

ISOVIT PAINEL ICB

THERMAL AND ACOUSTIC INSULATION PANEL OF EXPANDED CORK AGGLOMERATE

1. DESCRIPTION

ISOVIT PAINEL ICB is a compact panel of black expanded cork agglomerate (ICB – Insulation Cork Board), thermal and acoustic insulator, imputrescible, dimensionally stable and unalterable over time, 100% environmentally friendly and recyclable, from a renewable raw material, seeing that extraction of the cork oak bark is part of its life cycle.

In its manufacture only cork granules are used, which, when subjected to a thermal process, release a resin, suberin, which acts as a natural binder.

ISOVIT PAINEL ICB is available in 20 mm to 100 mm thicknesses (other thicknesses are available on request).

2. FIELD OF USE

ISOVIT PAINEL ICB is used as thermo-acoustic insulation in the *ISOVIT CORK* (ETICS) external thermal insulation composite system, correcting linear thermal bridges and reducing their thermal transmission, thereby improving the energy efficiency of the building where it is set up, as well as the acoustic comfort of houses by increasing insulation to the outside noise (air sounds).

3. PRODUCT CHARACTERISTICS

Technical Characteristics	Value	Standard
Length	1000 ± 5 mm (Class L2)	NP EN 822
Width	500 ± 3 mm (Class W2)	NP EN 822
Thickness	(20 to 50 mm) ± 1 mm (Class T1) (55 to 160 mm) ± 2 mm (Class T2)	NP EN 823
Squareness	≤ 2 mm	NP EN 824
Flatness	≤ 2 mm	NP EN 825
Apparent density	≤ 130 kg/m ³	NP EN 1602
Thermal Conductivity Coefficient	≤ 0,04 W/m.K	EN 12667
Dynamic Rigidity (per 50 mm thickness)	≤ 126 MN/m ³ (Class SD126)	EN 29052-1
Flexural Strength	≥ 130 kPa	NP EN 12089
Compressive Strength (10 % deformation)	≥ 100 kPa (Class CS(10)100)	NP EN 826
Tensile strength perpendicular to the sides	≥ 50 kPa (Class TR50)	NP EN 1607

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Water Content	≤ 8 %	EN 12105
Water Absorption	≤ 0,5 kg/m ² (Class WS)	NP EN 1609
Reaction to fire	Euroclass E	NP ISO 11925-1

5. PACKAGING

- 7,5 m² - 20 mm thickness
- 5,0 m² - 30 mm thickness
- 4,0 m² - 40 mm thickness
- 3,0 m² - 50 mm thickness
- 2,5 m² - 60 mm thickness
- 2,0 m² - 70 mm thickness
- 2,0 m² - 80 mm thickness
- 1,5 m² - 90 mm thickness
- 1,5 m² - 100 mm thickness

Storage

ISOVIT PAINEL should be stored in a dry place, protected from sunlight exposure and placed horizontally on a totally flat surface so as not to cause twists on the panels.

6. HEALTH AND SAFETY

- Handling of this product does not require special care.

Being the conditions of applying our products out of our reach we do not take responsibility for its misuse. It is the customer's duty to verify the suitability of the product for the intended purpose. In any case, our responsibility is limited to the value of the goods supplied by us. The information contained in the present data sheet may be altered without prior notice. In case of doubt and if you need any further advice please contact our Technical Services.

Revision of March 2019
FT 13016.01 EN