



ECOiso® SPL
SOUNDPROOFING LAYER



Different thickness models of SPL (on the left) and SPL applied (ambient image).

DESCRIPTION

It is definitely the oldest and noblest raw material used for Acoustic and Thermal Insulation. Cork, a 100% natural product, is par excellence the best material for soundproofing.

This agglomerate is made of selected raw material originating from self-sustainable cork-oak stands, which are more than 100 years old, in the Portuguese territory. The process to manufacture the agglomerate only uses cork and steam, no other additives. The density is controlled at 120kg/m³ - (264.55 lbs/ft³).

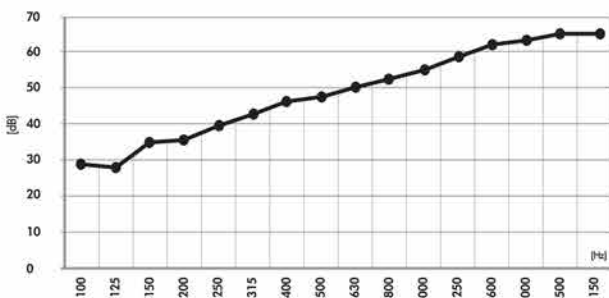
It comes in 1000 x 500mm plates (39.4"x19.7") and its thickness varies between 20 and 100mm (0.8"x3.9"). It may be placed on the inner layers of walls, ceilings or floors or may be placed on the outer layer as a final finishing.

This material is simply beautiful, exotic and very attractive and it may certainly make the difference in your space. Control noise like never before!

FEATURES

- 100% Cork and Natural Material
- Density: 120Kg / m³ - (264.55 lbs/ ft³).
- Fire-resistance: single product Euroclass E (similar to old M4) and ETICS system Euroclass B-s1,d0 (similar to old M1).
- Unlimited durability and excellent Thermal Properties.
- Excellent anti-vibration properties.
- Applicable on ceilings, floors and walls.
- Applicable as coating or as insulation material.
- Plate sizes: 1000x500mm (39.4"x19.7"); thickness, 10/20/40/60/80/100mm (0.4"/0.8"/1.6"/2.4"/3.1"/3.9").

SOUND INSULATION INDEX (dB/Hz)



● 13mm plaster + 110mm ceramic brick + 13mm plaster + ECOiso® SPL® 60mm
0.5" plaster + 4.3" ceramic brick + 0.5" plaster + ECOiso® SPL® 60mm (2.4")

INSULATION AND THERMAL RESISTANCE VALUES

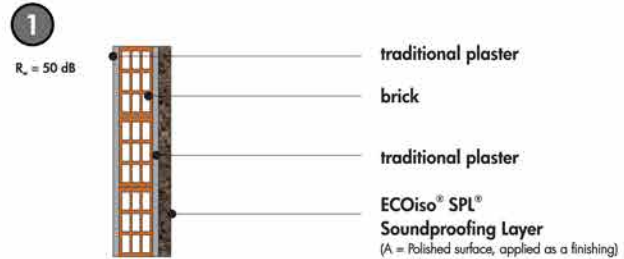
Thickness	INSULATION VALUES R_w (dB)	THERMAL RESISTANCE R_t (m ² ·°C/W)
20mm ECOiso® SPL®	$R_w = 39$ dB	0,50
40mm ECOiso® SPL®	$R_w = 44$ dB	1,00
60mm ECOiso® SPL®	$R_w = 50$ dB	1,50
80mm ECOiso® SPL®	$R_w = 52$ dB	2,00
100mm ECOiso® SPL®	$R_w = 54$ dB	2,50

IMPORTANT NOTICES

- JOCAVI® accepts no responsibility for any printing errors. Specifications can be modified without prior notice, if technical or commercial reasons so require.
- Colours may vary due to raw-material suppliers' changes and some differences may occur in total range.
- Due to its natural origin, wood-based products will always present natural imperfections inherent to the organic nature. And for similar reasons, they will also present traces of old-age in the course of time.
- Wood and Fabric products are highly susceptible to change its appearance with humidity and temperature. Close attention must be paid to the storage conditions and the acclimatization before, during and after the installation.
- Typical Indoor Comfort Standards state a temperature range of 20°C - 27°C (68°F - 81°F), and a relative humidity of less than 60%. These would be considered as normal operational levels of JOCAVI® products' range.

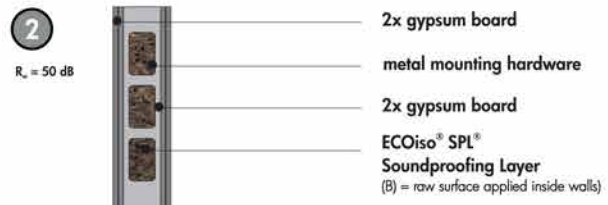
APPLICATION EXAMPLES

REINFORCEMENT INSULATION COATING



13mm plaster + 110mm ceramic brick + 13mm plaster + ECOiso® SPL® 60mm
0.5" plaster + 4.3" ceramic brick + 0.5" plaster + ECOiso® SPL® 60mm (2.4")

INSIDE A PARTITION WALL



2x13mm gypsum board + ECOiso® SPL® 60mm on metal frame + 2x13mm gypsum board
2x0.5" gypsum board + ECOiso® SPL® 60mm (2.4") on metal frame + 2x0.5" gypsum board

GENERAL FEATURES

TECHNICAL FEATURES	STANDARD	LIMIT VALUES / TOLERANCES	CLASS
Apparent bulk density	NP EN 1602	< 130 kg/m ³	---
Thermal conductivity coefficient	EN 12667	< 0,040 W/m.K (λ_d)	---
Water content	EN 12105	< 8%	---
Water absorption	NP EN 1609	< 0,5 kg/m ²	WS
Fire Class	NP ISO 11925-1	< 150 mm (h)	Euroclass E
	ETICS	---	B - s1,d0

INSULATION AND THERMAL RESISTANCE VALUES

Thickness	INSULATION VALUES R_w (dB)	THERMAL RESISTANCE R_t (m ² ·°C/W)
40mm ECOiso® SPL®	$R_w = 44$ dB	1,00
60mm ECOiso® SPL®	$R_w = 50$ dB	1,50
80mm ECOiso® SPL®	$R_w = 53$ dB	2,00
100mm ECOiso® SPL®	$R_w = 56$ dB	2,50

(1) laboratory Measurement of Sound Absorption Coefficient according to ISO 140-3 and ISO 354:2003