

JOCaUI[®] Acoustic panels

www.jocavi.net

NATURAL SOUNDPROOFING
NATURAL ABSORPTION
NATURALLY GOOD

[®]iso
ACOUSTIC SHELL SYSTEM

JOCaUI[®]

SYSTEM

20 YEARS
MANUFACTURERS
SINCE 1992



FEATURES

- Thermal and acoustic insulation
- Fully recyclable
- Renewable, 100% natural raw-material
- Fire Class: **B-s2, d0 - E1**
- Noise reduction coefficient (NRC): **0,78**
- Level of sound insulation: **Rw 54 dB**
- Unlimited durability, no loss of features
- Excellent dimensional stability (even when subject to high thermal variations)
- Anti-vibration insulation and acoustic absorber
- Low energy consumption during the manufacturing process



NATURE AND TECHNOLOGY TOGETHER FOR AN IDEAL SOLUTION

Following an ecological philosophy, JOCAVI® has designed this line of acoustic insulation and treatment materials, which are made exclusively from natural raw-materials, like cork and coconut. This line of products provides a practical and efficient solution for acoustic insulation and treatment, with the associated benefit of the thermal component. It is composed of expanded cork agglomerate (as an acoustic and anti-vibration insulation material), coconut fibre (as an acoustic energy absorbent material), and perforated panels made of coloured pressed wood fibre that gives it an attractive finishing. This compound, made of strictly 100% natural ecological materials, has an excellent technical performance. The unique features of these raw materials combined in the ECOiso® provide it with a high degree of thermal, acoustic and anti-vibration insulation and airborne noise reduction. This product represents the most practical, efficient and ecological solution to build high-quality acoustic insulation and treatment. The ECOiso® is ideal to install in music and television studios, business spaces, auditoriums, conference rooms, restaurants and bars, etc..

The coconut fibre is a natural, renewable and very light vegetal material. It has high porosity (95% of pores), which translates into an extremely high absorption of sound energy.

The exceptionally good behaviour of the expanded cork agglomerate, in terms of Insulation and dimensional elasticity, associated with the coconut fibre's micro-porous absorbent properties, are the natural binomial for first-class acoustic solutions. Therefore, outstanding performances and a significant reduction of sound levels by means of structure-borne and airborne transmission are guaranteed. The high level of performance that is obtained from this combination of coconut fibre and expanded cork agglomerate is hard to obtain from other materials.

The acoustic behaviour of the ECOiso® (cork + coconut + wood) delivers a natural combination, and ensures solutions with superb acoustic performances to reduce sound levels, as well as an excellent aesthetical and decorative integration.

COMPOSITION

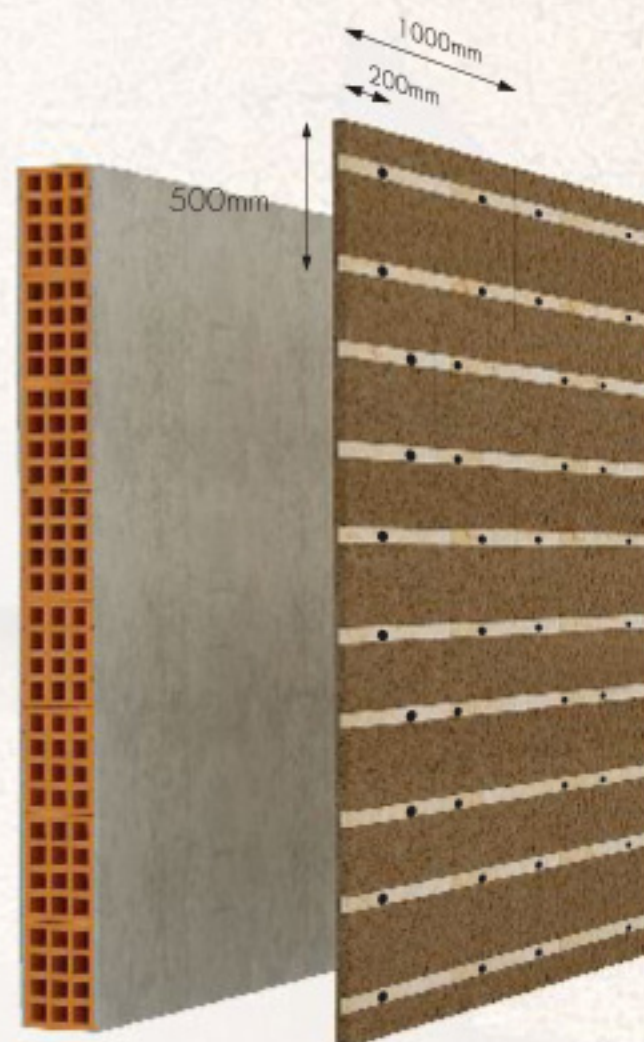
The ECOiso® system is composed of two types of elements in plates and some accessories. The first element to be applied is the Acoustic Insulation, and the second element is the Acoustic Absorber that gives the final decorative finishing. Accessories are: wooden slats, wall plugs, bolts and glue.

MOUNTING ACCESSORIES



TECHNICAL DATA

Environmental protection and excellent performances.
Portugal has more than 730 thousand of cork-oak stand and accounts for more than 50% of world's cork production.



Application without metal structure

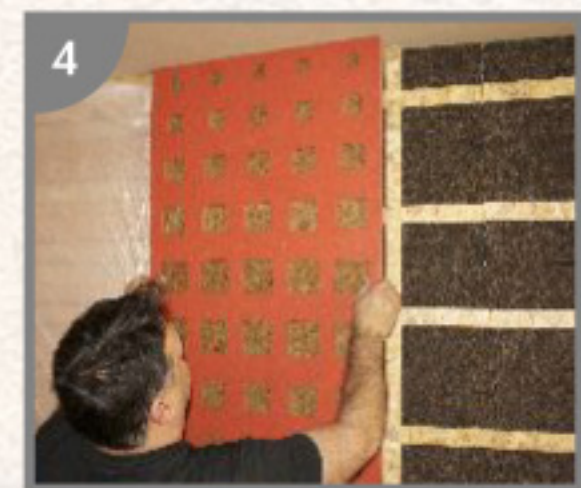
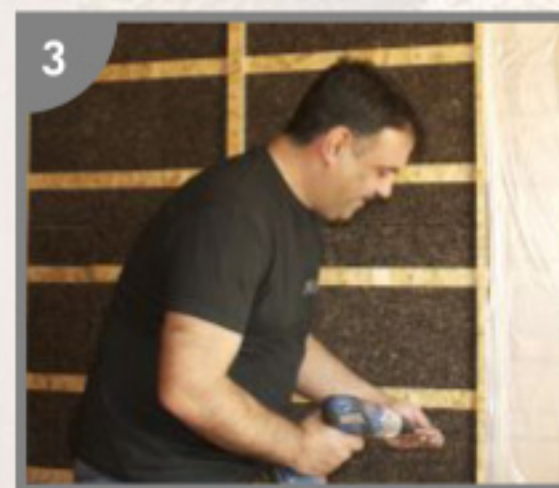
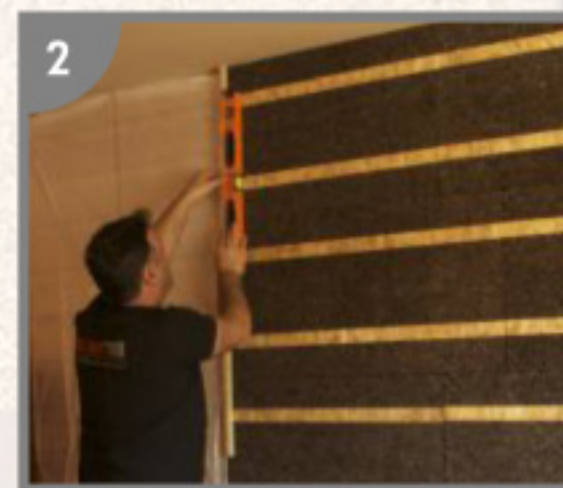
This environmental-friendly solution is ideal for thermal and acoustic buildings' insulation, providing optimum comfort and great performance.

Fasten the cork agglomerate plates to the wall with the help of a power drill and a hammer. Screw the wooden slats in the perpendicular position, as they will be the fixing support for the acoustic absorption panel.

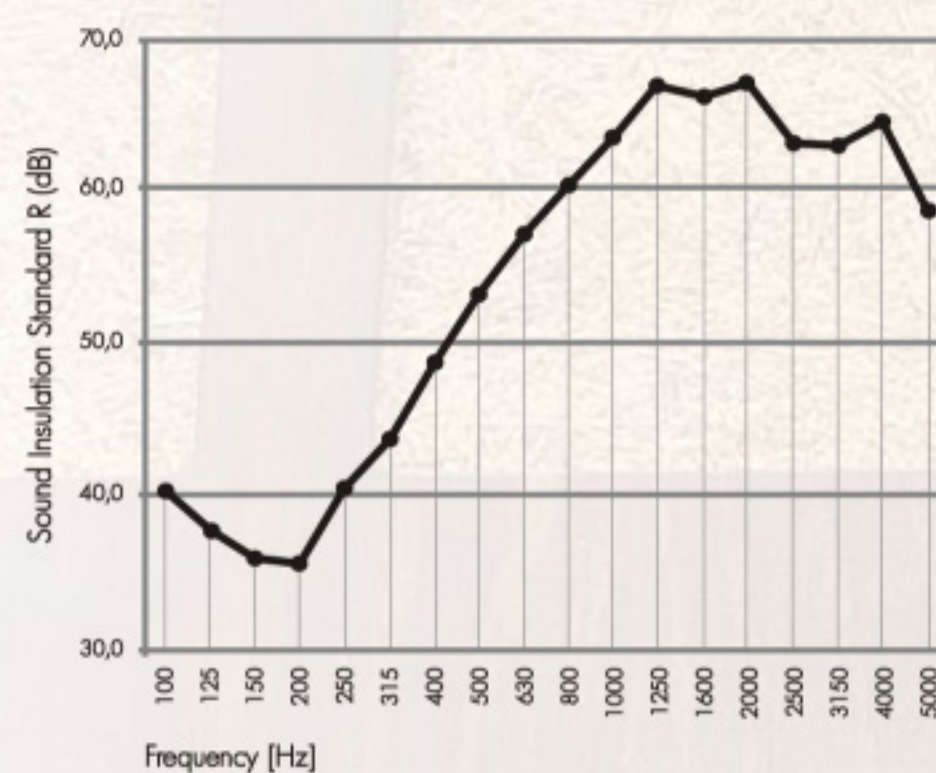
Apply the thread of glue and, lastly, mount the acoustic absorption panels that provide the finishing.

Remark: the plates may be cut with a saw to be adjusted to the limits of walls or ceilings.

ASSEMBLY INSTRUCTIONS



SOUND INSULATION INDEX R (dB)



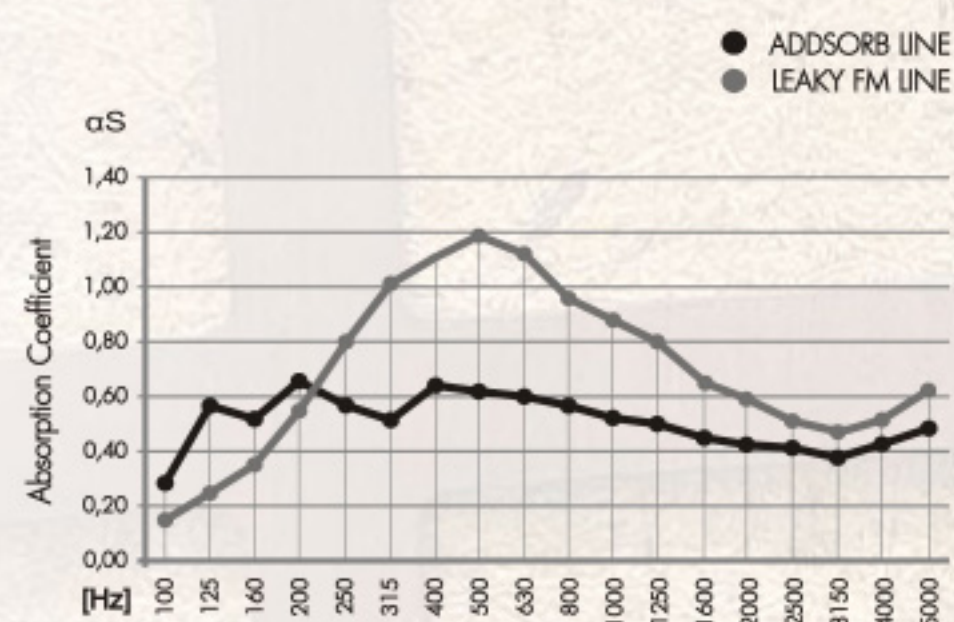
Insulation index of sound in the air
R_w (C; C_{trc}) = 54 (-2;-7) dB
1 Coloured Wood Fibre Board + Coconut Fibre

THERMAL TRANSMISSION COEFFICIENT

LAYERS	λ [W/m.°C]	e [m]	R [m².C/W]
Rse			0,040
traditional plaster	1,30	0,015	0,012
brick 22 Preceram	-	0,220	0,580
traditional plaster	1,30	0,015	0,012
ECO iso board	0,04	0,040	1,500
ADD or LFM finishing board	0,25	0,0125	0,050
Rsi			0,130

Thermal transmission coefficient
U = 0,430 W/m².°C
(without insulation U = 1,294 W/m².°C)

ABSORPTION COEFFICIENT



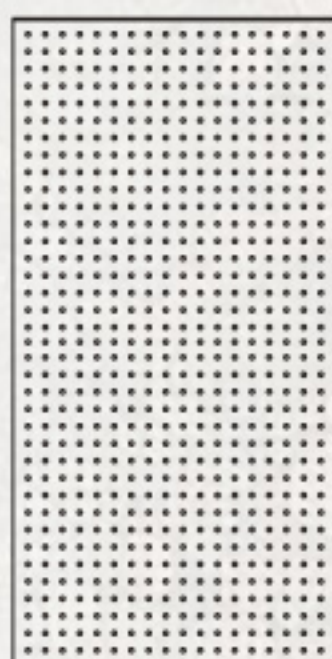
ABSORPTION COEFFICIENT: Values in accordance with the standards,
EN 20654, ASTM C423 and EN 11654.

ABSORPTION COEFFICIENTS OF ALL MODELS (NRC) AND FINISHING PANELS PERFORATIONS (%/m²)

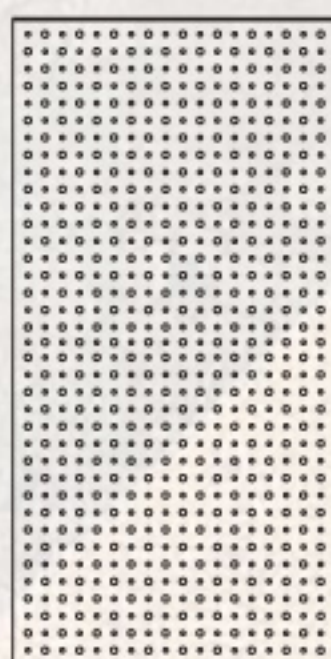
ADDSORB® REFERENCE AND SIZES AVAILABLE	PERFORATIONS (%/m²)	NRC	LEAKY FM® REFERENCE AND SIZES AVAILABLE	PERFORATIONS (%/m²)	NRC
ADD 060/120	6,30%	0,53	LFM 060/120	43,09%	0,82
ADDHC 060/120	10,22%	0,63	LFMC 060/120	32,45%	0,77
ADDG 060/120	9,26%	0,59	LFM3D 060/120	18,40%	0,72
ADDS 060/120	24,61%	0,74	LFMT 060/120	72,57%	0,90
ADDSL 060/120	25,54%	0,74	LFMD 060/120	71,26%	0,90
ADDC 060/120	28,78%	0,76	LFMB 060	38,35%	0,80

AVAILABLE FINISHINGS AND PERFORATIONS

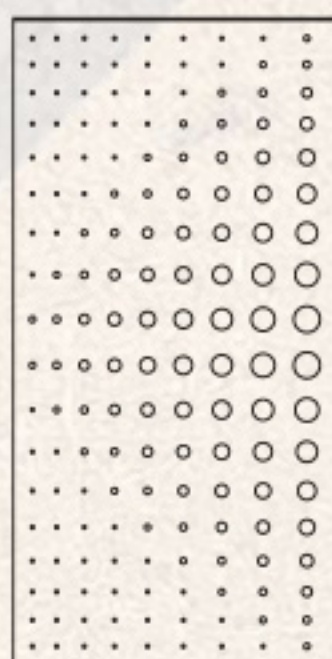
ADDSORB®



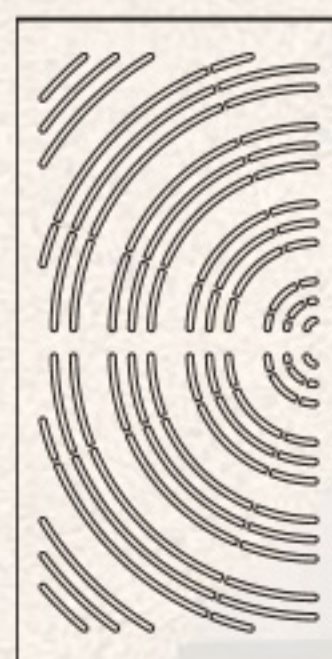
ADD060/120



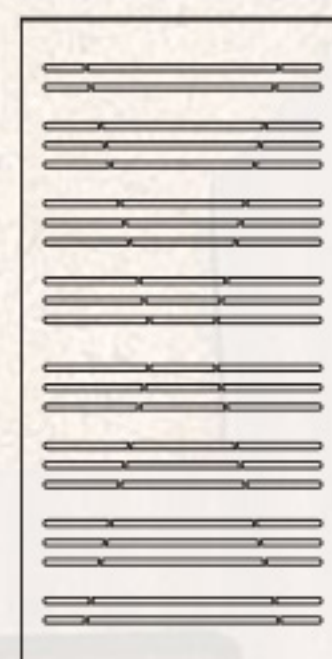
ADDHC060/120



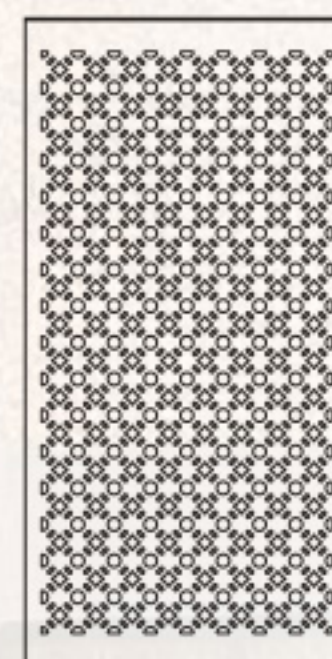
ADDG060/120



ADDS060/120

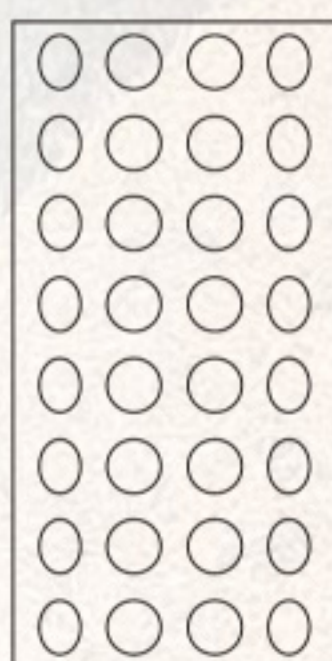


ADDSL060/120

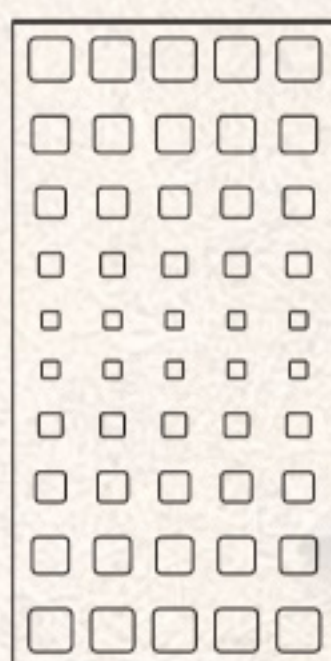


ADDC060/120

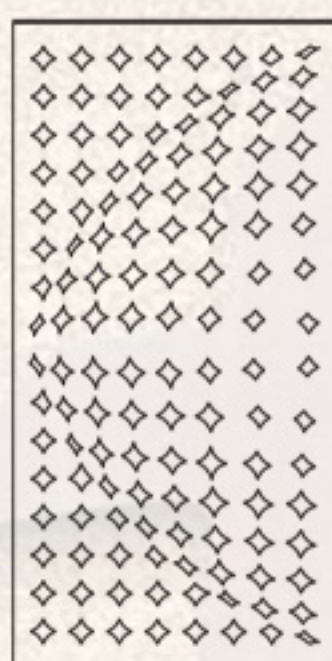
LEAKY FM®



LFM060/120



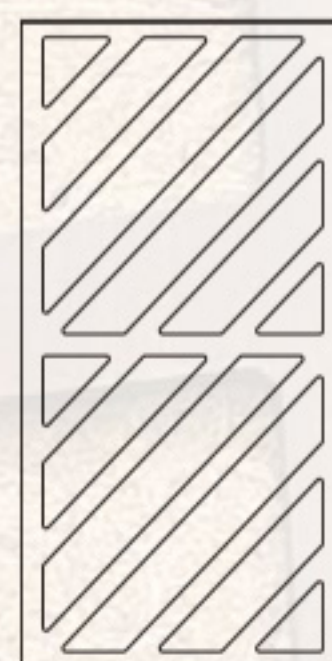
LFMC060/120



LFM3D060/120



LFMT060/120



LFMD060/120



LFMB120

STANDARD WOOD VENEER FINISHINGS



PINE



OAK



CHERRY



MAHOGANY



BLACK-BROWN

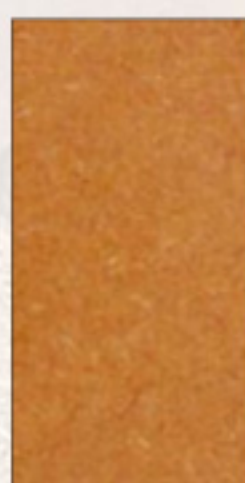


SUCUPIRA

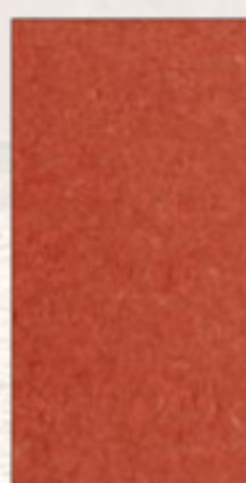
STANDARD COLOURED WOOD FIBER COLOURS



YELLOW
Similar to
RAL 1023



ORANGE
Similar to
RAL 2003



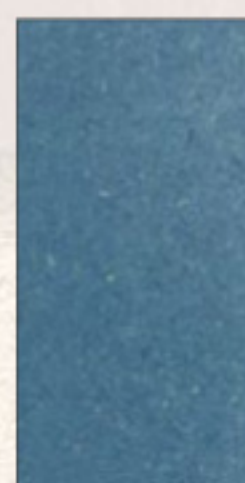
RED
Similar to
RAL 3020



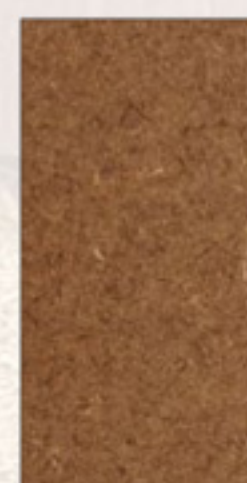
PURPLE
Similar to
RAL 4007



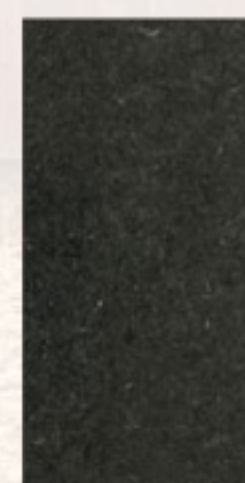
GREEN
Similar to
RAL 6005



BLUE
Similar to
RAL 5010



BROWN
Similar to
RAL 8017



BLACK
Similar to
RAL 9005



GREY
Similar to
RAL 7001

MANUFACTURER



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