

# FIBERCORK

*Cork panels for thermal and acoustic insulation*

Cork panels for thermal and acoustic insulation of buildings, composed by the expansion of the cork granules without using chemicals agents. Its physical and mechanical features do not change and its dimensions are stable in time. *Fibercork* is eco-friendly and composed by 100% natural and recyclable materials. It is an excellent thermal insulator, and also a highly sound-absorbing and vibration insulator material too. The macro-porous structure of cork allows the highest level of breathability and it can be used in green architecture and refurbishment.

## ADVANTAGES

- Easy and quick application;
- Excellent thermal and acoustic insulator;
- Sound-absorbing;
- Breathable;
- Highly elastic;
- Totally natural;
- Non-toxic;
- Obtained without adding chemical products;
- Eco-friendly;
- Recyclable;
- Excellent tightness and durability in time.

## APPLICATION FIELDS

This product is suitable for the thermal and acoustic insulation of:

- cavity walls;
- outdoor walls as insulation from the inside;
- outdoor walls with external insulation;
- flat or pitched roofs;
- sound-proofing of partition walls;
- insulation from vibrations.

*Fibercork* is a totally natural product and it is suitable wherever are needed eco-friendly materials, either in green building or refurbishment.

Its use is suitable where it is necessary a non-toxic and a non-dusty product.

## YIELD

1 panel 0,5 sqm.

## COLOUR

Dark brown.

## PACKAGING

Panels: 100 x 50 cm.

Thickness 90 mm.

Each pack contains 3 panels.

## STORAGE

Store the product in well ventilated areas, keep it away from sunlight, water and ice, with temperatures included between +5°C e +35°C.

## PREPARATION OF SUPPORT

- The support must be completely hardened, dry and resistant.
- The surface must be thoroughly clean, well consolidated, without debris or detaching parts.
- The support temperature must be between +5°C and +35°C.

## APPLICATION

*Fibercork Pan* is easy and quick to apply, with no special application requirements compared to the other panels.

1. Cut the panels in order to reach the needed size, using traditional saw for wood.
2. Mix Diasen Glue with the prearranged water quantity using a mixing drill.
3. Apply Diasen Glue on one side of the panel, realizing a border of about 5 cm and two or three piles on the center of the panel, with a width as big as the palm of a hand. The width of the border and the amount of glue must cover at least 40% of the contact surface of the panel.
4. Install the panels, pushing them to surface in order to ensure the perfect contact.
5. Panels must be installed keeping joints staggered.
6. If there are joints (such as between prefabricated panels) or cracks on the support, there must not be joints between the panels. Board end must be at least 10 cm away from structural joint/cracks.
7. To avoid the possible formation of cracks, the joints between the panels must not be placed in correspondence of the corners of doors, windows or other openings.
8. There can be used residual pieces (with a width of at least 15 cm) distributed on the surface not in correspondence of the outside edges of the building.
9. After bonding the panels, fix them with Diasen plugs. Use about 6 plugs each sqm. Increase the number of plugs on the border areas, up to 12 plugs each sqm.



## Thermal and acoustic insulation - Panels

Le indicazioni e le prescrizioni riportate, pur rappresentando la nostra migliore esperienza e conoscenza, sono da ritenersi indicative e dovranno essere confermate da esaurienti applicazioni pratiche. Pertanto, prima di utilizzare il prodotto, l'applicatore deve in ogni caso eseguire delle prove preliminari, atte a verificare la perfetta idoneità ai fini dell'impiego previsto. In caso di incertezze e dubbi contattare l'ufficio tecnico dell'azienda. La presente scheda annulla e sostituisce ogni altra precedente.

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## Technical Data

Features		Units
Yield	1 panel = 0,5	sqm
Aspect	Panels	-
Colour	Dark Brown	-
Thickness of application	10 - 100	mm
Density	105 - 130	kg/m <sup>3</sup>
Drying time	It does not need to get dry	-
Temperature of application	+5 /+35	°C
Packaging	Panels: 100 x 50 cm.	cm

Final performances		Units	Regulations	Results
Thermal conductivity	$\lambda = 0,040$	W/mK	UNI EN 12667	-
Thermal diffusivity	$1,4 - 1,9 \cdot 10^{-7}$	sqm/s	UNI TS 11300-1	-
Sound-absorbance at 500 Hz	0,33	-	ISO 354	-
Traction resistance	1,4 - 2,0	kg/sqm	-	-
Fire reaction	Euroclasse E	-	UNI EN 13501-1	-

## Thermal Performances

Thickness (mm)	Thermal Resistance R (sqmK/W)	Thermal Transmittance U (W/sqmK)
10	0,250	4,000
20	0,500	2,000
25	0,650	1,600
30	0,750	1,333
40	1,000	1,000
50	1,250	0,800
60	1,500	0,667
70	1,750	0,571
80	2,000	0,500
90	2,250	0,444
100	2,500	0,400

\* The above data, even if carried out according to regulated tests are indicative and they may be change when specific site conditions vary.

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Packaging			
Thickness (mm)	Boards p/pack	m <sup>2</sup> p/pack	m <sup>3</sup> p/pack
10	30	15	0,150
20	15	7,5	0,150
25	12	6	0,150
30	10	5	0,150
40	8	4	0,160
50	6	3	0,150
60	5	2,5	0,150
70	4	2	0,140
80	4	2	0,160
90	3	1,5	0,135
100	3	1,5	0,150

## SUGGESTIONS

- Do not apply with imminent threat of rainwater or ice, with strong fog or with relative humidity level higher than 70%.
- It does not require any particular attention while handling.
- Its use is clean without the development of dust.
- Non-toxic and not-allergic product, obtained without adding chemical components and glue.

## CLEANING

Wash tools with water.

## SAFETY

For the handling, see product safety data sheet.

Thermal and acoustic insulation - Panels

