unitary ultimate tensile strength by traction (parallel to faces): MPa 0,1770 Compression strength and return after 1 minute (deformation 50%): MPa 0,9179 rec. 92,17% Compression strength (deformation 1%): MPa 0,1608 Linear dimensional change from wet to dry: 0,225% Linear dimensional change from 60° to 23°: 0,06% **Dynamic rigidity thickness 3 cm:** $s' = 23MN/m^3$ 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

Biologically pure

Certifications Voluntary CE Marking:

technical department.

ITAB/ITC-CNR is recognized by the European Commission as a Technical Assessment Body (TAB) designated by the Italian Competent Authorities, in accordance with Article 29 of the European Construction Products Regulation No. 305/2011, for issuing the European Technical Assessment (ETA), reference no. 23/0819 dated 12/12/2023, based on EAD 041389-00-1201.

This technical data sheet replaces and cancels all previous versions (if in doubt please check the code of the form showing the revision date and, possibly, visit our website www.coverd.it in the dedicated section). Indications and regulations above described, are based on our current technical and scientific knowledge, which, in any case, are to be considered merely indicative, as

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