

MOLPAV

TECHNICAL SHEET

Insulating cork boards made from pressed natural aerated cork granules, extremely compact and elastic. Fit for underfloors, internal walls, acoustic insulation.

Density	250/280 Kg/m ³
Thermal conductivity	W/mK 0,045
Compressive strength	18 Kg/cm ²
Impact (footstep) noise reduction	(10mm) 14dB
Life	Unlimited
Sheets size	100x50 cm
Thickness	From 1 to 10 mm
(higher thickness on demand)	



ROLLCORK

TECHNICAL SHEET

High density agglomerated cork in rolls. The cork granules are very thin and aerated, without impurities and crusts. The final product is elastic, supercompressed, with homogeneous surface.

Density	250 Kg/m ³
Impact (footstep) noise reduction	(1000HZ) 55 dB
Compressive strenght	15 Kg /cm ²
Gases or water permeability	0
Insects and rodents attacks	0
Level of rot	0
Sizes	cm 2000x100
Thickness	3 mm



MOLSUBER

TECHNICAL SHEET

Natural cork granules ground from the cork oak bark, ideal for thermal and acoustic insulation, lightening and filling of the hollow spaces and of the floor, foundation on floors and on gradient roofs, walking-on roofs. Pugged with cement is particularly recommended as insulating concrete ("floating" floor).

Particle size	2/3/4 mm and 4/14 mm
Specific weight	± 90/100 Kg /m ³
Heat conduction coefficient	0,038 Kcal/m ² h°C



Packaging : bags (± 0,125/cb) on palletts.
It does not present any loss of yield owing to the mixing.

SUBERIT / SUBERIT WITH JOINTS

TECHNICAL SHEET

Suberit insulating cork board : natural , ecological, without formaldehyde, environmentally friendly, ideal for every kind of thermal-acoustic insulation.

DENSITY	150 Kg/m ³ (from 1 Cm 190Kg/m ³)
THERMAL CONDUCTIVITY	0,035 Kcal/m ² H° C o 0,041 W/mK
THERMAL RESISTANCE (Suberit 3 cm)	Rd 0,73 m ² k/W
STEAM TRANSPIRABILITY	μ :10 : 13
WALL PHONO-INSULATING POWER	Rw 58 db
30/09/2003 (Suberit 3 cm EXTERNAL WALLS)	
Istituto Giordano:	
Iso 140 del 1995 e Iso 717 del 1996	
WALL PHONO-INSULATING POWER	Rw 52 db
18/04/2005 (Suberit 4 cm pareti divisorie)	
Istituto Giordano:	
Uni En Iso 140 del 1997 e Uni En Iso 717-1 del 1996	
ACOUSTIC ABSORPTION (Suberit 3 cm)	α: 0.73 (Tra 800/5000 HZ) 73%
Csi: Iso R 354	
APPARENT VOLUMIC MASS	Min. 163 max 176 Kg/m ²
COMPRESSIVE STRENGTH	12, 95 Kg/cm ² o 1270 Kpa
(50 % Deformation)	
Sperimentale del sughero: sgq 04/2003-00	
COMPRESSIVE STRENGTH	0, 88 Kg/cm ² o 87 Kpa
(at 1 mm of deformation)	
Sperimentale del sughero: sgq 04/2003-00	
RESISTANCE TO BOILING WATER	cork board disaggregation: Absent
Sperimentale del sughero: sgq 04/2003-00	
BENDING RESISTANCE	3,42 Kg/cm ² o 330 Kpa
Sperimentale del sughero: sgq 04/2003-00	
RESISTANCE TO TRACTION PARALLEL TO THE SIDES	3 Kg/cm ² o 270 Kpa
Sperimentale del sughero: sgq 04/2003-00	
FIRE RESISTANCE CLASS	CLASS 2 (auto estinguish)
Istituto Giordano	
CLASS OF FIRE REACTION (ON DEMAND)	CLASS 1
Istituto Giordano	
REACTION TO FIRE	CATEGORY I
(small flame only on a side)	
Sperimentale del sughero	
DIMENSIONAL VARIATIONS	A 23 °: % 0,1 ---- a 60 ° % 0,5
Sperimentale del sughero: sgq 04/2003-00	
DIMENSIONAL VARIATIONS	A 60 °: % 0,2 ---- a 40 ° % 0,2
(treatment in oven for per 12 days)	
Sperimentale del sughero: sgq 04/2003-00	
ELECTRICALLY NEUTRE	it doesn't conduct electrical energy
TOXICITY 'EMISSIONS OF DANGEROUS SUBSTANCES	no known effects
Life	unlimited
INSECTS AND RODENTS ATTACKS	0

CORK BOARDS SIZES: 100 x 50 cm

Thickness	m ² per pack	thickness	m ² per pack
cm 1	12	cm 5	3
cm 2	7,5	cm 6	2,5
cm 3	5	cm 8	2
cm 4	4	cm 10	1,5

PACKED IN THERMORETRACTABLE

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NATURAL CORK BOARDS



NATURE CORK TECHNOLOGY



The best efficacious solution to insulate the walls is the external covering. An insulating board has to be applied on the external walls with a reinforcement and covered with plaster. We recommend to use Suberit , a material with high mechanical and thermal properties , in order to guarantee:

- a) Long-lasting life and high energetic performances thank to the correction of thermal bridge.
- b) Reduction of condensation and humidity to insulate without discontinuity from cold and hot.
- c) Protection of the façades from atmospheric agents.
- d) Comfortable,healthy,environmentally friendly.

The insulating cork board offers really elevated thermal performances, thanks to its permeability to the steam, to its high density (150/160 Kg/cm), its remarkable resistance to the traction and to the compression. Buildings need "to breathe": if the humidity remains inside, the consequence will be steam and condensation. The cork, with its unlimited life, allows to insulate the building in a natural way. The insulating cork boards are not attacked by insects and rodents.



The cork factory Peppino Molinas is one of the most important cork factories in the world. Since many years it strictly checks every step of the production, using the best technologies in order to guarantee a more and more high quality standard. The insulation cork boards manufactured by Molinas have a high thermal-acoustic insulating performance; ecological, natural and without formaldehyde, wholly healthy (we know that insulation cork boards made with syntetic glues ,owing to high sudden changes in temperature may release toxic substances, so that their use is not fit for the insulation of the internal walls, as per decree n° 288 dated 10/12/2008 concerning the aldehyde transfers from insulation cork boards used for daily inhabited rooms).



SUBERIT

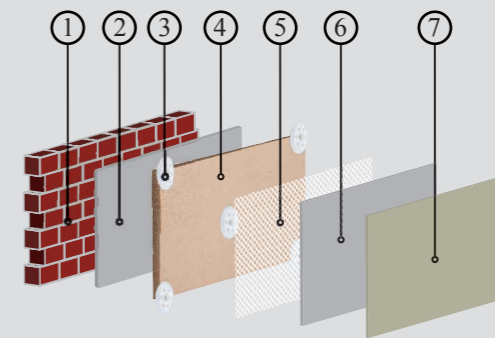
Highly transpirant and water proof material, it allows to the buildings to "breathe" it doesn't spread the flame, and, also burning, it doesn't emit toxic substances.

How to set it:

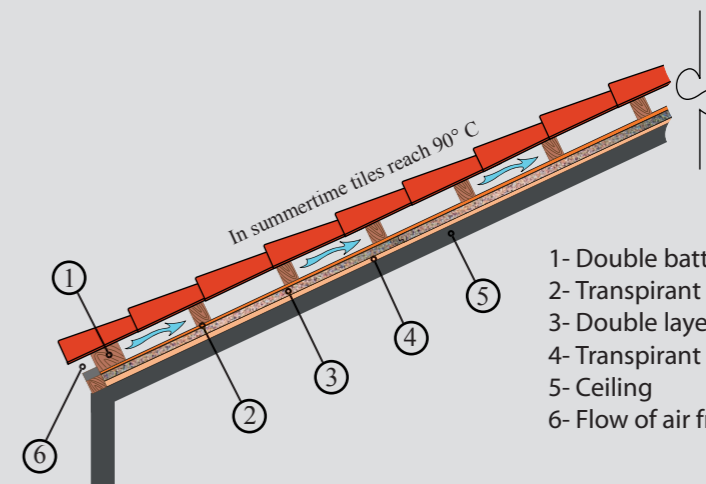
Clean the surface to insulate; spread the glue with a large toothed spatula (picture 1) on the whole surface of the cork board that has to be glued on the wall, starting with horizontal stripes from the bottom upwards at staggered joints (picture 2), close to each other, plugged at the angles. Once plastered the joints, make a first light trimming of strenghtening. 24 hours later, put a fiber welded wire mesh and plunge it using the same glue. Once dried (min 56 hours) it can be finished by a plaster's layer (no more than 3 mm).



THE MOST NATURAL INSULATING SYSTEM



- 1- Finishing (traspirant)
- 2- Cement smoothing
- 3- Welded wire mesh (with high resistance to the traction)
- 4- SUBERIT cork board
- 5- Cement smoothing
- 6- Walling
- 7- Wall anchor



- 1- Double batten on which tiles are set
- 2- Transpirant sheath
- 3- Double layer of SUBERIT cork board
- 4- Transpirant grease-proof paper
- 5- Ceiling
- 6- Flow of air from the opening in eaves

The roof covering has a basic role to avoid the loss of heat; it must freely breath, with a perfect hygroscopic equilibrium, and, to do this, condensation and steam have to come out through transpirant material as SUBERIT and of an aerated structure allowing to dissipate the hot air of the warm weather and to eliminate the condensation of the cold one.

CE mark: the natural cork "blonde coloured " is not under the obligation of the CE mark, because there are no reference rules to apply .