Following an ecological philosophy, JOCAVI has designed this line of acoustic insulation and treatment materials, which are made exclusively from 100% natural raw-materials, like cork and coconut fibers and wood. This line of products provides a practical and efficient solution for acoustic insulation and treatment, with the associated benefit of using recycled, recyclable and environmentally-friendly raw materials.

ECOiso line provide it with a high degree of thermal, acoustic and anti-vibration insulation and airborne noise reduction. These products represent the most ecological solutions to build high-quality acoustic insulation and treatment. The acoustic behavior of this line of products delivers a natural combination, and ensures solutions with superb acoustic performances and an excellent aesthetical and decorative integration.
Following an ecological philosophy, JOCAVI® has designed this line of acoustic insulation and treatment materials, which are made exclusively from 100% natural raw-materials, like cork and coconut fibers and wood. This line of products provides a practical and efficient solution for acoustic insulation and treatment, with the associated benefit of using recycled, recyclable and environmentally-friendly raw materials. ECOiso® line provide it with a high degree of thermal, acoustic and anti-vibration insulation and airborne noise reduction. These products represents the most ecological solutions to build high-quality acoustic insulation and treatment. The acoustic behavior of this line of products delivers a natural combination, and ensures solutions with superb acoustic performances and an excellent aesthesical and decorative integration.
**QUADCORK®**

**ABSORBENT PANEL**

**DESCRIPTION**

Following an ecological philosophy, JOCAVI® has designed this product made exclusively of cork from cork oak trees. Its industrial process is 100% natural.

The QUADCORK® is an anti-vibration insulation and acoustic treatment product with a high degree of thermal insulation as well. The outstanding behaviour of the Expanded Cork Agglomerate, in terms of insulation and dimensional elasticity and its controlled porosity and density, delivers excellent acoustic performances to reduce sound levels by structure-born transmission and to reduce airborne noise and reverberation time. The QUADCORK® is thus the practical, efficient and ecological solution for a good acoustic insulation and treatment. It is meant to be applied on continuous surfaces or on selected spots. It comes in 25cm x 25cm mosaics that are simply glued to the surfaces, walls and ceilings.

The QUADCORK® is simply made of cork as its raw-material, without additives... and is bonded with its own resin. 90% of the energy consumption is made up of biomass, the waste of its industrial process, granules and dust. It is fully reusable.

**FEATURES**

- Renewable and 100% natural raw-material and fully recyclable.
- NRC: (0.42/m² - 40mm) (0.53/m² - 60mm).
- Level of sound insulation: Rw 52 db.
- Fire resistance: Euroclass E (EN 13501-1, similar to old M4). No release of toxic gases.
- Thermal, acoustic and anti-vibration insulation material.
- Density: 120Kg/m³.
- Thermal conductivity / Specific heat: 0.0044/kW/h.
- Natural industrial process (without additives).
- Unlimited durability, no loss of features.

**ABSORPTION COEFFICIENT**

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1.4
1.2
1.0
0.8
0.6
0.4
0.2

40 mm Depth

**STANDARD CORK COLOUR**

**TECHNICAL DRAWINGS**

**MODELS AND SIZES**

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<th>MODELS</th>
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<td>25 cm</td>
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<td>0.3 Kg</td>
</tr>
</tbody>
</table>

SOLD PER BOX ONLY - 1m² - 16 UNITS/TILES = 1 m²
1 BOX OF 4cm units = 4 m² - 1 BOX OF 6cm units = 2.5 m²

**IMPORTANT NOTICES**

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* Values [<100Hz and > 5K] are Non Standard Values.

* MODELS AND SIZES.

* MEASUREMENTS (on the left) and MODELS APPLIED (on the right).
QUADCORK® OUTLINE
ABSORBENT PANEL

DESCRIPTION

QUADCORK® OUTLINE is an anti-vibration insulation and acoustic treatment product with a high degree of thermal insulation as well. The outstanding behaviour of the Expanded Cork Agglomerate, in terms of insulation and dimensional elasticity and its controlled porosity and density, delivers excellent acoustic performances to reduce sound levels by structure-born transmission and to reduce airborne noise and reverberation time.

QUADCORK® OUTLINE is an efficient and ecological solution for a good acoustic insulation and acoustic treatment. You can choose from two design options, it is supplied in plates with 100cm x 50cm to be glued on continuous surfaces of walls and ceilings on selected spots.

This is a product made exclusively of cork from cork oak trees his manufacture process is 100% natural. QUADCORK® is simply made of cork as its raw material, without additives, and is bonded with its own resin. 90% of the energy consumption is made up of biomass, the waste of its industrial process, granules and dust. It is fully reusable.

FEATURES

- Renewable and 100% natural raw material and fully recyclable.
- NRC: (QOC100 - 0.70/m²) (QOF100 - 0.71/m² - 60mm).
- Fire resistance: Euroclass E (in class I - similar to old M4). No release of toxic gases.
- Thermal, acoustic and anti-vibration insulation material.
- Density: 120Kg / m³.
- Thermal conductivity / Specific heat: 0.004W/mK.
- Natural industrial process (without additives).
- Unlimited durability, no loss of features.

ABSORPTION COEFFICIENT*

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

STANDARD CORK COLOUR

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- 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 all-up in the course of time.
- Typical Indoor Comfort Standards state a temperature range of 20ºC - 27ºC (68ºF - 81ºF), and a relative humidity of less than 60%. These would be considered as normal operational levels of JOCAVI® 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-material characteristics.

SOLD IN PAIRS / m² - 2 UNITS = 1m²
DESCRIPTION

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 compound, made of strictly 100% natural eco-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 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 aesthetic and decorative integration.

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 us 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/m²
• 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)

![Sound insulation index chart](image)

ENGINEERED COLOURED WOOD COLOURS

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- 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.
- Typical Indoor Comfort Standards state a temperature range of 20ºC - 27ºC (68ºF - 81ºF), and a relative humidity of less than 60%. These would be considered as normal operational levels of JOCAVI® products range.
- 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.

TECHNICAL DRAWINGS

![Technical drawings](image)

MODELS AND SIZES

<table>
<thead>
<tr>
<th>MODELS</th>
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THERMAL TRANSMISSION COEFFICIENT

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<td>0.015</td>
<td>0.012</td>
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<tr>
<td>brick 22 Precem</td>
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</tr>
<tr>
<td>traditional plaster</td>
<td>1.30</td>
<td>0.015</td>
<td>0.012</td>
</tr>
<tr>
<td>ECO iso board</td>
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<td>0.040</td>
<td>1.500</td>
</tr>
<tr>
<td>ADV or LFM finishing board</td>
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<td>0.0125</td>
<td>0.050</td>
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<tr>
<td>Rvi</td>
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</table>

Thermal transmission coefficient U = 0.430 W/m²·K (without insulation U = 1.294 W/m²·K)

WOOD VENEER FINISHINGS

- PINE
- OAK
- CHERRY
- HAPANGANT
- BLACK-BROWN
- SUCUPIRA
Low energy consumption during the manufacturing process.

Unlimited durability, no loss of features.

Noise reduction coefficient (NRC):

Renewable, 100% natural raw-material and fully recyclable.

Colours may vary due to raw-material suppliers’ changes and some differences may occur in tonal range.

The ECOiso®ABL is ideal to install in auditoriums, conference rooms, business spaces, 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 good behaviour of the recycled wood fibres, associated with the coconut fibre’s micro-porous absorbent properties, makes a natural first-class combination in terms of acoustic solutions.

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

The ECOiso®ABL is composed of two materials (coconut fibres and recycled wood fibres) forming the Acoustic Absorber element, that gives us the final decorative finishing.

FEATURES

• 100% natural materials.
• 100% recycled and recyclable.
• Noise reduction coefficient (NRC): 0.78/m²
• 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).'*
• 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)

The acoustic behaviour of the ECOiso®ABL delivers a natural insulation and treatment. The ECOiso® is ideal to install in music and noise reduction. This product represents the most practical, efficient and ecological solution to the problem of acoustic treatment.

THERMAL TRANSMISSION COEFFICIENT

The ECOiso®ABL, with the coconut fibre’s micro-porous absorbent properties, makes a natural first-class material. It has high porosity (95% of pores), which translates into an extremely high absorption of sound energy. 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 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 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 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.
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 110kg/m³.

It comes in 1000 x 500mm plates and its thickness varies between 20 and 100mm. 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
• 110 Kg/m³ Density.
• Fire-resistance: single product Euroclass E (similar to old M4) and ETICS system Euroclass B-s1,d0 (similar to old M1).
• Unlimited durability.
• Excellent Thermal Properties.
• Excellent anti-vibration properties
• Applicable on ceilings, floors and walls.
• Applicable as revetment or as insulation material.
• Plate sizes: 1000x500mm; thickness, 10/20/40/60/80/100mm.

SOUND INSULATION INDEX (dB/Hz)

INSULATION AND THERMAL RESISTANCE VALUES

APPLICATION EXAMPLES

REINFORCEMENT INSULATION REVETMENT

INSIDE A PARTITION WALL

GENERAL FEATURES

INSULATION AND THERMAL RESISTANCE VALUES

1. 2x gypsum board
2. metal mounting hardware
3. 2x gypsum board
4. ECOiso® SPL
5. Soundproofing Layer
6. (f) raw surface applied inside wall

2x13mm gypsum board + ECOiso® SPL 60mm on metal frame + 2x13mm gypsum board

DIFFERENT LAYERS

DIFFERENT LAYERS
ECOiso® NCF is a sound insulation material composed by one sheet of Cork Agglomerate and one board of high-density recycled wood fibers. This material was thought in order to reduce transmission of sound and vibration in the floors of residential and commercial buildings. It can also be used on walls and ceilings.

The strength and durability added to the available dimensions of the ECOiso® NCF make it ideally suitable for primary construction or retrofitting of existing applications. There is a requirement for a sound isolation material that should be as thin as possible, in order to maximize the usable room areas.

Before the use of cork and wood agglomerates was one of earliest methods for building studios soundproofing insulation. It was soon discovered that these same excellent characteristics so essential in recording studios, could be applied equally well to home theatres, home studios, music rooms and many others.

ECOiso® NCF has also proven effective over a wide sound frequencies range, giving the best noise reduction values at the low and high-frequencies in a simple composite material.

**FEATURES**

- 100% Recyclable and Natural raw-materials.
- Recycled raw-materials.
- Fire-resistance: OSB - Euroclass D-s1,d0 (similar to old M3) and Cork - Euroclass E (similar to old M4).
- Supplied in tiles, easy to install.
- Excellent anti-vibrate performance.
- Easily cut to adjust to room dimensions.
- Provided in two sizes: 48 X 48 cm or 96 X 48 cm.
- Suitable for primary construction or retrofitting.

**AIRBORN SOUND INSULATION (dB/Hz)**

\[ R_N = 62 \text{dB} \]

**APPLICATION EXAMPLE**

**MODELS AND SIZES**

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<th>MODELS</th>
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<td>6 cm</td>
<td>3.7 Kg</td>
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**IMPACT SOUND INSULATION (dB/Hz)**

\[ L_I = 53 \text{dB} \]

**PACKAGE INFORMATION**

- **48 x 48 cm tiles**
  - ECOiso® NCF486 - 60mm: 1 Box - 62 x 62 x 36 cm, 6 tiles (2,88m²)
  - ECOiso® NCF488 - 80mm: 1 Box - 62 x 62 x 36 cm, 4 tiles (1,92m²)

- **96 x 48 cm tiles**
  - ECOiso® NCF486 - 60mm: 1 Box - 120 x 62 x 36 cm, 6 tiles (5,76m²)
  - ECOiso® NCF488 - 80mm: 1 Box - 120 x 62 x 36 cm, 4 tiles (3,84m²)

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- Due to its natural origin, wood-based products will always present natural imperfections inherent to the organic matter. And, for similar reasons, they will also present traces of oldage in the course of time.
- Mixed and other 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.
- Despite all the standard sizes of all products, this model can be customised upon previous consultation. Sizes may vary slightly due to the production method and some inherent raw materials characteristics.