Cork Panels

Eco-panels made with thermal insulationg
blonde cork, suitable for wet environments

Beton Wood

Environmentally-friendly insulation system made with natural cork panels

| AREAS OF APPLICATION

Cork panel is an insulating panel made with blonde cork characterized by excellent values of thermal insulation and traspirability.

These properties reduce the moisture and humidity formation more than other traditional product; another smart characteristic of cork panels is to ensure an excellent soundproofing, making it an ideal product for the construction of impact sound floors of the inter-floor slabs, thanks also to its high compressive strength.

The insulating characteristics of cork are guaranteed with a thickness of the panel contents, making Cork panel the ideal product for the building redevelopment.

Cork panels are ideal for thermo-acoustic insulation that requires reduced thickness and is also suitable for use in the presence of moisture.
Specifically it can be used as:

- acoustic impact sound insulation;
- dry substrates;
- insulation for floors counter-earth, even with a strong presence of moisture;
- thermal coating system both external and internal, particularly advantageous when used as an inner coat, since it prevents the formation of mold or condensation and allows to obtain excellent thermal insulation values with reduced thickness, limiting the reduction of the usable floor area to the minimum;
- insulating curved surfaces because the panels of reduced thickness are flexible;
- correction of thermal bridges on beams and columns in c.a.

The installation is strictly linked to the type of use of the panel depending on which it will be appropriate to adopt the most suitable application method.

For more informations about the uses and the installation,
our offices are ready to answer your questions on www.pannellisughero.com

| AVAILABLE PRODUCTS Corkpanels

Thicknesses

Product type	3	6	10	20	30	40	50	60	80	100
Super-compressed cork rolls 1x20mtl	•									
Blonde cork panels 1 x 0,50 m	•	•	•	•	•	•	•	•	•	•

Granulometry	Bags of granulated cork - 8 bags per m^3
	3/12 mm
	3/5 mm

| SPECIFICATION

The panel is made of compressed natural blond cork.
The material is characterized by the following thermodynamic characteristics: density 150 ÷ 160 kg/m^2, coefficient of thermal conductivity λ=0,041 W/mK, specific heat c=1674 J/kg K, coefficient of resistance to vapor penetration μ=10 ÷ 13 and fire resistant class 2, according to Circ. Min. Interno 14/09/1961, n. 91.
The size of panels are .... mm and a thickness of ..... mm.

| CERTIFICATIONS

Cork panels meets the requirements established for the release of the Certificate of Conformity to the criteria of Environmental Compatibility (CCA).

| STORAGE / TRANSPORT Corkpanels

sharp edges

Thickness	Size	Weight/panel(kg)	Panels/Pallet	m^2/Pallet	kg/Pallet
3 mm	1000x500 mm	0,33	732	366	approx.241,50
6 mm	1000x500 mm	0,67	366	183	approx.245,20
10 mm	1000x500 mm	1,12	220	110	approx.205,00
20 mm	1000x500 mm	1,60	90	45	approx.144,00
30 mm	1000x500 mm	2,32	60	30	approx.139,20
40 mm	1000x500 mm	3,10	44	22	approx.136,40
50 mm	1000x500 mm	3,87	36	18	approx.139,32
60 mm	1000x500 mm	4,65	30	15	approx.139,50
80 mm	1000x500 mm	6,20	24	12	approx.148,80
100 mm	1000x500 mm	13,20	18	9	approx.237,60

Information on storage and transport:

- stack horizontally and dry;
- pay particular attention to the edges of the panels;
- remove the pallet packing only when it is on a flat, stable and dry surface.

| TECHNICAL CHARACTERISTICS Corkpanels

sharp edges

Fire class according to EN 13501-1	class 2 self-extinguishing
Declared thermal conductivity λ_DW/(m*K)	0,041
Density kg/m^3	150 ÷ 160
Water vapour diffusion resistance factor μ	10 ÷ 13
Specific heat capacity c J/(kg*K)	1.674
Compression strength at 1mm deformation σ (kg/cm^2)	0,88
Flexural strength (kg/cm^2)	3,42
Compression strength at 50% deformation σ (kg/cm^2)	12,95
Tensile strength parallel to faces (kg/cm^2)	3
Soundproofing power 3cm external walls (dB)	58
Soundproofing power 4cm external walls (dB)	52
Sound absorption Between 800/5000 Hz - th.3 cm	0,73

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