SUBERIT

CORK BOARD

IDEAL FOR EXTERNAL WALL COVERING

TECHNICAL REPORT

PRODUCT DESCRIPTION

Insulating cork board obtained from the grinding of the cork oak bark, to use in the building industry for thermal, acoustic and anti-vibration insulation.
The cork oak bark is an epidermic tissue that covers and protects the cork oak from thermal shocks, known and used already in ancient times as roofs covering. The cork is a material having excellent thermal and acoustic features, with remarkable steam transpirability, unassailable by moulds and pests.

GREEN BUILDING PARAMETERS

Natural product, environmentally friendly, without formaldehyde, harmless to human health, without solvents and without risks of radio emissive components, high thermal and acoustic insulation, atoxic, without harmful radiations.
The natural cork “blonde coloured” has not the obligation to be covered by CE mark, because actually there are no reference standards to apply.
Waterproof but steam permeable, high density and elasticity, it allows the board walkability, and, consequently, a considerable compression resistance.
In compliance with the environmental compatibility criteria, low combustion speed, electrically neutral.

PACKAGING

Shrink-wrapped, size 100x50x30
Boards thickness: ½/3/4/5/6/8/10, trimmed at 90°8 with or without step).

ITEM SPECIFICATIONS

Insulating layer made with natural blonde cork boards, fine cork grain, density 150/160 kg/m³, to put into the crawl spaces, ceilings, attics, suspended ceilings, internal and external coating.

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TECHNICAL FEATURES

DENSITY AND SPECIFIC WEIGHT	150 KG/m^3
THERMAL CONDUCTIVITY	0,041/0,045 W/mK
WATER VAPOUR DIFFUSION RESISTANCE	μ 10÷13
ACOUSTIC ABSORPTION	α 0,73 (73%)
RESISTANCE TO BOILING WATER	ABSENCE OF DISGREGATION
RESISTANCE TO COMPRESSION	12,95 KG/cm^2
BENDING RESISTANCE	3,42 KG/cm^2 O 330 kpa
CLASS OF REACTION TO FIRE	CLASS 2 SELF-EXTINGUISHING
DIMENSIONAL VARIATIONS	A 23° 0,1% - A 60° 0,5%
STABILITY OVER TIME	UNLIMITED
INSECTS ATTACK	ZERO
PUTRESCIBILITY	ZERO
SPECIFIC HEAT	1780 J/KGXK
WALL SOUNDPROOF CAPACITY (3cm)*	RW 58 db
WALL SOUNDPROOF CAPACITY (4cm)*	RW 52 db

GOOD WATER TIGHTNESS, GOOD RESISTANCE TO SULFURIC AND HYDROCHLORIC ACID, TO BENZENE AND OTHER.

* 3 cm external walls (Istituto Giordano ISO 140 del 1995 E ISO 717 del 1996)
* 4 cm separation walls (Istituto Giordano UNI EN ISO 140 del 1997 E UNI EN ISO 717-1 del 1996)

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HEAT TRANSFER COEFFICIENT OF VARIOUS BUILDING STRUCTURES WITH AND WITHOUT INSULATION

KIND OF STRUCTURE	THICKNESS PARTIAL CM	THICKNESS TOTAL CM	K1 STRUCTURE NON INSULATED	THICKNESS INSULATION SUBERIT MM	(Kcal/m2 h°C) STRUCTURE INSULATED	
PERIMETER WALLS				20	0,781	35.4 %
- solid bricks UNI 1606	12			30	0,665	44.6 %
- air chamber	> 5	> 29	1,20	40	0,579	51.8 %
- perforated bricks	8			50	0,513	57.3 %
- plasters	4			60	0,457	62.0 %
				20	0,636	38.3 %
- perforated bricks	12			30	0,557	45.9 %
- air chamber	> 5	> 29	1,03	40	0,495	51.9 %
- perforated bricks	8			50	0,446	57.7 %
- plasters	4			60	0,407	60.4 %
				20	0,843	37.6 %
- solid bricks UNI 1606	12			30	0,710	47.5 %
- air chamber	> 5	> 27	1,35	40	0,612	54.7 %
- perforated plasterboard	8			50	0,539	60.1 %
- plaster	2			60	0,481	64.3 %
PILOTIS-CEILING						
- reinforced brick ceiling	18,5			20	0,773	34.5 %
- screed + B.V				30	0,659	44.2 %
- plaster		> 30,5	1,18	40	0,574	51.4 %
- base	~ 12			50	0,509	56.9 %
- floor				60	0,455	61.4 %
INTERMEDIATE CEILING						
- reinforced brick ceiling	16,5			20	0,827	36.9 %
- screed + B.V				30	0,698	46.7 %
- plaster		> 26,5	1,31	40	0,603	54.0 %
- base	~ 10			50	0,532	59.4 %
- floor				60	0,475	63.7 %
PITCHED ROOF				20	0,902	40.3 %
- reinforced brick ceiling	18,5			30	0,751	50.3 %
- screed + B.V	> 6	> 24,5	1,51	40	0,643	57.4 %
- plaster				50	0,562	62.8 %
- tiles				60	0,483	68.0 %
FLAT ROOF						
- reinforced brick ceiling	18,5			20	0,827	36.9 %
- screed + B.V				30	0,698	46.7 %
- plaster		> 33,5	1,20	40	0,603	54.0 %
- gradients				50	0,532	59.4 %
- waterproofing	> 15			60	0,475	63.7 %
- flooring						
				20	1,025	45.8 %
PITCHED ROOF				30	0,834	55.9 %
- fir panels				40	0,703	62.8 %
- bitumen sheath	4÷5		1,89	50	0,607	67.9 %
- tiles				60	0,532	71,8 %

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SAFETY DATA SHEET

This product must be handled and used in accordance with the rules of hygiene and safety of good industrial practice and in compliance with current legislation. The information contained is based on current knowledge and is intended to describe the product from the point of view of safety requirements. Not to be considered as a guarantee of specific properties.

Legenda:
N.A.: not applicable
N.D.: not determined

Product and company identification
Commercial name: SUBERIT
Manufacturer: Peppino Molinas & figli S.p.a.

Composition/information on ingredients
Chemical feature:
vegetative tissue (mainly composed of suberin, lignin, cellulose); non-toxic resin.

Hazards identification
Exposure to inhalation or contact with skin and mucous membranes: N.A.
Hazard symbols: DOES NOT contain hazardous substances for handling.

First aid measures
General information:
NO particular immediate hazards are identified
Ingestion: N.A.
Eye contact: N.A.

Fire-fighting measures
Suitable means: CO2, foam
Special provisions for fire protection:
isolate the fire and exclude air
risks of fire and explosion:
keep away from open flames.

Measures in case of accidental spills:
N.A.

Handling and storage:
Storage: to store in accordance with the regulations on firefighting
Handling: no special precautions

Individual exposure control
Protection of the respiratory system: N.A.
Threshold Limit Value related to the workplace: N.A.

Chemical and physical properties
Physical state: solid
Appearance: compact solid
Colour: brown
Smell: -
Water solubility N.D.
Boiling point: N.A.
Solidification point: N.A.
Flash point: + 300°
Vapour pressure: N.A.
Vapour density: N.A.
Appar. density: 260 Kg mc tolerance +/-5%

Stability and reactivity
Thermal decomposition: sup. 300°
Dangerous reactions: none
Hazardous decomposition products:
thermal decomposition and combustion release water, carbon dioxide and
carbon monoxide.

Toxicological information
L.D.: N.D. No known effect. No carcinogenic effect has been detected on animals or on human beings.

Ecological information
NO environmental damages are known.

Disposal considerations:
product disposal: dispose according to local or domestic laws.

Transport information
The product is not classified into RID-ADR-ADNR-IMCO.

Information on standards
The product is submitted to specific provisions in order to protect environment and men.

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