



# ECOiso<sup>®</sup> SYSTEM

SOUNDPROOFING AND ABSORBENT LAYER



Image of 120x600cm model Ref.:ECOIS093 (on the left) and Ref.:ECOIS073 applied (ambient image).

## DESCRIPTION

Following an ecological philosophy, JOCAVI<sup>®</sup> has designed this line of acoustic insulation and treatment materials, which are made exclusively from natural raw-materials, like cork and coconut. 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<sup>®</sup> 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<sup>®</sup> is ideal to install in music and television studios, business spaces, auditoriums, conference rooms, restaurants and bars, etc.

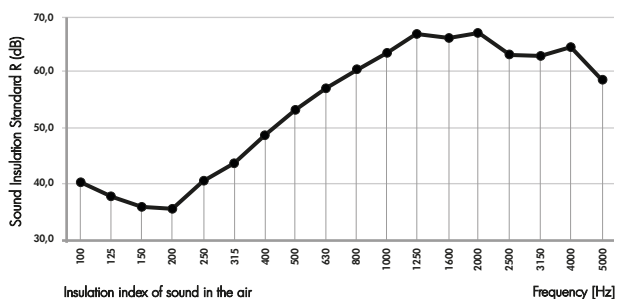
The acoustic behaviour of the ECOiso<sup>®</sup> (cork + coconut + wood) delivers a natural combination, and ensures solutions with superb acoustic performances to reduce sound levels, as well as an excellent aesthetical and decorative integration.

The ECOiso<sup>®</sup> 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.

## FEATURES

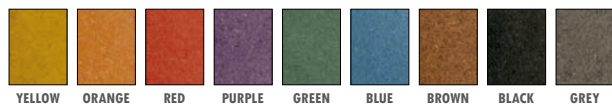
- Renewable, 100% natural raw-material and fully recyclable.
- Noise reduction coefficient (NRC): **0.78/m<sup>2</sup>**
- Level of sound insulation: **Rw 54 dB**
- Fire-resistance: Wood Veneer Faced (or Engineered Coloured Fibre) Boards - Euroclass B-s2,d0 (similar to old M1), Coconut (Coir Fibre) - Euroclass E (similar to old M4) and Cork Euroclass E (similar to old M4).
- **Thermal, acoustic insulation, anti-vibration and acoustic absorbent.**
- Unlimited durability, no loss of features.
- Excellent dimensional stability (even when subject to high thermal variations).
- Low energy consumption during the manufacturing process.

## SOUND INSULATION INDEX R (dB)

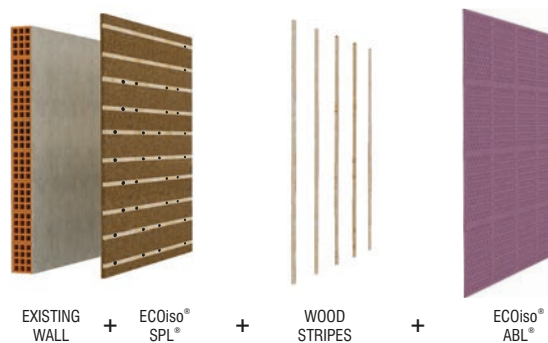


Insulation index of sound in the air  
**Rw (C, C1c) = 54 (2;-7) dB**  
 1 Coloured Wood Fibre Board + Coconut Fibre

## ENGINEERED COLOURED WOOD COLOURS



## TECHNICAL DRAWINGS



## MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
ECOIS093	120 cm	60 cm	9.3 cm	13.6 Kg
ECOIS073	120 cm	60 cm	7.3 cm	12.6 Kg

## THERMAL TRANSMISSION COEFFICIENT

LAYERS	$\lambda$ [W/m.°C]	e [m]	R [m <sup>2</sup> .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/m<sup>2</sup>.°C** (without insulation U = 1,294 W/m<sup>2</sup>.°C)

## WOOD VENEER FINISHINGS



## IMPORTANT NOTICES

- JOCAVI<sup>®</sup> accepts no responsibility for any printing errors. Specifications can be modified without prior notice, if technical or commercial reasons so require.
- The colours shown on this catalogue are only a reference and an illustration of the products finishing. The colours shown are not binding because brightness, contrast and colour balance may vary due to the printing process.
- Colours may vary due to raw-material suppliers' changes and some differences may occur in tonal 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<sup>®</sup> products' range.
- Despite all the standard sizes of all products, this model can be customised upon previous consultation. Sizes may vary slightly due to their production method and some inherent raw-materials characteristics.

