



JOCavi [®] **Acoustic
panels**

www.jocavi.net

A FULL RANGE OF ACOUSTIC SOLUTIONS

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ABOUT US

We are a Portuguese company specialised in developing and manufacturing acoustic treatment panels for the professional audio industry. We always look for originality, technological innovation, durability, cost and promptness to present our products. We have therefore generated a vast organisational wealth because we share Quality with those who are quality-oriented. The use of acoustic products in working environments, by taking into account the needs and the modern corporate images, is our passion. Our company has a varied and thorough offer of high quality products available, which enable a wide range of applications. Our range of products offers the designer a large variety of solutions. Several types of absorption and diffusion panels deliver an excellent performance in the diverse areas of application.



ACTIVITY AREAS

We have the solution for the most demanding ears, be it for auditoriums, audio studios, commercial or sporting environments, radio stations, theatres, conference rooms, churches and even for your own listening room at home. JOCAVI® presents acoustic treatment panels which blend well with any decoration and are easily mounted on ceilings or walls.

The development and improvement of these panels were done with the help of computerised calculus and analysis, in order to determine their characteristics and optimise their practical application, thus ensuring the excellence of our products.

Our products offer new aesthetics, a cutting-edge attitude, efficiency, quality and customised design. Our acoustic products are prepared to a high standard, with skills acquired from good taste, in order to serve the high-end corporate world. We are JOCAVI®, an INTERNATIONAL reference in the world of acoustics.



WE ARE ENVIRONMENTALLY - FRIENDLY

Recycling means to repeat the life cycle continuously, by giving new use to materials discarded by society.

We are increasingly concerned about using recycled, recyclable and environmentally-friendly raw materials.

The recycled materials used in our manufacturing processes come from paper, newspapers, magazines, textiles, packagings, cardboard, plastic, polyester, wood and glass.

The recyclable materials of our products consist of wood from self-sustainable forests, ABS, PETG, EPS, fabric, ceramics and chipboards.

Our painting method uses ecological paints with environmentally harmless dyes and components and no active solvents.

Recycling offers an indeterminate number of advantages. It prevents soil and water contamination, reduces the volume of waste that goes to the sanitary landfills, generates jobs for many people and spares natural resources.

In the course of the years, JOCAVI® Acoustic Panels has become increasingly concerned and aware of the need to reduce inert matters that pollute the planet. This is an issue that concerns all of us and which the industrial world in particular must pay careful attention to.

CONCEPTS AND BUSINESS PHILOSOPHY

ARCHITECTURAL ACOUSTICS

The sound we hear in a room is a combination of the direct sound propagated by the sources and all the direct and indirect reflections from the surfaces (floor, walls and ceiling), as well as the limit rate of the room itself (length, width, height). It is by handling the indirect reflections on the surfaces that it is possible to affect and alter considerably the acoustic features of the room and the consequent way we hear and perceive sound. Hence one of the central topics in the interiors acoustics.

The acoustics of buildings was an undeveloped aspect until relatively recent times. In the primordial approaches to this subject the roman architect Marcus Pollio, that lived during the 1st century AC, made some guesses and some pertinent observations regarding the reverberation and interference that could be carried by us. However, the scientific aspects of the subject were only later developed by the American physicist *Joseph Henry* in 1856 and more thoroughly by the American physicist *Wallace Sabine* in 1900. The following years, after this historical landmark that was the Foundation of the architectural acoustics by Sabine, were spent studying how the absorption affects the sound.

At that time a library was then created with absorbent materials, characterized

with its respective properties, the absorption coefficients.

Based on reasonable standards generally accepted by everyone, this notion and organized comprehension on how the absorption helps the hearing perceptibility, these teachings started to be strongly applied in room's acoustic projects. The international standards were created with the collaboration and the involvement of standards normalization institutions; ISO, ASTM, etc.

The architectural acoustics experts study the behavior of sound in closed enclosures or semi-open, as well as the sound transmission between buildings. The sound absorption and diffusion is a crucial part when studying the behavior of sound in closed rooms to ensure a good intelligibility of speech and music.

The sound insulation in buildings in general, as well as in urban projects, is important to minimize the propagation of undesired sounds between rooms and adjacent buildings. In this way the negative acoustic effects are minimized, like the noise contamination and misrepresentation of frequencies by several factors.

COMMON SOUND PROBLEMS IN ROOMS

The acoustics of a room is satisfactorily adequate when there is a correct balance between absorption and sound reflection. That balance is determined by the physical space (dimensions of the room) and by the materials used on the coating. However, the acoustic phenomena like problematic echoes and excessive reflections can frequently occur even in a room with an adequate reverberation time. When you have for instance a ceiling or a wall with a concave shape, it will be highly reflective. In such cases, the sound is concentrated in a certain point where anomalies are felt and where the sound has an increased feature, distorted and bad. In the same way, a narrow corridor, connected to a room between parallel reflective walls, can work as a trap, an absorbent chamber generally beneficial for the lower frequencies.

Although the level of absorption of a room is being controlled, other acoustic imperfections can emerge and cause uncomfortable reflections and repeated echoes, it is then imperative to pay some attention to the elimination of the interferences. The interferences emerge from the differences on the distances from the direct sound and the reflected sound, which produce the so called

dead points, on which some frequencies are therefore cancelled as we do not feel them or hear them. All these acoustic phenomena called interferences simultaneously impair hearing and the sound capture by microphones.

When we talk about a "good room sound" we are probably talking about the acoustics as the acoustic science had been discussed about for hundreds of years. Until then, a good acoustics were achieved by experimentation, by experience or simply by accident. Currently, we know a lot about the parameters that influence the sound in a room. Talking about the control room of a studio, we know that basically, this room should work as neutral as possible, a room with the right dimensions and proportions that has the recommended materials so it can be balanced in all its sound spectrum, but this is not always the case: Here is a list with important parameters to have into consideration for good acoustics: Appropriate Reverberation time, Modal Consistency, without floating echoes, good sound distribution, appropriate sound pressure level, low level of background noise achieved by insulation.

ROOM DESIGN

The Acoustic Design of a room should take into consideration the fact that human hearing is complex, whether for physiological characteristics of the ear as for psychological characteristics. For example, sounds that are familiar to us are not interpreted in the same way, they look unreal. This is due to the part of our brain that focuses and interprets the audition, which minimizes the attention to these types of sounds. On the other hand, those sounds that we consider common and familiar are easily and quickly interpreted.

Having this notion, it is easily understandable that sound can be radically altered in an enclosed space. For example, in a gym conditioned by the hard materials of the walls, ceilings and stands, the sound causes sound waves and several beats, increasing the reverberation and totally misrepresenting the sound of the sound sources.

The Sound produced in a room is modified by reverberations due to the number of reflections from the surfaces and to all existing elements in that room, as well as the furniture and the audience. For this reason a professional audio room should have a normal reverberation level and intelligibility to ensure the sound's natural playback for the events that take place there. To obtain the best acoustic qualities, the rooms are designed in a way in order to ensure balance between the absorption and the diffusion, with a minimum discrepancy of the time values versus frequency. The control of the low and mid-low frequencies is therefore essential, through the absorbent elements. The enough reflection by diffusion is equally important to ensure a good natural quality of the sound.

The most easy and common way of treating spaces for music is, without any doubt, to exclusively apply absorbent materials. This method is used uniquely for reducing the reverberation time by the method of absorption. However, it is not the most correct way of doing it because when you absorb too much you can see immediately a weakening of the high frequencies which will unbalance the reverberation times versus frequency. The effect will then seem like a dead environment with the audible high frequencies in much lower levels, cancelling the natural harmonics and diminishing the audition of the instrument's timbre.

In many cases, the room projects are designed by the generalist architecture

sector that is in charge, besides the conception of the building, also for the acoustic project for the interior rooms as part of the whole project.

In most cases this procedure does not have the best results, as the Architects do not have the same kind of sensibility or understanding on musical acoustics as the Acoustics Musicians or Engineers with formation and higher sensitivity.

For the generalist planners, using diffuser elements can be a risk when not applied in a proper shape or proportion. They then choose more standardized solutions using uniquely absorbents, not taking the risk of using diffuser elements, which require much more elaborate understanding and projects.

By doing so, you can give less importance to what the reflection by diffusion can help as for the balance of the reverberation times and the consequent good environment intelligibility. It is therefore absolutely imperative to consider the application of the diffusing elements in the acoustics projection in music rooms.

Over the last years, in more recent projects, it has been revealed a higher sensitivity to the use of diffusers and JOCAVI®, with its precious range of products, has immensely contributed to that reality. The use of diffusers represents a very conscientious work for the planner, as it cannot introduce excessive reverberation on any frequency, nor echo certain frequencies in an odd way, nor produce undesirable interference effects or distortion. It is therefore an attractive task that excites the experts.

There are some available methods that make it possible to modulate the acoustic field associated to a sound source regarding a certain position or area within a room. A geometrical modulation method very well known is the Ray Tracing.

This computation technique is much more demanding than a simple mathematical calculation. It requires a processing unit and makes the calculation slower. The method allows the planner to choose, adjust and distribute the acoustic handling materials and the surface's coating according to the control of reflections, the diffusion and absorption properties versus the frequency range, to achieve the desired acoustics for the sound source and audience.

OUR TASKS

The passion for Musical Acoustics has guided my life since I was a child. The taste for this matter with the tenacity to create and develop has been giving the market, under Jocavi's name, numerous high quality acoustic solutions.

For over twenty years I have had the pleasure to make this journey that makes me feel accomplished and honored, with a work dedicated to those around me, my friends and coworkers. JOCAVI® has now more than 100 different acoustic products on the market, catalogued, organized and available for the most complex and demanding applications, as well as for the most practical and simple on the world of environmental acoustics.

We are always improving.

Welcome to JOCAVI® world, a wide range of Acoustic Solutions.

Yours faithfully,

João Carlos Vieira
Founder and CEO

JOCAVI[®] Acoustic Panels

The original company has become the leading brand in the development and production of high-end acoustic treatment panels. JOCAVI[®] is a reference brand that is well-known for the high performance of its products. It stands out for its experience coupled with a constant need for innovation. Its thirty-one different models, made from the most varied raw materials in different colours and which are divided into three categories, provide JOCAVI[®] with the largest and most versatile range of acoustic panels in the market.



®

JOCALI



Image of 60x60cm model Ref.:SQA060.

DESCRIPTION

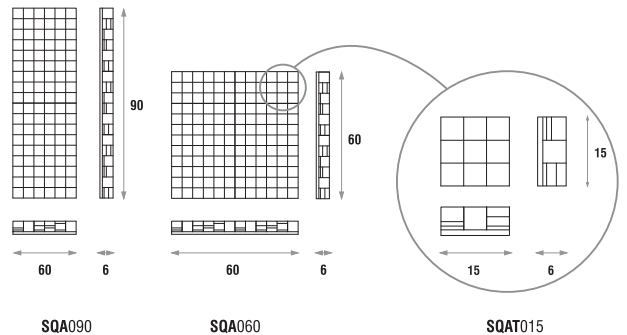
The SQUARYDIFFUSOR® is a diffusion panel that has a higher balance between diffusion/absorption. It is a 2D quadratic diffuser with five slightly uneven gradients. The SQUARYDIFFUSOR® is made of low-density clay paste.

Due to its quadratic shape and the raw material it uses, its diffusion and absorption features are well balanced for a diffusion panel.

The SQUARYDIFFUSOR® enables quite good control of acoustics by fragmenting the reflected energy, while the absorption factor is not too high, therefore quite recommended for installation in small-sized rooms, by making the acoustics of those spaces quite homogeneous.

This product is also available in individual tiles mainly proposed for big diffusion surfaces, with continuous coating (see more SQT15); it's an ideal product to the construction market.

TECHNICAL DRAWINGS



FEATURES

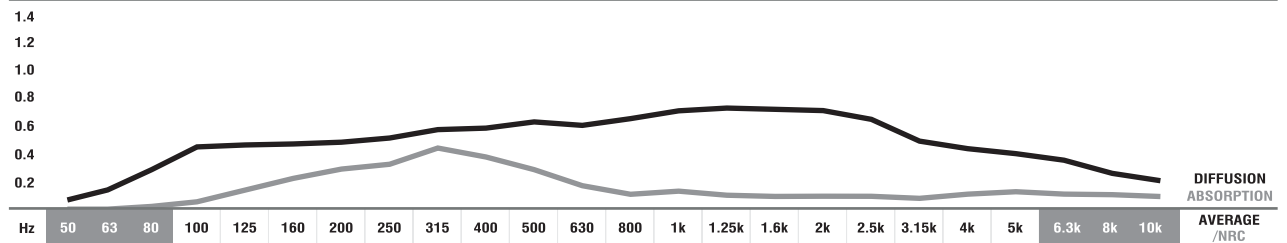
- Manufactured with ceramic.
- Average diffusion: **0.57/m²** [$>100\text{Hz}; <5\text{KHz}$].
- Fire-resistance: MO.
- 100% recyclable.
- Package: 2 and 4 units.
- Installation: accessories included.

MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
SQA090	90 cm	30 cm	6 cm	11.6 Kg
SQA060	60 cm	60 cm	6 cm	15.4 Kg
SQT15	15 cm	15 cm	6 cm	0.6 Kg

DIFFUSION - ABSORPTION COEFFICIENT

	0.05	0.16	0.31	0.45	0.46	0.48	0.49	0.53	0.56	0.59	0.61	0.60	0.64	0.69	0.73	0.71	0.70	0.66	0.51	0.44	0.40	0.36	0.28	0.21	0.57
α_S	0.00	0.00	0.01	0.06	0.15	0.23	0.31	0.37	0.44	0.38	0.30	0.19	0.13	0.14	0.09	0.08	0.08	0.08	0.07	0.10	0.14	0.11	0.09	0.08	0.22

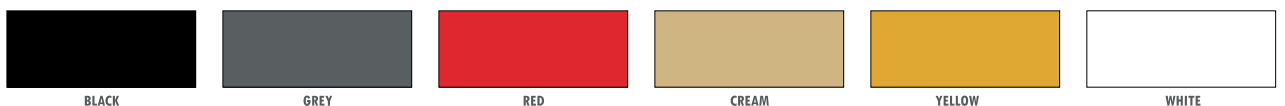


■ ABSORPTION COEFFICIENT: Values in accordance with the standards: EN 20654, ASTM C423 and EN 11654.

■ Values [$<100\text{Hz}$ and $>5\text{K}$] are Non Standard Values.

■ DIFFUSION COEFFICIENT: These values were obtained by mathematical calculations and tests carried out in our laboratory.

STANDARD CERAMIC COLOURS



IMPORTANT NOTICES

- JOCAVI® accepts no responsibility for any printing errors. Specifications can be modified without prior notice, if technical or commercial reasons so require.
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- Sizes may vary slightly due to their production method and some inherent raw-materials characteristics.



CERAFLECTOR®

DIFFUSION PANEL



PORCELAIN

GRP



Image of 60x60cm model Ref.:CER060 (on the left) and the same model applied (ambient image).

DESCRIPTION

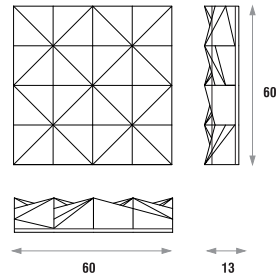
The acoustic treatment panel CERAFLECTOR® is a 3D controlled dispersion multidirectional reflection panel. It is built with the high-density GRP and its modular design makes it unique in the market.

The angles of reflection of this radial diffusion panel were thoroughly calculated. The depth factor is logarithmically varied and it is, therefore, a three-dimension omnidirectional reflection panel.

The CERAFLECTOR® panel controls primary reflections and fragments them in 64 vertices of incidence using the theoretical numerical sequence ratio of the primitive root as a basis for calculation. Thus, it produces exceptional results of sound diffusion in all directions and provides spaces with considerable sound perception.

M1 fire resistant. Available in several colours.

TECHNICAL DRAWINGS



FEATURES

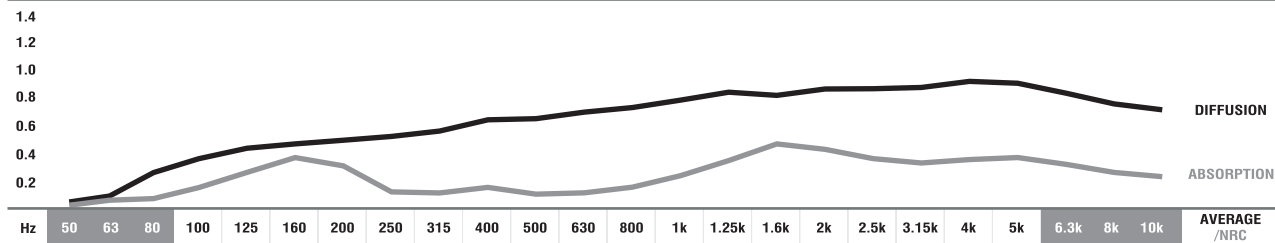
- Made of Porcelain or GRP.
- Average diffusion: **0.67/m²** [$>100\text{Hz}$; $<5\text{KHz}$].
- 100% recyclable.
- Fire-resistance: M1 for porcelain / Bs1 for high-density GRP model.
- Package: 2 units.
- Installation: accessories included.

MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
CER060	60 cm	60 cm	13 cm	23.7 Kg
CER060 (GRP)	60 cm	60 cm	13 cm	17.6 Kg

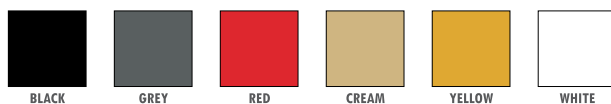
DIFFUSION - ABSORPTION COEFFICIENT

	0.04	0.08	0.24	0.37	0.42	0.46	0.48	0.49	0.57	0.62	0.63	0.66	0.72	0.78	0.81	0.80	0.83	0.83	0.85	0.89	0.87	0.81	0.76	0.70	0.67
α_S	0.01	0.06	0.07	0.18	0.27	0.38	0.31	0.14	0.12	0.16	0.13	0.14	0.17	0.21	0.34	0.46	0.41	0.37	0.34	0.36	0.37	0.33	0.27	0.23	0.22

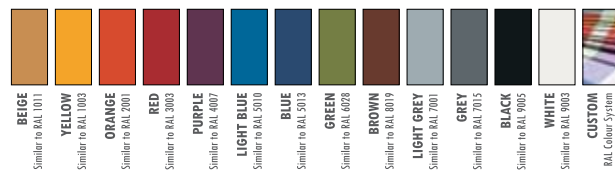


■ ABSORPTION COEFFICIENT: Values in accordance with the standards: EN 20654, ASTM C423 and EN 11654. ■ Values [$<100\text{Hz}$ and $>5\text{K}$] are Non Standard Values.
 ■ DIFFUSION COEFFICIENT: These values were obtained by mathematical calculations and tests carried out in our laboratory.

STANDARD CERAMIC COLOURS



STANDARD GRP COLOURS



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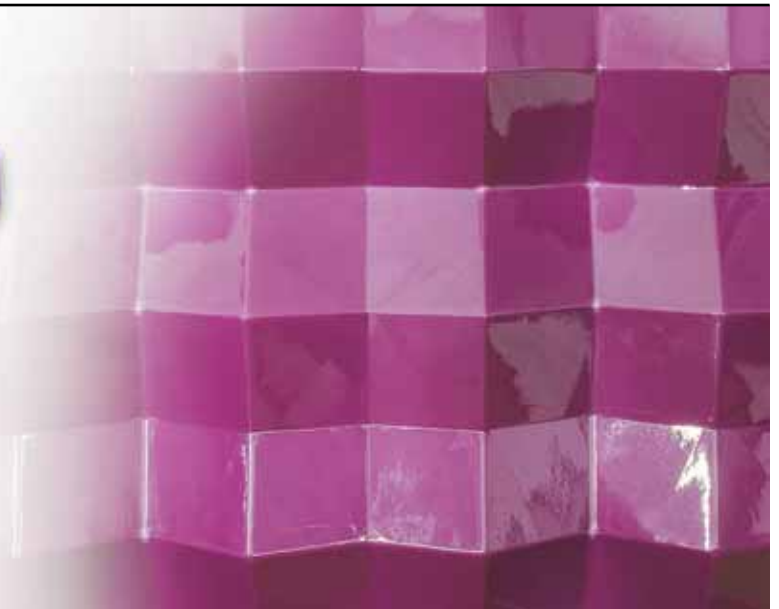


Image of 60x60cm model Ref.:DIA060.

DESCRIPTION

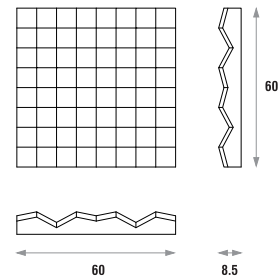
The DIAMOND® is a 3D-controlled dispersion multidirectional reflection panel with a depth factor that is logarithmically varied. It is, therefore, a three-dimension omnidirectional reflection panel that controls primary reflections and fragments the energy in 64 vertices of incidence by using the theoretical numerical sequence ratio of the primitive root as a basis for calculation.

It is built with ABS recyclable material, and its modular design makes it a particular and high-performance diffuser. The reflection angles were optimised according to mid-size room applications.

The DIAMOND® is an acoustic diffusion element with a lozenge geometry. The front view refers to 64 interconnected polygons with four multiple sound diffusion angles, which determines a diamond shape. It was created in 16 singular modules that have a quadrangular base and different extrusion heights on each corner. The combination of those positions results in a geometrically scattering diffusion pattern with a very attractive shape.

Thus, the DIAMOND® produces exceptional results of sound diffusion effect and provides spaces with considerable sound perception.

TECHNICAL DRAWINGS



FEATURES

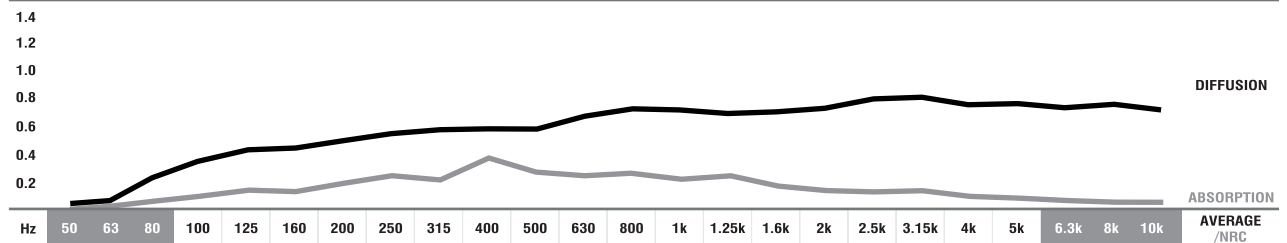
- Manufactured with ABS.
- Average diffusion: **0.63/m²** [$>100\text{Hz}; <5\text{KHz}$].
- Fire-resistance: M2.
- 100% recyclable.
- Package: 2 units.
- Installation: accessories included.

MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
DIA060	60 cm	60 cm	8.5 cm	4.5 Kg

DIFFUSION - ABSORPTION COEFFICIENT

	0.04	0.08	0.24	0.35	0.44	0.46	0.50	0.55	0.58	0.59	0.58	0.66	0.72	0.71	0.69	0.70	0.73	0.79	0.80	0.75	0.76	0.73	0.75	0.71	0.63
α_S	0.01	0.03	0.06	0.10	0.15	0.14	0.20	0.25	0.23	0.38	0.29	0.25	0.27	0.22	0.25	0.19	0.13	0.13	0.14	0.10	0.09	0.06	0.05	0.05	0.22

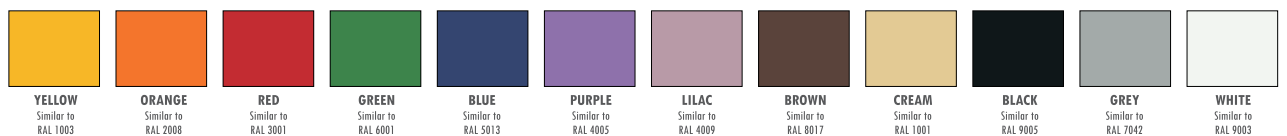


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■ Values [$<100\text{Hz}$ and $>5\text{K}$] are Non Standard Values.

■ DIFFUSION COEFFICIENT: These values were obtained by mathematical calculations and tests carried out in our laboratory.

STANDARD ABS COLOURS



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- 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.
- Sizes may vary slightly due to their production method and some inherent raw-materials characteristics.



DYNAMICFLOW® DIFFUSION PANEL



Image of 60x60cm model Ref.:DYN060.

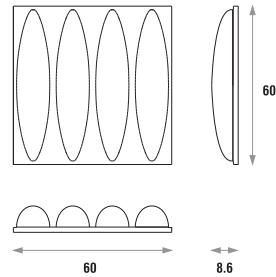
DESCRIPTION

JOCAVI® has developed this acoustic diffusion panel by using non-linear convex shapes, based on a set of three ellipses which were later altered and optimised in order to achieve an oval shape with better angular diffusion coverage.

The external raw material of this panel was selected out of some materials that have the fastest and most specific properties required for a diffuser with these characteristics. However, the ABS still has some advantages, namely UV protection, impact resistance and fire resistance M2.

The DYNAMICFLOW®'s interior is composed of a substance made of impregnated mineral fibres and textiles, which gives this product a specific mass and also contributes to its consistence. The back part consists of an even surface. Its shape adjusts to even surfaces. It can be used on "T" profile false ceilings or on walls, by using our glues or fastening materials.

TECHNICAL DRAWINGS



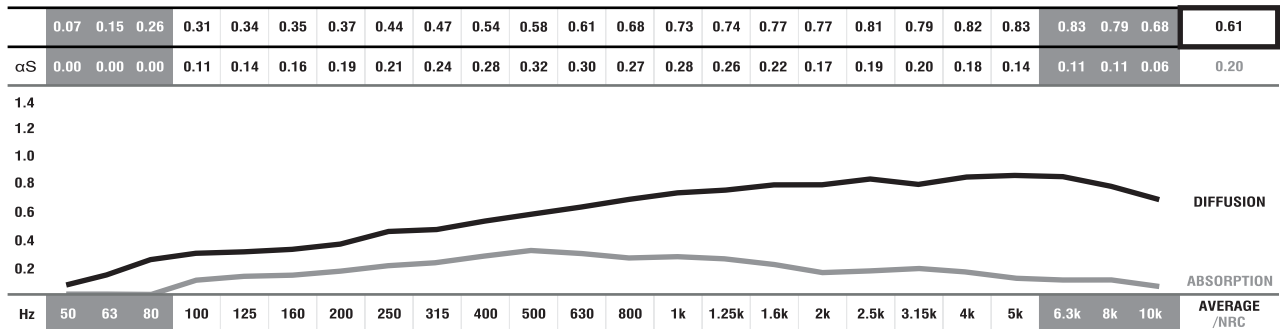
FEATURES

- Manufactured with ABS.
- Average diffusion: **0.61/m²** [$>100\text{Hz}$; $<5\text{KHz}$].
- Fire-resistance: M2.
- 100% recyclable.
- Package: 2 and 4 units.
- Installation: accessories included.

MODELS AND SIZES

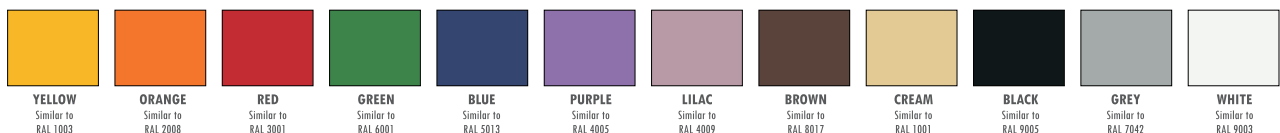
MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
DYN060	60 cm	60 cm	9.5 cm	4.3 Kg

DIFFUSION - ABSORPTION COEFFICIENT



■ ABSORPTION COEFFICIENT: Values in accordance with the standards: EN 20654, ASTM C423 and EN 11654. ■ Values [$<100\text{Hz}$ and $>5\text{K}$] are Non Standard Values.
 ■ DIFFUSION COEFFICIENT: These values were obtained by mathematical calculations and tests carried out in our laboratory.

STANDARD ABS COLOURS



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- Sizes may vary slightly due to their production method and some inherent raw-materials characteristics.





Image of 60x60cm model Ref.:TFX060.

DESCRIPTION

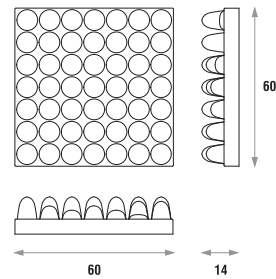
TWO®FX is an acoustic diffusion panel for High-End Studios and High-Performance room's applications.

The diffusion pattern is based on a sequence of the 7 musical notes followed by a mathematical routine of transpositions, inversions and retrogrades. The shapes of the component parts are predominantly convex, but there are also some concave, they never repeat the positioning before the end of the sequence of the notes' cadence.

During 5 years of the production of the TWO®FX, this model was made on HIPS. Now, JOCAVI® improves this model's characteristics using GRP as raw-material. This model updated on GRP, increases the mass that helps to improve his diffusion acoustic performance.

TWO®FX provides features of a beautiful diffusion surface with highly musical characteristics, simultaneously.

TECHNICAL DRAWINGS



FEATURES

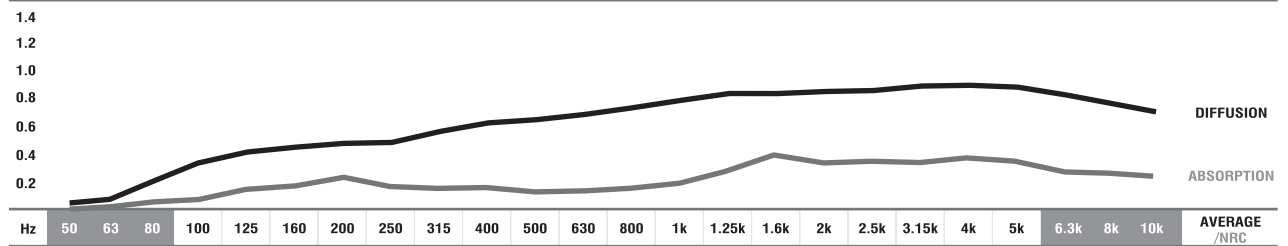
- Manufactured with GRP.
- Average diffusion: **0.68/m²** [$>100\text{Hz}; <5\text{KHz}$].
- Fire-resistance: M1
- 100% recyclable.
- Package: 2 units.
- Installation: accessories included.

MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
TFX060	60 cm	60 cm	14 cm	8.2 Kg

DIFFUSION - ABSORPTION COEFFICIENT

	0.04	0.08	0.21	0.35	0.42	0.46	0.48	0.49	0.57	0.62	0.63	0.67	0.73	0.78	0.82	0.82	0.84	0.85	0.87	0.89	0.87	0.81	0.76	0.70	0.68
α_S	0.00	0.01	0.05	0.07	0.15	0.19	0.24	0.18	0.15	0.16	0.13	0.14	0.16	0.20	0.29	0.40	0.34	0.35	0.34	0.38	0.36	0.29	0.27	0.25	0.21

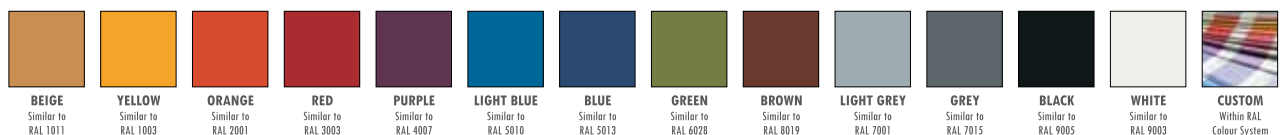


■ ABSORPTION COEFFICIENT: Values in accordance with the standards: EN 20654, ASTM C423 and EN 11654.

■ Values [$<100\text{Hz}$ and $>5\text{K}$] are Non Standard Values.

■ DIFFUSION COEFFICIENT: These values were obtained by mathematical calculations and tests carried out in our laboratory.

STANDARD GRP COLOURS



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Image of 60x60cm model Ref.:RPL060.

DESCRIPTION

The RIPPLE® was especially designed to have both absorption and diffusion features, balancing these two assets perfectly. It has a great diffusion pattern as well as very interesting and particular absorption characteristics.

The RIPPLE® is an essential product when you require a magnificent and controlled high-frequency sound, adding at the same time some absorption to the mid-range of the sound spectrum.

The RIPPLE® enables us to create uniform surfaces with a single model that softly absorbs the sound waves while maintaining the vivacity of the musical instruments' harmonics, which is very important for live and recording mixing techniques.

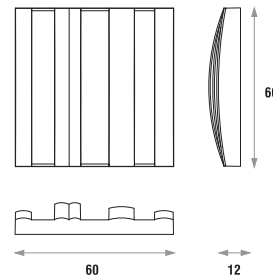
Thus, if you are looking for a superb sound in a room, without compromising absorption, you will certainly reach the required acoustics with this product, by adding a few pieces of low-frequencies bass traps as well.

The most suitable application areas for this product are: music studio rooms, piano and acoustic instruments rooms, live rooms in general, auditoriums, theatres as well as all the spaces that need specific care on sound intelligibility.

FEATURES

- Manufactured with ABS and high-quality fabric.
- Average diffusion: **0.59/m²** [$>100\text{Hz}$; $<5\text{kHz}$].
- NRC: **0.39/m²**.
- Recyclable.
- Package: 2 and 4 units.
- Installation: accessories included.
- Several colours available..

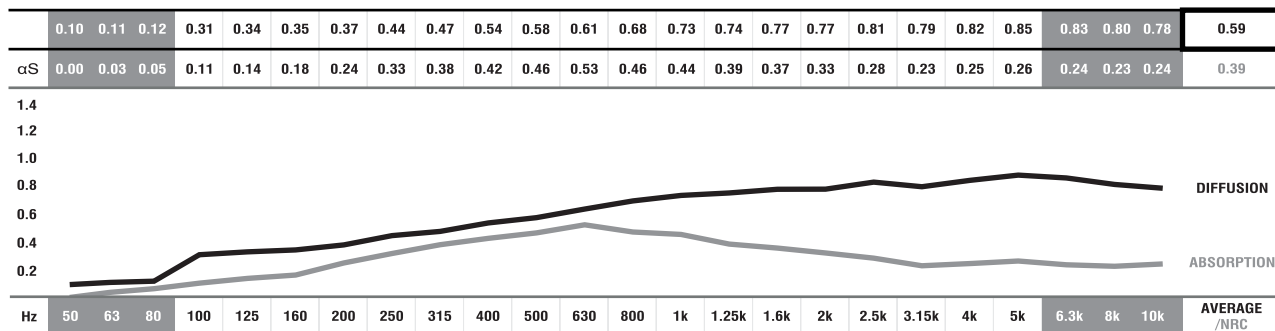
TECHNICAL DRAWINGS



MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
RPL060	60 cm	60 cm	12 cm	4.5 Kg

DIFFUSION - ABSORPTION COEFFICIENT

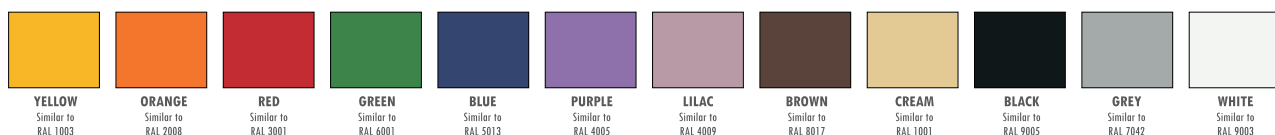


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STANDARD ABS COLOURS



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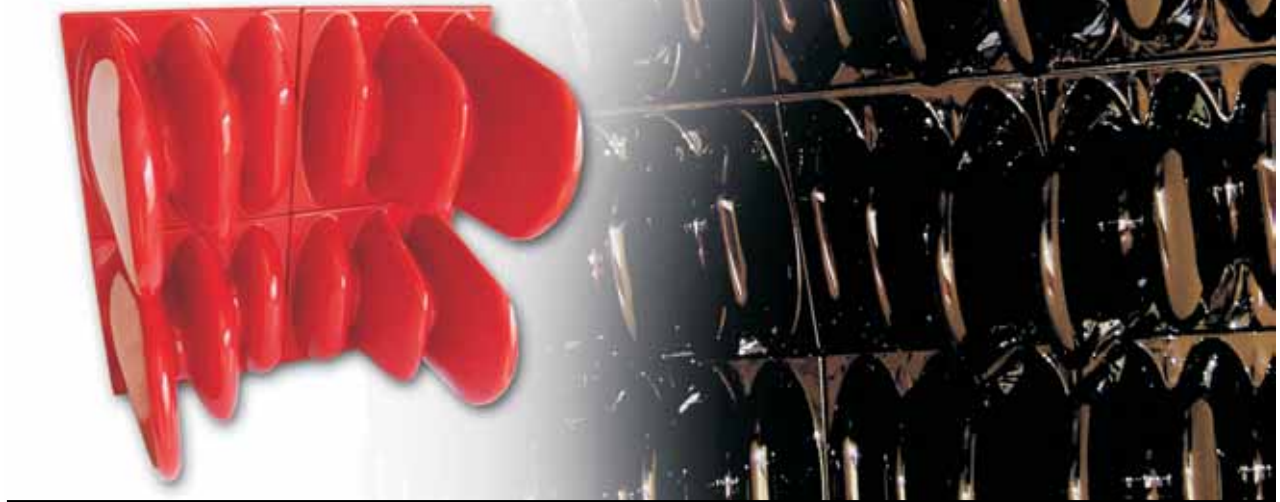


Image of 60x60cm model Ref.:EFX060 (on the left) and 180x120cm Ref.:EFXCOMBI (ambient image).

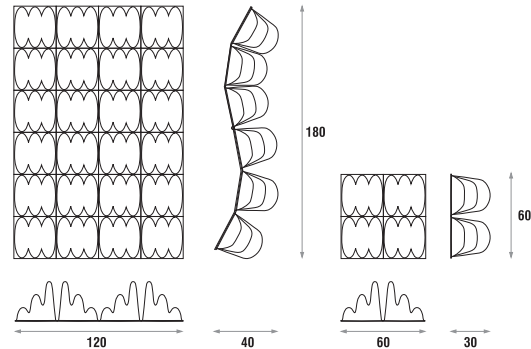
DESCRIPTION

Diffusion shells are acoustic treatment elements used in large volume rooms, such as theatres and auditoriums, where orchestral concerts or mere recitals take place. The installation of these acoustic diffusion components aims to project the natural sound from the instruments and maintain some liveliness in the room's acoustics. JOCAVI's EFFECTFUSER® has been designed at the scale of these needs. It is a large-sized diffuser that provides a very homogeneous diffusion within the diffuse sound spectrum. Due to its shape and depth, the EFFECTFUSER® has a high diffusion coefficient on medium/low frequencies, thus making it more balanced when compared with other diffusers. This piece can be coupled and multiplied in order to suit each room's project. When mounted, several modules must be grouped in order to obtain a diffusion area that is proportional to each space. They are properly positioned on ceilings or walls in order to obtain sound diffusion at the intended angles. EFFECTFUSER® may also be used, like any other JOCAVI® diffusion model, in combination with other models of absorption panels.

FEATURES

- Manufactured with recycled ABS.
- Average diffusion: **0.61/m²** [$>100\text{Hz}; <5\text{KHz}$].
- Fire-resistance: M1.
- 100% recyclable.
- Package: 2 units.
- Installation: accessories included.

TECHNICAL DRAWINGS

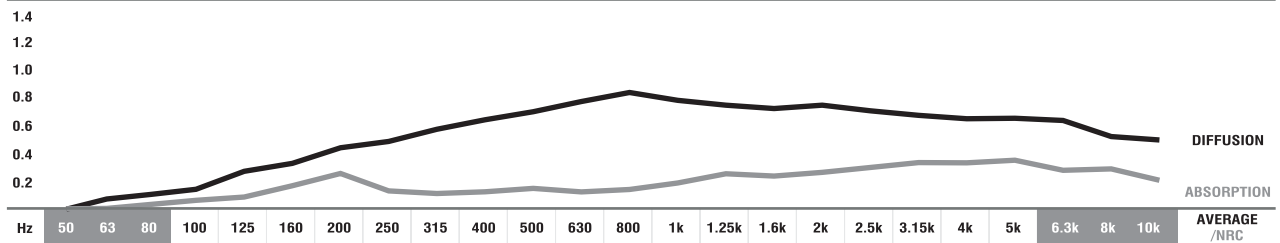


MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
EFXcombi	180 cm	120 cm	40 cm	55.5 Kg
EFX060	60 cm	60 cm	30 cm	5.4 Kg

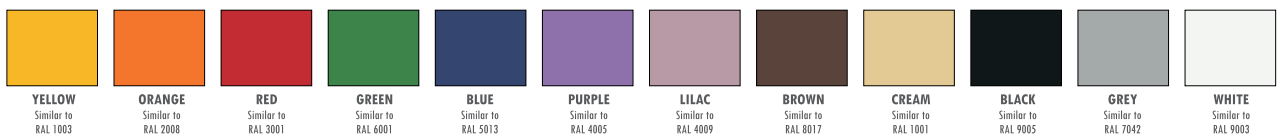
DIFFUSION - ABSORPTION COEFFICIENT

	0.00	0.05	0.11	0.17	0.28	0.36	0.43	0.49	0.58	0.63	0.69	0.76	0.82	0.79	0.74	0.72	0.75	0.71	0.68	0.64	0.65	0.62	0.53	0.50	0.61
α_S	0.00	0.01	0.02	0.08	0.10	0.18	0.26	0.15	0.12	0.13	0.16	0.14	0.16	0.20	0.26	0.24	0.27	0.31	0.35	0.35	0.37	0.30	0.31	0.21	0.20



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STANDARD ABS COLOURS



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MELLOWCLOUD® DIF

SUSPENDED DIFFUSION PANEL



Image of Mellowcloud® DIF model Ref.:MELDIF applied (ambient image).

DESCRIPTION

The MELLOWCLOUD® DIF is a One Dimensional Curved Shaped Diffuser Acoustic panel for Multipurpose, Auditoriums and Theatre Halls.

This is a product was devised to be suspended in ceilings or metal grids; it can be also used as fixed or motorized acoustic shells. This type of acoustic material is mainly applied in large area of application such as auditoriums, conference rooms, multipurpose rooms and airports, places where acoustic treatment with a modular continuous surface is required.

It is a diffuser material that also provides somewhat of homogenous sound spectrum absorption. The MELLOWCLOUD® DIF evolves and meets the aesthetic challenge, while also offering an optimal sound diffusion and absorption characteristics.

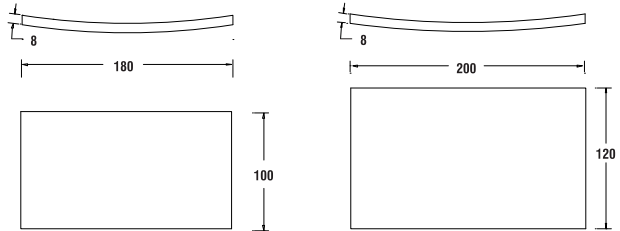
The architecture involves rectilinear and curvilinear lines. Flat rigid surfaces provide uneven sound pressure across the audience area. Shaping and curving the surfaces can improve the coverage of the sound diffusion; this will help the results, although it is a vast subject that requires its own tools of experimentation on case-by-case base for each project. MELLOWCLOUD® DIF provides architects and designers with wide latitude in curvilinear design.

MELLOWCLOUD® DIF can be customized as to its shape and size to better adapt to each space. Custom panels offer in a variety of types, sizes, ellipses, geometric shapes, vaults, acoustical domes, thicknesses, and finishes.

FEATURES

- Standard and custom shapes.
- Optimized shape, arraying and positioning insures uniform coverage.
- Average diffusion: **0.37/m²** [$>100\text{Hz}$; $<5\text{KHz}$].
- NRC: **0.18/m²**.
- Suspended using Integrated mounting hardware and cable system (only four supports/hangers by each panel).
- JCP® micro-fibers glass and gypsum reinforced and finishing, meets Class A fire rating.
- Very lightweight (4 Kg/m² - 80 mm thick panel)

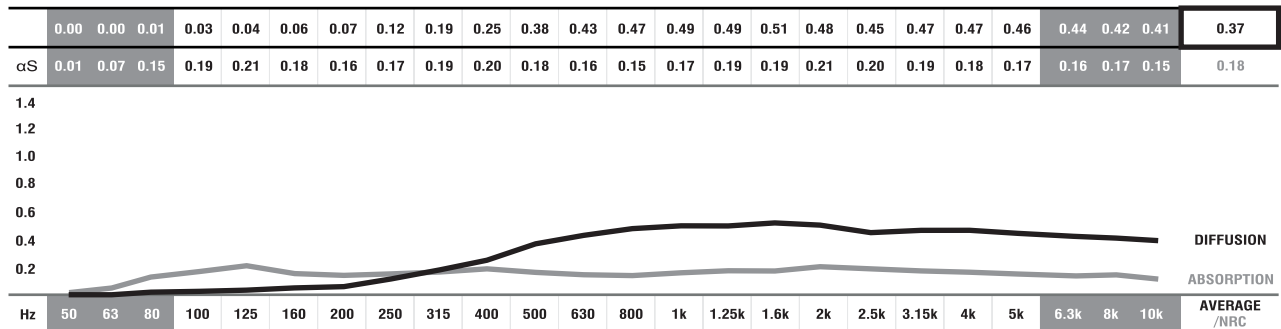
TECHNICAL DRAWINGS



MODELS AND SIZES

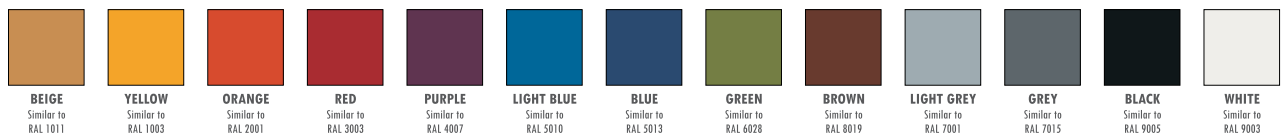
MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
MELDIF200	200 cm	120 cm	8 cm	14 Kg
MELDIF180	180 cm	100 cm	8 cm	9 Kg

DIFFUSION - ABSORPTION COEFFICIENT



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

STANDARD FINISHING COLOURS



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WOODFOIL® / WOODFOIL® Ab

DIFFUSION PANEL



Image of 60x60cm models Ref.:WFL060 and WFL060Ab (on the left) and 60cm Ref.:WFL060Ab (ambient image).

DESCRIPTION

The Woodfoil® is a slightly concave diffusion panel, made of varnished birch plywood on a soft wood structure.

This diffuser is great to be used in concert halls, such as theatres and auditoriums, and is ideal for building acoustic diffusion shells.

This model has two options: the Woodfoil® diffusion panel, which is made of plain birch plywood, and the Woodfoil®Ab, which has different holes that provide it with a higher absorption coefficient.

Its format allows us to make the appropriate adjustment, by using several panels and positions through 90° rotations, in order to obtain the goals required for each room.

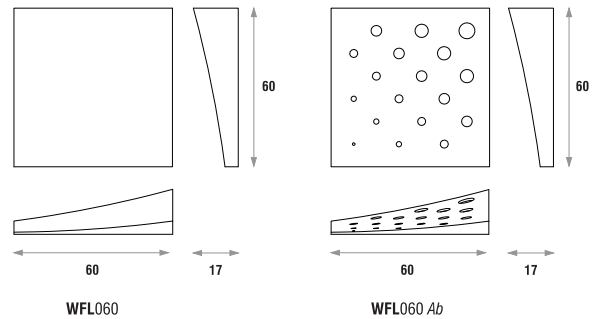
Both the angle and the gyrate of this piece were calculated to provide a more versatile use. When using multiple pieces jointly, the angle of incidence never is too convergent, thus providing a homogeneous scattering diffusion of sound energy, which contrasts with other models from our brand that have a different development conception.

The Woodfoil® is available in various wood finishings or regular colours, as an option, thus allowing an appropriate background for each space. The mounting process is rather easy by simply using the docking accessories that are supplied.

FEATURES

- Manufactured with Birch Plywood.
- Two options: Woodfoil® (diffusor) Woodfoil®Ab (diffusion with absorption characteristics).
- **NRC: 0.23/m² (WFL060); 0.62/m² (WFL060Ab)**
- Woodfoil® Average diffusion: **0.68/m²** [$>100\text{Hz}; <5\text{KHz}$].
- Woodfoil®Ab Average diffusion : **0.51/m²** [$>100\text{Hz}; <5\text{KHz}$].
- Package: 2 or 4 units.
- Installation: accessories included.

TECHNICAL DRAWINGS

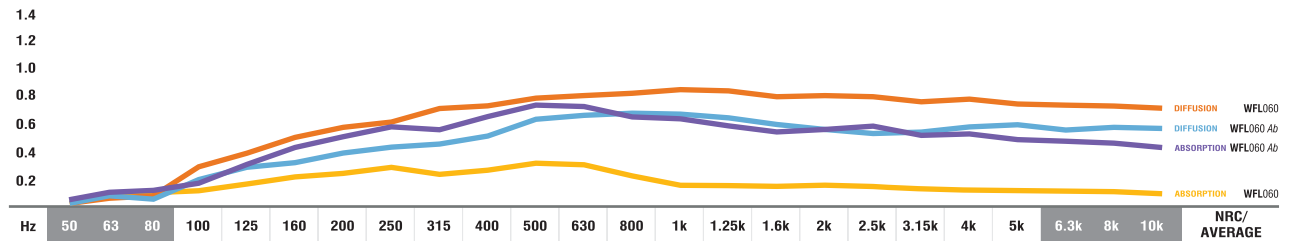


MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
●● WFL060	60 cm	60 cm	17 cm	2.9 Kg
●● WFL060 Ab	60 cm	60 cm	17 cm	2.8 Kg

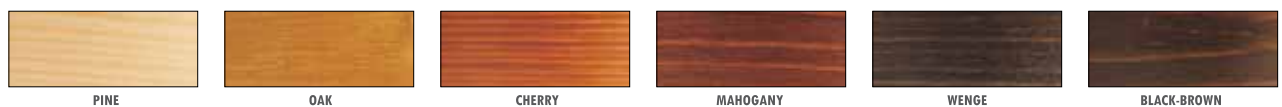
DIFFUSION - ABSORPTION COEFFICIENT

WFL060	0.02	0.05	0.08	0.28	0.38	0.47	0.56	0.60	0.68	0.71	0.77	0.79	0.80	0.83	0.81	0.78	0.79	0.78	0.76	0.77	0.75	0.74	0.72	0.70	0.68
αS	0.03	0.07	0.10	0.12	0.17	0.22	0.25	0.28	0.24	0.26	0.31	0.28	0.22	0.17	0.16	0.15	0.16	0.15	0.14	0.13	0.12	0.11	0.10	0.08	0.23
WFL060Ab	0.01	0.04	0.06	0.20	0.28	0.32	0.38	0.42	0.44	0.50	0.61	0.63	0.65	0.64	0.62	0.59	0.57	0.54	0.55	0.58	0.59	0.55	0.57	0.56	0.51
αS	0.04	0.08	0.12	0.18	0.29	0.41	0.50	0.57	0.55	0.63	0.72	0.69	0.63	0.62	0.58	0.56	0.57	0.58	0.54	0.52	0.48	0.47	0.45	0.41	0.62



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 ●● DIFFUSION COEFFICIENT: These values were obtained by mathematical calculations and tests carried out in our laboratory.

WOOD VENEER FINISHINGS



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- 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.
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WOODIFFUSOR® DIFFUSION PANEL



Image of 60x60cm model Ref.:WOD060.

DESCRIPTION

This wooden diffusion panel is the result of a long design and analysis process and one of JOCAVI's options in terms of diffusion panels. The use of this extremely efficient panel is imperative to control primary reflections and other reflections from front walls, thus improving correct sound diffusion in the room.

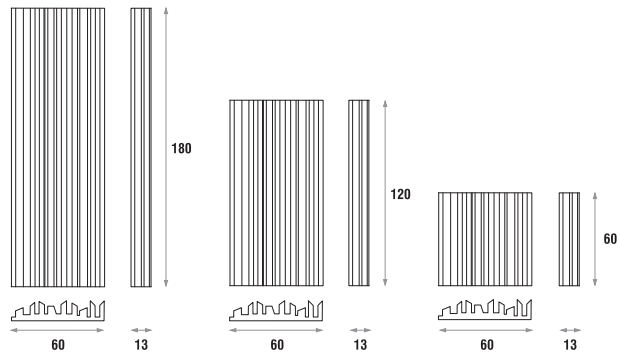
The WOODIFFUSOR® is a 2D diffusion panel that focuses on controlling horizontal dispersion and is efficient in a wide range of frequencies. It is based on the rotation sequence of primary incidence angles, thereby making sound diffusion uniform in several directions with similar energy.

This panel is made of solid pinewood with a finish of five different colours of varnish. The wood stands out inside the rooms and makes this product look very attractive, both acoustically and aesthetically.

FEATURES

- Manufactured with self-sustainable forest wood.
- Average diffusion: **0.59/m²** [$>100\text{Hz}; <5\text{kHz}$].
- Finished with ecological varnishes.
- 100% recyclable.
- Package: 2 units.
- Installation: accessories included.

TECHNICAL DRAWINGS



MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
WOD180	180 cm	60 cm	13 cm	57 Kg
WOD120	120 cm	60 cm	13 cm	38 Kg
WOD060	60 cm	60 cm	13 cm	19 Kg

DIFFUSION - ABSORPTION COEFFICIENT

	0.04	0.11	0.29	0.44	0.48	0.53	0.55	0.54	0.57	0.63	0.60	0.64	0.70	0.72	0.71	0.73	0.75	0.63	0.50	0.47	0.35	0.31	0.27	0.23	0.59
α_S	0.00	0.06	0.07	0.05	0.06	0.16	0.15	0.14	0.10	0.13	0.15	0.16	0.18	0.22	0.28	0.24	0.24	0.22	0.21	0.25	0.26	0.11	0.08	0.07	0.19

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NATURAL WOOD COLOURS



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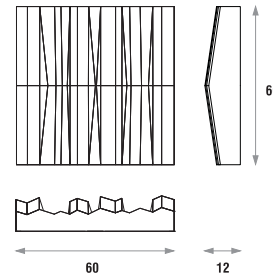


Image of 60x60cm model Ref.:TNF060.

DESCRIPTION

JOCAVI® is presenting this design proposal on diffusion products which is not as common. This has been done on the basis of the positive aspects of complex-shaped diffusers and the tasks carried out in the field of diffusion, to the detriment of the usual numerical sequences that are repeated to build diffusers. When a diffuser has a complex structure, as opposed to the identical or retrograde repetitions, it adopts algorithms that originate a series of N elements, thus causing an optimal musical characteristic. Numerically structured diffusers scatter the sound effectively but have some inherent associated absorption. This model is meant to be an acoustic diffuser with the best scattering features possible coupled with the lowest absorption coefficient. This new model has abrupt joints with planes that lean on each other, which are always different, but do not cause big concavities or parallelisms. Design was an ever present concern in the manufacture of this product, in order not to make it unwanted due to its shape, regardless of its obvious use.

TECHNICAL DRAWINGS



FEATURES

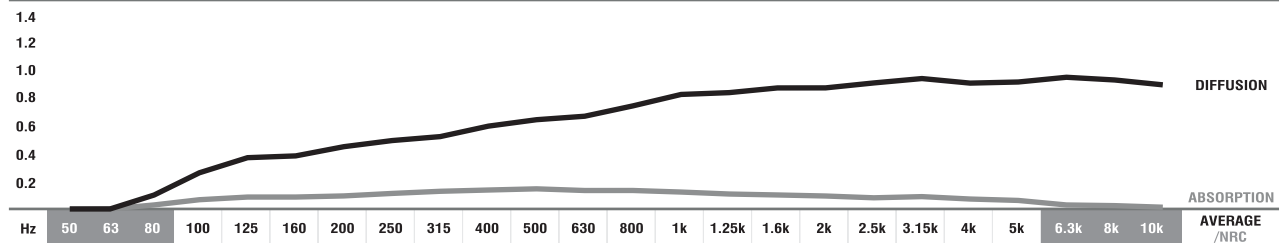
- Manufactured with ABS.
- Average diffusion: **0.68/m²** [$>100\text{Hz}; <5\text{KHz}$].
- Fire-resistance: M1.
- 100% recyclable.
- Package: 2 units.
- Installation: accessories included.

MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
TNF060	60 cm	60 cm	12 cm	4.1 Kg

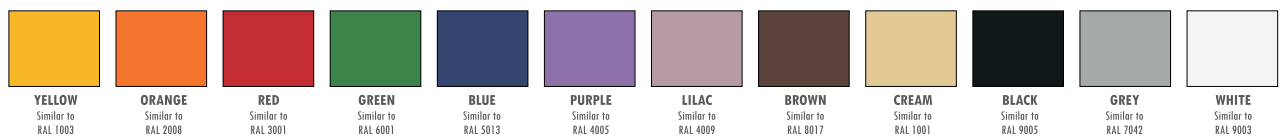
DIFFUSION - ABSORPTION COEFFICIENT

	0.00	0.00	0.16	0.34	0.38	0.39	0.44	0.49	0.52	0.60	0.64	0.68	0.76	0.81	0.82	0.86	0.86	0.90	0.93	0.91	0.92	0.96	0.93	0.91	0.68
α_S	0.00	0.00	0.02	0.08	0.09	0.09	0.10	0.12	0.13	0.14	0.15	0.14	0.14	0.13	0.11	0.10	0.09	0.08	0.09	0.08	0.07	0.05	0.04	0.03	0.12



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STANDARD ABS COLOURS



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Image of 60x60cm model Ref.:PLR060.

DESCRIPTION

Plura® is an acoustic diffusion panel, manufactured in ABS on an absorbent filling box. His design has a geometry that reproduces symmetry at a 180 rotation. It consists of a combination of two ellipses in one bent hollow, thus giving it a predominantly round shape with tenuous angles, which is good for diffusion.

Plura® is meant to diffuse mid and mid-high frequencies. When using multiple pieces jointly on a continuous area, it improves its sound diffusion efficiency. Amazing diffusion effect can be obtained when used in large rooms. We can make several different aesthetic combination effects by rotating the panels 90° or 180° and positioning them according to one's taste and to the room's requirements.

The inner part of this model is made on a composite substance of impregnated mineral fibers and textiles, which gives this product a specific mass and also contributes to its consistence.

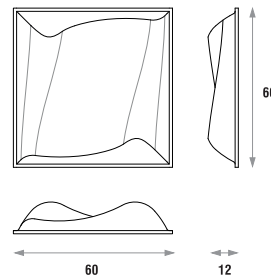
The external raw material of this panel was selected out of some materials that have the fastest and most specific properties required for a diffuser with these characteristics, however the ABS still has some advantages, namely UV protection, impact resistance and fire resistance M2.

The back part consists of a flat surface, which includes the mounting accessories. Its shape adjusts to even surfaces.

FEATURES

- Manufactured with ABS.
- Average diffusion: **0.67/m²** [$>100\text{Hz}$; $<5\text{KHz}$].
- Fire-resistance: M1.
- 100% recyclable.
- Package: 2 and 4 units.
- Installation: accessories included.
- T-Ceiling application.
- Easy to install.

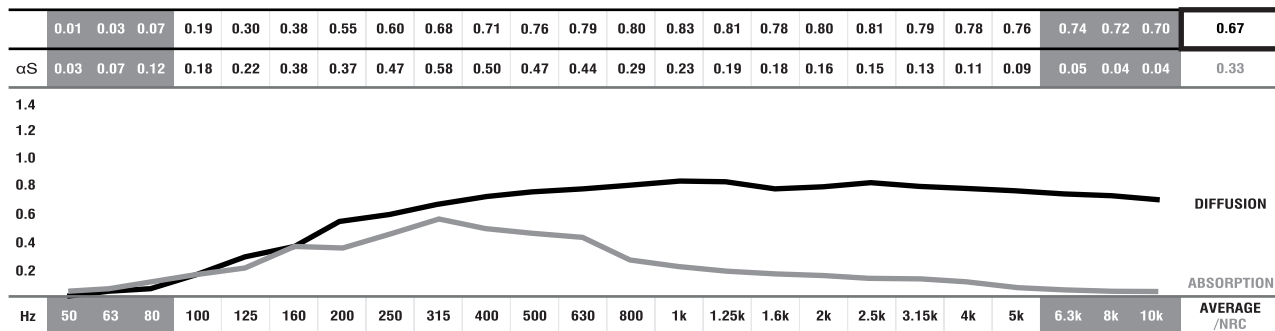
TECHNICAL DRAWINGS



MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
PLR060	60 cm	60 cm	12 cm	4.3 Kg

DIFFUSION - ABSORPTION COEFFICIENT

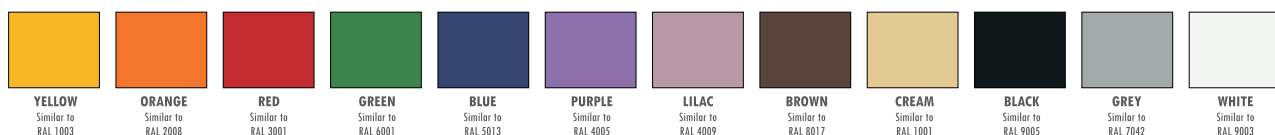


■ ABSORPTION COEFFICIENT: Values in accordance with the standards: EN 20654, ASTM C423 and EN 11654.

■ Values [$<100\text{Hz}$ and $>5\text{K}$] are Non Standard Values.

■ DIFFUSION COEFFICIENT: These values were obtained by mathematical calculations and tests carried out in our laboratory.

STANDARD ABS COLOURS



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- 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.
- Sizes may vary slightly due to their production method and some inherent raw-materials characteristics.

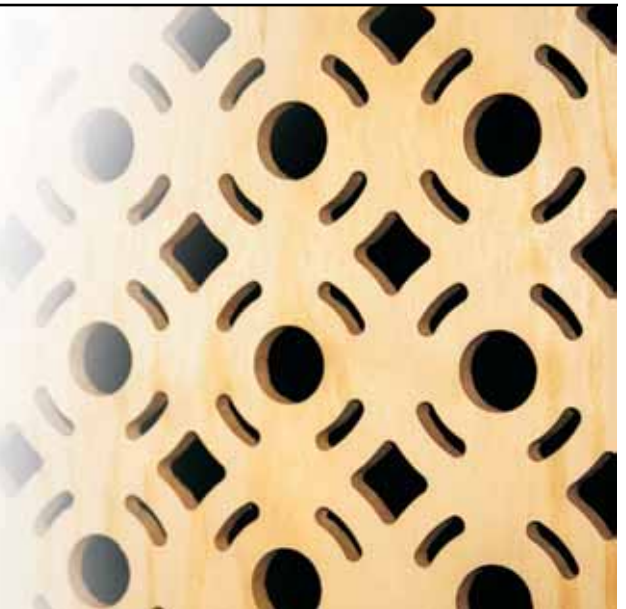
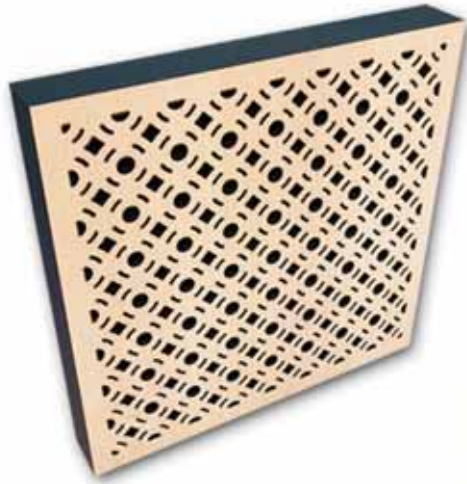


Image of 60x60cm model Ref.:ADDG060 (on the left) and Ref.:ADDG060 (ambient image).

DESCRIPTION

This panel is mainly used for application in auditoriums, conference rooms, multipurpose rooms, places where acoustic treatment with a continuous coating surface is required. It is an absorbent panel that provides a relevant balance in the mid-range of the sound spectrum and also combines features of a unidirectional diffuser.

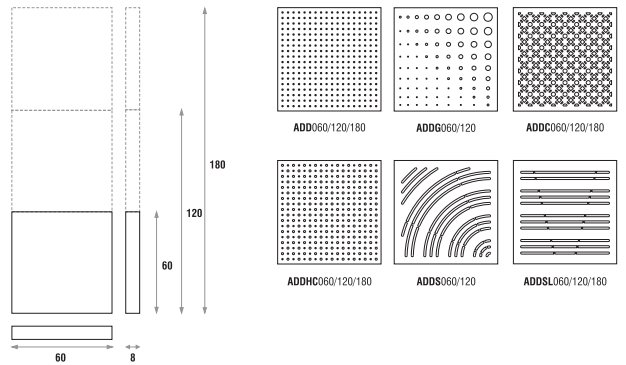
There are six types of perforations that give this product several aesthetic and acoustic variants.

This product uses three absorbent materials inside it which have different densities that allow different degrees of permeability, thus making it more efficient at absorbing sound. In large areas, its application may be continuous or modular, thus combining features of other products from this catalogue.

Although this panel is manufactured in standard sizes, other measurements can be considered depending on each project.

This product is very popular because the use of wood in rooms makes them look comfortable.

TECHNICAL DRAWINGS



FEATURES

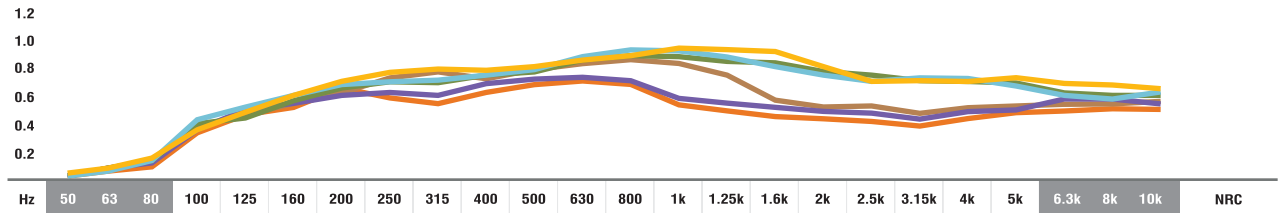
- Uses 80% of recycled materials.
- NRC : (ADD 0.56/m²), (ADDHC 0.71/m²), (ADDG 0.60/m²) (ADDG 0.78/m²), (ADDSL 0.79/m²), (ADDC 0.81/m²).
- 100% recyclable.
- Fire-resistance: M2.
- Package: 2 and 4 units.
- Installation: accessories included.
- Other sizes are available on demand.

MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
ADD060/120/180	60/120/180 cm	60 cm	8 cm	6.3/12.6/18.9 Kg
ADDHC060/120/180	60/120/180 cm	60 cm	8 cm	6.3/12.6/18.9 Kg
ADDG060/120	60/120 cm	60 cm	8 cm	6.3/12.6 Kg
ADDS060/120	60/120 cm	60 cm	8 cm	6.3/12.6 Kg
ADDSL060/120/180	60/120/180 cm	60 cm	8 cm	6.3/12.6/18.9 Kg
ADDC060/120/180	60/120/180 cm	60 cm	8 cm	6.3/12.6/18.9 Kg

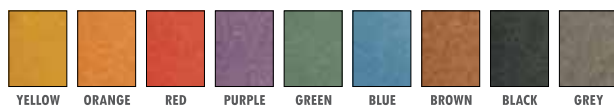
ABSORPTION COEFFICIENT

• αS	0.04	0.07	0.09	0.36	0.47	0.52	0.66	0.59	0.55	0.63	0.67	0.70	0.67	0.55	0.50	0.46	0.44	0.41	0.39	0.44	0.48	0.49	0.51	0.50	0.56
• αS	0.04	0.08	0.15	0.39	0.47	0.54	0.61	0.72	0.75	0.71	0.79	0.81	0.84	0.81	0.76	0.57	0.52	0.55	0.49	0.52	0.54	0.55	0.55	0.57	0.71
• αS	0.04	0.08	0.12	0.37	0.50	0.54	0.60	0.61	0.60	0.67	0.70	0.72	0.68	0.59	0.56	0.51	0.49	0.48	0.44	0.48	0.50	0.58	0.58	0.56	0.60
• αS	0.02	0.08	0.15	0.39	0.46	0.55	0.63	0.69	0.67	0.72	0.78	0.83	0.87	0.86	0.84	0.83	0.77	0.74	0.72	0.69	0.68	0.62	0.60	0.60	0.78
• αS	0.03	0.06	0.15	0.41	0.48	0.59	0.65	0.70	0.68	0.72	0.79	0.86	0.91	0.89	0.85	0.80	0.76	0.70	0.74	0.71	0.67	0.60	0.59	0.61	0.79
• αS	0.04	0.07	0.16	0.36	0.49	0.60	0.67	0.75	0.79	0.78	0.80	0.85	0.86	0.90	0.92	0.90	0.79	0.74	0.72	0.69	0.71	0.68	0.66	0.64	0.81



• • • • • ABSORPTION COEFFICIENT: Values in accordance with the standards: EN 20654, ASTM C423 and EN 11654. ■ Values [$< 100\text{Hz}$ and $> 5\text{K}$] are Non Standard Values.

ENGINEERED COLOURED WOOD COLOURS



WOOD VENEER FINISHINGS



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- 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.
- 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.

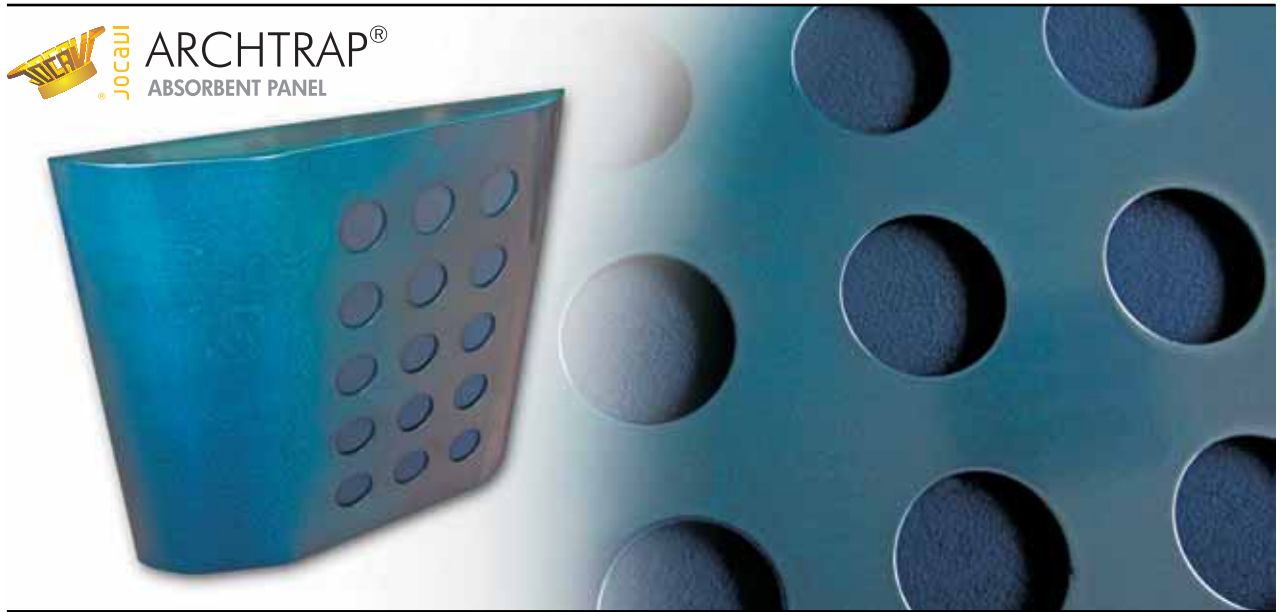


Image of 60x60cm model Ref.:ARC060.

DESCRIPTION

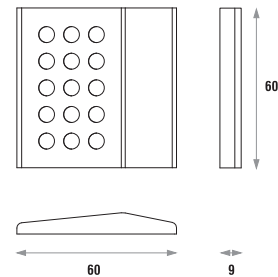
The ARCHTRAP® is a flat-shaped acoustic absorbent panel, made with birch plywood on a calculated absorbent box. This panel is meant to absorb mid-low range frequencies. Its shape is the same as the ATP® Snowsorb® and both can be used together to achieve numerous sound absorption solutions.

We can make several different aesthetic effects by rotating the panels 90° degrees and positioning them according to one's taste and to the room requirements.

As this panel is made of varnished birch plywood, it also provides some scattering diffusion. When using multiple pieces jointly, the angle of incidence never is too convergent which leads to a homogeneous sound scattering.

This piece is available in various wood finishings or regular colours, thus allowing an appropriate background for each space. The mounting process is rather easy by simply using the docking accessories' screws that are supplied.

TECHNICAL DRAWINGS



FEATURES

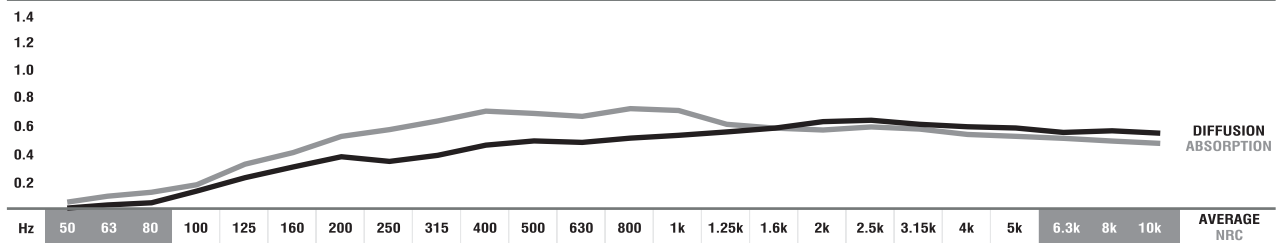
- Manufactured in birch plywood.
- NRC: **0.63/m²**.
- Average diffusion: 0.48/m² [$>100\text{Hz}; <5\text{KHz}$].
- Recyclable.
- Package: 2 and 4 units.
- Installation: accessories included.
- Several colours available.

MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
ARC060	60 cm	60 cm	9 cm	5 Kg

DIFFUSION - ABSORPTION COEFFICIENT

	0.01	0.03	0.05	0.15	0.23	0.30	0.38	0.37	0.39	0.46	0.49	0.48	0.50	0.51	0.54	0.59	0.61	0.62	0.60	0.59	0.58	0.55	0.56	0.55	0.48
α_S	0.04	0.09	0.13	0.18	0.31	0.40	0.51	0.57	0.61	0.69	0.68	0.66	0.71	0.69	0.60	0.58	0.57	0.58	0.57	0.54	0.50	0.49	0.47	0.46	0.63



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■ DIFFUSION COEFFICIENT: These values were obtained by mathematical calculations and tests carried out in our laboratory.

WOOD VENEER FINISHINGS



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- 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 their production method and some inherent raw-materials characteristics.



ADDSORB® REV

ABSORBENT PANEL

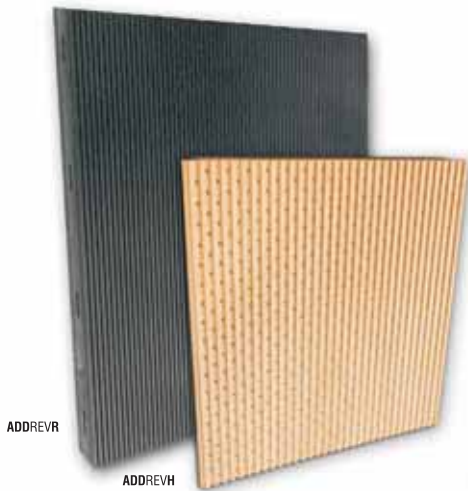


Image of Addsoorb® REV models Ref.:ADRV colour and Ref.:ADRH wood (on the left) and Ref.:ADRH colour (ambient image).

DESCRIPTION

The ADDSORB REV® revetment is a composite wood veneer finish consisting of a medium/high density coloured fibreboard (VALCHROMAT) which is grooved on the face and perforated on the back, its box interior is filled with a polystyrene absorbent layer. This is a CLASS A fire retardant product.

The ADDSORB REV® revetment is also available, as an option, in natural wood veneer finish consisting of medium density fibreboard (MDF). This is a CLASS C fire retardant product.

This type of acoustic covering is mainly used for large-scale areas of application: auditoriums, conference rooms, multipurpose rooms, airports, places where acoustic treatment with a continuous coating surface is required.

It is an absorbent panel that relevantly improves absorption in the mid-range of the sound spectrum.

The ADDSORB REV® is presented in both standard and customised sizes providing different aesthetic and acoustic variants. These two finish options give this product a variety of natural wood finishes and colours. Due to their slots, the panel joints are invisible because of the change in geometry of the panel edges, and when carefully installed the surfaces can appear uniform.

The acoustic absorption coefficients are achieved by combining the percentage of the plate's grooves and perforation with the polystyrene absorbent layer. The acoustic performance may be increased if the product is applied with an air space between the product and the main wall or ceiling.

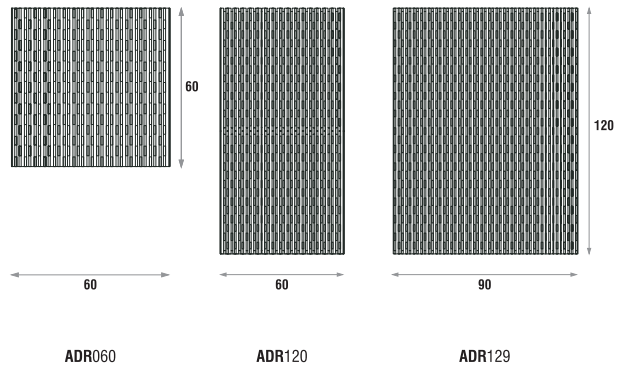
The ADDSORB REV® is available for both ceiling and wall applications. It can be installed using the standard metal ceiling suspension system or direct fixing to the concrete surface using our accessories.

JOCAVI® can customize the sizes, perforations, colours and finishes, according to each specific project, but a minimum amount is required.

FEATURES

- Standard and customised grooves and perforations.
- Finish: Coloured wood veneer and wood finishings.
- NRC : (ADDREVR 0.74/m²), (ADDREHV 0.77/m²).
- Perforations (%): (ADDREVR 25,8%), (ADDREHV 11,2%).
- Fire-resistance: Valchromat - Class A and MDF+Wood Class C.
- Package: 6 and 12 units.
- 100% recyclable
- Installation: metal or wood bars, glues and/or screws, can be provided.
- Other sizes are available on demand, between dimensions of: Min. 60x60x4,2cm - Max. 180x120x4,2cm

TECHNICAL DRAWINGS

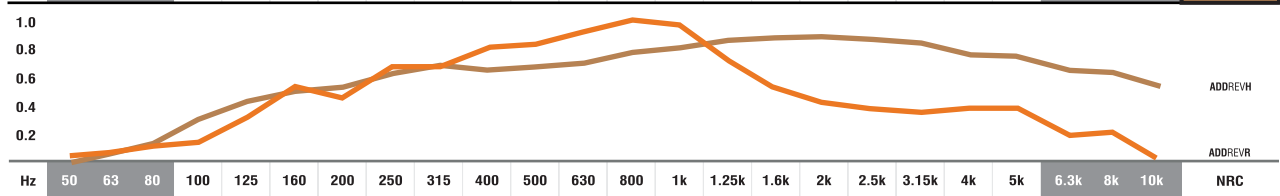


MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
• ADRR060	60 cm	60 cm	4,6 cm	4,3 Kg
• ADRR120	120 cm	60 cm	4,6 cm	8,7 Kg
• ADRR129	120 cm	90 cm	4,6 cm	13 Kg
• ADRH060	60 cm	60 cm	4,6 cm	4 Kg
• ADRH120	120 cm	60 cm	4,6 cm	8 Kg
• ADRH129	120 cm	90 cm	4,6 cm	12 Kg

ABSORPTION COEFFICIENT

• αS	0.06	0.07	0.12	0.15	0.33	0.54	0.46	0.68	0.68	0.82	0.87	0.92	1.01	0.98	0.71	0.54	0.42	0.39	0.36	0.39	0.39	0.20	0.22	0.02	0.74
• αS	0.01	0.07	0.15	0.31	0.44	0.53	0.55	0.65	0.70	0.68	0.69	0.72	0.79	0.83	0.88	0.89	0.90	0.89	0.86	0.77	0.76	0.66	0.65	0.56	0.77



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ENGINEERED COLOURED WOOD COLOURS



WOOD VENEER FINISHINGS



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- 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.
- 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.



Image of 60x60cm models Ref.:EBY060 (on the left) and Ref.:EBY060 (ambient image).

DESCRIPTION

The EBONY® is a medium-frequency acoustic absorption panel. Its convex shape helps to reduce the first convergent angles in rooms. The front part of this model consists of a polyurethane resonant membrane in an air-box. Three other raw-materials with different properties are used inside it.

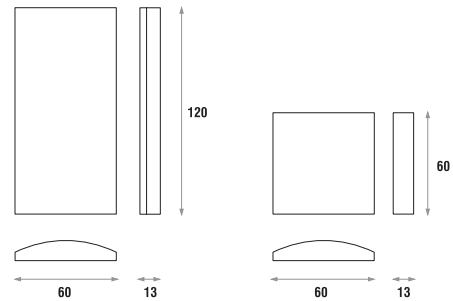
In spite of its small size, the EBONY® also has a reasonable absorption coefficient at low frequencies.

Due to its shape, the absorption panel EBONY® combines to perfection, technically and aesthetically, with the diffuser IVORY®.

This product is meant to be mounted on walls and ceilings and its low weight makes it particularly suitable for ceilings.

The EBONY® is an absorbent panel which is widely efficient in the mid and mid-low range of the sound spectrum.

TECHNICAL DRAWINGS



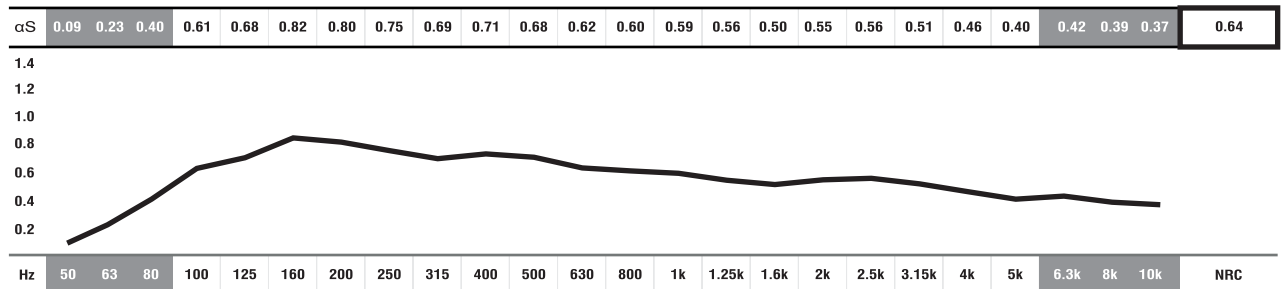
FEATURES

- Uses 55% of recycled materials.
- NRC: **0.64/m²**.
- 100% recyclable.
- Fire-resistance: M1.
- Package: 2 units.
- Installation: accessories included.

MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
EBY120	120 cm	60 cm	13 cm	7.6 Kg
EBY060	60 cm	60 cm	13 cm	3.8 Kg

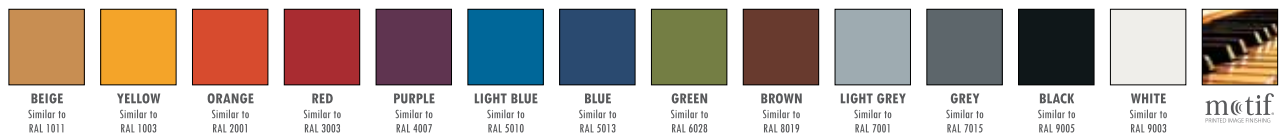
ABSORPTION COEFFICIENT



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■ Values (< 100Hz and > 5K) are Non Standard Values.

STANDARD FABRIC COLOURS



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- 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 their production method and some inherent raw-materials characteristics.



CONVEXABSORBER®

ABSORBENT PANEL



Image of 180x114cm model Ref.:CON180 (on the left) and 180x114cm models applied (ambient image).

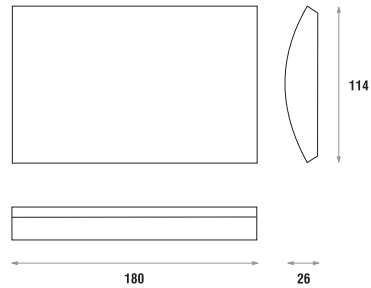
DESCRIPTION

The CONVEXABSORBER® is an absorbent panel which is efficient at absorbing low and medium frequencies. It was designed to be installed on ceilings and walls. It is manufactured by combining two techniques: a box tuned to 200 Hz, which is efficient at low frequencies, and a mathematically studied absorbent labyrinth, which provides this product with an excellent performance in absorbing sound. Given its characteristics, this panel balances reverberation times and echoes in large-sized rooms, auditoriums, etc.. Because of its large and convex shape, it also is a diffuser with a large dispersion surface. When the areas so require, these panels can be installed alternately at 90° angles, the dispersion thus being on two plans. The CONVEXABSORBER® panel was designed and tested in order to guarantee its high performance in controlling sound energy, by reducing resonances and reflections. It has a wide range of applications.

FEATURES

- Uses 65% of recycled materials.
- To apply in large rooms.
- NRC: **0.81/m²**.
- Fire-resistance: M1.
- Package: unit.
- Installation: accessories included.

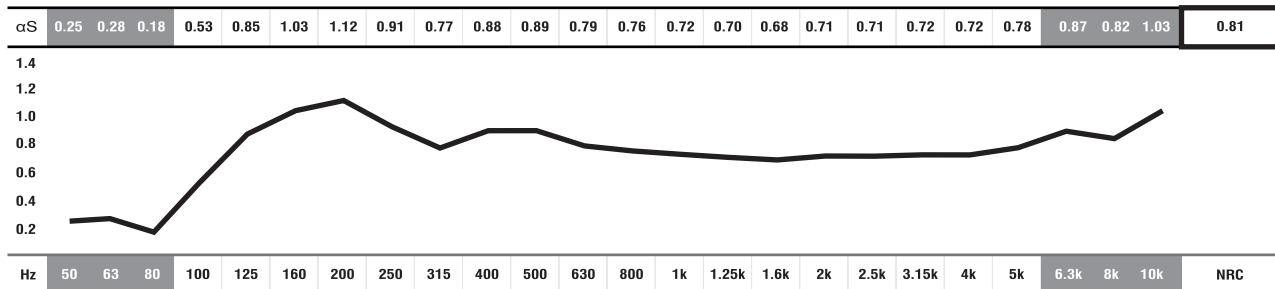
TECHNICAL DRAWINGS



MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
CON180	180 cm	114 cm	26 cm	35.1 Kg

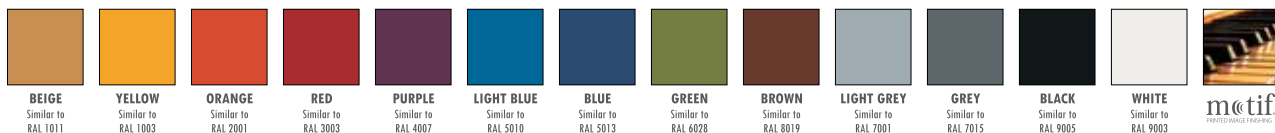
ABSORPTION COEFFICIENT



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

■ Values [$< 100\text{Hz}$ and $> 5\text{K}$] are Non Standard Values.

STANDARD FABRIC COLOURS



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- 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 their production method and some inherent raw-materials characteristics.





Image of 180x60cm, 120x60cm and 60x60cm models Ref.:MEL180, MEL120 and MEL060 (on the left) and three Ref.:MEL120 models applied (ambient image) with MOTIF® finishing.

DESCRIPTION

Auditoriums, music audition rooms, studios, practice rooms, etc., need a efficient surface that is efficient at absorbing sound waves within the largest possible range of frequencies.

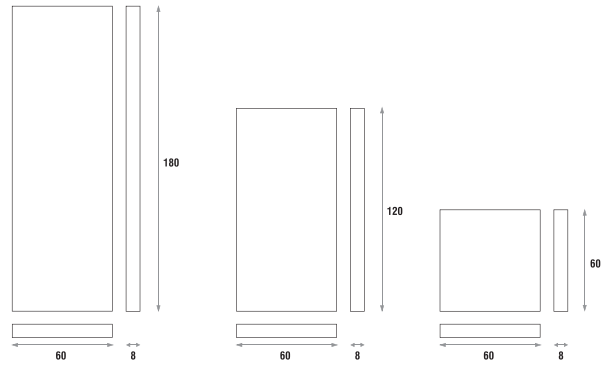
The MELLOWALLTRAP® is an absorbent panel meant to be installed on walls and ceilings. This product is particularly important for absorbing the mid and mid-high range of the sound spectrum. This panel excels due to its high performance, small size and low weight.

Although it is manufactured with the best absorbent materials of medium frequencies, JOCAVI® added to those materials a mathematically-studied form of incisions in order to increase and improve its results.

The MELLOWALLTRAP®'s shape was designed to absorb the incident sound on walls and ceilings, thus reducing the reflected energy at the hearing point and eliminating, to some extent, the room effect.

It is an absorption panel which is highly efficient in the mid-range of the sound spectrum.

TECHNICAL DRAWINGS



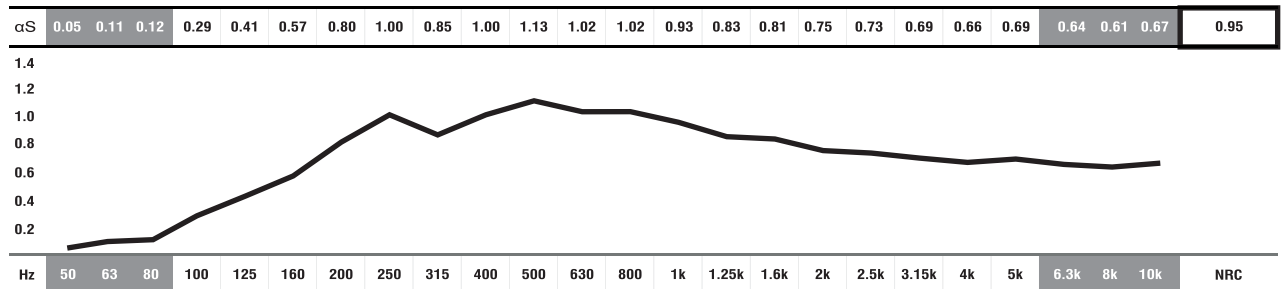
MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
MEL180	180 cm	60 cm	8 cm	12 Kg
MEL120	120 cm	60 cm	8 cm	8 Kg
MEL060	60 cm	60 cm	8 cm	4 Kg

FEATURES

- Uses 75% of recycled materials.
- NRC: **0.95/m²**.
- 100% recyclable.
- Fire-resistance: M1.
- Package: 2 and 4 units.
- Installation: accessories included.
- Other sizes are available on demand.

ABSORPTION COEFFICIENT



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

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

STANDARD FABRIC COLOURS



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- 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 their production method and some inherent raw-materials characteristics.



LIGHTWALLTRAP® ABSORBENT PANEL



Image of 180x90cm, of the new 90x90cm cloud shape, the 90cm circular panel and 90x30cm model Ref.:LIG180, LIGC90, LIGR090 and LIG030 (on the left) and Ref.:LIGR090 model applied (ambient image).

DESCRIPTION

This panel is related to the MELLOWALLTRAP® and the WALLTRAP® panels, as it is an absorption panel to be applied on walls and ceilings that predominantly absorbs in the mid-range of the sound spectrum.

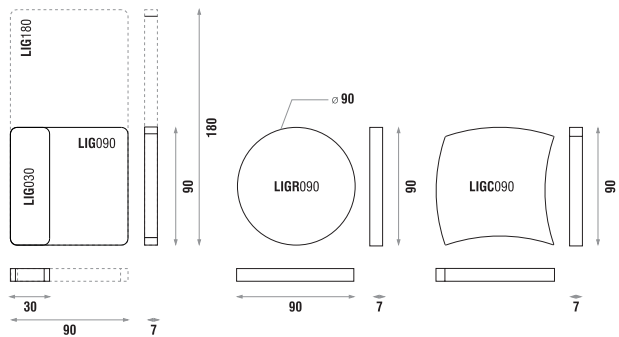
The similarities end there given that its size, technical characteristics and respective type of mounting are quite different.

It is an acoustic panel that absorbs medium frequencies and has been developed for use in small rooms.

This product is manufactured with raw materials of different mass and density which are duly coupled in order to increase its absorption coefficient as much as possible.

Several panels can be assembled together with surprising results. As regards its size, it is one of the most effective panels available in the market.

TECHNICAL DRAWINGS



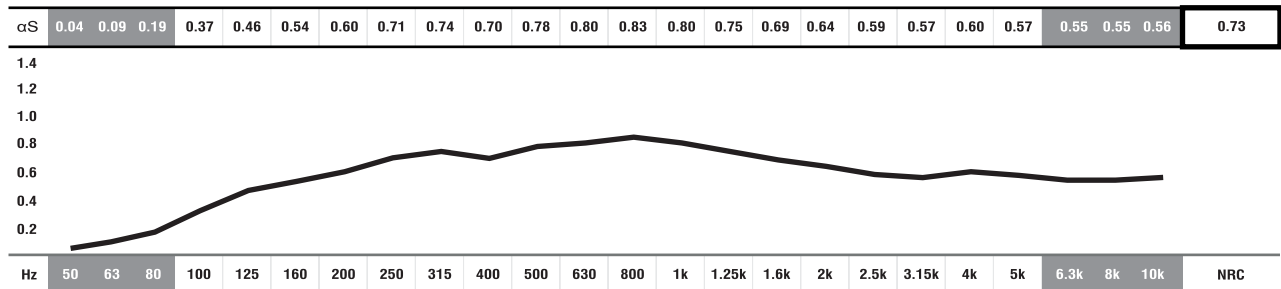
FEATURES

- Uses 65% of recycled materials.
- To apply in large rooms.
- NRC: **0.73/m²**.
- 100% recyclable.
- Fire-resistance: M1.
- Package: unit.
- Installation: accessories included.
- Other sizes available on demand.

MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
LIG180	180 cm	90 cm	7 cm	20.3 Kg
LIG090	90 cm	90 cm	7 cm	11.2 Kg
LIG030	30 cm	90 cm	7 cm	3.8 Kg
LIGR090	-	ø90 cm	7 cm	8.7 Kg
LIGC090	90 cm	90 cm	7 cm	9.5 Kg

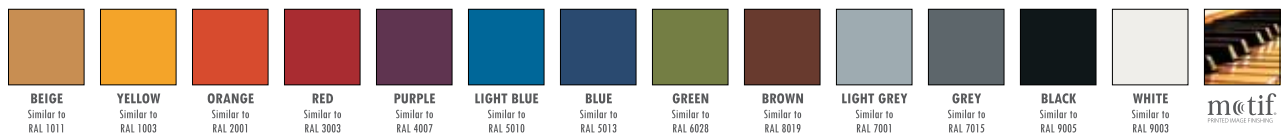
ABSORPTION COEFFICIENT



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- 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.
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Image of 137x62cm model Ref.:MEW137 (on the left) and Ref.:MEW137 model applied (ambient image).

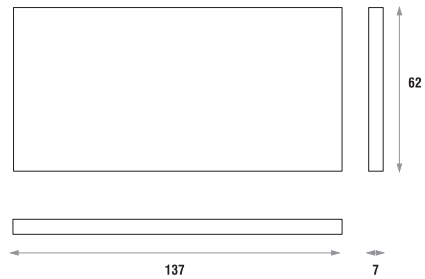
DESCRIPTION

JOCAVI's MELLOWAFFLE® has been designed to be suspended in large areas in order to eliminate echoes and reduce the reverberation time. It controls and reduces problems caused by airborne noise. This is the product recommended for large volume rooms: big studios, gymnasiums, pavilions, swimming-pools, factories, warehouses, commercial and industrial buildings, machine or engine rooms where airborne noise is a concern. The MELLOWAFFLE® has two absorbent sides which are different from each other. Due to the large exposed area, its absorption coefficient is quite high. It is installed by suspension from a steel cable or is directly fixed to the building structure or masonry with its appropriate accessories. Besides the mentioned acoustic characteristics, this product is highly resistant to abrasion and fire (class M1). When set on fire, it releases a very low quantity of smoke. It has a long durability. It is cleaned and maintained through suction. This product has relatively good resistance to humidity and is, therefore, also recommended for swimming-pools. This is an excellent and much better alternative to the application of acoustic foams.

FEATURES

- Uses 75% of recycled materials.
- NRC : **1.09/m²**.
- 100% recyclable.
- Fire-resistance: M1.
- Package: 6 and 12 units.
- Installation: accessories included.

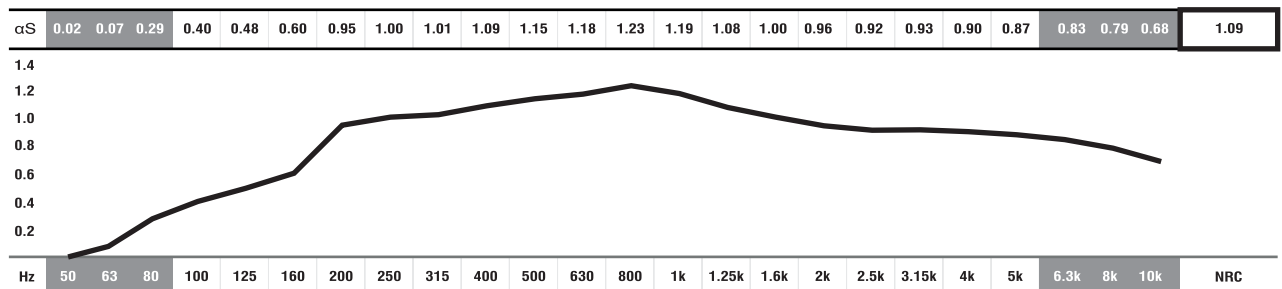
TECHNICAL DRAWINGS



MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
MEW137	137 cm	62 cm	7 cm	3.4 Kg

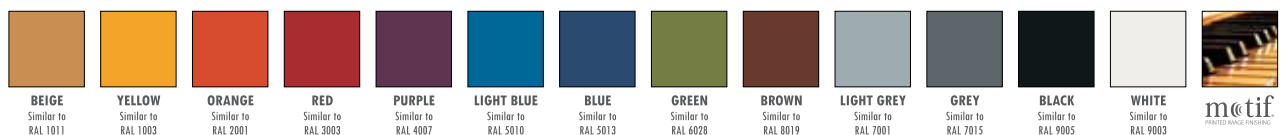
ABSORPTION COEFFICIENT



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MELLOWCLOUD® ABS

SUSPENDED DIFFUSION PANEL



Image of Mellowcloud® ABS model Ref.:MELABS applied (ambient image).

DESCRIPTION

The MELLOWCLOUD® ABS is a One Dimensional Curved Shaped Absorbent Acoustic panel for the acoustic construction industry. This model has been designed to provide almost infinite possibilities free combinations for ceiling applications.

The MELLOWCLOUD® ABS is a mid-range frequency absorption acoustic panel, consisting of a rigid EPS body with porous absorbing acoustic foam coated with fabric, evolves and meets the aesthetic challenge while offering as well an optimal One Dimensional Sound Diffusion.

Shaping and curving the surfaces can improve the coverage of the sound scattered diffusion energy throughout the room.

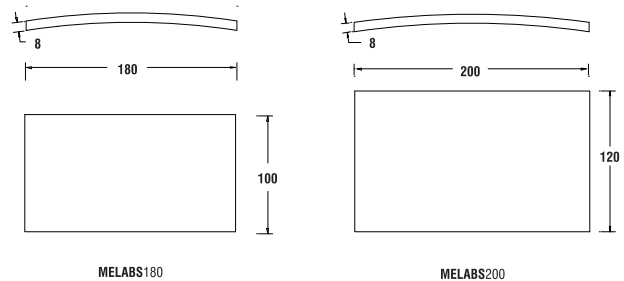
This model can be compared and combined with MELLOWCLOUD® DIF, which have the same ideology.

This is a product to be suspended in ceilings or on metal grids. The MELLOWCLOUD® ABS improves soundproofing and reverberation time levels for all types of environments, it is mainly installed in large areas of application such as auditoriums, conference rooms, multipurpose rooms, hospitals, clinics, offices, shops, radio stations restaurants, bars, food courts and airports, places where airborne noise reduction is imperative.

FEATURES

- Optimized shape, arraying and positioning insures uniform coverage.
- Panels can be used independently or tiled side to side and front to back.
- Suspended using Integrated mounting hardware and cable system (only four supports/hangers by each panel).
- NRC : **0.89/m²**
- Other sizes and shapes are available on demand.
- Size max: 2,00mt x 1,20mt (several modules can be interconnected).
- Very lightweight (5 Kg/m² - 80 mm thick panel).
- Finish: M1 JOCAVI® fabric finish.

TECHNICAL DRAWINGS

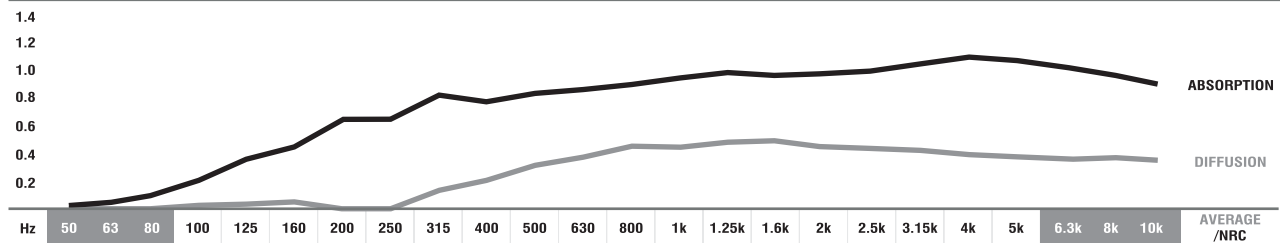


MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
MELABS200	200 cm	120 cm	8 cm	14 Kg
MELABS180	180 cm	100 cm	8 cm	9 Kg

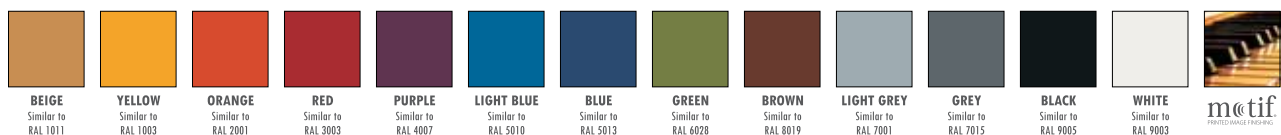
DIFFUSION - ABSORPTION COEFFICIENT

αS	0.01	0.04	0.11	0.22	0.36	0.45	0.64	0.64	0.81	0.79	0.82	0.84	0.89	0.95	0.99	0.97	0.98	0.99	1.03	1.09	1.07	1.02	0.98	0.90	0.89
	0.00	0.00	0.00	0.02	0.03	0.05	0.00	0.00	0.16	0.21	0.33	0.39	0.45	0.44	0.46	0.47	0.44	0.43	0.42	0.40	0.39	0.37	0.38	0.36	0.33



■ ABSORPTION COEFFICIENT: Values in accordance with the standards: EN 20654, ASTM C423 and EN 11654. ■ Values [$<100\text{Hz}$ and $>5\text{K}$] are Non Standard Values.
 ■ DIFFUSION COEFFICIENT: These values were obtained by mathematical calculations and tests carried out in our laboratory.

STANDARD FABRIC COLOURS



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WALLBLIND®

ABSORBENT PANEL - WHEELED ACOUSTIC BLIND



Image of 200x120cm models Ref.:WBLG200 and WBL200 (on the left) and Ref.:WBLG200 (ambient image).

DESCRIPTION

Studios' large rooms are adequate to record joint "takes", with all the band's elements playing at the same time. The WALLBLIND® is recommended to physically divide the musicians or the several sound sources between each instrument or amplifier, thus minimizing both the complicity and sound contamination from the several instruments in relation to the microphones.

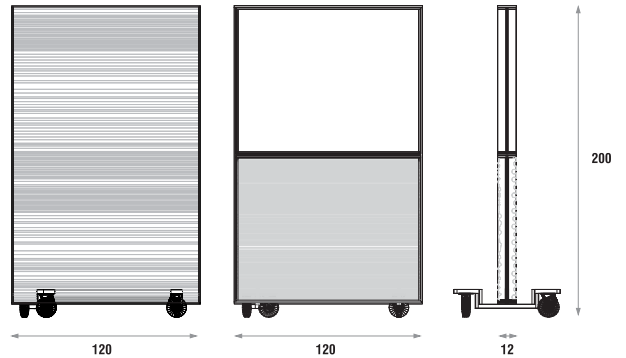
The WALLBLIND® is a portable acoustic blind system which is ideal for your recording room. It provides a remarkable acoustic division while permitting to choose the most pleasant face for the instrument that it surrounds. You can choose from two faces with different acoustic and aesthetic features: one side has a high-density EPS profile, which is hardened with a ceramic painting film, with good diffusing features, while the other side has an optimised profile cut for open-cell acoustic foam, thus being quite more absorbent.

This product has a resistant rigid structure with big wheels and allows several modules to be coupled with quite tight union angles.

FEATURES

- Wheeled acoustic blind.
- NRC: **0.66/m²**
- Solid structure, excellent insulation.
- Two acoustically different faces (diffusing and absorbent).
- Ideal to separate and surround instruments.
- Place: recording and rehearsal studios.
- Installation: easy to install on the base provided.
- Package: 2 units.
- Sizes: 200 cm x 120 cm x 14 cm.

TECHNICAL DRAWINGS

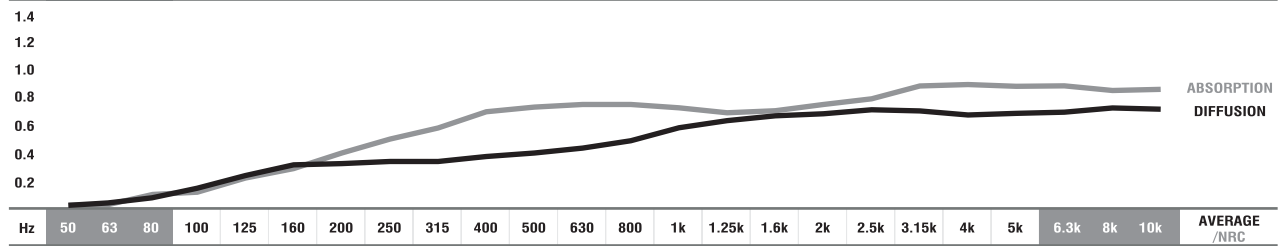


MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
WBL200	200 cm	120 cm	14 cm	51.4 Kg
WBLG200	200 cm	120 cm	14 cm	62 Kg

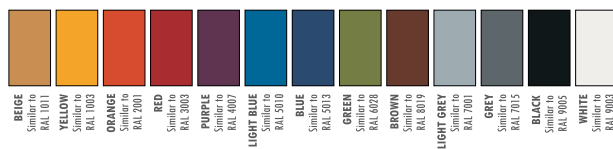
ABSORPTION COEFFICIENT

	0.02	0.03	0.08	0.15	0.25	0.32	0.33	0.35	0.35	0.39	0.42	0.43	0.48	0.59	0.62	0.64	0.67	0.70	0.69	0.67	0.68	0.69	0.72	0.71	0.49
αS	0.01	0.02	0.09	0.13	0.24	0.31	0.40	0.50	0.59	0.68	0.71	0.72	0.72	0.69	0.66	0.67	0.72	0.79	0.85	0.89	0.87	0.88	0.86	0.87	0.66



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 ■ DIFFUSION COEFFICIENT: These values were obtained by mathematical calculations and tests carried out in our laboratory.

STANDARD EPS RAL COLOURS



ACOUSTIC FOAM COLOURS



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STADTREAT WBA® ABSORBENT PANEL



Image of 60x60cm model Ref..WBA060 (on the left) and 60x60cm models applied (ambient image).

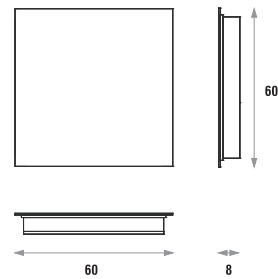
DESCRIPTION

The STADTREAT WBA® is a medium-frequency absorbent panel which is meant to be placed on walls or normal or T-type ceilings.

This absorbent panel has been developed by combining an adequately shaped high density polyurethane foam box with a filling composed of a material that was exclusively manufactured for this panel in order to increase its sound absorption coefficient.

The outer finishing plate is made of a porous and permeable pressed mineral granulate, which is highly absorbent in the medium and high frequencies, thus making this panel very balanced as regards absorption/frequency.

TECHNICAL DRAWINGS



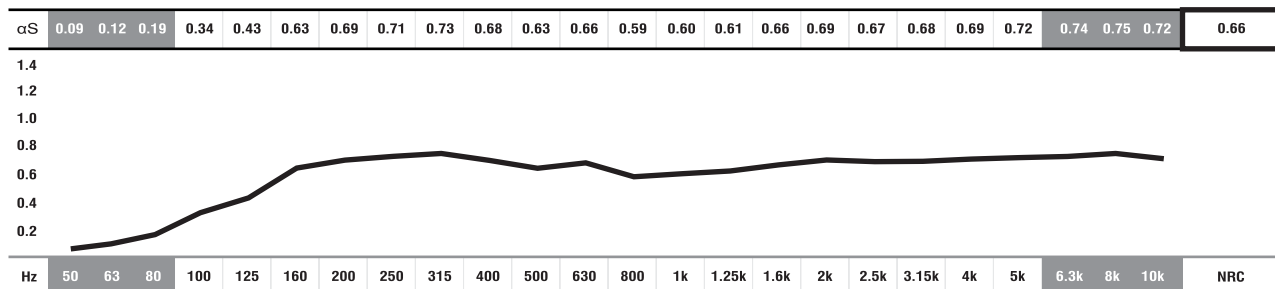
FEATURES

- NRC: **0.66/m²**.
- Made of recycled materials.
- Plate of pressed granulated minerals.
- Fire-resistance: M1.
- Walls and T-ceilings ready applications.
- Package: 4 units.
- Installation: accessories included.
- Available in 6 colours.

MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
WBA060	60 cm	60 cm	8 cm	3.9 Kg
WBA060/AT ◀	60 cm	60 cm	8 cm	9.1 Kg

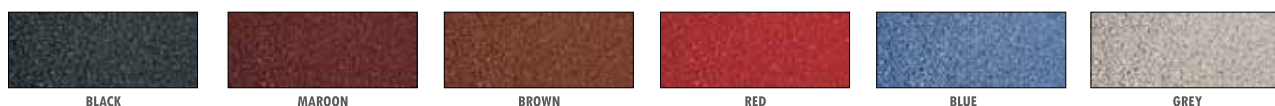
ABSORPTION COEFFICIENT



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STANDARD MINERAL GRANULATED COLOURS



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Image of 120x50cm model Ref.:RC0120 (on the left) and Ref.:RC0120 (ambient image).

DESCRIPTION

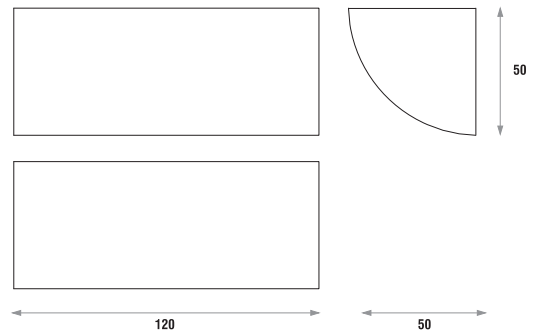
It is of paramount importance to control the low range of the sound spectrum in any music room. In corners, for example, long waves are usually generated, as well as stationary low frequencies, which are heard as a "boom", thus making them slack, loose and disjointed from the rest of the spectrum range.

Applying JOCAVI®'s ROUNDBASSCORNER® is necessary. This panel, which is extremely efficient at holding back excessive levels of low frequencies, is manufactured with an exclusive production membrane applied over a tuned box.

The ROUNDBASSCORNER® panel provides a good reduction of energy between 40 Hz and 400 Hz. Its highest level of reduction is at 125 Hz. This product reduces or eliminates unwanted low resonances.

Because of their trapezoidal shape, these panels look discreet in the room, since they are installed in corners which are usually overlooked.

TECHNICAL DRAWINGS



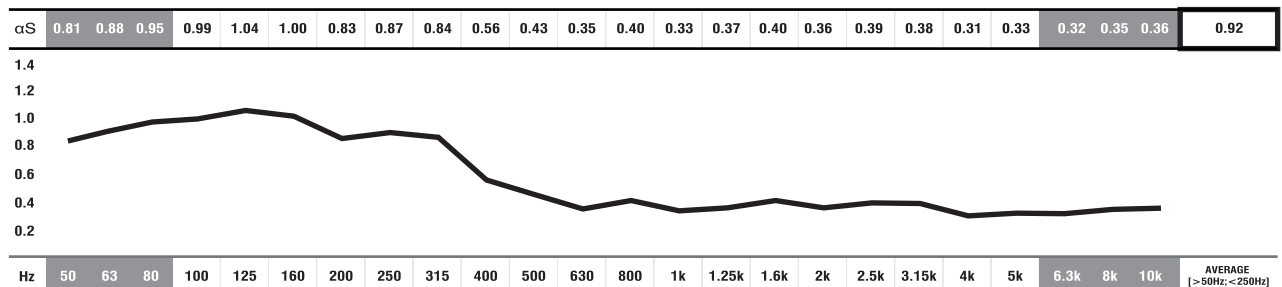
FEATURES

- Uses 60% of recycled materials.
- Tuned to 125Hz.
- Average absorption: $0.92/m^2$ [$>50Hz$; $<250KHz$].
- 100% recyclable.
- Fire-resistance: M1.
- Package: unit.
- Installation: accessories included.

MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
RC0120	120 cm	50 cm	50 cm	22 Kg

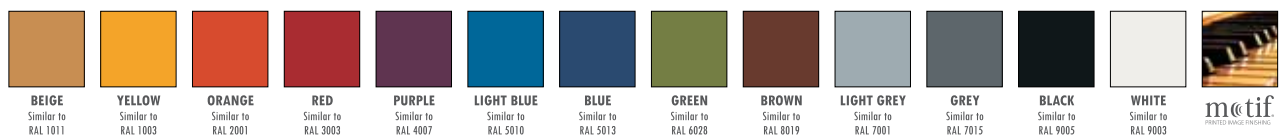
ABSORPTION COEFFICIENT



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STANDARD FABRIC COLOURS



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BASSCORNER®

TUNED ABSORPTION PANEL

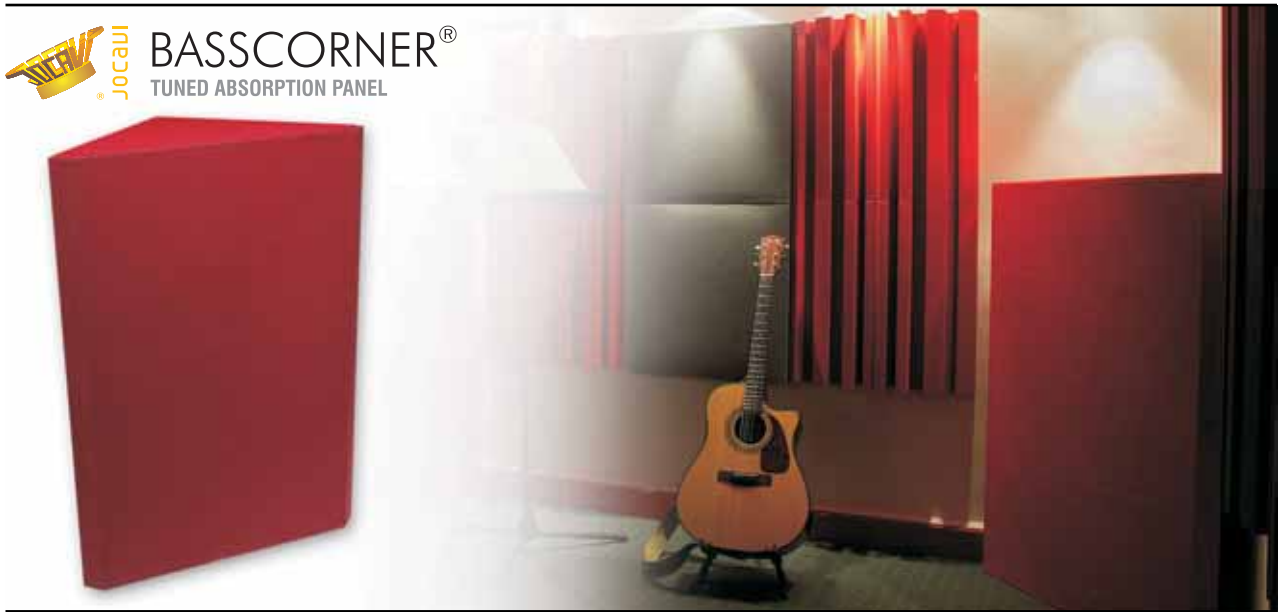


Image of 120x60cm model Ref.:BC0120 (on the left) and Ref.:BC0120 (ambient image).

DESCRIPTION

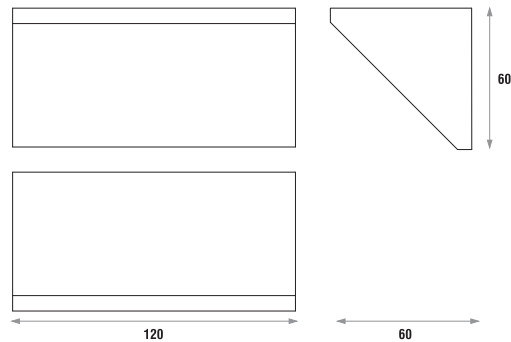
The control of low frequencies is essential in any music room, especially in the corners where long waves are generated, i.e., stationary low frequencies which are heard as a "boom", thus making low frequencies puffy and muddy and disjointed from the rest of the sound spectrum.

Applying JOCAVI's BASSCORNER® is imperative. This panel, which is extremely efficient at holding back excessive levels of low frequencies, is manufactured with an exclusive production membrane mounted on a tuned box, which makes this box highly efficient between 32 Hz and 280 Hz. The absorption panel BASSCORNER™ reduces to a high degree the excessive energy of low frequencies. Its highest absorption coefficient stands at 100 Hz. The trapezoidal shape of this panel makes it look discreet in the room, as it is installed in corners which are usually overlooked.

FEATURES

- Uses 60% of recycled materials.
- Tuned to 100Hz.
- Average absorption: **0.86/m²** [$>50\text{Hz}; <250\text{KHz}$].
- 100% recyclable.
- Fire-resistance: M1.
- Package: unit.
- Installation: accessories included.

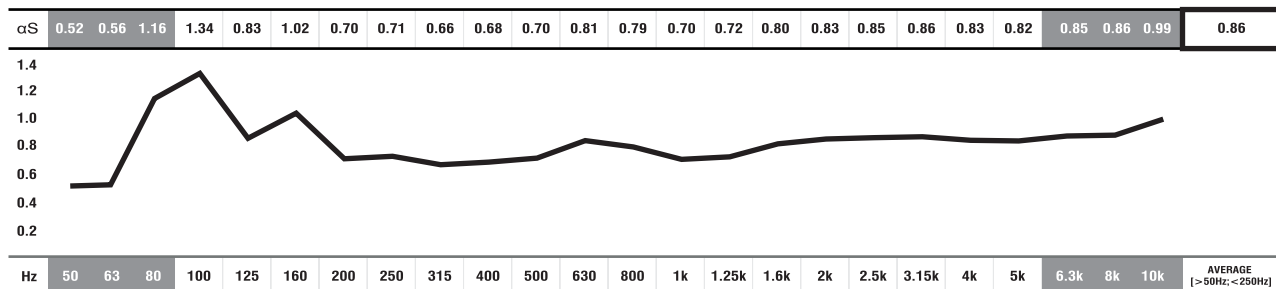
TECHNICAL DRAWINGS



MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
BC0120	120 cm	60 cm	60 cm	28 Kg

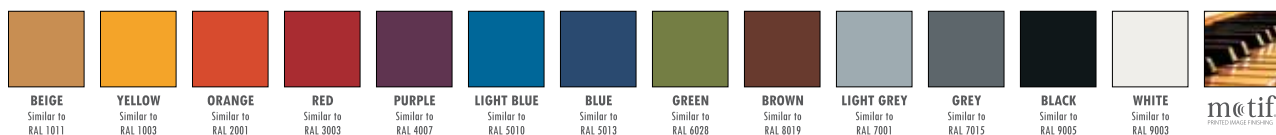
ABSORPTION COEFFICIENT



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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.



Image of 60x60cm model Ref.:WAL060 (on the left) and Ref.:WAL060 (ambient image).

DESCRIPTION

Music audition rooms, studios, practice rooms, etc., all need a surface that is efficient at absorbing low frequencies. The WALLTRAP® is a product that absorbs low frequencies and is tuned to 160 Hz. It is meant to be mounted on walls and ceilings.

This product has been especially designed to be a main element in the construction of rooms, since it is embedded in the walls.

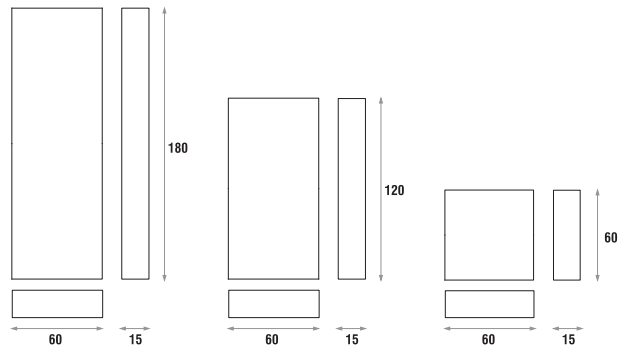
This panel is built in a box tuned to 80 Hz, which has a membrane manufactured by us.

The WALLTRAP® is a very easy-to-install high performance panel. It is meant to be mounted on walls or ceilings. It was designed to absorb the incident sound on the back, front or side walls, thus reducing the low energy that is present in excessive levels at the point of hearing. Therefore, it reduces unwanted resonances and helps to accommodate and improve sound perception within the low range of the sound.

FEATURES

- Uses 60% of recycled materials.
- Tuned to 80Hz.
- Average absorption: **0.82/m²** [$>50\text{Hz}; <250\text{KHz}$].
- 100% recyclable.
- Fire-resistance: M1.
- Package: 2 units.
- Installation: accessories included.

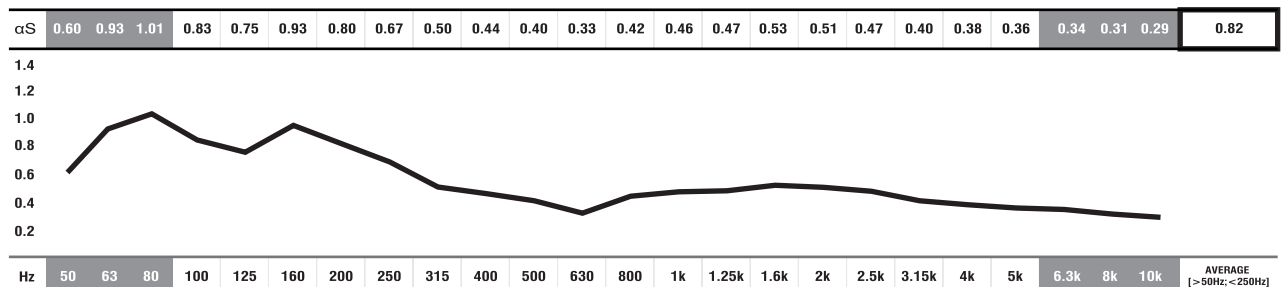
TECHNICAL DRAWINGS



MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
WAL180	180 cm	60 cm	15 cm	19.7 Kg
WAL120	120 cm	60 cm	15 cm	13.8 Kg
WAL060	60 cm	60 cm	15 cm	6.9 Kg

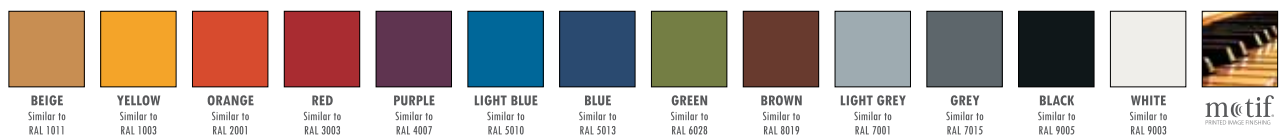
ABSORPTION COEFFICIENT



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

■ Values [$<100\text{Hz}$ and $>5\text{K}$] are Non Standard Values.

STANDARD FABRIC COLOURS



IMPORTANT NOTICES

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- 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.
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BASSLAYER®

TUNED ABSORPTION PANEL



Image of 120x60cm model Ref.:BXL120 (on the left) and Ref.:BXL120 (ambient image).

DESCRIPTION

The control of low frequencies in audio rooms is always essential. The absorption of this energy is successful when the adequate solution is found.

We tried to come up with a product with a good technical performance, whose size does not hinder its application, and that is a solution to most types of rooms. This product is recommended for music audition rooms or music rehearsal rooms whose volumetric dimensions range between 32m³ and 220m³, obviously by using the number of products in proportion to the space in question.

The BASSLAYER® is a low-frequency absorbent panel. It has a hard membrane absorber inside a tuned box with four lateral holes and is tuned to 160 Hz.

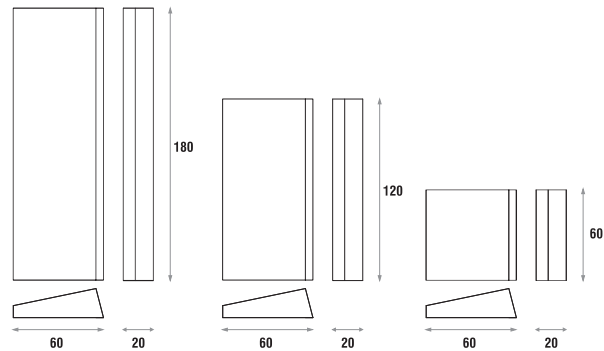
Its shape is both appealing and discreet and it is a good option for walls or ceilings. It can also be mounted in pairs in the corners of rooms, turning into a highly efficient BASSCORNER®, also tuned to 80 Hz.

This product can be combined with the absorption panel MELLOWALLTRAP® to complement the absorption of medium frequencies.

FEATURES

- Uses 70% of recycled materials.
- Tuned to 160Hz.
- Average absorption: **0.59/m²** [$>50\text{Hz}; <250\text{KHz}$].
- 100% recyclable.
- Fire-resistance: M2.
- Package: 2 units.
- Installation: accessories included.

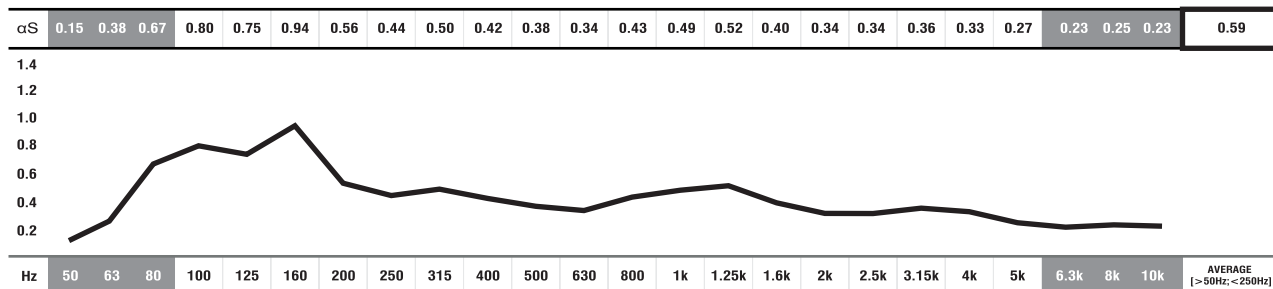
TECHNICAL DRAWINGS



MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
BXL180	180 cm	60 cm	20 cm	14.2 Kg
BXL120	120 cm	60 cm	20 cm	9.9 Kg
BXL060	60 cm	60 cm	20 cm	5 Kg

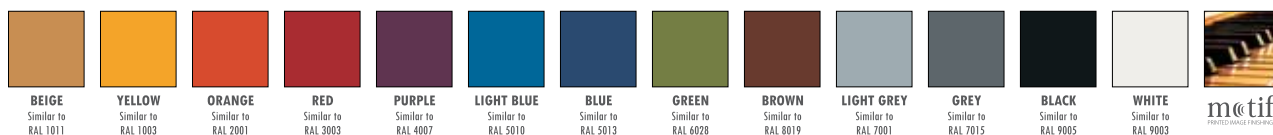
ABSORPTION COEFFICIENT



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

■ Values [$<100\text{Hz}$ and $>5\text{K}$] are Non Standard Values.

STANDARD FABRIC COLOURS



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- 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.
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STAITDTREAT BXA®

TUNED ABSORPTION PANEL

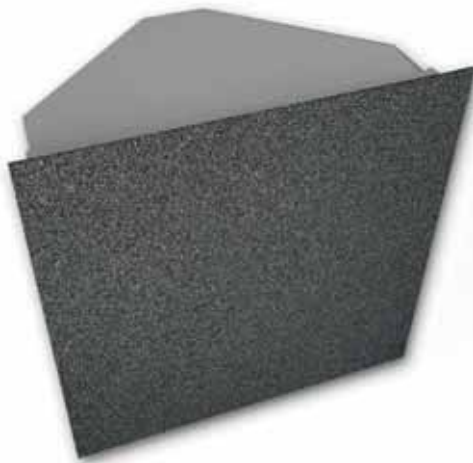
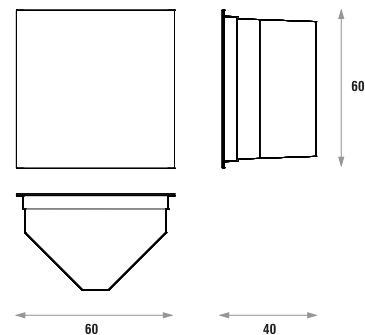


Image of 60x60cm model Ref.:BXA060 (on the left) and Ref.:BXA060 (ambient image).

DESCRIPTION

The STAITDTREAT BXA® is a low-frequency absorption panel. It is tuned to 63 Hz and is meant to be placed in 90° corners. The principle used to develop the STAITDTREAT BXA® is exclusive to JOCAVI®. It combines an ABS box, which has two appropriately enhanced closed resonance chambers inside, with mass and density components. These components have been specifically developed for this model. Therefore, because of its careful development, this panel has become one of the best offers in the market for low-frequency absorbent materials. In order to boost bass absorption, we recommend that this panel is used together with the STAITDTREAT BXW®, as the latter functions close to the harmonics of this model.

TECHNICAL DRAWINGS



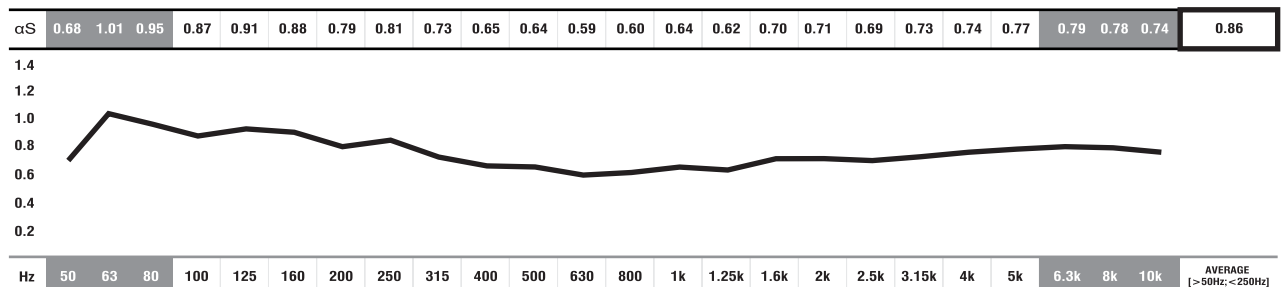
FEATURES

- Tuned to 63Hz.
- Average absorption: **0.86/m²** [$> 50\text{Hz}; < 250\text{KHz}$].
- Made of recyclable materials.
- Plate of pressed mineral granulate.
- Fire-resistance: M1.
- Application on ceiling and wall corners.
- Package: 2 units.
- Installation: accessories included.

MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
BXA060	60 cm	60 cm	40 cm	5.9 Kg
BXA060/AT ◀	60 cm	60 cm	40 cm	11.1 Kg

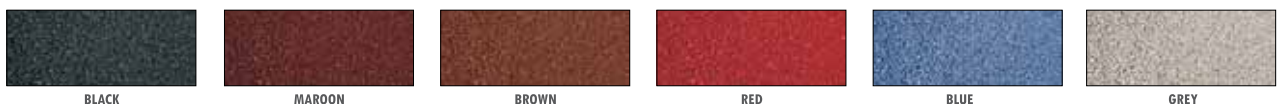
ABSORPTION COEFFICIENT



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

■ Values [$< 100\text{Hz}$ and $> 5\text{K}$] are Non Standard Values.

STANDARD MINERAL GRANULATED COLOURS



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- 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.
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STAITDTREAT BXW[®]

TUNED ABSORPTION PANEL



Image of 60x60cm model Ref.:BXW060 (on the left) and Ref.:BXW060 (ambient image).

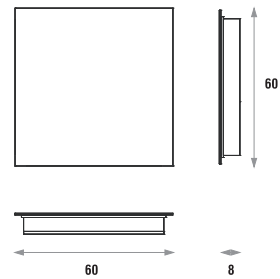
DESCRIPTION

The STAITDTREAT BXW[®] is a low-frequency absorption panel. It is tuned to 125 Hz and is meant to be placed on walls or normal or T-type ceilings. When tuned to 125 Hz, it works in the first harmonic of the STAITDTREAT BXA[®], thus exponentially boosting the absorption of basses when both panels are used together.

This tuned panel uses an open resonance chamber, which is combined with a membrane that was developed and calibrated to enhance its performance.

The visible outer plate is made of a porous and permeable mineral granulate which is highly absorbent in the medium and high frequencies, thus further widening the absorption range of this panel.

TECHNICAL DRAWINGS



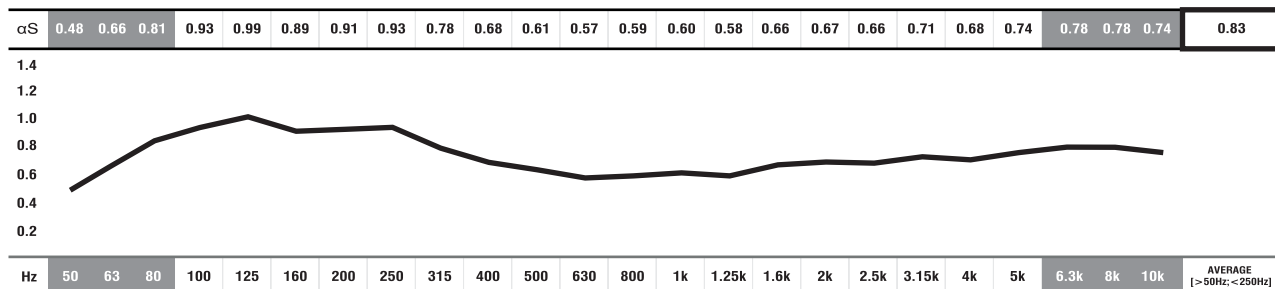
FEATURES

- Tuned to 125Hz.
- Average absorption: **0.83/m²** [$>50\text{Hz}; <250\text{KHz}$].
- Made of recyclable materials.
- Plate of pressed mineral granulate.
- Fire-resistance: M1.
- Application on ceilings and walls.
- Package: 4 units.
- Installation: accessories included.

MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
BXW060	60 cm	60 cm	8 cm	4.2 Kg

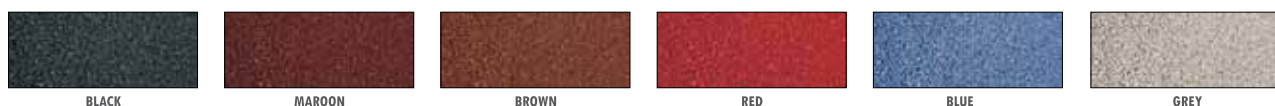
ABSORPTION COEFFICIENT



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

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STANDARD MINERAL GRANULATED COLOURS



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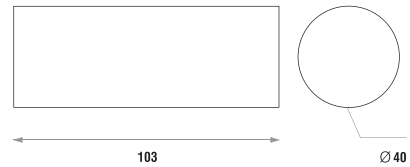


Image of 105xø40cm models Ref.:TUB103 (on the left with MOTIF® finishing) and Ref.:TUB103 applied (ambient image).

DESCRIPTION

The TUBABSORBER® is one of the important absorbent elements of mid-low frequencies in our catalogue. This panel was built to take most advantage in areas where there is a strong incidence of acoustic pressure that is usually generated in the corners and edges of rooms. That high energy is changed into short movements of air, which is retained inside its box. Due to the way it works, the TUBABSORBER® can be mounted on the floor, in horizontal or vertical corners or on walls and ceilings, with the help of the different accessories available for each application. When it is placed on the floor, it is also easy to install it and adjust it, in order to optimise results.

TECHNICAL DRAWINGS



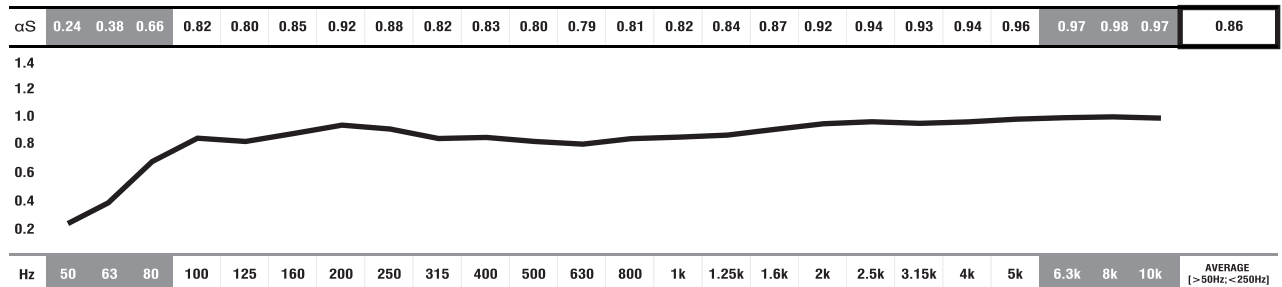
FEATURES

- Uses 60% of recycled materials.
- Tuned to 200Hz.
- Average absorption: **0.86/m²** [$>50\text{Hz}; <250\text{KHz}$].
- 100% recyclable.
- Fire-resistance: M1.
- Package: 1 and 2 units.
- Installation: accessories included

MODELS AND SIZES

MODELS	HEIGHT	DIAMETER	WEIGHT
TUB103	103 cm	40 cm	8.2 Kg

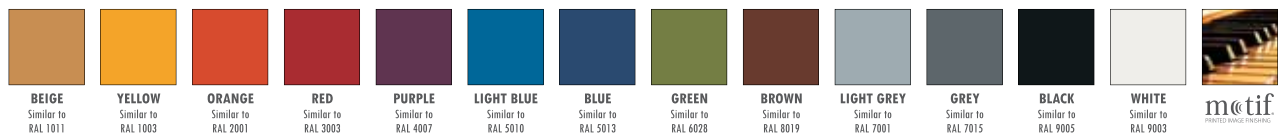
ABSORPTION COEFFICIENT



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STANDARD FABRIC COLOURS



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TUBABSORBER SY[®]

TUNED ABSORPTION PANEL

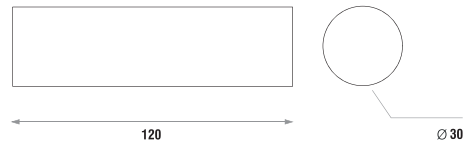


Image of 120x30cm model Ref.:TUB120 (on the left) and Ref.:TUB120 applied (ambient image).

DESCRIPTION

The TUBABSORBER SY[®] is a smaller version of similar product TUBABSORBER[®]. Due to its smaller resonance chamber, this product is tuned to a higher frequency, i.e., 250Hz. This product can be placed in small or medium-sized rooms as an absorber of medium/low frequencies or as an application complement in larger rooms. The materials used in its manufacture are very light and highly efficient, thereby making this model quite versatile when being mounted and efficient on its applications. This product can also be installed on the vertical and horizontal edges between walls and ceilings, by using the accessories we supply for that purpose.

TECHNICAL DRAWINGS



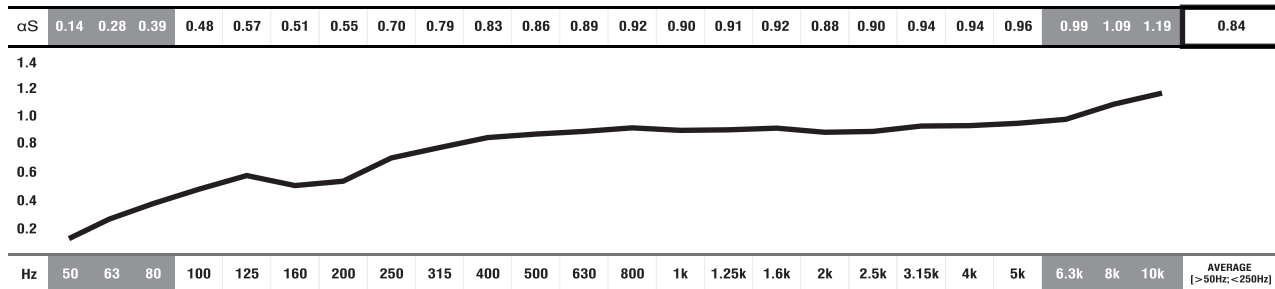
FEATURES

- Uses 60% of recycled materials.
- Tuned to 250Hz.
- Average absorption: **0.84/m²** [$>50\text{Hz}; <250\text{KHz}$].
- 100% recyclable.
- Fire-resistance: M2.
- Package: 2 and 4 units.
- Installation: accessories included.

MODELS AND SIZES

MODELS	HEIGHT	DIAMETER	WEIGHT
TUB120	120 cm	30 cm	7 Kg

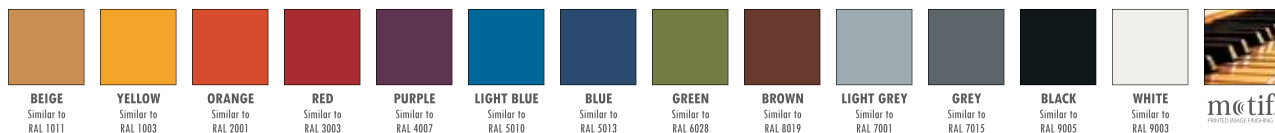
ABSORPTION COEFFICIENT



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STANDARD FABRIC COLOURS



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ATP[®] Acoustic Panels

ATP[®] is a brand of acoustic treatment panels that belongs to JOCAVI GROUP[®]. Its main objective is to manufacture a line of efficient and inexpensive products. This efficient acoustic treatment is accessible to all and, in particular, to those projects that do not need a large financial investment. The ATP[®] range has a variety of available models which enable the application of practical solutions in rooms, home-studios, home-cinemas, rehearsal rooms, etc.

As part of the JOCAVI[®], ATP[®] shares the engagement and experience of this organisation where high quality standards must always be attained. ATP[®] has its own plant, which is totally independent from that of JOCAVI[®] Acoustic Panels, modern machines, as well as production and manufacturing techniques of acoustic foam and polyurethane.





CORALREEF® DIFFUSION PANEL

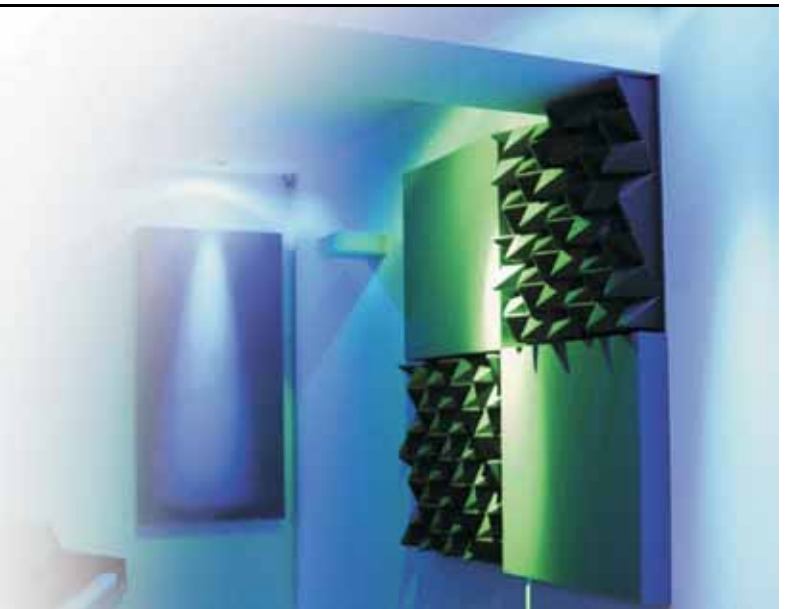
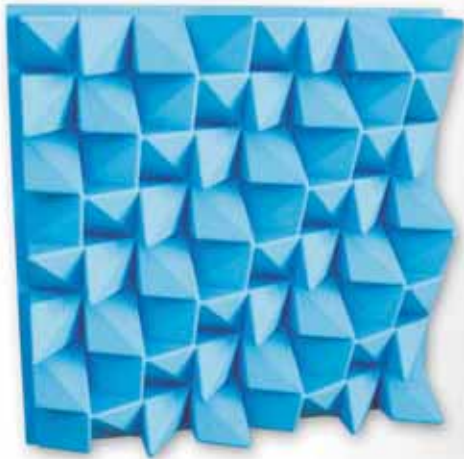


Image of 60x60cm model Ref.:COR060.

DESCRIPTION

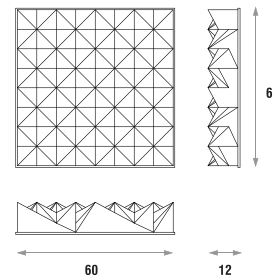
The CORALREEF® is a 3D controlled dispersion acoustic diffusion panel. It is made of high-density polystyrene and its finishing membrane provides it with the intended acoustic qualities.

Its angular appearance gives dynamics to any space and provides a decorative effect and attractive combinations.

This acoustic panel is installed on ceilings and walls. Its low weight makes it the ideal product for use on false ceilings, on its own or alternated with flat modules when refinement and quality are required.

The calculation basis was the theoretical numerical sequence ratio of the primitive root, thus providing excellent results of sound diffusion in all directions. The depth factor is logarithmically varied, and it is, therefore, a three-dimension omnidirectional reflection panel. Due to its quite sinuous shape with deep recesses, as well as the raw material it is made of, this product also has a considerable associated absorption coefficient.

TECHNICAL DRAWINGS



FEATURES

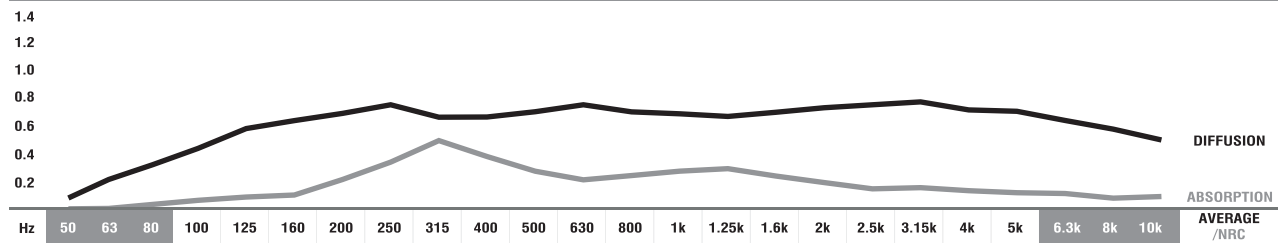
- Manufactured with High-Density EPS.
- Average diffusion: **0.68/m²** [$>100\text{Hz}; <5\text{KHz}$].
- Finished with an ecological paint.
- EPS Fire Reaction: Euroclass E(NP EN 13501-1).
- 100% recyclable.
- Package: 3 and 6 units.

MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
COR060	60 cm	60 cm	12 cm	1.9 Kg

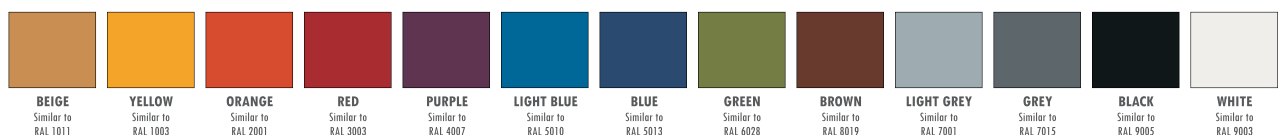
DIFFUSION - ABSORPTION COEFFICIENT

	0.09	0.22	0.34	0.43	0.59	0.62	0.68	0.73	0.65	0.66	0.69	0.74	0.70	0.68	0.68	0.72	0.75	0.76	0.72	0.70	0.62	0.58	0.49	0.68	
α_S	0.00	0.00	0.02	0.06	0.07	0.10	0.21	0.36	0.50	0.39	0.28	0.22	0.26	0.29	0.31	0.24	0.20	0.17	0.18	0.13	0.11	0.09	0.07	0.08	0.28



■ ABSORPTION COEFFICIENT: Values in accordance with the standards: EN 20654, ASTM C423 and EN 11654. ■ Values [$<100\text{Hz}$ and $>5\text{K}$] are Non Standard Values.
 ■ DIFFUSION COEFFICIENT: These values were obtained by mathematical calculations and tests carried out in our laboratory.

STANDARD EPS RAL COLOURS



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CUBEFUSER® DIFFUSION PANEL

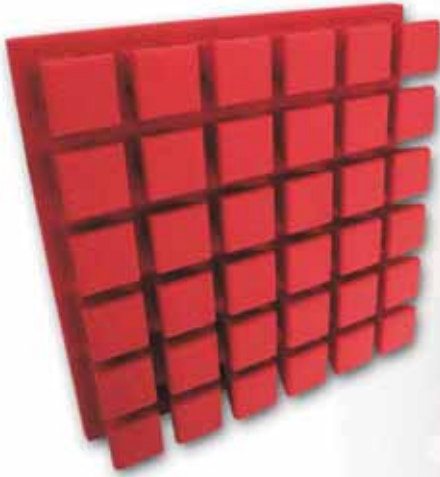
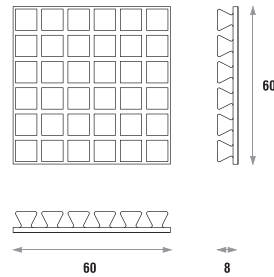


Image of 60x60cm model Ref.:CUF060 (on the left) and Ref.:CUF060 applied (ambient image).

DESCRIPTION

The CUBEFUSER® acoustic panel is one of the least expensive diffusers from our brand. It is cubic-shaped and is made of high-quality 100% recyclable ecologic EPS raw material. This model can be combined with the CUBESORB®; as a result, two different acoustic areas keep maintaining the same shape. The CUBEFUSER® offers associate absorption, because the uniformly protruding cubes make the sound to enter directly into the concavities. This diffuser offers uniform unidirectional diffusion and provides an attractive design to ceilings and walls. It is a cost-effective diffusion panel as an alternative to other more expensive diffusers.

TECHNICAL DRAWINGS



FEATURES

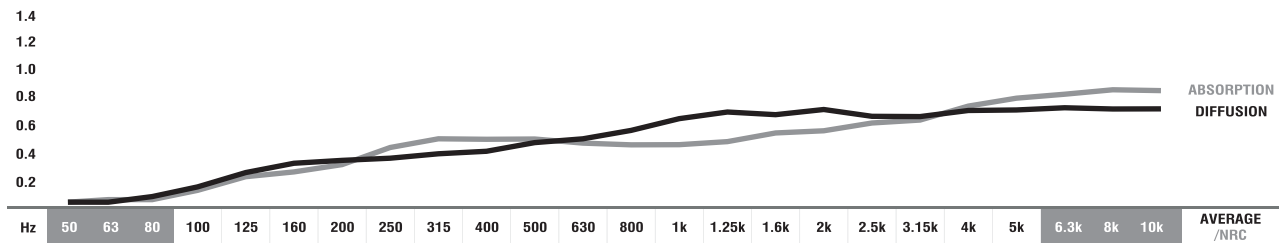
- Average diffusion: **0.50/m²** [$>100\text{Hz}; <5\text{KHz}$].
- NRC: **0.47/m²** [$>100\text{Hz}; <5\text{KHz}$].
- EPS Fire Reaction: Euroclass E (NP EN 13501-1).
- Package: 4 units or 12 units.
- Very easy to install.
- Other colours available upon consultation.

MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
CUF060	60 cm	60 cm	8 cm	0.5 Kg

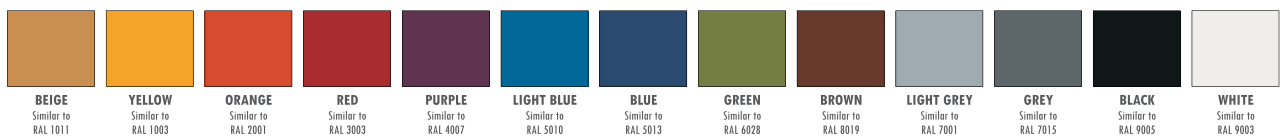
DIFFUSION - ABSORPTION COEFFICIENT

	0.04	0.04	0.09	0.16	0.25	0.32	0.34	0.36	0.39	0.40	0.44	0.49	0.55	0.63	0.67	0.66	0.68	0.65	0.65	0.68	0.70	0.71	0.70	0.70	0.50
α_S	0.05	0.06	0.08	0.14	0.22	0.28	0.33	0.44	0.49	0.48	0.48	0.47	0.46	0.46	0.49	0.53	0.55	0.60	0.63	0.70	0.77	0.80	0.83	0.82	0.47



■ ABSORPTION COEFFICIENT: Values in accordance with the standards: EN 20654, ASTM C423 and EN 11654. ■ Values [$<100\text{Hz}$ and $>5\text{K}$] are Non Standard Values.
 ■ DIFFUSION COEFFICIENT: These values were obtained by mathematical calculations and tests carried out in our laboratory.

STANDARD EPS RAL COLOURS



IMPORTANT NOTICES

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- Colours may vary due to raw-material suppliers' changes and some differences may occur in tonal range.
- 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.
- Sizes may vary slightly due to their production method and some inherent raw-materials characteristics.





IVORY® DIFFUSION PANEL



Image of 60x60cm model Ref.:IVO060.

DESCRIPTION

The IVORY® is a 2D controlled dispersion diffusion panel in a single coordinate. It is made of high-density EPS covered with a hardened layer. This design gives this product the intended acoustic diffusion properties. It is therefore one more option within the range of diffusers presented by ATP®.

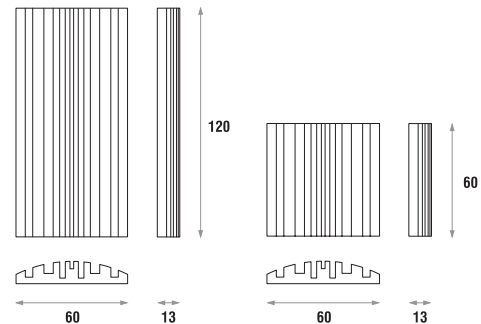
Its convex external geometry with seven longitudinal incisions provides a decorative effect and attractive combinations with the absorption panel EBONY®.

The use of this extremely dynamic panel is crucial to control early reflections and other reflections from walls, thus improving control of sound diffusion in the room.

Due to its shape, with deep recesses, this product also has an interesting related absorption coefficient.

This acoustic panel is installed on walls and ceilings. Its low weight makes its installation on ceilings quite practical.

TECHNICAL DRAWINGS



FEATURES

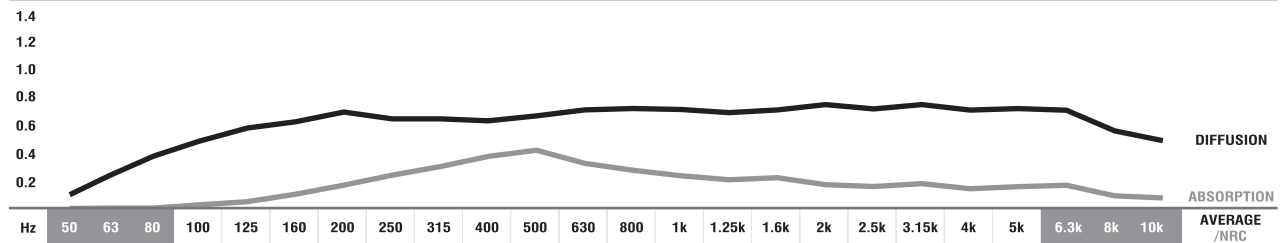
- Manufactured with High-density EPS.
- Average diffusion: **0.67/m²** [$>100\text{Hz}; <5\text{KHz}$].
- Finished with an ecological paint.
- EPS Fire Reaction: Euroclass E (NP EN 13501-1).
- 100% recyclable.
- Package: 2 units.

MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
IVO120	120 cm	60 cm	14 cm	4.8 Kg
IVO060	60 cm	60 cm	14 cm	2.4 Kg

DIFFUSION - ABSORPTION COEFFICIENT

	0.10	0.25	0.39	0.49	0.58	0.61	0.68	0.64	0.64	0.63	0.65	0.71	0.72	0.70	0.68	0.69	0.73	0.72	0.74	0.71	0.72	0.69	0.55	0.49	0.67
α_S	0.00	0.00	0.00	0.02	0.05	0.11	0.19	0.25	0.33	0.39	0.41	0.36	0.29	0.24	0.21	0.23	0.19	0.17	0.19	0.15	0.17	0.19	0.11	0.08	0.27

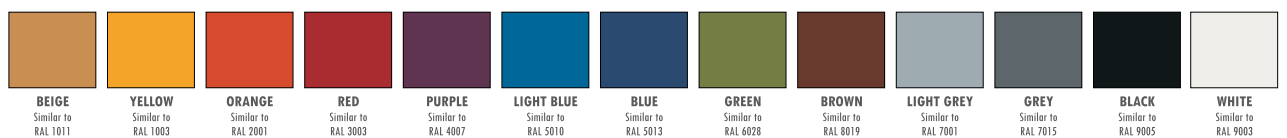


■ ABSORPTION COEFFICIENT: Values in accordance with the standards: EN 20654, ASTM C423 and EN 11654.

■ Values [$<100\text{Hz}$ and $>5\text{K}$] are Non Standard Values.

■ DIFFUSION COEFFICIENT: These values were obtained by mathematical calculations and tests carried out in our laboratory.

STANDARD EPS RAL COLOURS



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- Colours may vary due to raw-material suppliers' changes and some differences may occur in tonal range.
- 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.
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WAVYFUSER® /INVERTED

DIFFUSION PANEL



Image of 60x60cm models Ref.:WAV060 and Ref.:WAI060 (on the left) and Ref.:WAV120 and Ref.:WAI120 applied (ambient image).

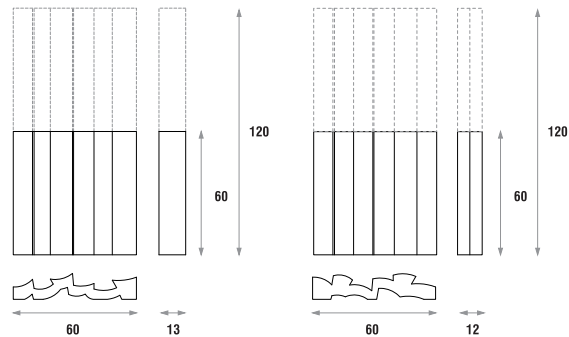
DESCRIPTION

The WAVYFUSER INV® is made of high-quality 100% recyclable ecologic EPS raw material. This design results from combining a sequence of concave and convex shapes with numerical techniques, which creates a profile surface that optimises the scattering of diffusion.

This model has two different varieties, male and female, which, when combined in the assembly, make the diffusion of medium/low frequencies more efficient. Acoustically, this translates into a more real control of sound reflections in your room, by providing uniform omnidirectional broad bandwidth diffusion without any other unwanted sound effect in the room.

The WAVYFUSER INV® is the top model of ATP® diffusers set. Its price is highly reasonable and provides a combination of hemispherical acoustic diffusion with a top-quality EPS finishing painting.

TECHNICAL DRAWINGS



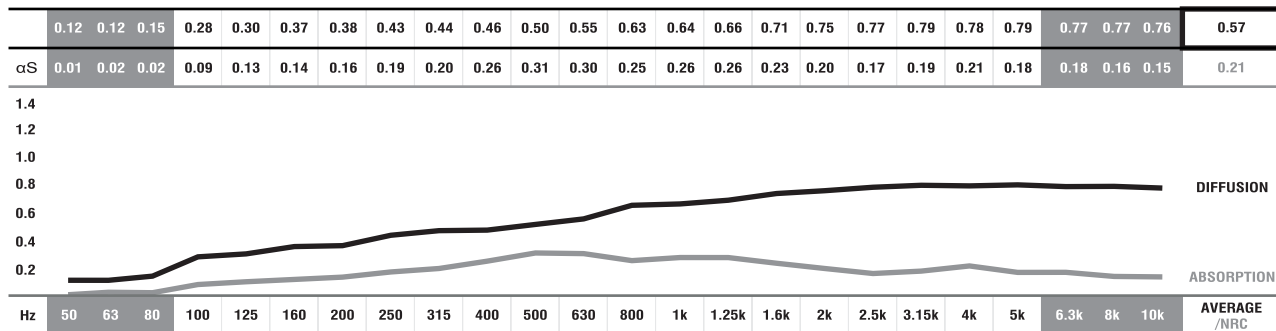
FEATURES

- Average diffusion: **0.57/m²** [$>100\text{Hz}; <5\text{KHz}$].
- NRC: **0.21/m²** [$>100\text{Hz}; <5\text{KHz}$].
- Finished with an ecological paint.
- EPS Fire Reaction: Euroclass E (NP EN 13501-1).
- Package: 4 units or 12 units.
- Very easy to install.
- Other colours available upon consultation.
- Sold in pairs.

MODELS AND SIZES

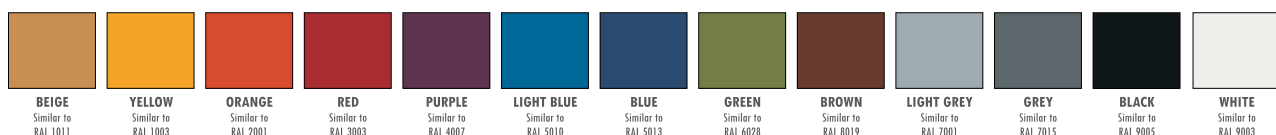
MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
WAV060	60 cm	60 cm	13 cm	1 Kg
WAI060	60 cm	60 cm	12 cm	1.1 Kg
WAV120	120 cm	60 cm	13 cm	2 Kg
WAI120	120 cm	60 cm	12 cm	2.2 Kg

DIFFUSION - ABSORPTION COEFFICIENT



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 ■ DIFFUSION COEFFICIENT: These values were obtained by mathematical calculations and tests carried out in our laboratory.

STANDARD EPS RAL COLOURS



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- Colours may vary due to raw-material suppliers' changes and some differences may occur in tonal range.
- 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.
- Sizes may vary slightly due to their production method and some inherent raw-materials characteristics.



PYRAMID®

DIFFUSION, ABSORBENT AND DIFFUSION/ABSORBENT PANEL

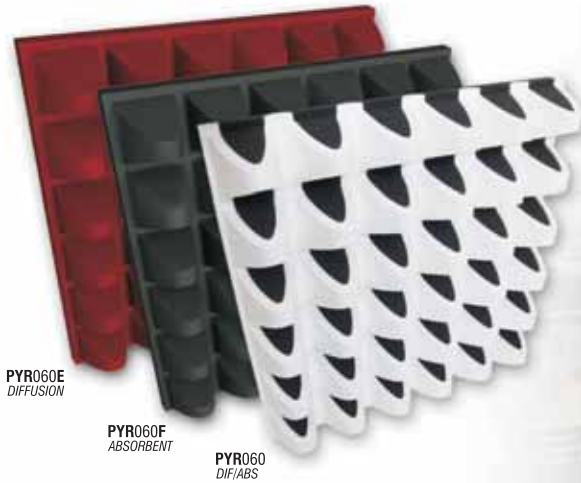


Image of 60x60cm models Ref.:PYR060 and PYR060F (on the left) and Ref.:PYR060 applied (ambient image).

DESCRIPTION

PYRAMID® is a model that combines diffusion and absorption qualities it was devised for the acoustic music industry to enable different acoustic characteristics with the same aspect.

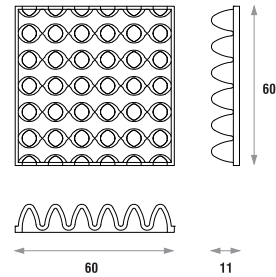
This design was based on a quadratic format with flat absorption surfaces made of acoustic foam and on curved diffusion surfaces made of EPS which give it a superior balance, aural and visual performance.

The original PYRAMID® (PYR060), made on EPS and Acoustic Foam combines hemispherical acoustical diffusion and absorption in the same panel, and therefore the most balanced element from ATP's catalogue.

There are two other options; PYR060F an absorbent made on Acoustic Foam and the PYR060E that is a diffusor made on EPS.

These 3 options were designed to be applied, glued on walls and ceilings, on the modular or continuous applications, it is allowed to set on T-Ceilings as well.

TECHNICAL DRAWINGS



FEATURES*

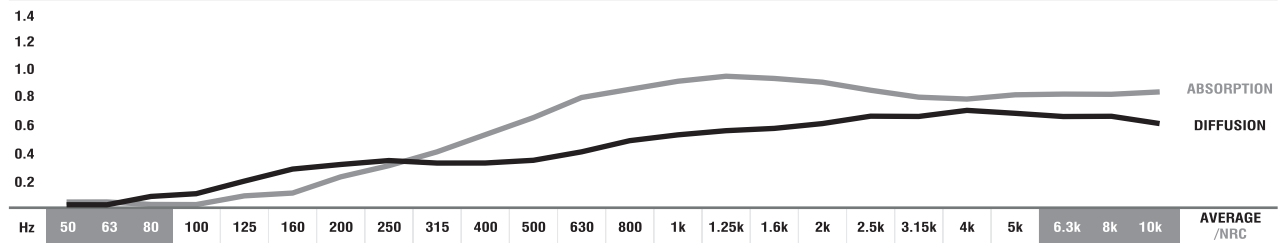
- Average diffusion: **0.45/m²** [$>100\text{Hz}; <5\text{KHz}$].
- NRC: **0.75/m²** [$>250\text{Hz}; <10\text{KHz}$].
- Finished with an ecological paint (only PYR060E model).
- EPS Fire Reaction: Euroclass E (NP EN 13501-1).
- Self-extinguishable M1 fire-retardant acoustic foam.
- Package: 3 units or 9 units.
- Very easy to install

MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
PYR060	60 cm	60 cm	11 cm	0.50 Kg
PYR060F	60 cm	60 cm	11 cm	0.40 Kg
PYR060E	60 cm	60 cm	11 cm	0.45 Kg

DIFFUSION - ABSORPTION COEFFICIENT*

	0.02	0.02	0.07	0.13	0.20	0.29	0.31	0.36	0.35	0.35	0.37	0.40	0.46	0.53	0.55	0.57	0.60	0.65	0.65	0.68	0.66	0.64	0.64	0.60	0.45
α_S	0.04	0.04	0.03	0.03	0.08	0.13	0.23	0.32	0.40	0.51	0.64	0.79	0.86	0.91	0.94	0.92	0.89	0.83	0.78	0.77	0.80	0.81	0.81	0.82	0.75



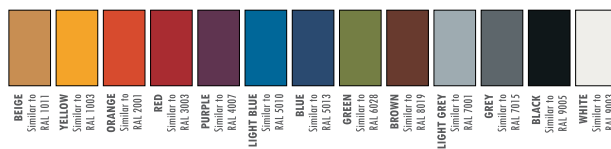
■ ABSORPTION COEFFICIENT: Values in accordance with the standards: EN 20654, ASTM C423 and EN 11654.

■ DIFFUSION COEFFICIENT: These values were obtained by mathematical calculations and tests carried out in our laboratory.

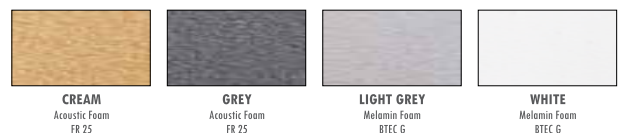
■ Values [$<100\text{Hz}$ and $>5\text{K}$] are Non Standard Values.

*PANEL DATA ONLY OF REF.: PYR060 EPS AND FOAM MODEL.

STANDARD EPS RAL COLOURS



REGULAR AND MELAMIN FOAM COLOURS



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STRIPEFUSER®

DIFFUSION PANEL



Image of 60x60cm model Ref.:STF060 (on the left) and Ref.:STF060 and STF120 applied (ambient image).

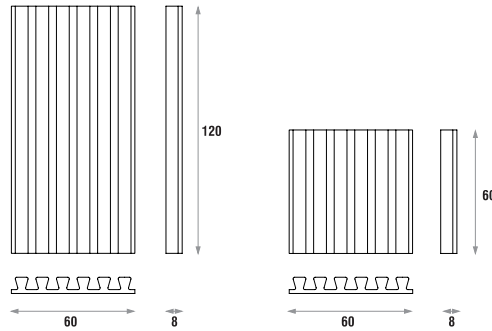
DESCRIPTION

The STRIPEFUSER® acoustic panel is the least expensive model of diffusers from our brand. It has a striped shape and is made of high-quality 100% recyclable ecologic EPS raw material.

This model can be combined with the STRIPESORB®, as a result, two different acoustic areas keep maintaining the same shape.

The STRIPEFUSER® offers absorption because the uniform protruding stripes make the sound to enter directly into the concavities. This product offers uniform unidirectional diffusion and provides an attractive design to ceilings and walls. It is a cost-effective diffuser as an alternative to other more expensive diffusion panels.

TECHNICAL DRAWINGS



FEATURES

- Average diffusion: **0.52/m²** [$>100\text{Hz}; <5\text{KHz}$].
- NRC: **0.26/m²** [$>100\text{Hz}; <5\text{KHz}$].
- Finished with an ecological paint.
- EPS Fire Reaction: Euroclass E (NP EN 13501-1).
- Package: 4 or 12 units; 6 units; 4 or 8 units.
- Very easy to install.
- Other colours available upon consultation.

MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
STF120	120 cm	60 cm	8 cm	1.5 Kg
STF060	60 cm	60 cm	8 cm	0.6 Kg

DIFFUSION - ABSORPTION COEFFICIENT

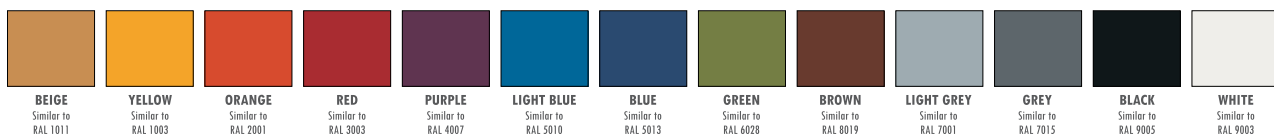
	0.04	0.04	0.11	0.21	0.27	0.34	0.37	0.40	0.44	0.45	0.46	0.51	0.58	0.62	0.66	0.65	0.65	0.64	0.62	0.70	0.73	0.75	0.75	0.74	0.52
α_S	0.01	0.01	0.05	0.11	0.16	0.16	0.19	0.20	0.22	0.29	0.33	0.31	0.30	0.27	0.28	0.30	0.31	0.33	0.32	0.33	0.29	0.25	0.23	0.22	0.26
Hz	50	63	80	100	125	160	200	250	315	400	500	630	800	1k	1.25k	1.6k	2k	2.5k	3.15k	4k	5k	6.3k	8k	10k	NRC

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

■ Values [$<100\text{Hz}$ and $>5\text{K}$] are Non Standard Values.

■ DIFFUSION COEFFICIENT: These values were obtained by mathematical calculations and tests carried out in our laboratory.

STANDARD EPS RAL COLOURS



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REFLEX[®] DIFFUSION PANEL



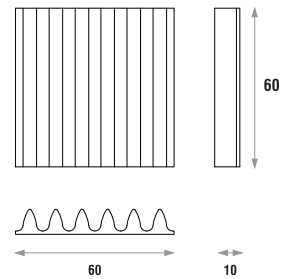
Image of 60x60cm model Ref.:RFL060 (on the left) and Ref.:RFL060 applied (ambient image).

DESCRIPTION

The REFLEX[®] represents another option on acoustic diffusers, thus allowing different aesthetic and performance possibilities. It is made of high-quality 100% recyclable ecologic EPS raw material. It is used on side or back walls to blend the direct and early reflected sound, thus increasing speech intelligibility and enhancing musical clarity.

This diffusion panel offers optimal shape and more omnidirectional scattering diffusion than traditional, non-optimised panels do. It is a very good cost-effective choice for a 2D sound diffuser.

TECHNICAL DRAWINGS



FEATURES

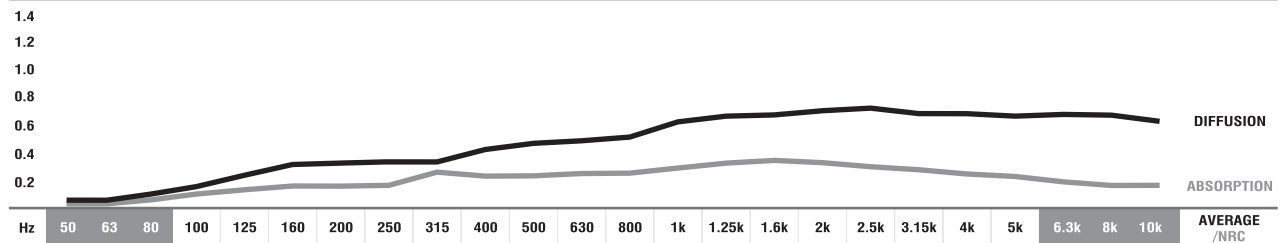
- Average diffusion: **0.50/m²** [$>100\text{Hz}; <5\text{KHz}$].
- NRC: **0.26/m²** [$>100\text{Hz}; <5\text{KHz}$].
- Finished with an ecological paint.
- EPS Fire Reaction: Euroclass E (NP EN 13501-1).
- Package: 5 units or 16 units.
- Very easy to install.
- Other colours available upon consultation.

MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
RFL060	60 cm	60 cm	10 cm	0.8 Kg

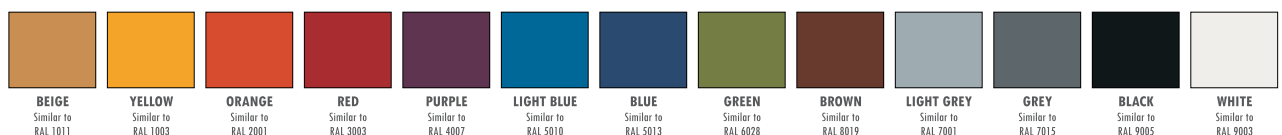
DIFFUSION - ABSORPTION COEFFICIENT

	0.05	0.05	0.09	0.17	0.26	0.33	0.34	0.36	0.36	0.41	0.46	0.48	0.50	0.61	0.66	0.67	0.70	0.71	0.68	0.68	0.66	0.67	0.66	0.61	0.50
α_S	0.02	0.02	0.07	0.12	0.15	0.17	0.17	0.18	0.27	0.25	0.25	0.27	0.28	0.30	0.34	0.36	0.35	0.31	0.30	0.25	0.23	0.20	0.18	0.18	0.26



■ ABSORPTION COEFFICIENT: Values in accordance with the standards: EN 20654, ASTM C423 and EN 11654. ■ Values [$<100\text{Hz}$ and $>5\text{K}$] are Non Standard Values.
 ■ DIFFUSION COEFFICIENT: These values were obtained by mathematical calculations and tests carried out in our laboratory.

STANDARD EPS RAL COLOURS



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COOKIE®
ABSORBENT PANEL

CONVEX SHAPE



CONCAVE SHAPE



Image of 60x60cm pair models Ref.:COK060 (on the left) and the same applied (ambient image).

DESCRIPTION

COOKIE® is made of a flexible open-cell regular foam or melamine foam which are excellent sound absorption materials. The optional velvet finishing gives this product an attractive luxury look. Its appearance describes a simple concave and convex circular shape and is always supplied in pairs.

COOKIE®'s acoustic characteristics make this product ideal for use as noise control device in buildings. It improves airborne noise reduction also providing fire safety and environmental requirements.

Due to its low weight, COOKIE® allows the creation of large-surface areas that can be glued or hanging, giving rooms an attractive appearance.

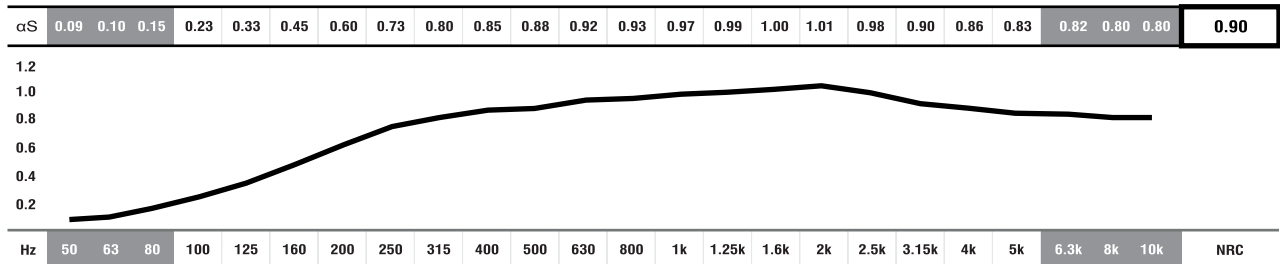
Meeting rooms, offices and hotel foyers can be acoustically upgraded just as effective and attractive by using this product. The installation method is very simple by using mounting glue.

The raw material of this product meets the most important international fire safety regulation. It is produced without using halogenated hydrocarbons, flame-retardants and/or toxic heavy metals.

FEATURES

- NRC: **0.90/m²** [$>250\text{Hz}$; $<10\text{KHz}$].
- Raw material: melamine resin or standard acoustic foam.
- **MELAMINE FOAM** - Flame resistance: Germany B1, France M1, GB Class1, USA V0/HF1.
- **ACOUSTIC FOAM** - Self-extinguishable M1 fire-retardant foam.
- Good thermal insulation properties and constant physical properties over a wide temperature range.
- Resistance to all organic solvents.
- Package: 8 units (4 pairs).
- Mounting: glue or by hanging.
- Sold in pairs.

ABSORPTION COEFFICIENT*



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

■ Values [$<100\text{Hz}$ and $>5\text{K}$] are Non Standard Values.

*PANEL DATA ONLY OF REF.: COK060 VELVETY FINISHING.

REGULAR FOAM COLOURS



CREAM
Regular Foam
FR 25



GREY
Regular Foam
FR 25

VELVETY COLOURS



RED



BLUE



GREY



BEIGE



BLACK



WHITE

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- 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 their production method and some inherent raw-materials characteristics.





CAMOU®
ABSORBENT PANEL



Image of 60x60cm model Ref.:CAM060 (on the left) and Ref.:CAM060 applied (ambient image).

DESCRIPTION

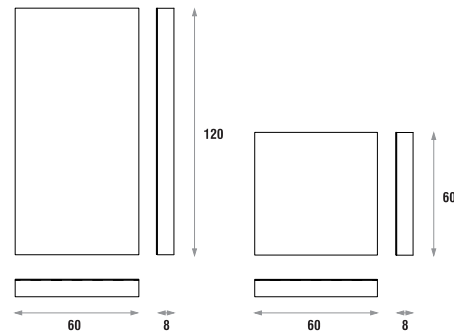
This panel is an updated version of the COSMOS® panel, but is distinct from it. It is an absorbent panel, in particular of the mid-range of the sound spectrum, and is meant to be mounted on walls and ceilings. This model has a fabric-coated front part and a support structure that gives it more mass and enables, therefore, quite different acoustic performances.

The CAMOU® may be used in any type of rooms to reduce airborne noise. It is particularly efficient in rooms where the aesthetic factor is more neutral. This panel can be glued directly on walls and ceilings. Mounting stripes are available for removable mounting. All installation accessories are sold separately. It can be installed by coupling several pieces that form a very absorbent surface with outstanding results. Its size makes it one of the best available options in the market. The back part is a white EPS solid box which can be painted on request with our EPS available colours. The box interior's acoustic labyrinth is filled with recycled acoustic material.

FEATURES

- NRC: **0.84/m²** [$>100\text{Hz}$; $<5\text{KHz}$].
- Self-extinguishable M1 fire retardant fabric-coated acoustic foam on a rigid framework.
- EPS Fire Reaction: Euroclass E (NP EN 13501-1).
- Several colours.
- Package: 4 units or 12 units.
- Installation: easy to install.

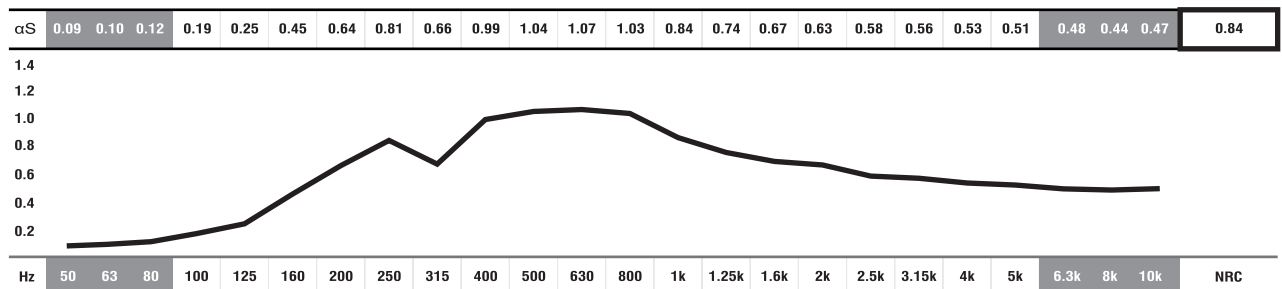
TECHNICAL DRAWINGS



MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
CAM120	120cm	60 cm	8 cm	3.4 Kg
CAM060	60 cm	60 cm	8 cm	1.7 Kg

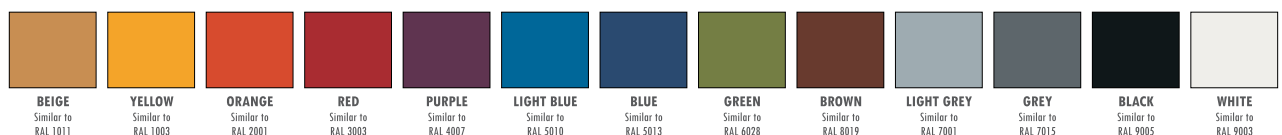
ABSORPTION COEFFICIENT



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

■ Values [$<100\text{Hz}$ and $>5\text{K}$] are Non Standard Values.

STANDARD FABRIC COLOURS



IMPORTANT NOTICES

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- RAL® is an international independent colour standard system partner for industry, trade, architecture and design. Should be consulted before placing any order.
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- Colours may vary due to raw-material suppliers' changes and some differences may occur in tonal range.
- 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.
- Sizes may vary slightly due to their production method and some inherent raw-materials characteristics.



Image of 60x60cm model Ref.:COS060 (on the left) and Ref.:COS060 applied (ambient image).

DESCRIPTION

The COSMOS® is an acoustic panel with a set of four different aesthetics that meet all kinds of requirements. It is an acoustic solution for commercial areas, offices, public spaces, as well as audio and video studios.

Acoustic designers usually favour this type of covering because it is efficient and has a refined finishing as well. These are inexpensive and very attractive proposals.

The 8cm thickness and the inside labyrinth provide COSMOS® with a high absorption coefficient.

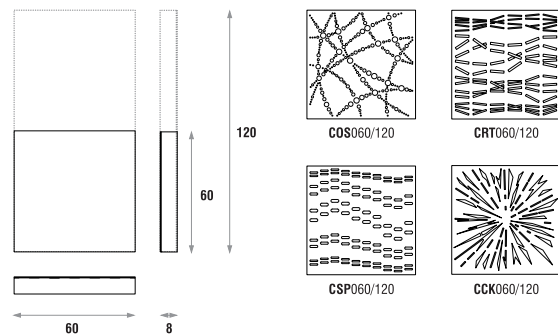
This absorbent panel comprises the full spectrum of the human voice and is used to absorb slap and flutter echoes in the room, thus allowing a more pleasant and accurate listening environment.

This model proposes four different perforations and five synthetic-wood finishes, as well as a flexible design with coupling options for the several pieces, therefore enabling different and varied aesthetic combinations.

FEATURES

- NRC: **0.79/m²**(COSMOS), **0.88/m²**(SP), **0.89/m²**(RT), **0.80/m²**(CK)[>250Hz;<1KHz].
- Self-extinguishable M1 fire-retardant acoustic foam.
- EPS Fire Reaction: Euroclass E (NP EN 13501-1).
- Package: 4 units or 12 units.
- Very easy to install.

TECHNICAL DRAWINGS

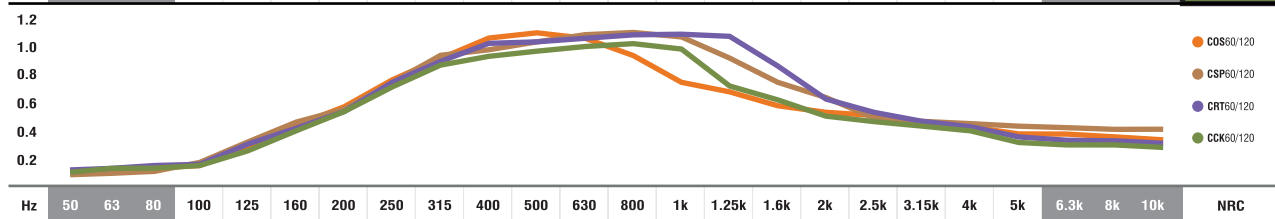


MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
COS120	120 cm	60 cm	8 cm	3.4 Kg
COS060	60 cm	60 cm	8 cm	1.7 Kg

ABSORPTION COEFFICIENT

αS	010	011	014	016	028	043	058	077	092	1.06	1.10	1.05	0.95	0.74	0.66	0.59	0.55	0.51	0.46	0.42	0.39	0.39	0.37	0.36	0.79
αS	009	010	012	019	031	044	057	076	093	098	1.04	1.09	1.12	1.08	0.92	0.77	0.63	0.48	0.47	0.45	0.44	0.43	0.42	0.42	0.88
αS	011	012	016	018	029	041	054	074	090	1.02	1.04	1.06	1.10	1.11	1.08	0.84	0.62	0.52	0.47	0.42	0.38	0.36	0.36	0.35	0.89
αS	010	011	015	016	026	040	054	073	087	093	0.97	1.00	1.01	0.98	0.73	0.61	0.52	0.47	0.43	0.41	0.34	0.33	0.33	0.32	0.80



● ● ● ● ABSORPTION COEFFICIENT: Values in accordance with the standards: EN 20654, ASTM C423 and EN 11654. ■ Values [<100Hz and > 5K] are Non Standard Values.

MELAMIN FACED BOARD FINISHINGS



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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 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.
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CUBESORB®

ABSORBENT PANEL



Image of 60x60cm model Ref.:CUS060 (on the left) and Ref.:CUS060 applied (ambient image).

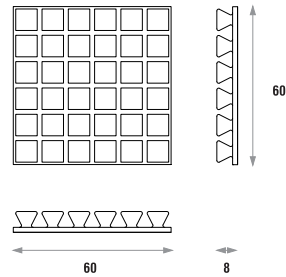
DESCRIPTION

The CUBESORB® is one of the least expensive and most popular quadratic shaped acoustic treatment absorbers made of acoustic foam. It is recommended for project spaces, vocal booths, control rooms and sound studios. The CUBESORB® is used to treat small to medium-sized rooms.

You can also use it on industry market solutions when mandatory and stronger acoustic absorption is required. Its protruding cubes form some concave grooves which cause a substantial increase of the absorption coefficient. They effectively reduce stationary waves and flutter echoes.

When used in combination with the CUBEFUSER®, the resulting scattering sound balances diffusion inside your room. Fix your room acoustics without the help of a professional.

TECHNICAL DRAWINGS



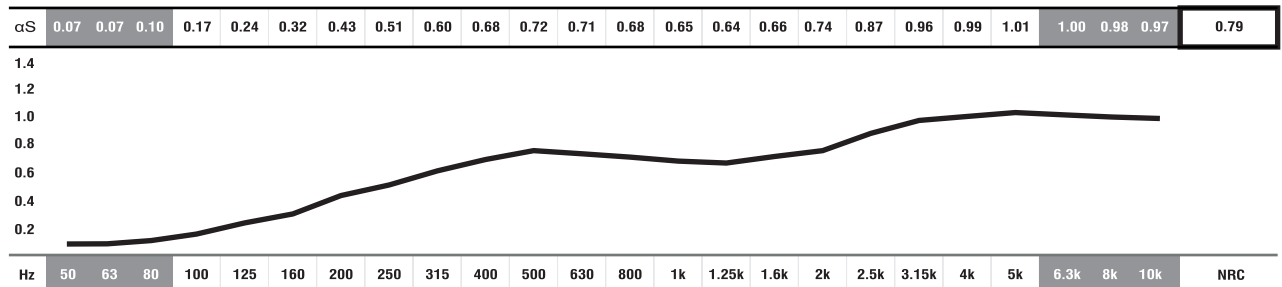
FEATURES

- NRC: **0.79/m²** [$>250\text{Hz}; <10\text{KHz}$].
- Raw material: melamine resin or standard acoustic foam.
- **MELAMIN RESIN** - Flame resistance: Germany B1, France M1, GB class1, USA V0/HF1.
- **ACOUSTIC FOAM** - Self-extinguishable M1 fire-retardant foam.
- Installation: glue or mount on "T-ceiling".
- Package: 4 units or 12 units.
- Very easy to install.

MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
CUS060	60 cm	60 cm	8 cm	0.3 Kg
CUS060TC	60 cm	60 cm	8 cm	0.5 Kg

ABSORPTION COEFFICIENT



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

■ Values [$<100\text{Hz}$ and $>5\text{K}$] are Non Standard Values.

REGULAR AND MELAMINE FOAM COLOURS



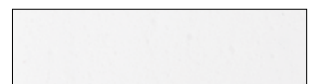
CREAM
Regular Foam
FR 25



GREY
Regular Foam
FR 25



LIGHT GREY
Melamine Foam
BTEC G



WHITE
Melamine Foam
BTEC G

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- 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 their production method and some inherent raw-materials characteristics.



CUBESORB ARC®

ABSORBENT PANEL

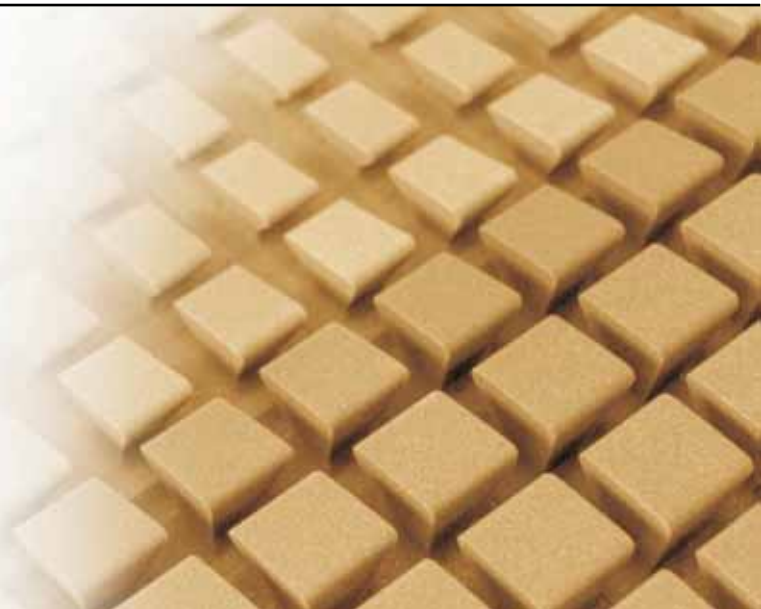


Image of pair of the 60x60cm model Ref.:CUB060A (on the left) and Ref.:CUB060A (pair) applied (ambient image).

DESCRIPTION

The CUBESORB ARC® is a quadratic-shaped acoustic treatment absorber made of self-extinguishing acoustic foam. Its geometry describes several quadrilateral and rectangular modules with different heights. When viewed from an angled perspective, the shape describes concave and convex arcs that wave uniformly, thus allowing an attractive geometric design. The CUBESORB ARC® can also be combined with the similar CUBESORB®, which has a flat appearance.

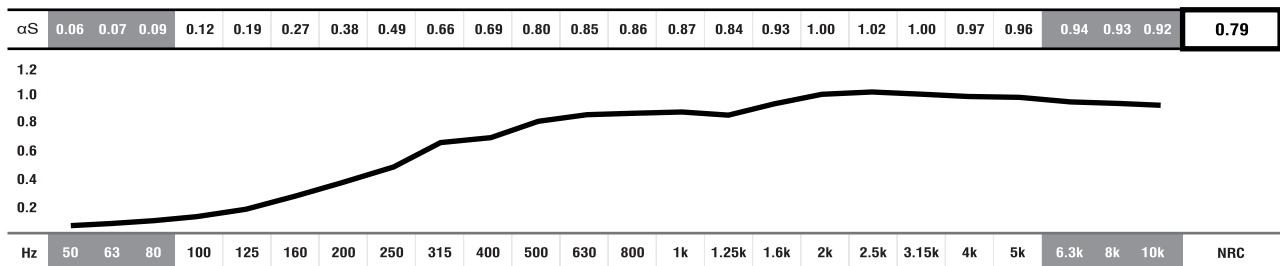
The CUBESORB ARC® is recommended for project spaces, large room environments, common workspaces, music studios and vocal booths.

This product is installed by gluing it directly to the existing surface with our recommended adhesives. It can also be used in areas that have "T-ceiling", when mandatory and stronger acoustic absorption is required. Its protruding cubes form some concave grooves, which cause a substantial increase of the absorption coefficient, thus reducing standing waves and flutter echoes for better sound intelligibility. It is a very efficient absorbent panel meant for budget-conscious acoustic projects.

FEATURES

- NRC: **0.79/m²** [$>250\text{Hz}$; $<10\text{KHz}$].
- Raw material: melamine resin or standard acoustic foam.
- **MELAMINE FOAM** - Flame resistance: Germany B1, France M1, GB Class1, USA V0/HF1.
- **ACOUSTIC FOAM** - Self-extinguishable M1 fire-retardant foam.
- Package: 4 units (2 pairs).
- Standard Dimensions: 60x60x11cm.
- Installation: glue or mount on "T-ceiling".
- Sold in pairs.

ABSORPTION COEFFICIENT



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■ Values [$<100\text{Hz}$ and $>5\text{K}$] are Non Standard Values.

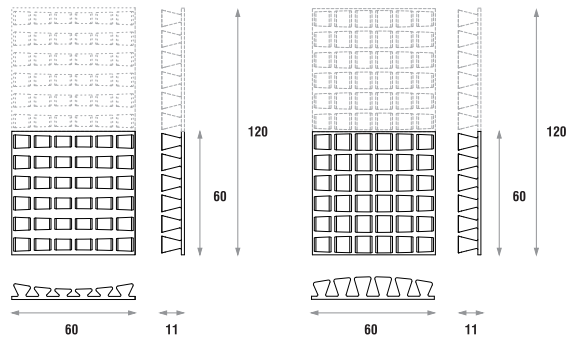
REGULAR AND MELAMINE FOAM COLOURS



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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.

TECHNICAL DRAWINGS



MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
CUB120A	120cm	60 cm	5/11 cm	0.8 Kg
CUB060A	60 cm	60 cm	5/11 cm	0.4 Kg
CUB060Atc	60 cm	60 cm	5/11 cm	0.5 Kg





FOAMSORB® /INVERTED

ABSORBENT PANEL



Image of 60x60cm models Ref.:FSO060 and Ref.:FSI060 (on the left) and Ref.:FSO060 and Ref.:FSI060 applied (ambient image).

DESCRIPTION

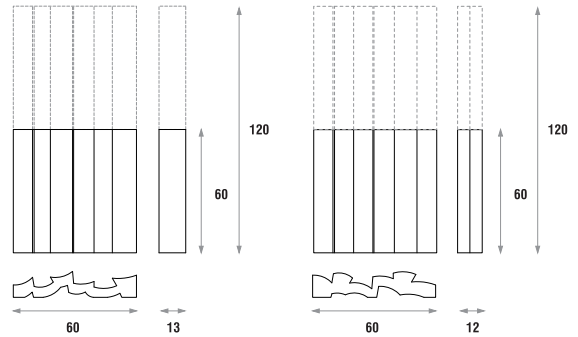
The FOAMSORB INV® absorption panels are ATP® registered products and the real mid-range absorbers from our collection. They are made of high-quality controlled-cell, self-extinguishable M1 fire-retardant acoustic foam.

The FOAMSORB INV® panels present a unique and elegant design; the male and female pieces help solve many of the rooms' acoustic anomalies.

These panels have a high absorption coefficient in the broad range of the sound spectrum, and are significantly efficient at absorbing medium-low frequencies.

In general terms, they work well on flat walls and ceilings. They can be combined with the WAVYFUSER INV® diffusion panels, which have the same shape, thus giving music rooms a truly balanced continuous acoustic treatment surface and a fine-looking design.

TECHNICAL DRAWINGS



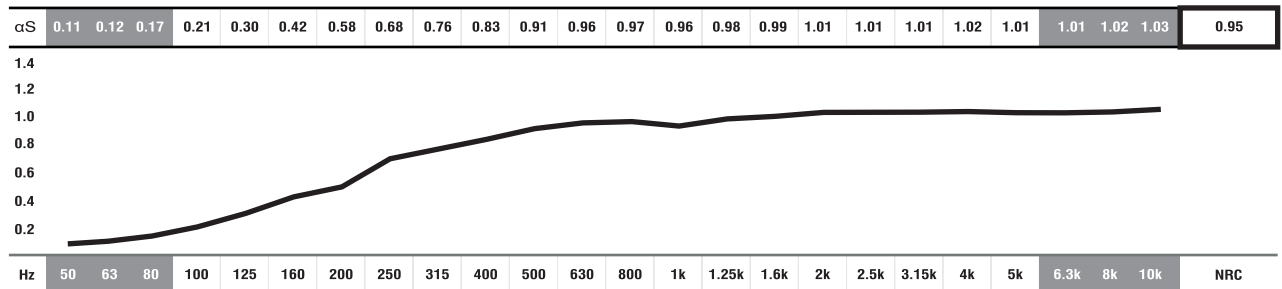
FEATURES

- NRC: **0.95/m²** [$>250\text{Hz}; <10\text{KHz}$].
- Great decorative alternatives.
- Raw material: melamine resin or standard acoustic foam.
- **MELAMIN RESIN** - Flame resistance: Germany B1, France M1, GB class1, USA V0/HF1.
- **ACOUSTIC FOAM** - Self-extinguishable M1 fire-retardant foam.
- Package: 4 units or 12 units.
- Sold in pairs.

MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
FSO120	120 cm	60 cm	13 cm	1.2 Kg
FSI120	120 cm	60 cm	12 cm	1.2 Kg
FSO060	60 cm	60 cm	13 cm	0.6 Kg
FSI060	60 cm	60 cm	12 cm	0.6 Kg

ABSORPTION COEFFICIENT



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■ Values [$<100\text{Hz}$ and $>5\text{K}$] are Non Standard Values.

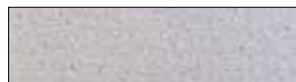
REGULAR AND MELAMINE FOAM COLOURS



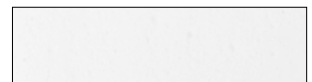
CREAM
Regular Foam
FR 25



GREY
Regular Foam
FR 25



LIGHT GREY
Melamine Foam
BTEC G



WHITE
Melamine Foam
BTEC G

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AB TWICE® ABSORBENT PANEL

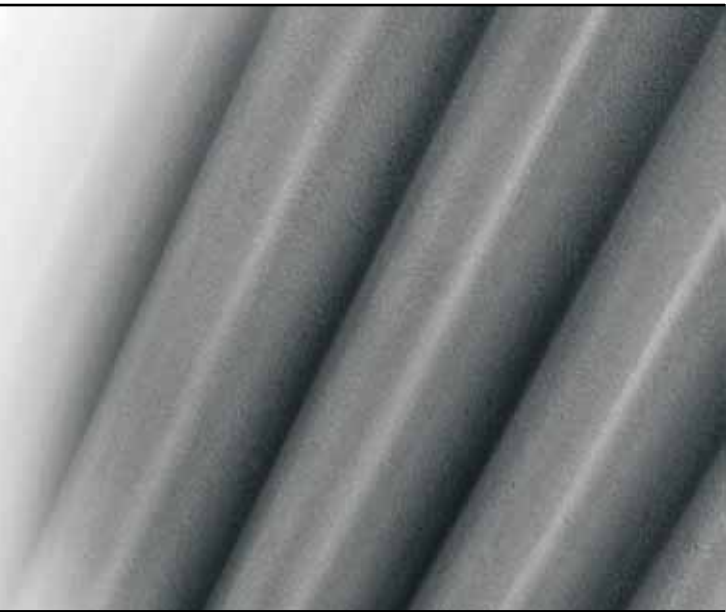


Image of 120x60cm model Ref.:ABT120 (on the left) and Ref.:ABT120 applied (ambient image).

DESCRIPTION

The AB Twice® is an acoustic treatment absorber made of self-extinguishing acoustic foam. Each model has an angular arc-shaped geometry that describes five mountains within a concept of three-dimensional geometry.

The finish of this model is of the utmost quality. Its soft finish layer improves its acoustic performance and provides a fine and "smooth like velvet" appearance. The velvet finish gives this product a distinctive feeling of comfort.

A combination of several modules makes this acoustic solution very attractive with a harmonised look.

The creation of surfaces that are efficient at absorbing sound waves becomes imperative, and that is the main feature that makes this product so relevant. This panel is meant to absorb mid-low to high range frequencies.

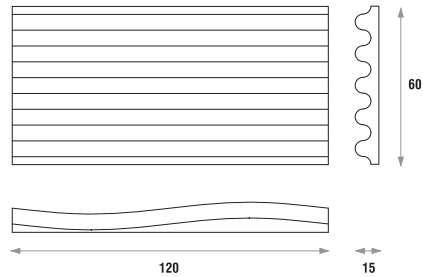
The AB Twice® is perfect to cover continuous areas of walls or ceilings as a coating material and can be used as a soundproofing reinforcement as well.

It is ideal for commercial areas, television studios, pavilions, auditoriums, meeting rooms, public spaces, etc., that need specific care regarding airborne noise control.

FEATURES

- NRC: **0.87/m²** [$>250\text{Hz}$; $<10\text{KHz}$].
- **ACOUSTIC FOAM** - Self-extinguishable M1 fire-retardant foam.
- Continuous surface treatment.
- Very easy to install.
- Package: 4 units (2 pairs) or 14 units (7 pairs).
- Standard Dimensions: 120x60x11cm.
- New shape and design recommended for continuous surface treatment.
- **FINISHINGS AVAILABLE:** Regular Foam and the **new Velvety Finishing**.
- Sold in pairs.

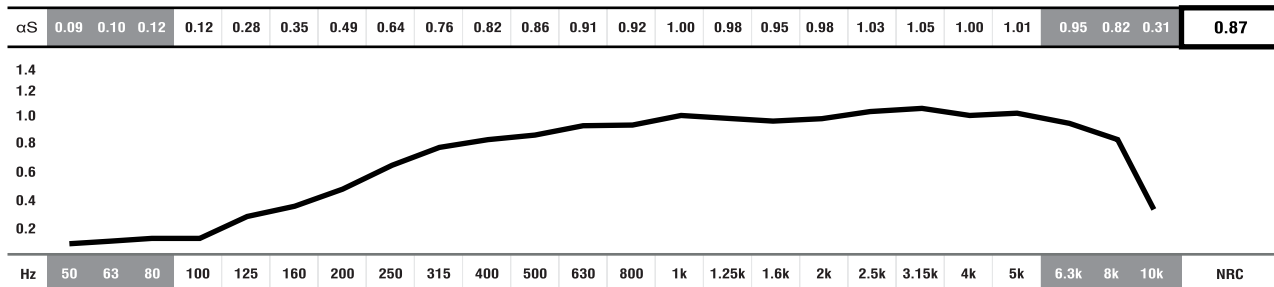
TECHNICAL DRAWINGS



MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
ABT120	120cm	60 cm	5/11 cm	0.8 Kg

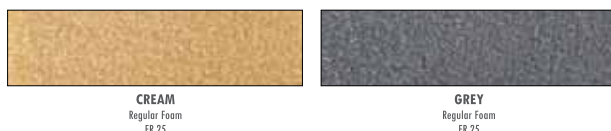
ABSORPTION COEFFICIENT



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

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REGULAR FOAM COLOURS



VELVETY COLOURS



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STRIPESORB® ABSORBENT PANEL



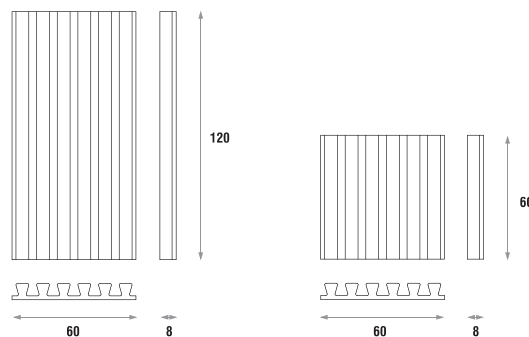
Image of 60x60cm model Ref.:STS060 (on the left) and Ref.:STS120 applied (ambient image).

DESCRIPTION

The STRIPESORB® is the panel meant for budget-conscious acoustic projects. The STRIPESORB® acoustic foam panels are cut in a simple standard method to keep them more affordable. It is a great solution to treat acoustics in small sound studios, home listening rooms and small vocal or instrument booths, by solving small flutter echo problems.

Its shape maximises the area that is exposed to the sound waves for better absorption. You can combine the STRIPESORB® with the STRIPEFUSER® diffusion panel. They have the same shape and offer great decorative alternatives.

TECHNICAL DRAWINGS



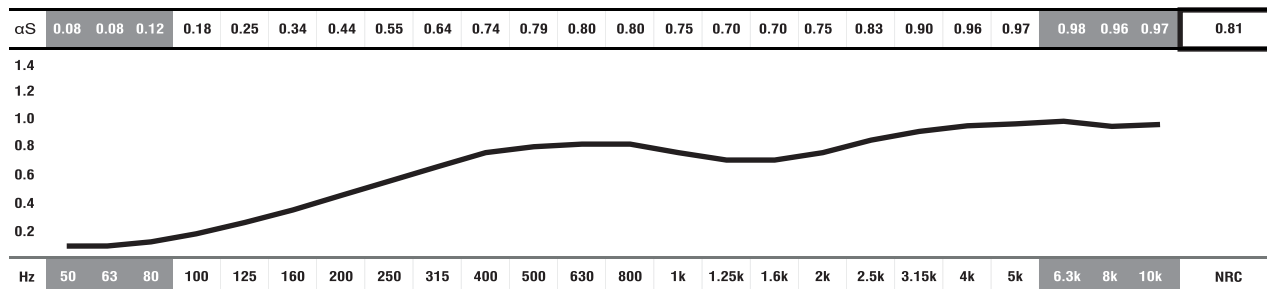
FEATURES

- NRC: **0.81/m²** [$>250\text{Hz}; <10\text{KHz}$].
- Raw material: melamine resin or standard acoustic foam.
- **MELAMIN RESIN** - Flame resistance: Germany B1, France M1, GB class1, USA V0/HF1.
- **ACOUSTIC FOAM** - Self-extinguishable M1 fire-retardant foam.
- Very easy to install.
- Package: 4 or 12 units; 4 or 8 units.

MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
STS120	120cm	60 cm	8 cm	0.8 Kg
STS060	60 cm	60 cm	8 cm	0.4 Kg

ABSORPTION COEFFICIENT



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

■ Values [$<100\text{Hz}$ and $>5\text{K}$] are Non Standard Values.

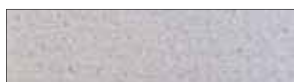
REGULAR AND MELAMINE FOAM COLOURS



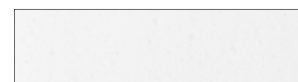
CREAM
Regular Foam
FR 25



GREY
Regular Foam
FR 25



LIGHT GREY
Melamine Foam
BTEC G



WHITE
Melamine Foam
BTEC G

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STRIPESORB ARC[®]

ABSORBENT PANEL



Image of pair of the 60x60cm model Ref.:STS060A (on the left) and Ref.:STS120A applied (ambient image).

DESCRIPTION

The STRIPESORB ARC[®] is a stripe-shaped acoustic treatment absorber made of self-extinguishing acoustic foam.

Its shape looks similar to parallel blades with angular spaces between them. It was achieved in order to have small longitudinal absorption surfaces separated by small angled incisions meant to enhance absorption.

By combining several identical modules, the shape looks like concave and convex arcs that wave uniformly, which results in an attractive geometric look. The STRIPESORB ARC[®] can also be combined with the similar STRIPESORB[®], which has a flat appearance.

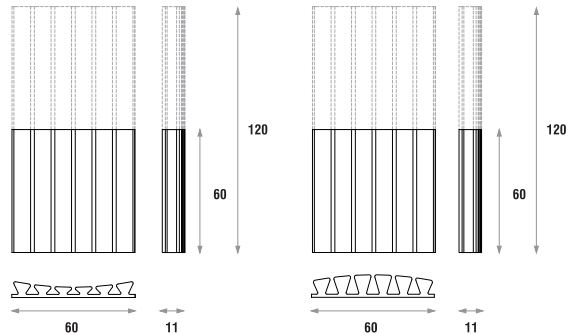
The STRIPESORB ARC[®] acoustic foam panel is cut in a simple standard method to keep it more affordable. It is recommended for project spaces, large room environments, common workspaces, music studios, listening rooms, as well as small booths. This model can be applied on large continuous ceiling areas when mandatory and stronger acoustic absorption is required, by solving small flutter echo problems. Its shape maximises the area that is exposed to sound waves for better absorption.

The STRIPESORB ARC[®] is installed by gluing it directly to the existing surface with our recommended adhesives.

FEATURES

- NRC: **0.81/m²** [$>250\text{Hz}$; $<10\text{kHz}$].
- Raw material: melamine resin or standard acoustic foam.
- **MELAMINE FOAM** - Flame resistance: Germany B1, France M1, GB Class1, USA V0/HF1.
- **ACOUSTIC FOAM** - Self-extinguishable M1 fire-retardant foam.
- Package: 4(2 pairs), 8(4 pairs) or 14(7 pairs) units.
- Standard Dimensions: 60x60x11cm and 120x60x11cm.
- New shape and design recommended for continuous surface treatment.
- Sold in pairs.

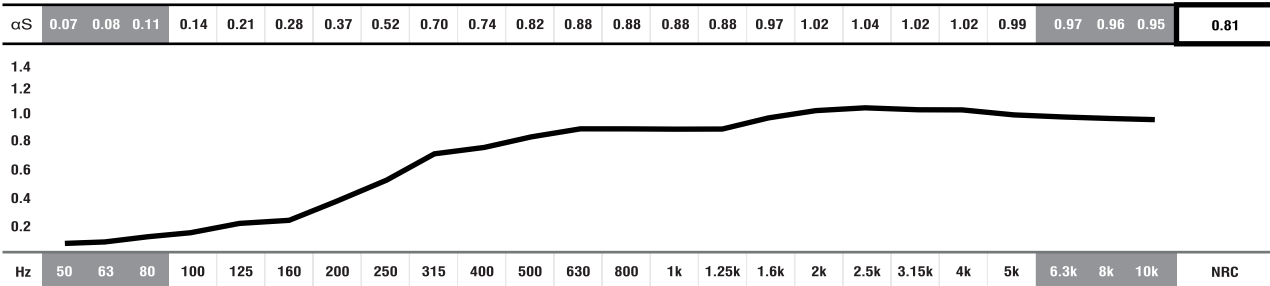
TECHNICAL DRAWINGS



MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
STS120A	120cm	60 cm	11/5 cm	0.8 Kg
STS060A	60 cm	60 cm	11/5 cm	0.4 Kg

ABSORPTION COEFFICIENT



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■ Values [$<100\text{Hz}$ and $>5\text{K}$] are Non Standard Values.

REGULAR AND MELAMINE FOAM COLOURS



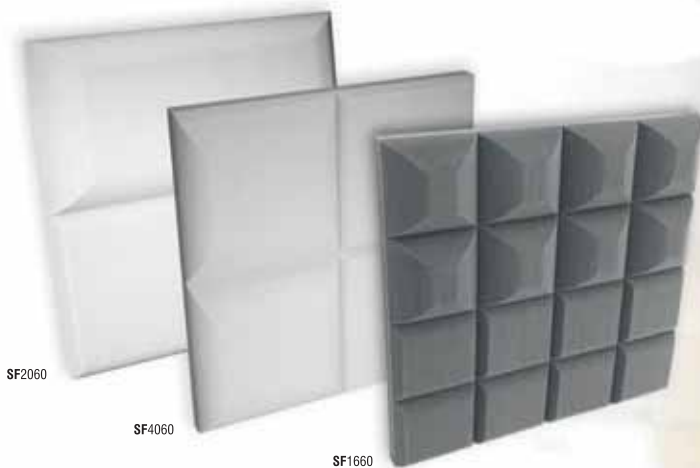
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- Typical Indoor Comfort Standards state a temperature range of 20°C - 27°C (68°F - 81°F), and a relative humidity of less than 60%. These would be considered as normal operational levels of JOCABI[®] products' range.
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SEAFOAM® ABSORBENT PANEL



SF2060

SF4060

SF1660

Image of 60x60cm models Ref.:SF0260, Ref.:SF0460 and Ref.:SF1660 (on the left) and Ref.:SF0260 and SF0460 applied (ambient image).

DESCRIPTION

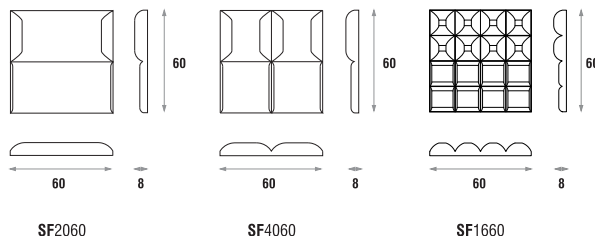
The SEAFOAM® is made of a flexible open-cell foam from melamine resin, a thermoset polymer. This foam is characterised by its three-dimensional network structure which consists of easily shaped thin filaments. The sound waves penetrate the open-cell structure, thus reducing the reflected energy and giving this product an excellent sound absorption capacity.

Due to its low weight, the SEAFOAM® allows the creation of large-surface elements that seem to be free-floating, giving rooms an attractive appearance. The simple installation method does not require any additional structural or engineering calculations. Working areas which are exposed to high levels of noise, such as industrial areas, pavilions, among others, can be acoustically restored at a low cost, by reequipping them with these lightweight absorbers. We can make specific shapes and sizes for large projects upon demand. The SEAFOAM®'s acoustic and safety characteristics make this product ideal for use as a noise control and sound insulation device in buildings that have demanding requirements against fire. It improves acoustics and soundproofing, thereby providing safety in accordance with environmental standards.

FEATURES

- NRC: **0.80/m²**.
- Raw material: melamine resin or standard acoustic foam.
- **MELAMIN RESIN** - Flame resistance: Germany B1, France M1, GB class1, USA V0/HF1.
- Good thermal insulation properties and humidity tolerance.
- Constant physical properties over a wide temperature range.
- Resistance to all organic solvents.
- **ACOUSTIC FOAM** - Self-extinguishable M1 fire-retardant foam.
- Package: 8 units.

TECHNICAL DRAWINGS



SF2060

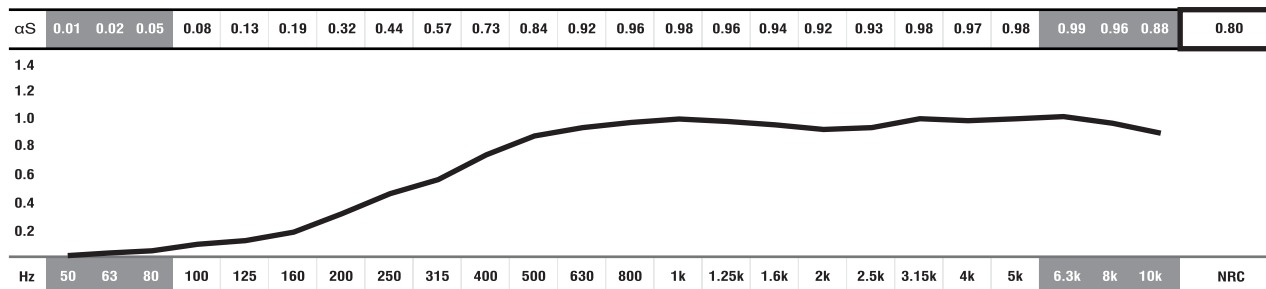
SF4060

SF1660

MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
SF2060	60 cm	60 cm	8 cm	0.60 Kg
SF4060	60 cm	60 cm	8 cm	0.60 Kg
SF1660	60 cm	60 cm	8 cm	0.60 Kg

ABSORPTION COEFFICIENT*

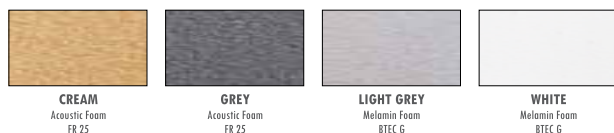


■ ABSORPTION COEFFICIENT: Values in accordance with the standards: EN 20654, ASTM C423 and EN 11654.

■ Values (< 100Hz and > 5K) are Non Standard Values.

*PANEL DATA ONLY OF REF.: SF0460 REGULAR FOAM.

REGULAR AND MELAMINE FOAM COLOURS



VELVETY COLOURS



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SNOWSORBER®

ABSORBENT PANEL



Image of 60x60cm model Ref.:SNW060 (on the left) and Ref.:SNW060 applied (ambient image).

DESCRIPTION

In order to expand the range of options available on absorption panels, ATP® created the SNOWSORBER® with an attractive shape. This model can also be used as a soundproofing reinforcement material.

This panel has a simple aesthetic format that allows various different combinations. It is ideal to be mounted on walls and ceilings, on continuous surfaces or selected spots by combining it with other models.

It is made of regular acoustic foam or of melamine foam as an option.

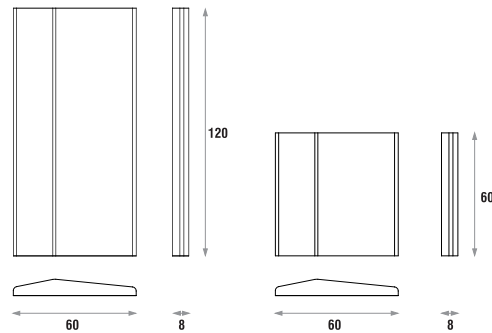
Commercial areas, Television studios, Pavilions, auditoriums, meeting rooms, public spaces, etc., need specific care regarding airborne noise control. The creation of surfaces that are efficient at absorbing sound waves becomes imperative, and that is the main feature that makes this product so relevant.

Due to its high absorption coefficient and low cost, the SNOWSORBER® is specifically recommended product for the acoustic treatment of large areas. It can be easily cut with a knife to be adjusted to the dimensions of walls and ceilings.

FEATURES

- NRC: **0.90/m²** [$>250\text{Hz}; <10\text{kHz}$].
- Raw material: melamine resin or standard acoustic foam.
- **MELAMIN RESIN** - Flame resistance: Germany B1, France M1, GB class1, USA V0/HF1.
- **ACOUSTIC FOAM** - Self-extinguishable M1 fire-retardant foam.
- 100% recyclable.
- Package: 4 and 12 units.

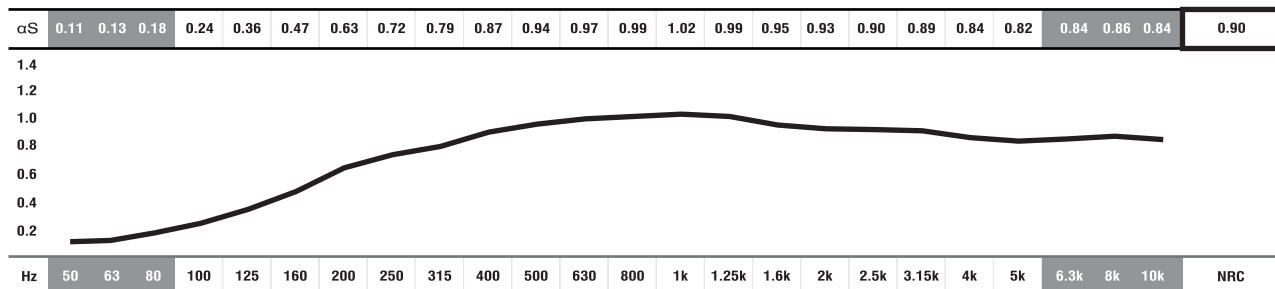
TECHNICAL DRAWINGS



MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
SNW120	120 cm	60 cm	8 cm	1.2 Kg
SNW060	60 cm	60 cm	8 cm	0.6 Kg

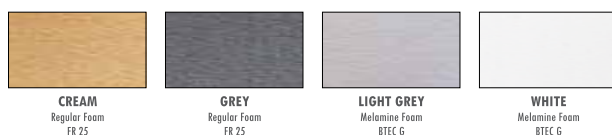
ABSORPTION COEFFICIENT



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

■ Values [$<100\text{Hz}$ and $>5\text{K}$] are Non Standard Values.

REGULAR AND MELAMINE FOAM COLOURS



VELVETY COLOURS



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- 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.
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SWELL®
ABSORBENT PANEL

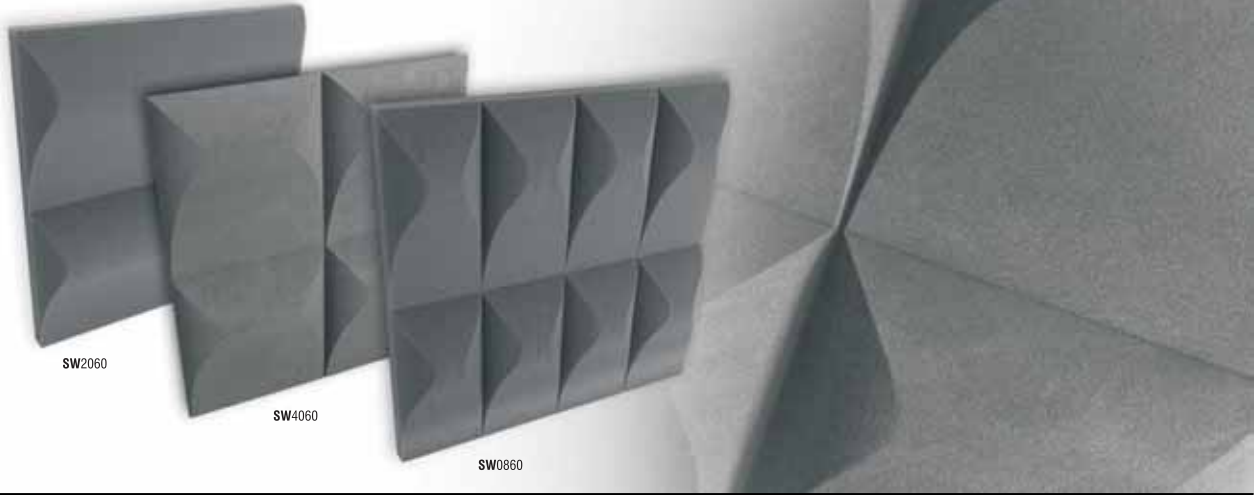


Image of 60x60cm models Ref.:SW0260, Ref.:SW0460 and Ref.:SW0860 (on the left) and Ref.:SW0460 applied (ambient image).

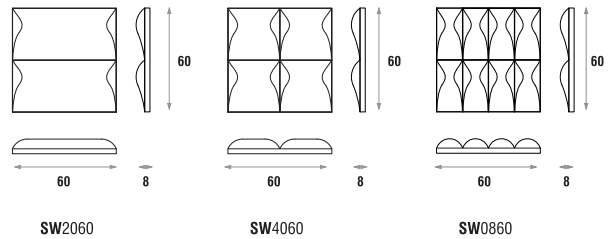
DESCRIPTION

The SWELL® model is an absorbent panel made of self-extinguishing acoustic foam or melamine foam as an option, thus meeting the highest fire protection requirements. We recommend this model for lining the continuous surfaces of walls and ceilings, which enables a high absorption coefficient and an important sound insulation as well.

The SWELL® can be used as a sound barrier and airborne noise reduction for various types of rooms: commercial areas, television studios, pavilions, auditoriums, meeting rooms, public spaces, etc..

It is a very functional and decorative finishing that meets the performance and aesthetic attributes. Several aesthetic combinations are possible by turning the panel by 90 degrees. It can be easily cut with a knife to be adjusted to the dimensions of walls and ceilings.

TECHNICAL DRAWINGS



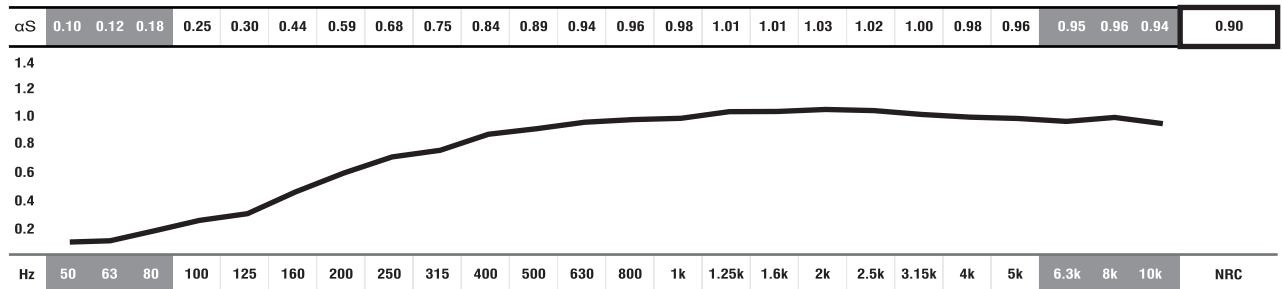
FEATURES

- NRC: **0.90/m²** [$>250\text{Hz}; <10\text{KHz}$].
- Raw material: melamine resin or standard acoustic foam.
- **MELAMIN RESIN** - Flame resistance: Germany B1, France M1, GB class1, USA V0/HF1.
- **ACOUSTIC FOAM** - Self-extinguishable M1 fire-retardant foam.
- Package: 4 units.
- Very easy to install.

MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
SW2060	60 cm	60 cm	8 cm	0.60 Kg
SW4060	60 cm	60 cm	8 cm	0.60 Kg
SW8060	60 cm	60 cm	8 cm	0.60 Kg

ABSORPTION COEFFICIENT*



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

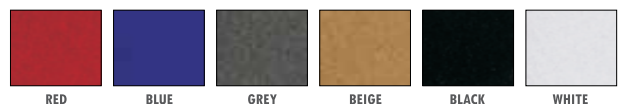
■ Values [$<100\text{Hz}$ and $>5\text{K}$] are Non Standard Values.

*PANEL DATA ONLY OF REF.: SW0460 REGULAR FOAM.

REGULAR AND MELAMINE FOAM COLOURS



VELVETY COLOURS



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Image of a pair of the 90x30cm model Ref.:DAT090 (on the left) and Ref.:DAT090 applied (ambient image).

DESCRIPTION

The DECOART® is an acoustic treatment absorber made of self-extinguishing acoustic foam. It has an angular arc-shaped geometry describing two mountains "up and down" that make it very attractive when combined with numerous modules.

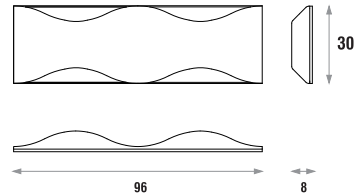
When observed from a perpendicular perspective, it has a beautiful and harmonised appearance, which is particularly attractive for common areas in public spaces.

The creation of surfaces that are efficient at absorbing sound waves becomes imperative, and that is the main feature that makes this product so relevant.

The DECOART® is perfect to cover continuous areas of walls or ceilings as a coating material and can be used as a soundproofing reinforcement as well.

It is ideal for commercial areas, television studios, pavilions, auditoriums, meeting rooms, public spaces, etc., that need specific care regarding airborne noise control. It can be easily cut with a knife to be adjusted to the dimensions of walls and ceilings.

TECHNICAL DRAWINGS



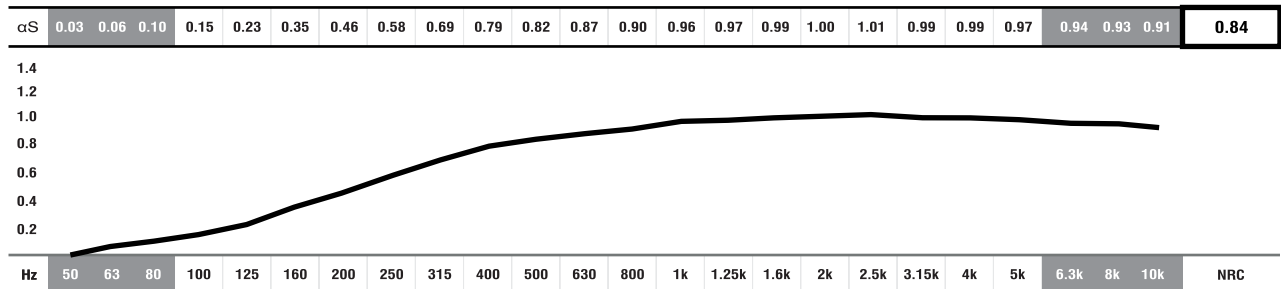
FEATURES

- NRC: **0.84/m²** [$>250\text{Hz}$; $<10\text{KHz}$].
- Raw material: standard acoustic foam.
- **ACOUSTIC FOAM** - Self-extinguishable M1 fire-retardant foam.
- Very easy to install.
- Package: 16 units (8 pairs).
- Standard Dimensions: 96x30x8cm.
- New shape and design recommended for continuous surface treatment.
- **FINISHINGS AVAILABLE:** Regular Foam and the **new Velvety Finishing**
- Sold in pairs

MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
DAT096 (pair)	96cm	30 cm	8 cm	0.9 Kg (pair)

ABSORPTION COEFFICIENT

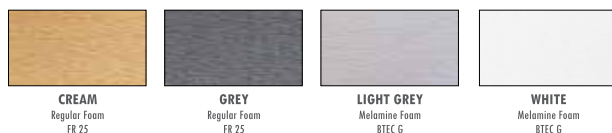


■ ABSORPTION COEFFICIENT: Values in accordance with the standards: EN 20654, ASTM C423 and EN 11654.

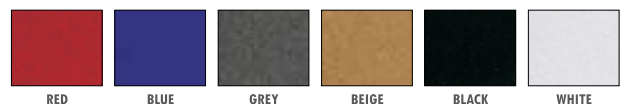
■ Values [$<100\text{Hz}$ and $>5\text{K}$] are Non Standard Values.

*PANEL DATA ONLY OF REF.: DAT096 REGULAR FOAM.

REGULAR AND MELAMINE FOAM COLOURS



VELVETY COLOURS



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BASMEL[®] ABSORBENT PANEL

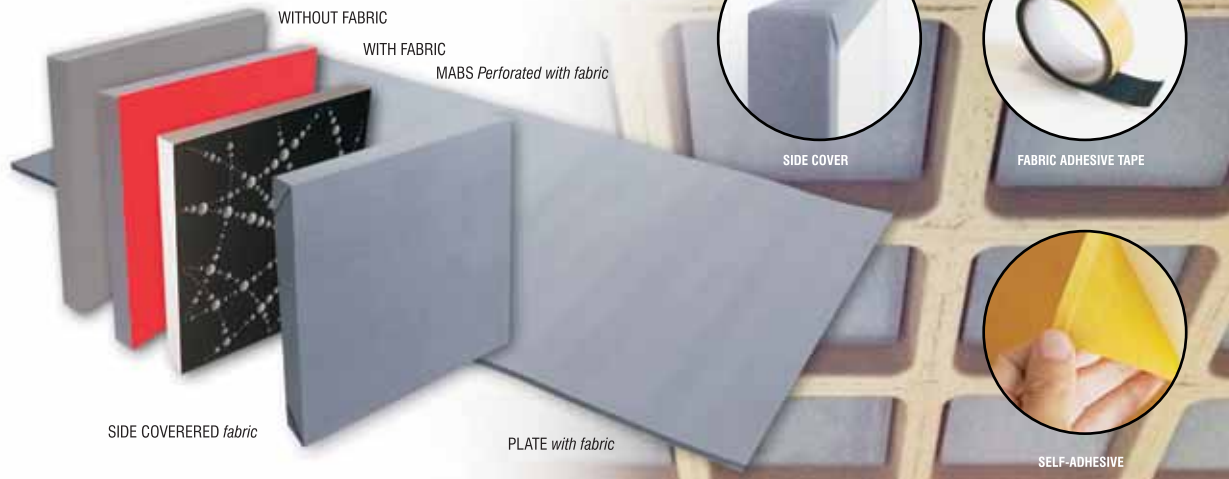


Image of 60x60cm models Ref.:BAL060 fabric (Red),Ref.:BAL060 and Ref.:BAM060 (perforated with black fabric), the new BAL060sc, the BAL200.4 (plate with fabric) and Ref.:BAL060 fabric applied (ambient image).

DESCRIPTION

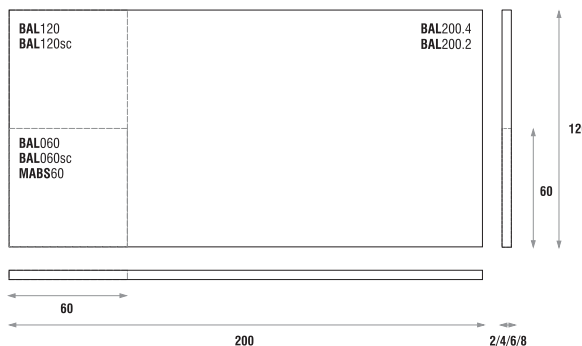
BASMEL[®] is a low-cost acoustic panel to be applied in large quantities on ceilings and walls. He is made of flexible open-cell melamine resin foam or of regular Acoustic Foam, a thermoset polymer and a fire-resistant fabric-finishing surface. The sound waves penetrate the open-cell structure, thus reducing the reflected energy and giving this product an excellent sound absorption capacity.

There are two available options; one flat (BAL060/120) and another one perforated (MABS060) with the same pattern from the COSMOS[®] model. This product is available with a fabric cover and a simpler version without the fabric finishing.

Is available with self-adhesive on the back which allows a very fast and easy installation. To conceal the union between the panels, we also have, as an option, a roll of fabric adhesive tape that can be applied.

The BASMEL[®]'s acoustic and safety characteristics make this product ideal for use as a noise control and sound insulation device in buildings that have demanding requirements against fire. It improves acoustics and soundproofing, thereby providing safety in accordance with environmental standards.

TECHNICAL DRAWINGS



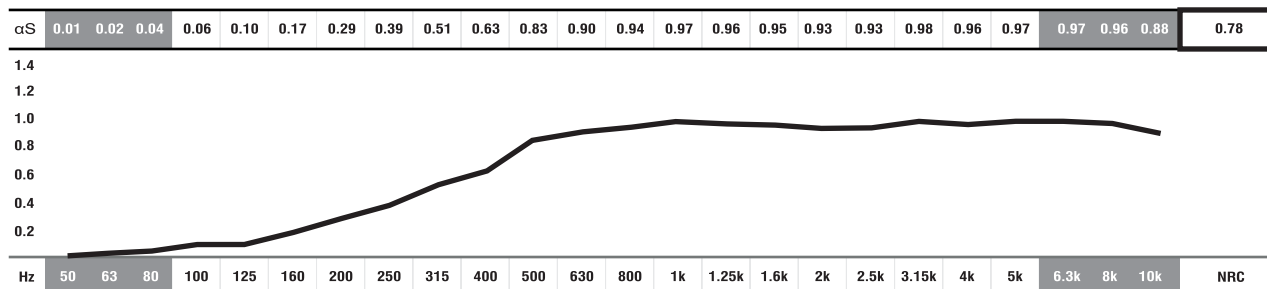
FEATURES

- NRC: **0.80/m²** (40mm), **0.54/m²** (20mm).
- Raw material: melamine resin or standard acoustic foam.
- **MELAMIN RESIN** - Flame resistance: Germany B1, France M1, GB class1, USA V0/HF1.
- Good thermal insulation properties humidity tolerance.
- Constant physical properties over a wide temperature range.
- Resistance to all organic solvents.
- **ACOUSTIC FOAM** - Self-extinguishable M1 fire-retardant foam.
- Package: 8 units.
- Mounting glue and **FABRIC ADHESIVE FINISHING TAPE** sold separately.
- **SELF-ADHESIVE** option available on request.

MODELS AND SIZES

MODELS	RF Regular Foam	MF Melamine Foam	FRF Fabric RF	FMF Fabric MF	SA Self-Adhesive	SIZES (cm)	WEIGHT (Kg)
BAL120	X	X	X	X	X	120x60x4	0.60/0.44
BAL060	X	X	X	X	X	60x60x4	0.30/0.22
BAL200.4	X	X	X	X	X	200x120x4	2.24/1.52
BAL200.2	X	X	X	X	X	200x120x2	1.48/0.76
BAL120sc				X	X	120x60x8	0.62/0.46
BAL060sc				X	X	60x60x8	0.31/0.23
MABS060	X	X	X	X	X	60x60x4cm	0.21
Fabric Tape						500x3cm	

ABSORPTION COEFFICIENT*

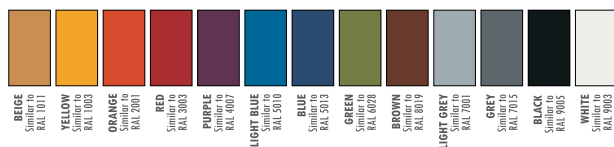


■ ABSORPTION COEFFICIENT: Values in accordance with the standards: EN 20654, ASTM C423 and EN 11654.

■ Values (< 100Hz and > 5K) are Non Standard Values.

*PANEL DATA ONLY OF REF.: BAL060 REGULAR FOAM WITH FABRIC FINISHING.

STANDARD FABRIC COLOURS



REGULAR AND MELAMINE FOAM COLOURS



IMPORTANT NOTICES

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- RAL[®] is an international independent colour standard system partner for industry, trade, architecture and design. Should be consulted before placing any order.
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WATERCOT®

ABSORBENT PANEL - SUSPENDED AND WALL PANELS



WATERCOT® WAL
REF: WAW070

WATERCOT® BAF
REF: WAB070



WAB070



WAW070

Image of Watercot® models Ref..WAW070 (on the left) and Ref..WAB070 models. Watercot® WAL model (ambient image).

DESCRIPTION

This model comes in two versions: the WATERCOT®BAF, which is a suspension baffle for ceilings, and the WATERCOT®WAL, which is a covering material for walls and ceilings. The latter is provided with its own glue, a self-adhesive film, and it is very easily applied.

The WATERCOT® is manufactured with one component only, i.e., closed-cell polyethylene foam, whose cells are open by perforation at a later process during manufacture. The result is a very efficient material for acoustic treatment.

The several advantages of this product are its weight, price, durability and moisture resistance. When compared to other similar materials, i.e., polyester-foam and melamine-foam, this material has distinct advantages which allow its use in rather wet environments and outdoors, given its resistance to moisture and water.

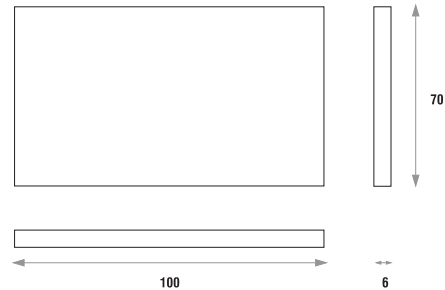
One of the key features of this foam is actually its capacity to remain physically and acoustically unchanged when exposed to water and moisture.

These two products, the WATERCOT®WAL and the WATERCOT®BAF, are yet another option of acoustic treatment provided by JOCAVI®, mainly when both moisture and fire resistance requirements are essential criteria. It is a mandatory tool for airborne noise control problems and a very low-cost solution.

FEATURES

- Excellent acoustic properties NRC: (**Watercot® WAL - 0.82/m²**) and (**Watercot® BAF - 0.86/m²**)
- It withstands the direct contact with water and may be washed by water pressure.
- Water absorption: %Vol. (28d-95%HR) < 4 %vol. Density: 30kg/m³
- No volatile mineral fibres.
- Fire Reaction: meets all fire policies required for the Building & Construction DIN 4102 B1 Class.
- Low average weight that allows light fastening structures.
- Easy installation: **Self-adhesive Watercot® WAL and Watercot® BAF suspension panel.**

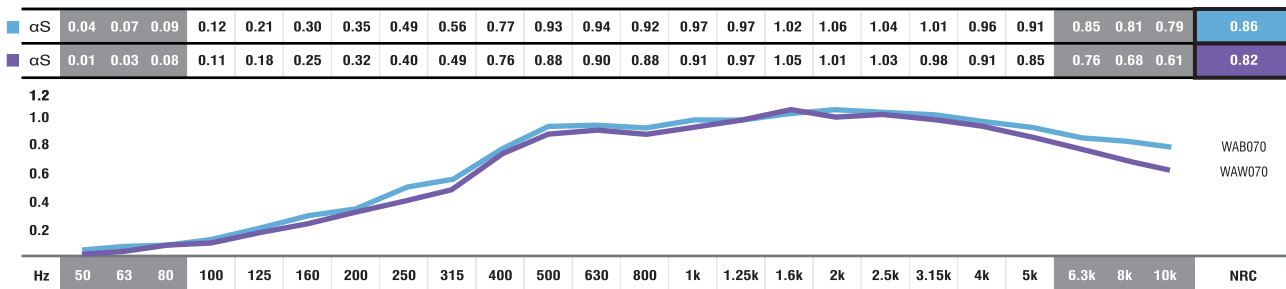
TECHNICAL DRAWINGS



MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
WAW120	120 cm	60 cm	6 cm	0.46 Kg
WAB120	120 cm	60 cm	6 cm	0.44 Kg

ABSORPTION COEFFICIENT



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

■ Watercot® BAF model: values obtained with one panel per m², suspended from the ceiling.

■ Watercot® WAL model: values obtained with one panel per m², with the product glued to a concrete wall.

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

STANDARD COLOURS



WHITE



BLACK

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WIDEBAFFLE® ABSORBENT PANEL



WBF120

WLS120



Image of 120x60cm models Ref.:WBF120 and Ref.:WLS120 (on the left) and Ref.:WBF120 applied (ambient image).

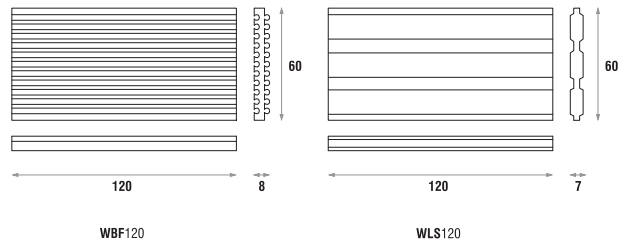
DESCRIPTION

WIDEBAFFLE® is our acoustic baffle to be applied in large rooms. This baffle is ideal to reduce reverberation time and airborne noise in gyms, pools, cafeterias, churches, schools, nightclubs, metal buildings and multipurpose rooms. It is a mandatory tool for airborne noise control problems and a very low cost solution.

The WIDEBAFFLE® is easy to install and can be assembled in very different aesthetic combinations. These sound baffles are typically suspended from the ceiling, and may also be used as acoustic wall panels, helping decrease the reflected sound energy.

And now we have another model with the same efficiency but with a different design, the WIDEBAFFLE LS®.

TECHNICAL DRAWINGS



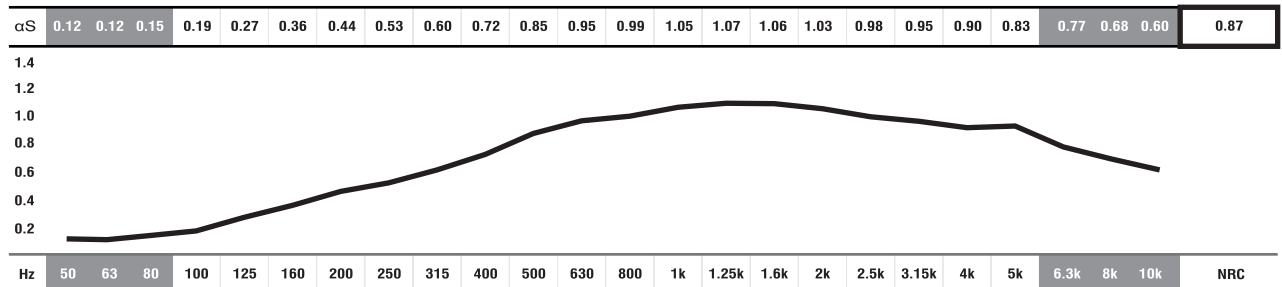
FEATURES

- NRC: **0.87/m²** [$>250\text{Hz}; <10\text{KHz}$].
- Raw material: melamine resin or standard acoustic foam.
- **MELAMIN RESIN** - Flame resistance: Germany B1, France M1, GB class1, USA V0/HF1.
- **ACOUSTIC FOAM** - Self-extinguishable M1 fire-retardant foam.
- Package: 5 units or 12 units.
- Very easy to install.

MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
WBF120	120 cm	60 cm	8 cm	1 Kg
WLS120	120 cm	60 cm	7 cm	1 Kg

ABSORPTION COEFFICIENT



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

■ Values [$<100\text{Hz}$ and $>5\text{K}$] are Non Standard Values.

*PANEL DATA ONLY OF REF.: WBF120 REGULAR FOAM.

REGULAR AND MELAMINE FOAM COLOURS



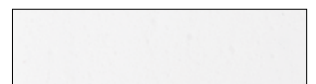
CREAM
Regular Foam
FR 25



GREY
Regular Foam
FR 25



LIGHT GREY
Melamine Foam
BTEC G



WHITE
Melamine Foam
BTEC G

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TRAP[®] 30R / 30S / 40

ABSORBENT PANEL



Image of 120x30cm models Ref.:T3R120 and Ref.:T3S120 (on the left) and Ref.:T3S120 applied (ambient image).

Image of the both size models Ref.:T4S120 and T4S060 (on the left).

DESCRIPTION

TRAP 30S[®] and TRAP 30R[®] are node reduction tools of low-frequencies. They are made of high-quality controlled-cell, self-extinguishable M1 fire-retardant acoustic foam. Bass corners' absorbers are substantially adequate to control nodes in rooms. This simple and affordable solution provides immediate results for those who do not want time-consuming building solutions. The TRAP 30S[®] and TRAP 30R[®] are effective low-frequency smoothing panels at a price affordable to everybody.

This model proposes two optional shapes: one with straight lines and another one with curved lines.

The TRAP[®]40S is a low frequencies reduction tool. It is made of high-quality controlled-cell, self-extinguishable M1 fire-retardant acoustic foam.

Bass corners' absorbers are substantially recommended to control Low Frequencies in rooms.

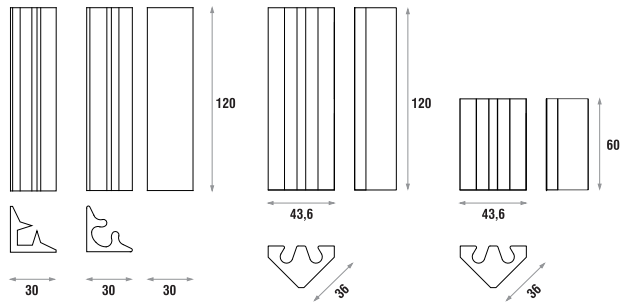
The TRAP[®]40S is an effective low-frequency absorber panel used for corners, meant to be placed in 90° corners.

This model proposes an attractive shape with curved lines at a very affordable price.

FEATURES

- NRC: TRAP 30S/R 0.86/m²; TRAP 40S 0.84/m² [$>250\text{Hz}; <10\text{kHz}$].
- Raw material: standard acoustic foam.
- **ACOUSTIC FOAM** - Self-extinguishable M1 fire-retardant foam.
- Very easy to install.
- Package: 4 units.
- **NEW FINISHINGS AVAILABLE:** Regular Foam and the new **Velvety Finishing**.

TECHNICAL DRAWINGS

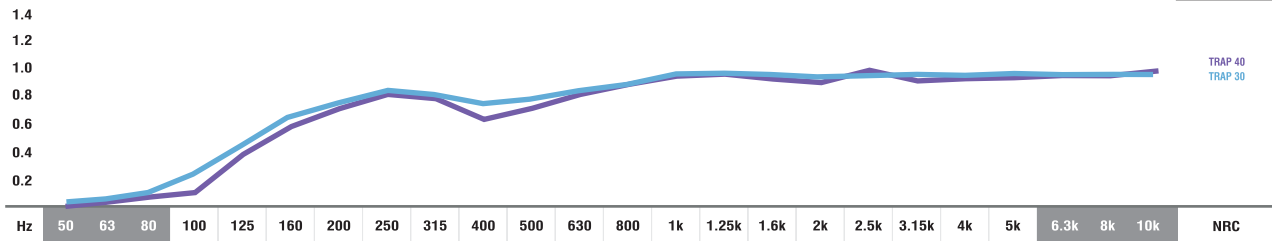


MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
T3S120	120 cm	30 cm	30 cm	0.9 Kg
T3R120	120 cm	30 cm	30 cm	0.9 Kg
T40120	120cm	43.6 cm	36 cm	1.8 Kg
T40060	60 cm	43.6 cm	36 cm	0.9 Kg

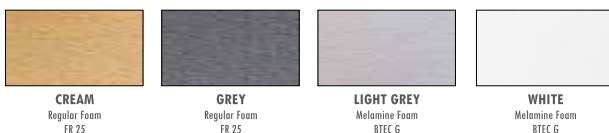
ABSORPTION COEFFICIENT

αS	0.04	0.05	0.10	0.24	0.44	0.64	0.75	0.82	0.80	0.73	0.76	0.82	0.88	0.95	0.96	0.95	0.92	0.93	0.94	0.93	0.94	0.95	0.95	0.95	0.86
αS	0.00	0.02	0.06	0.11	0.39	0.58	0.70	0.80	0.77	0.63	0.71	0.80	0.87	0.94	0.95	0.93	0.89	0.97	0.91	0.93	0.94	0.95	0.95	0.97	0.84



■ ■ ABSORPTION COEFFICIENT: Values in accordance with the standards: EN 20654, ASTM C423 and EN 11654. ■ Values [$<100\text{Hz}$ and $>5\text{K}$] are Non Standard Values.

REGULAR AND MELAMINE FOAM COLOURS



VELVETY COLOURS



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LF CAMOU[®] TUNED ABSORPTION PANEL



Image of 60x60cm model Ref.:LFA060 (on the left) and Ref.:LFA060 applied (ambient image).

DESCRIPTION

The LF CAMOU[®] is a low-frequency absorptant panel suitable for applying in the 90° corners of rooms. The absorption peak of this panel is at 100 Hz. It combines a high-density foam box with JOCAVI[™]'s fabric finishing. It has exactly the same finishing as the CAMOU[®] absorptant panel, so we can combine the two models with the same aesthetics. The combined use with CAMOU[®] will increase the absorption of the nearest harmonic frequencies.

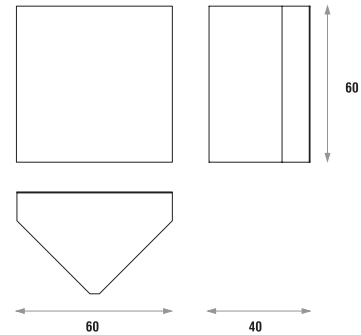
The closed resonance chamber has sufficient mass and density to provide a very concentrated and effective absorption coefficient. This panel will become one of the most efficient and inexpensive offers in the market for low-frequency absorbent materials.

This panel is mounted by pasting it with our recommended adhesive glue.

The LF CAMOU[®] is designed to fit and match the CAMOU[®] or any other 80mm thickness models.

In order to boost bass absorption, we recommend that you use a number of panels enough to fill all the edge corners of the room.

TECHNICAL DRAWINGS



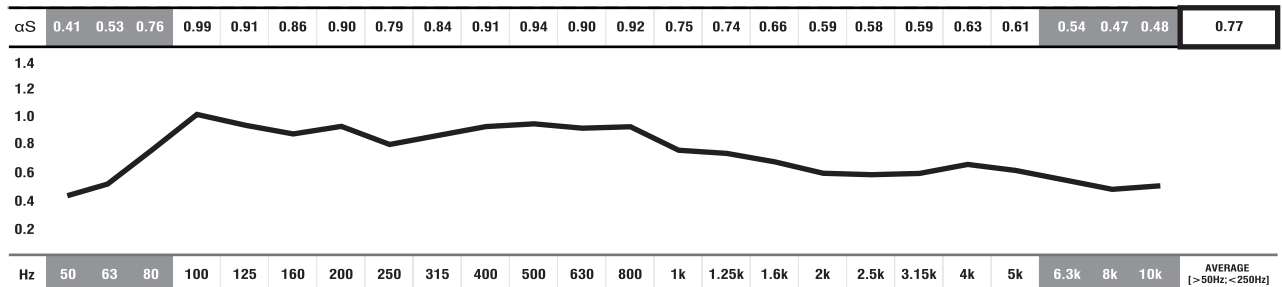
FEATURES

- Average absorption: **0.77/m²** [$>63\text{Hz}; <500\text{Hz}$].
- Tuned to 100 Hz.
- Made up of high-density foam.
- Fabric finishing plate.
- Designed to fit and match any 80mm thickness models.
- Self-extinguishable M1 fire-retardant acoustic foam.
- Package: 2 units.
- Very easy to install.

MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
LFA060	60 cm	60 cm	40 cm	4.4 Kg

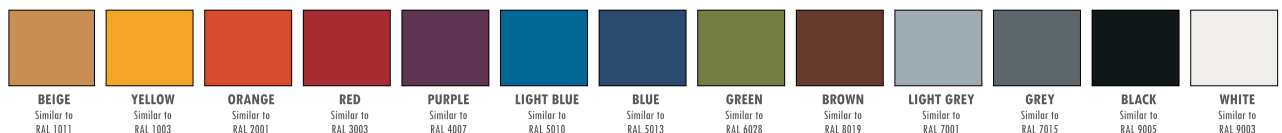
ABSORPTION COEFFICIENT



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

■ Values [$<100\text{Hz}$ and $>5\text{k}$] are Non Standard Values.

STANDARD FABRIC COLOURS



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LF COSMOS[®]

TUNED ABSORPTION PANEL



Image of 60x60cm model Ref.:LF0060 (on the left) and Ref.:LF0060 applied (ambient image).

DESCRIPTION

The LF COSMOS[®] is a low-frequency absorber panel suitable for applying in the 90° corners of rooms. The absorption peak of this panel is at 100 Hz. It combines a high-density foam box with JOCAVI[®]'s melamin faced board finishings. It has exactly the same finishing as the COSMOS[®] absorber panel, so we can combine the two models with the same aesthetics. The combined use with COSMOS[®] will increase the absorption of the nearest harmonic frequencies.

The closed resonance chamber has sufficient mass and density to provide a very concentrated and effective absorption coefficient. This panel will become one of the most efficient and inexpensive offers in the market for low-frequency absorber materials.

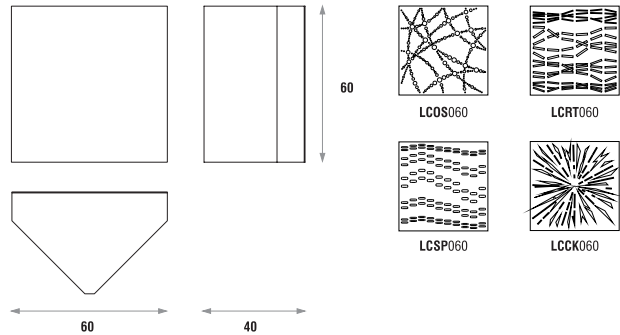
This panel is mounted by pasting it with our recommended adhesive glue. The LF COSMOS[®] is designed to fit and match the COSMOS[®] or any other 80mm thickness models.

In order to boost bass absorption, we recommend that you use a number of panels enough to fill all the edge corners of the room.

FEATURES

- Average absorption: **0.75/m²** [$>63\text{Hz}; <500\text{Hz}$].
- Tuned to 100 Hz.
- Made up of high-density foam.
- 4 perforations and 6 melamine faced boards finishings.
- Designed to fit and match any 80mm thickness models.
- Self-extinguishable M1 fire-retardant acoustic foam.
- Package: 2 units.
- Very easy to install.

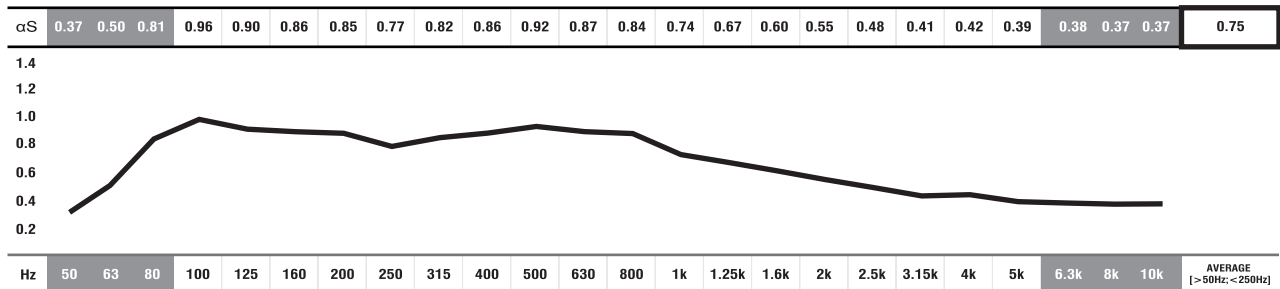
TECHNICAL DRAWINGS



MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
LF0060	60 cm	60 cm	40 cm	4.4 Kg

ABSORPTION COEFFICIENT



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MELAMIN FACED BOARD FINISHINGS



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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 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.
- 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.





BASSKEEPER WALL®

TUNED ABSORPTION PANEL



Image of 120x60cm model Ref.:BKW120 (on the left) and Ref.:BKW120 applied (ambient image).

DESCRIPTION

The BASSKEEPER WALL® is the ATP® solution for the absorption of low frequencies and it is meant to be mounted on walls and ceilings.

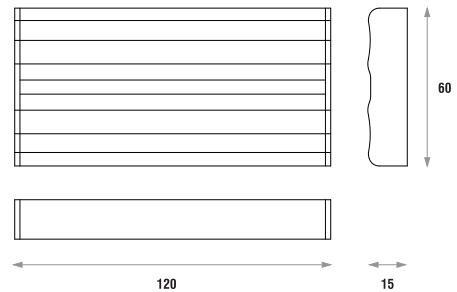
When combined with the BASSKEEPER ANGLE®, it provides the best ATP® choice among the low-frequency products.

This bass trap is an open resonance box model, tuned to 160 Hz, like the BASSKEEPER ANGLE®, and you can match them. These two products together provide a true linear tool and a first-class approach to tame low frequencies and take perfect control of the basses.

In most situations, these two models combined solve most problems caused by the excess of low frequencies in the room.

Several colours are at your disposal.

TECHNICAL DRAWINGS



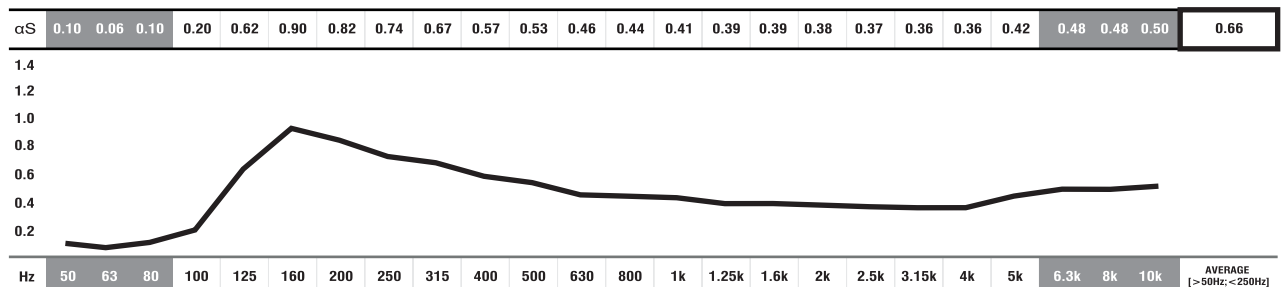
FEATURES

- Average absorption: **0.66/m²** [$>100\text{Hz}; <250\text{Hz}$].
- EPS Fire Reaction: Euroclass E (NP EN 13501-1).
- Package: 2 units or 4 units.
- Very easy to install.
- Other colours available upon consultation.

MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
BKW120	120 cm	60 cm	15 cm	3.1 Kg

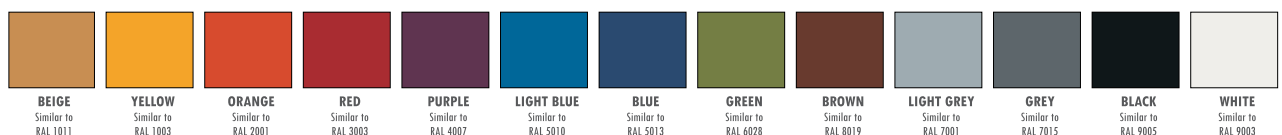
ABSORPTION COEFFICIENT



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

■ Values [$<100\text{Hz}$ and $>5\text{k}$] are Non Standard Values.

STANDARD PROJECTABLE CELLULOSE FINISHING COLOURS



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BASSKEEPER ANGLE®

TUNED ABSORPTION PANEL



Image of 120x40cm model Ref.:BKA120 (on the left) and Ref.:BKA120 applied (ambient image).

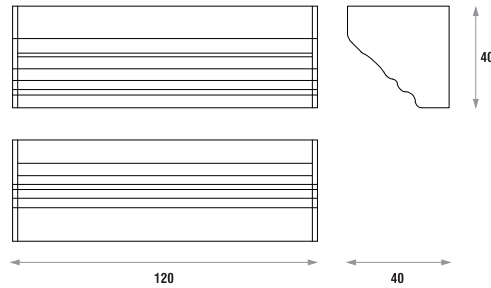
DESCRIPTION

The BASSKEEPER ANGLE® is the best proposal from the ATP® low-frequency absorption panels. It produces an overpowering effect in the corners of the room where the basses build-up is most often present. The BASSKEEPER ANGLE® is an open resonance box model, tuned to 160 Hz, thus being very effective.

The BASSKEEPER ANGLE® and the BASSKEEPER WALL® have the same shape and are bass traps. The BASSKEEPER ANGLE® is applied in corners while the BASSKEEPER WALL® is applied on walls. It is a first-rate approach to tame low-frequency anomalies in your room.

In most cases, the combination of these two models solves all problems caused by the accumulation of low frequencies in the room, by allowing you to create your own design while providing acoustic control of low frequencies.

TECHNICAL DRAWINGS



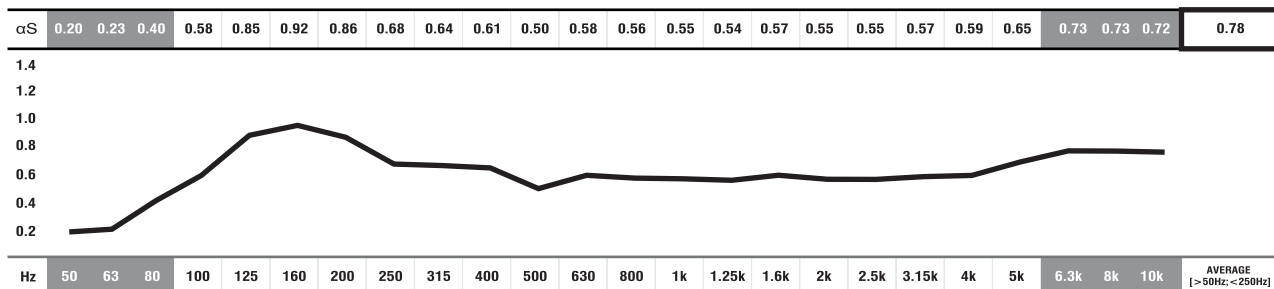
FEATURES

- Average absorption: **0.78/m²** [$>100\text{Hz}; <250\text{Hz}$].
- EPS Fire Reaction: Euroclass E (NP EN 13501-1).
- Package: 2 units.
- Very easy to install.
- Other colours available upon consultation.

MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
BKA120	120 cm	40 cm	40 cm	3.6 Kg

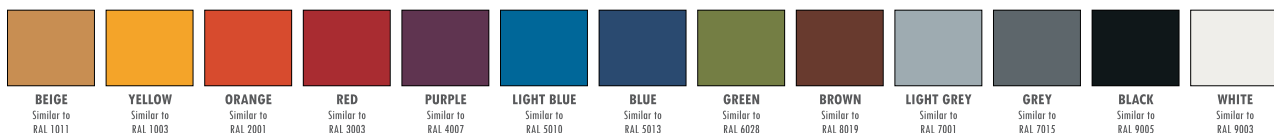
ABSORPTION COEFFICIENT



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STANDARD PROJECTABLE CELLULOSE FINISHING COLOURS



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SLIMBASS ANGLE®

TUNED ABSORPTION PANEL

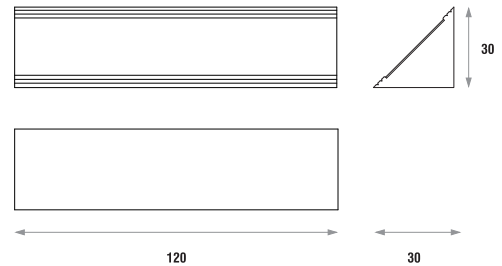


Image of 120x30cm model Ref.:SLB120 (on the left) and Ref.:SLB120 applied (ambient image).

DESCRIPTION

Music rooms, studios, rehearsal rooms, etc., require a surface that is efficient at absorbing low-frequencies. ATP® proposes the SLIMBASS ANGLE® absorbent panel for the absorption of low-frequencies. It is made of high-quality controlled-cell self-extinguishable M1 fire retardant acoustic foam with a wooden-like synthetic PVC finish exclusive membrane. It forms inside it a 160 Hz closed resonance box. The SLIMBASS ANGLE® panel has a thin and elegant design, which is appropriate for the 90° corners of the room's walls or ceilings.

TECHNICAL DRAWINGS



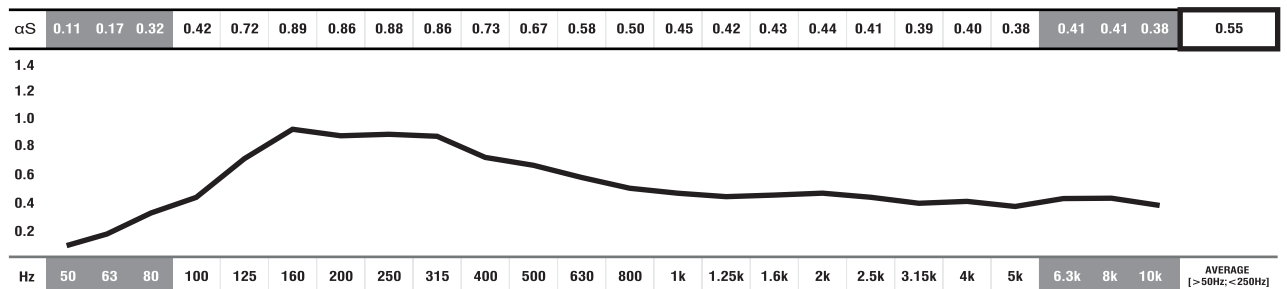
FEATURES

- Average absorption: **0.55/m²** [$>100\text{Hz}; <250\text{Hz}$].
- Self-extinguishable M1 fire-retardant acoustic foam.
- Package: 4 units.
- Very easy to install.

MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
SLB120	120 cm	30 cm	30 cm	1.4 Kg

ABSORPTION COEFFICIENT



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MELAMIN FACED BOARD FINISHINGS



REGULAR FOAM 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.



LF TONE® TUNED ABSORBENT PANEL



Image of 120x40cm model Ref.:LFT120 (on the left) and Ref.:LFT120 applied (ambient image).

DESCRIPTION

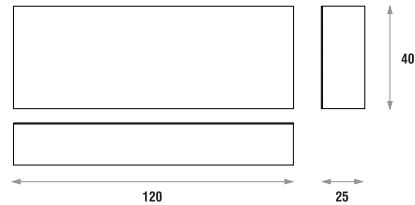
The LF TONE® is a low-frequency membrane absorbent panel to be used on walls or ceilings. It was conceived as a whole box and with a membrane designed to provide more sensitivity to the low pressure sound waves. It is tuned to 250Hz and it also has an effective performance at lower frequencies.

The finishing of the LF TONE® is made from JOCAVI®'s fabric and it can be matched with any other fabric finishing models with the same aesthetics.

The LF TONE® aims to reduce the acoustic anomalies caused by the excess of low frequencies and it takes perfect control of the basses specially in music rooms, studios, home-theatres, rehearsal rooms, etc.. It provides one of the best choices among the low-frequency ATP® products.

It can be directly glued to the existing surfaces by using our recommended adhesive glue.

TECHNICAL DRAWINGS



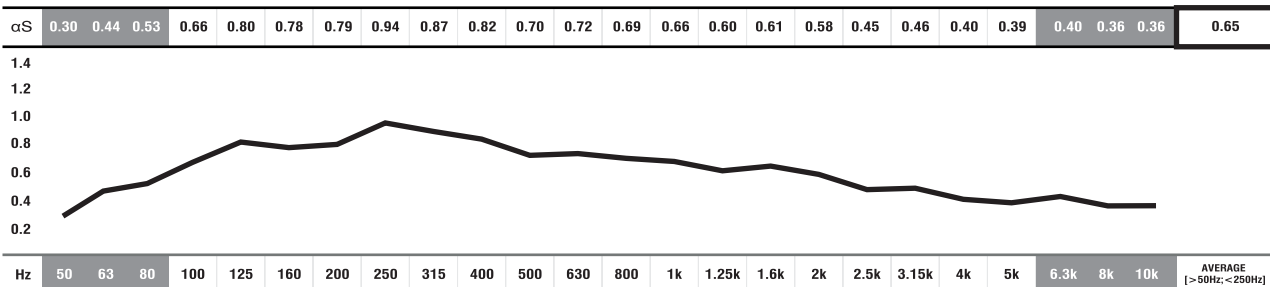
FEATURES

- Average absorption: **0.65/m²** [$>63\text{Hz}; <500\text{Hz}$].
- Tuned to 250 Hz.
- Self-extinguishable M1 fire retardant fabric-coated acoustic foam on a rigid framework.
- EPS Fire Reaction: Euroclass E (NP EN 13501-1).
- Package: 2 units.
- Very easy to install.

MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
LFT120	120cm	40 cm	25 cm	1.7 Kg

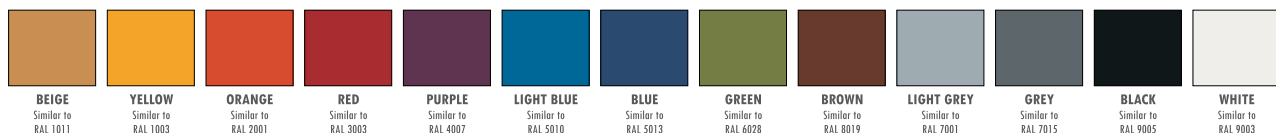
ABSORPTION COEFFICIENT



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STANDARD FABRIC COLOURS



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- Sizes may vary slightly due to their production method and some inherent raw-materials characteristics.

ATP[®] Music Accessories[®]

Based on the experience of the JOCAVI[®]'s CEO João Vieira as a Studio and Live sound engineer, we developed this line of music accessories for the music market industry.

Before these accessories are mass-produced and catalogued, João Vieira used these models as prototypes helping to improve the sound of several albums and touring concerts.

This accessory line appears when we were celebrating a year after the creation of the ATP[®] brand. A complete line of accessories which is divided by: Studio Line, Speakers Line and Drum Kit Line. All these components are important tools to achieve the sound excellence of the instruments.



ATP[®]

MUSIC
ACCESSORIES

•2010•



VOCAL MIC REFLECTION FILTER®

ATP® STUDIO LINE



Image of VMRF filter Ref.-VMRF and the POP OFF Ref.-PO applied.



FEATURES

- Acoustic bell for microphone.
- Insulates the microphone from the room effect.
- Acoustically conditions the microphone.
- Use: recording and broadcast studios.
- Installation: direct fastening to the microphone tripod.
- Packaging: 1 unit.

SIZES AND COLOURS

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
VMRF ●	38 cm	58 cm	24 cm	2.1 Kg

DESCRIPTION

This parabola-shaped accessory is a creativity aid to sound engineers who search for the perfect loudness for each project. It enables significant sound variations by adjusting the position between the piece and the microphone.

The bell that defines its shape is sealed, which improves the insulation of the room environment effect. It reduces the amount of energy reflected from the room surfaces, walls, floor and ceiling, thus making the sound of voices or instruments more authentic.

The VMRFFilter® is made of four different raw materials with no metal components, thus not causing any change to the magnetic field of microphones. The size and shape of this piece were optimised with the aim to maximise the absorption inside the VMRFFilter®, in order not to influence the colouring or polarity of each microphone but influence the surrounding acoustics.

The VMRFFilter's interior is made of three different permeable absorbent materials which provide it with interesting features.

It is a great piece to record singers, broadcasters, acoustic and electric guitars and basses, flutes, wind instruments, etc.. It works even if your room is not duly treated.

It can be mounted on the same tripod of the microphone itself. However, if mounted on a separate tripod, it is easier to tune the VMRFFilter's best positioning in relation to the microphone that is being

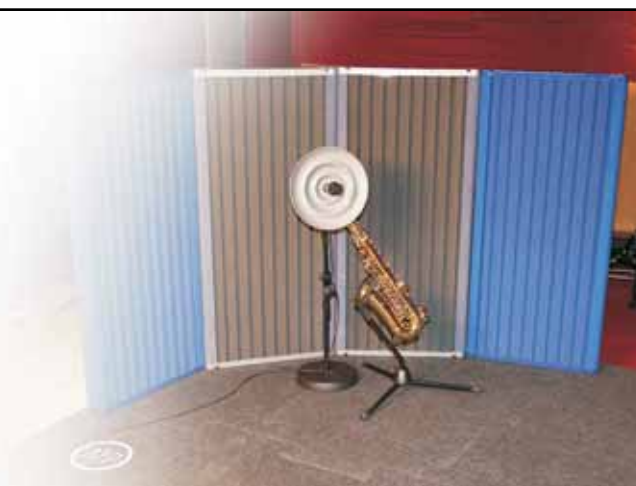


BABS® TWO SIDED SELF-STANDING ABSORBENT PANEL

ATP® STUDIO LINE



Image of BABS model Ref.:BABS.



FEATURES

- Portable acoustic blind.
- **NRC: 0.79** (FOAM FACE); **0.68** (FABRIC FACE).
- Ideal to put around instruments, amplifiers and speakers.
- Use: recording studios and mobile studios.
- Installation: easy to mount on the base provided.
- Packaging: 2 units.

SIZES AND COLOURS

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
BABS	117 cm	55 cm	9 cm	4.8 Kg

DESCRIPTION

The BABS® is an acoustic blind system which is ideal to have in your recording room. It provides an outstanding acoustic division between each instrument or amplifier, thus optimising the separation between microphones during sound capturing.

It is also the ideal solution for portable acoustic treatment. It can be used to improvise a rehearsal room, recording room or control room that surrounds a monitoring system, etc.

It is provided with a foot for each module. It is easily mounted by placing it on your room's floor and adjusts to the intended situations.

BABS's two faces are acoustically and aesthetically different. One of them absorbs more than the other one, also within different ranges of the sound spectrum, thus providing various options of loudness and modulation to your room. For different audition or sound capturing purposes, this versatile system allows to adapt the rooms' acoustic disturbances, thus becoming a very useful tool for your projects.

It can be provided (optional) with a carrying bag for each two pieces, thus being very light and easy to carry.

IMPORTANT NOTICES

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HORNDIFFUSER®

ATP® STUDIO LINE



Image of HORNDIFFUSER model Ref.:HD.

FEATURES

- Acoustic reflector for wind instruments.
- Increases the return of the direct sound back to the musician.
- Insulates the sound coming from the monitors.
- Installation: by embedding in the microphone or microphone tripod.
- Use: at live and in studio
- Packaging: 1 unit

SIZES AND COLOURS

MODELS	DIAMETER	HEIGHT	DEPTH	WEIGHT
HD ●●○	Ø29 cm	1 cm	-	0.1 Kg

DESCRIPTION

This accessory works as an acoustic mirror for trumpeters, trombonists and saxophonists. It is applied around the microphone. It provides the musician with the direct return of the sound that he/she played. Besides this important advantage to the musician, it also offers benefits to the sound technician or engineer, since it insulates the microphone from the sound that comes from the stage monitors by creating a sort of a wall behind the microphone. Its curvature shapes are optimised with the aim of focusing on the musician the reflection of his/her sound in the most efficient way.



MIC PROTECTOR®

ATP® STUDIO LINE



Image of MIC PROTECTOR model applied Ref.:MP.

FEATURES

- Insulation protector for microphones.
- Acoustically separates sound capturing.
- Fits most microphone models.
- Installation: on a microphone tripod.
- Packaging: box with 1 or 4 units.
- Use: live and studio.

SIZES AND COLOURS

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
MP ●●	22 cm	11 cm	8.5 cm	0.1 Kg

DESCRIPTION

This accessory is more useful to sound engineers and technicians than to musicians themselves.

This accessory is original, unique, highly necessary and in high demand. It is often used by sound engineers to improvise and make bricolage, when they need to use something that produces this insulation effect while capturing several instruments that are close to each other. The MP1 surrounds the microphone individualising the sound that is captured.

Especially at live events, it modifies the behaviour of noise gates, compressors, dynamics' controllers inserts and provides them with better autonomy and easiness of control.

It is ideal to use under and over snare drums, as well as floor toms, jazz bass drums, guitar amplifiers, basses and wherever each one's imagination will dictate.

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NEARFIELD BASE®

ATP® SPEAKER LINE



Image of 8.2x25x30.7cm model Ref.:NFB I and NFB II.

FEATURES

- Anti-vibration speaker base available in two sizes.
- Use: nearfield and midfield speakers.
- Position adjustment in the vertical angle.
- Installation: to be placed on working consoles or speaker stands.
- Fits most models.
- Packaging: 2 units.

SIZES AND COLOURS

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
NFB I ●	8.2 cm	25 cm	30.7 cm	0.35 Kg
NFB II ●	8.2 cm	35 cm	40.7 cm	0.53 Kg

DESCRIPTION

The NFB® is an essential accessory for your music audition room or studio control room. This quite inexpensive piece works miracles on your room's sound. It minimizes the propagation of physical vibrations to the pieces installed on the workbenches, which also end up playing and vibrating thus causing spurious noises.

The innovation of the NFB's design consists on the possibility of adjusting the vertical angle from the speaker's position to the audition sweet spot, thus adding one more important benefit to this accessory.

All these benefits will thus allow you to optimise the sound of your room. You can position this piece in relation to the monitors and reduce the unwanted vibrations.

This accessory is meant to be used in nearfields. The two existing sizes, NFB I and NFB II, adjust to most models of this type of speakers.



SUB WOOFER BASE®

ATP® SPEAKER LINE



Image of the two SUB WOOFER BASE models Ref.:SWBI and Ref.:SWBII.

FEATURES

- Anti-vibration speaker base available in two sizes.
- Use: sub-woofer.
- Installation: to be placed on the floor
- Fits most models.
- Packaging: 1 unit.

SIZES AND COLOURS

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
SWB I ●	9 cm	40 cm	40 cm	0.96 Kg
SWB II ●	9 cm	58 cm	50 cm	1.67 Kg

DESCRIPTION

The SWB® is a key piece for your set-up when you use a sub-woofer. This accessory is essential and quite inexpensive, and reduces the vibrations caused by the physical propagation to the accessories present in the room.

The top part is stiff and causes a weight distribution across the whole area in contact with the floor.

The sizes are in accordance with most manufacturers of this type of speakers. There are two different sizes, SWB I and SWB II.

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DRUMBASE®

ATP® DRUM KIT LINE



Image of 197x197x2.7cm model Ref.:DB and the carrying-bag.

FEATURES

- Anti-vibration platform.
- Packaging: 1 kit (9 pieces)
- Installation: by embedding
- Use: live and studio.
- Fits the standard size of stage platforms.
- Manufactured with 60% recycled material.
- Provided with carrying-bag.
- Other sizes available on demand.

SIZES AND COLOURS

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
DB ●	197 cm	197 cm	2.7 cm	26 Kg

DESCRIPTION

The ATP® DRUMBASE® is an anti-vibration platform for drum sets which is composed of 9 pieces that fit together and make up a total area of 4m² (2mt x 2mt).

The material used in its base is non-skid, closed-cell, made of recycled rubber, and its density is duly adjusted. In order to exert the best inertia on the physical propagation of energy, we took into account the weight of both the instrument and the musician, as well as the weight of the reverberated movements that are made when the musician is playing.

It is easily mounted by fitting together the several modules on the floor or the stage. It just takes two minutes for your DRUMBASE® to be ready. The 9 modules fit together in a perfect way, thereby preventing them from getting separated due to oscillations during performance. It has a carpet finishing.

The DRUMBASE® is a great tool to optimise the sound of your drum kit and is excellent to be used at live or in studio.

We offer a carrying-bag and a pencil to mark the position of the several pieces that are on the platform



KICK PAD® KIT

ATP® DRUM KIT LINE



Image of the KICK PAD KIT® (inside) the KICK PAD, Ref.:KP and the PUNCH MASTER, Ref.:PM (outside).

FEATURES

- Kit includes: **KICK PAD®** and **PUNCH MASTER®**
- Absorbent for the bass drum, manufactured in Acoustic Foam and Plastic.
- Efficiently reduces unwanted resonances to use live and on studio.
- For all bass drums ranging between 18" and 24" depth.
- Packaging: 1 unit.
- Installation: to be placed inside the bass drum.

SIZES AND COLOURS

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
KPK ●	86 cm	56 cm	7 cm	0.6 Kg
PM ●●	Ø14 cm			0.1 Kg

DESCRIPTION

To tune and get good sound out of a bass drum is sometimes a hard task. This instrument, which is an essential base of drum kits, needs to be treated once in a while.

The KICK PAD® was created to absorb unwanted harmonics which are out of tune with the bass drum note, thus making the beat clearer and more defined.

This accessory has some small markings in order for the musician to highlight small slices and adjust loudness as he/she pleases. It can be used in all sizes of bass drums.

ATP® PUNCH MASTER® is provided together with the KICK PAD®. This accessory allows you to fully control the bass drum head's vibration accentuating its punch and deepness at every beat. Its ultra light material and attractive design makes it look distinct and stylish. It also allows protection against tearing from cables or the microphone's tripod

The KICK PAD® is cut alongside the curvature of the bass drum which prevents the foam cells from being closed, thus resulting in a more beneficial absorption.

This is a tool to be used either at live or in studio and is very useful for both the musician and the sound engineer.

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AS[®] Acoustic Shell[®]

AS[®] Acoustic Shell[®] is a brand that sells and rents out highly specialised acoustic shells which are conceived in the laboratories (R&D) of the Portuguese company JOCAVI[®] Acoustic Panels Lda. The AS[®] brand belongs to the JOCAVI[®] Group. We prepare projects to advise on our products by seeking the best shell for each space. We rent out through "*long term rental*" contracts for events to be carried out on a continuous basis on the same spot.

We sell for permanent installation in theatres and auditoriums where the main activity requires the use of these acoustic diffusers. We also carry out the installation and acoustic checking and enter into maintenance contracts for our shells. We are AS[®] Acoustic Shell[®], a company specialised in acoustic diffusion shells.





FIXED DIFFUSION ACOUSTIC SHELLS

EFFECTFUSER® AcSh® • DYNAMICFLOW® AcSh® • WOODFOIL® AcSh® • PLURA® AcSh®



DESCRIPTION

The diffusing acoustic shells are acoustic treatment elements intended for large volume rooms, such as theatres or auditoriums with a stage where orchestral concerts or mere recitals take place. These acoustic diffusing components are meant to project the non-amplified original sound from the stage to the audience. This will enable people to hear the sound coming directly from its sound sources and instruments, without the electro-acoustic inherent characterization or colouring. This panel also aims to enable the stage and the room to be within the same space and not separate in two by the mouth of the stage. JOCAVI™'s EFFECTFUSER®, WOODFOIL®, PLURA® and DYNAMICFLOW® models have been designed at the specific scale of these needs. Due to its shape and depth, they also have a high diffusion coefficient on medium/low frequencies. The all are large-sized diffusers that provide a very homogeneous diffusion within the diffuse and sound spectrum.

Manufactured in ABS (except WOODFOIL® in wood) with a rigid framework, these pieces can be coupled and multiplied in order to suit each project's demands. When mounted, several modules should be grouped so as to obtain an area that is proportional to each space. Mounting: They can be hung from the ceiling in a strategic position in order to obtain sound diffusion in the required angles. They can also be mounted with a motorized rigging system from the stage ceiling. These elements / modules are fastened with steel cables by using appropriate mounting accessories. Their low weight makes mounting easier. As with any other JOCAVI® diffuser panel, these models can also be applied on false ceilings, flat ceilings or walls.

The combination of the various EFFECTFUSER® COMBI and the other models Plates, diffusing pieces must be optimised so as to obtain a diffusion as uniform as possible in the entire room.

MAIN FEATURES

To adjust the diffusing properties of these models to the room where this product is applied, the placement of the pieces must be taken into account in order to obtain its best performance, bearing in mind these two types of diffusion:

DIFFUSION WITH COMPRESSION EFFECTS (only EFX COMBI and EFX Plate)

It emphasizes the sound diffusion with a smaller covering angle, effective at a longer incidence distance.

Features: efficient at a longer distance; smaller incidence angle; higher sound level.

DIFFUSION WITH SCATTERING EFFECTS (only EFX COMBI and EFX Plate)

It emphasizes the sound diffusion at a wider covering angle, effective at a shorter incidence distance.

Features: efficient at a shorter distance; less sound level; wider incidence angle.

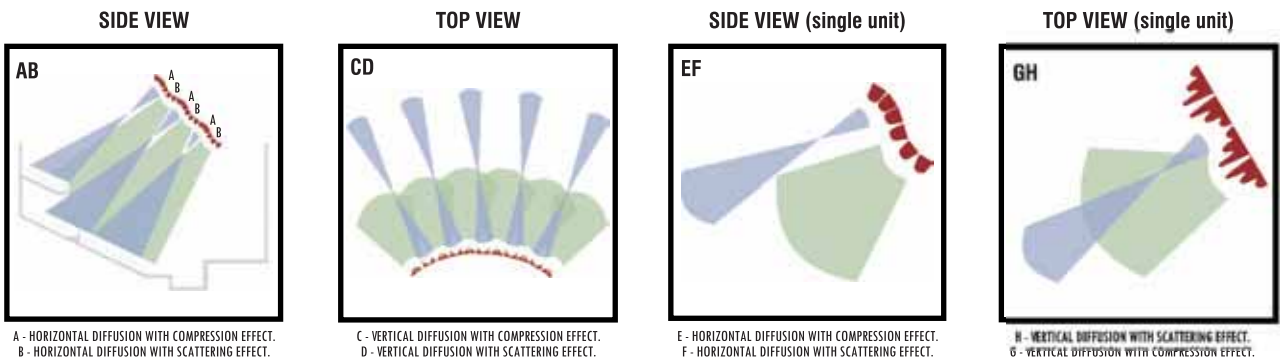
MOUNTED MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
EFX COMBI 180	180 cm	120 cm	32 cm	57 Kg
EFX Plate 120	120 cm	120 cm	32 cm	38 Kg
DYN Plate 180	180 cm	120 cm	11 cm	34 Kg
DYN Plate 120	120 cm	120 cm	11 cm	25 Kg

MOUNTED MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
WFL Plate 180	180 cm	120 cm	19 cm	26 Kg
WFL Plate 120	120 cm	120 cm	19 cm	21 Kg
PLR Plate 180	180 cm	120 cm	16 cm	33 Kg
PLR Plate 120	180 cm	120 cm	16 cm	24 Kg

SCATTERING EFFECTS (example for the EFX180COMBI)



A - HORIZONTAL DIFFUSION WITH COMPRESSION EFFECT.
B - HORIZONTAL DIFFUSION WITH SCATTERING EFFECT.

C - VERTICAL DIFFUSION WITH COMPRESSION EFFECT.
D - VERTICAL DIFFUSION WITH SCATTERING EFFECT.

E - HORIZONTAL DIFFUSION WITH COMPRESSION EFFECT.
F - HORIZONTAL DIFFUSION WITH SCATTERING EFFECT.

G - VERTICAL DIFFUSION WITH SCATTERING EFFECT.
H - VERTICAL DIFFUSION WITH COMPRESSION EFFECT.

STANDARD ABS COLOURS



YELLOW Similar to RAL 1003
ORANGE Similar to RAL 2008
RED Similar to RAL 3001
GREEN Similar to RAL 6001
BLUE Similar to RAL 5013
PURPLE Similar to RAL 4005
LILAC Similar to RAL 4009
BROWN Similar to RAL 8017
CREAM Similar to RAL 1001
BLACK Similar to RAL 9005
GREY Similar to RAL 7042
WHITE Similar to RAL 9003

WOOD VENEER FINISHINGS



PINE OAK CHERRY MAHOGANY WENGE BLACK-BROWN

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- 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.
- Sizes may vary slightly due to their production method and some inherent raw-materials characteristics.





PORTABLE DIFFUSION ACOUSTIC SHELLS

DYNAMICFLOW® AcSh® • WOODFOIL® AcSh® • PLURA® AcSh®



DESCRIPTION

Based on works and experiments in the field of sound wave diffusion and the positive aspects that result from the presence of diffusers in rooms, we have built this acoustic diffuser.

Therefore, we are presenting new design proposals that are less common in diffusion structures designed for mobile use.

The DYNAMICFLOW® AcSh®, the WOODFOIL® AcSh® and the PLURA® AcSh® are an easy-to-install portable acoustic diffusion shells meant to be used in certain types of musical concerts.

It is a piece that changes the room's acoustics by enhancing its features.

Diffusion shells are acoustic treatment elements used in large volume rooms, such as theatres and auditoriums. They may also be used outdoors for the performance of concerts by large orchestras or just recitals.

The installation of these acoustic diffusion components is meant to project the non-amplified original sound from the stage towards the audience.

This will enable to hear the sound that comes directly from the sound sources and instruments, without the characterization or colouring inherent to the use of electro-acoustics. These shells also enable the stage and the room to be within the same space and not separate in two by the mouth of the stage. These pieces do not need any preparation prior to their installation, just a free stage with good access.

They must be coupled and multiplied in such a way that is adequate to each project in order to obtain a diffusing area that is proportionate to the space in question.

MAIN FEATURES

Depending on the space available on the stage, more or less elements may be used in order to form the shape of a perfect shell.

Built on a modular configuration with 120 x 120cm pieces, up to four modules can be coupled in height, thus totalling a diffusing homogeneous surface of 480 x 120cm.

The DYNAMICFLOW® AcSh®, the WOODFOIL® AcSh® and the PLURA® AcSh® are a large-sized diffusers that provides a very homogeneous diffusion within the sound and diffuse spectrum.

DIFFUSION WITH SCATTERING EFFECTS

It emphasizes the sound diffusion at a wider covering angle, effective at a shorter incidence distance.

Features: efficient at a shorter distance; less sound level; wider incidence angle.

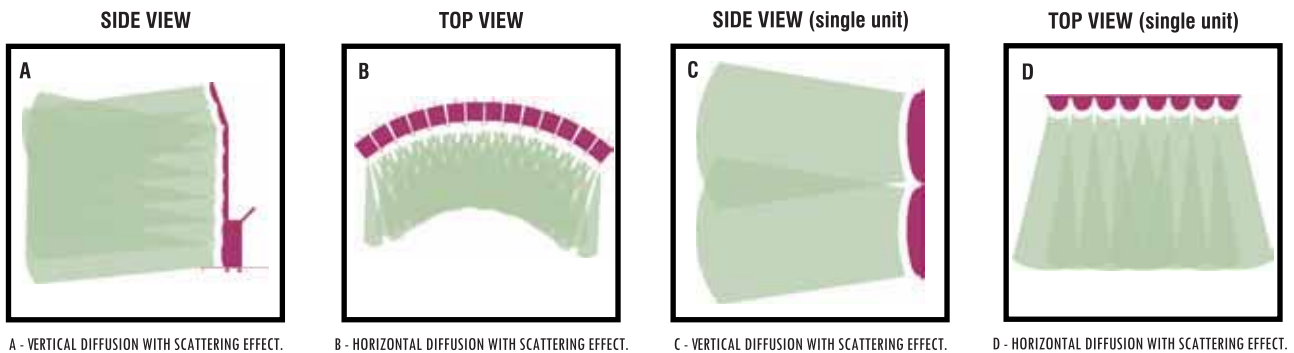
MOUNTED MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
DYNAS3 / AS4	380 / 500 cm	120 cm	78 cm	55 / 70 Kg
WFLAS3 / AS4	380 / 500 cm	120 cm	78 cm	55 / 70 Kg
PLRAS3 / AS4	380 / 500 cm	120 cm	78 cm	55 / 70 Kg

MODELS IN FLIGHT-CASE

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
DYNAS3 / AS4	165 cm	124 cm	78 cm	65 / 80 Kg
WFLAS3 / AS4	165 cm	124 cm	78 cm	65 / 80 Kg
PLRAS3 / AS4	165 cm	124 cm	78 cm	65 / 80 Kg

SCATTERING EFFECTS (example for the DYNAS4)



STANDARD ABS COLOURS



WOOD VENEER FINISHINGS



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When performing at a conventional theatre, symphonic and chamber orchestras, as well soloists and opera singers, encounter problems related to the projection of the sound and voice, due to the noise that is produced on the space of the stage box and the absence of diffusion materials.

The sound that is produced by the orchestra is dispersed heterogeneously in all directions, depending on the instruments. It needs an acoustic shell to channel it towards the audience. In order not to lose the sound level and all the musicality of orchestras, acoustic shells should be placed around them.

To project the sound, it is necessary to install diffusion panels shaped like a shell, open towards the audience, in order to scatter the sound in that direction. The Acoustic Shells can be installed hanging on the stage's ceiling and/or on the floor around the musicians.

Following the research on acoustic panels, JOCAVI[®] adopted four of its models of acoustic diffusers to create these models of AS[®] acoustic shells.

Spaces, like theatres and auditoriums, where classic music performances are programmed, are usually big-volume rooms. Thus, due to the noise from the audience and the lack of an acoustic shell, electro-acoustic equipment (microphones, power stages and loudspeakers) is overused in these spaces. Musicians, singers and musical directors do not tend to overuse electro-acoustics in order not to distort the natural colour of the instruments and voices. The use of our AS[®] acoustic shells increases the natural level of the sound that is genuinely produced by the instruments and naturally increases the level of the acoustic pressure of the room, thus leading to a balanced diffusion throughout the whole range of the sound spectrum.

AS[®] ACOUSTIC SHELL[®] - THE BRAND

AS[®] Acoustic Shell[®] is a brand that sells highly specialised acoustic shells which are conceived in the laboratories (R&D) of the Portuguese company JOCAVI[®] Acoustic Panels Lda. The AS[®] brand belongs to the JOCAVI[®] Group. We prepare projects to advise on our products by seeking the best shell for each space.

We sell for permanent installation in theatres and auditoriums where the main activity requires the use of these acoustic diffusers. We also carry out the installation and acoustic checking and enter into maintenance contracts for our shells. We are AS[®] Acoustic Shell[®], a company specialised in acoustic diffusion shells.

VERSATILITY OF A SHELL

Unlike the most ancient and original open-air acoustic shells made of stone in roman amphitheatres, today's acoustic shells used in performance rooms have to be versatile and discreet, so that their presence does not hinder the use of the space for the most varied types of performances.

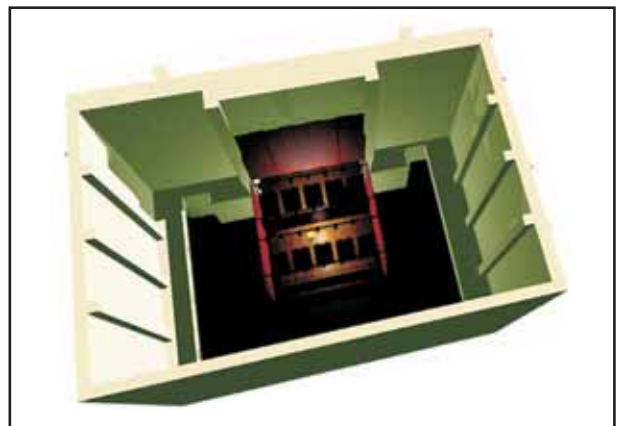
Our shells have been developed and built with light and attractive materials, which facilitate as much as possible their practical use. They adapt to the orchestra by increasing the number of the necessary modules and by adjusting their application according to the type of performance. It is a stage equipment that is easily assembled and disassembled and that is imperceptible when it is not being used.

ACOUSTIC BEHAVIOUR

The purpose of acoustic shells is to use both the acoustic energy and sound, which were beforehand wasted in the stage-box, and direct them towards the audience.

It is particularly important how this is done. Acoustic shells, which are simply a flat, convex or concave piece of varnished plywood, are normally used. These pieces, due to their big size, return the acoustic energy in very tight angles of incidence. Their scattering coefficient versus frequency is not balanced either, meaning that they do not scatter all frequencies in a uniform way. They scatter high frequencies much more often than medium/low frequencies.

Effectfuser[®] AcSh[®], Dynamicflow[®] AcSh[®], Woodfoil[®] AcSh[®] and Plura[®] AcSh[®] acoustic shells come from duly characterised JOCAVI[®]'s acoustic diffusion panels, in order to obtain the best diffusion balance throughout the sound spectrum. Therefore, a good and distributed angular coverage and a better balance of the diffusion values over the several frequencies are obtained.



BENEFITS FOR THE ORCHESTRA AND THE MAESTRO

Acoustic comfort for a musician or musical director is fundamental. It is impossible to win a battle against a room with bad acoustics.

It is a frustrating situation for musicians, maestros and sound technicians when that happens and there is nothing within their reach that they can do.

The quality of the interpretation of musical pieces may be enhanced when conditions are excellent. The acoustic shell harmonises the sound and enables musicians to listen to each other clearly, thus making their performance pleasant and perfectly harmonious. It also allows to highlight or mildly moderate the several groups of instruments of the orchestra in accordance with the Maestro's taste.

AS[®] FIXED SHELLS

The EFFECTFUSER[®] AcSh[®], DYNAMICFLOW[®] AcSh[®], WOODFOIL[®] AcSh[®] and the PLURA[®] AcSh[®] fixed acoustic shells consists of lateral background and ceiling modules. These elements enable several angulations among themselves, which are defined according to the degrees of incidence towards the audience.

These modules are fixed to the stage's ceiling with duralumin and steel cable structures. They are moved through a system of electric engines, which allow pre-programming some points on the most usual positions. When not in use, shells are gathered on the stage's ceiling and go completely unnoticed.

This type of study is available by our company and prepared through simulation of ray tracing, the only way to preview the objective. Therefore, we assure the homogeneous scattering levels of the acoustic energy and the subsequent increase of reverberation time in the room.

AS[®] PORTABLE AND REMOVABLE SHELLS

DYNAMICFLOW[®] AcSh[®], WOODFOIL[®] AcSh[®] and PLURA[®] AcSh[®] removable acoustic shells are composed of four 120cm x 120cm modules which are set on a flight-case type box. This box is part of the basic structure of the shell itself and there is no need to store the box while the shell is being used. Two people are enough to install it on the stage floor.

This shell adapts to each orchestra according to the number of musicians, groups of instruments and the stage area by adjusting the quantity of modules to be used.

It is versatile since it allows several configurations in accordance with the musical formation, as well as the easy access of musicians and instruments and a quick assembly and disassembly.

This shell is easily carried on its wheeled box. When not in use, it is kept in storage in order not to interfere with the good functioning of the performance room.

MAIN FEATURES

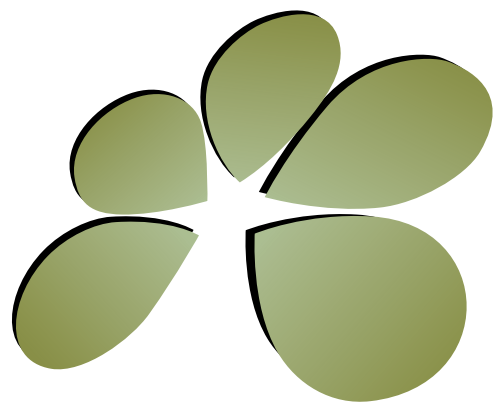
- The AcSh[®] shell system gives the dimension of a big concert hall.
- AcSh[®] provides excellent options of acoustic shells for any performance room.
- AcSh[®] provides a wide range of applications in theatres, auditoriums or smaller concert spaces.
- The AcSh[®] products from JOCAVI[®] have the right practical solutions for what you want.
- The AcSh[®] shells are an added-value, since they provide acoustic features which are precise, simple, easy to install, attractive and are available in all colours.
- AcSh[®] Acoustic Shells[®] are a must in theatres and auditoriums where classic music performances are programmed.



ECOiso[®] Ecological Acoustic Products

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 aesthetical and decorative integration.



Jocauli®
ECO iso®



QUADCORK® ABSORBENT PANEL



QPL004 / 6

QCK004 / 6

Image of 25x25x6cm model Ref.:QCK006 (on the left) and Ref.:QCK006 models applied (ambient image).

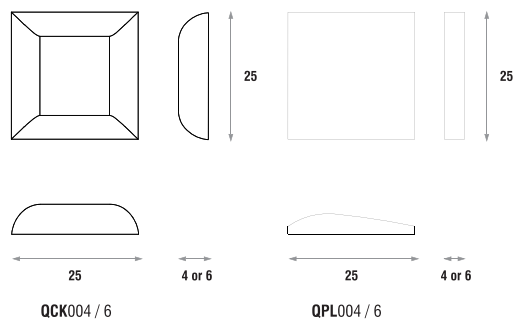
DESCRIPTION

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.

TECHNICAL DRAWINGS



FEATURES

- NRC: (0.42/m² - 40mm) (0.53 /m² - 60mm).
- Thermal, acoustic and anti-vibration insulation material.
- Level of sound insulation: **Rw 52 dB**.
- Renewable and 100% natural raw-material and fully recyclable.
- Fire class: Euroclass E - EN 13501-1.
- No release of toxic gases.
- Density: 120Kg / m³.
- Thermal conductivity / Specific heat: 0.004W/mk.
- Natural industrial process (without additives).
- Unlimited durability, no loss of features.

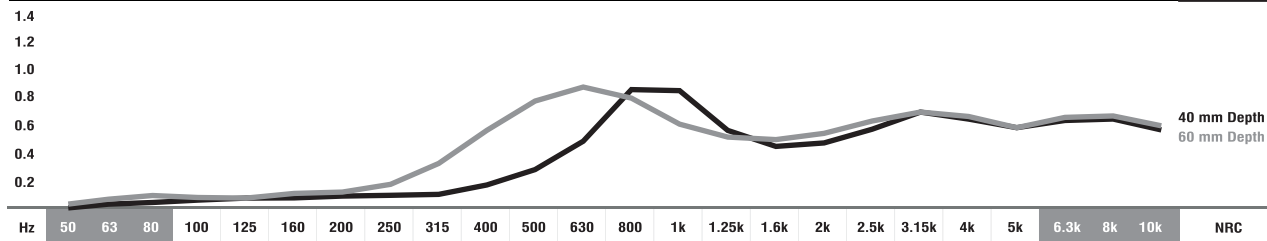
MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
QCK006	25 cm	25 cm	6 cm	0.5 Kg
QCK004	25 cm	25 cm	4 cm	0.3 Kg
QPL006	25 cm	25 cm	6 cm	0.5 Kg
QPL004	25 cm	25 cm	4 cm	0.3 Kg

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

ABSORPTION COEFFICIENT*

αS	0.01	0.03	0.05	0.06	0.07	0.07	0.08	0.09	0.10	0.18	0.28	0.48	0.84	0.83	0.55	0.44	0.47	0.58	0.69	0.62	0.59	0.61	0.62	0.58	0.42
αS	0.02	0.05	0.08	0.07	0.07	0.09	0.12	0.19	0.33	0.57	0.78	0.85	0.79	0.61	0.53	0.49	0.54	0.61	0.69	0.63	0.59	0.62	0.63	0.59	0.53



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

■ Values [$< 100\text{Hz}$ and $> 5\text{K}$] are Non Standard Values.
 *PANEL DATA ONLY OF REF.: QCK004 AND QCK006 MODELS.

STANDARD CORK COLOUR



RAW FINISHING

VARNISH FINISHING

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QUADCORK® OUTLINE

ABSORBENT PANEL



Image of 25x25x6cm model Ref.:QOC100 and QOF100 (on the left) and Ref.:QOC100 models applied (ambient image).

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-borne 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.

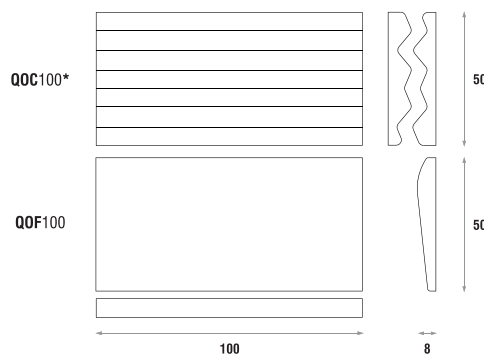
This is a product made exclusively of cork from cork oak trees his manufacture process is 100% natural.

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

- NRC: (QOC100 - 0.70/m²) (QOF100 - 0.71 /m² - 60mm).
- Thermal, acoustic and anti-vibration insulation material.
- Renewable and 100% natural raw-material and fully recyclable.
- Fire class: Euroclass E - EN 13501-1.
- No release of toxic gases.
- Density: 120Kg / m³.
- Thermal conductivity / Specific heat: 0.004W/mk.
- Natural industrial process (without additives).
- Unlimited durability, no loss of features.

TECHNICAL DRAWINGS

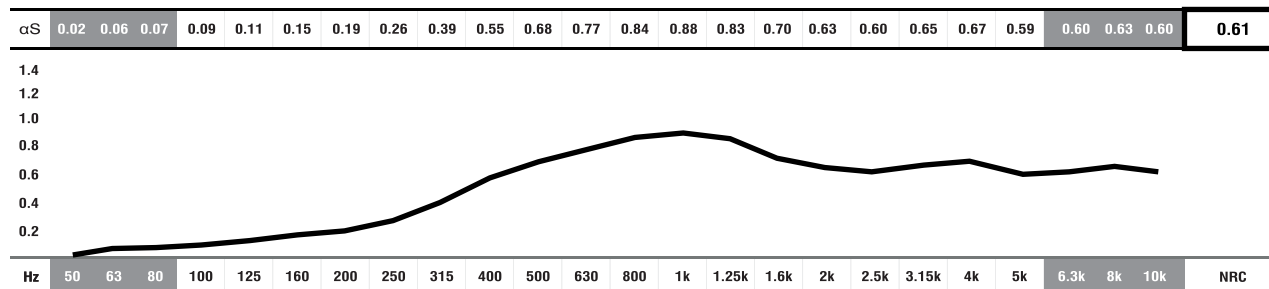


MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
QOF100	100 cm	50 cm	8 cm	3.5 Kg
QOC100*	100 cm	50 cm	8 cm	4.1/3.5 Kg

SOLD IN PAIRS / m² - 2 UNITS = 1m²

ABSORPTION COEFFICIENT*



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

■ Values [$< 100\text{Hz}$ and $> 5\text{K}$] are Non Standard Values.

*PANEL DATA ONLY OF REF.: QOC100 MODEL.

STANDARD CORK COLOUR



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ECOiso[®] SYSTEM

SOUNDPROOFING AND ABSORBENT LAYER



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

DESCRIPTION

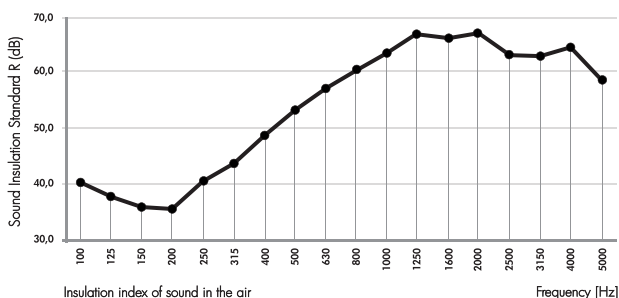
Following an ecological philosophy, JOCAVI[®] has designed this line of acoustic insulation and treatment materials, which are made exclusively from natural raw-materials, like cork and coconut. This compound, made of strictly 100% natural ecological materials, has an excellent technical performance. The unique features of these raw materials combined in the ECOiso[®] 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 aesthetical 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 the final decorative finishing. Accessories are: wooden slats, wall plugs, bolts and glue.

FEATURES

- Thermal, acoustic insulation, anti-vibration and acoustic absorbent.
- Renewable, 100% natural raw-material and fully recyclable.
- Fire Class: **B-s2, d0 - E1**
- Noise reduction coefficient (NRC): **0.78/m²**
- Level of sound insulation: **Rw 54 dB.**
- 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)



ENGINEERED COLOURED WOOD COLOURS



TECHNICAL DRAWINGS



MODELS AND SIZES

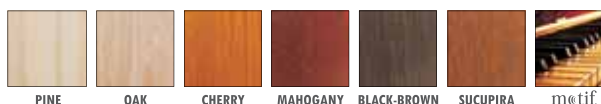
MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
ECOIS093	120 cm	60 cm	9.3 cm	13.6 Kg
ECOIS073	120 cm	60 cm	7.3 cm	12.6 Kg

THERMAL TRANSMISSION COEFFICIENT

LAYERS	λ [W/m.°C]	e [m]	R [m ² .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)

WOOD VENEER FINISHINGS



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ECOiso® ABL
ABSORBENT LAYER



Image of 120x60cm model Ref.:ECOABLw (on the left) and Ref.:ECOABLw applied (ambient image) LFMT120 perforation on both images..

DESCRIPTION

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.

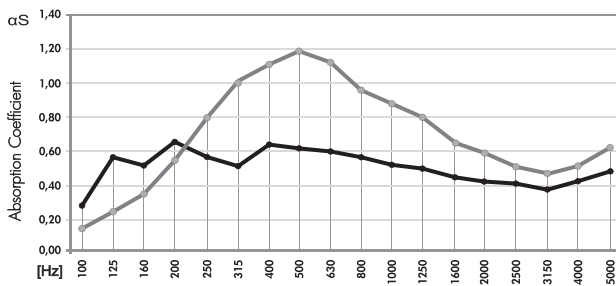
The acoustic behaviour of the ECOiso®ABL® (coconut + wood) delivers a natural combination, and ensures solutions with superb acoustic performances to reduce airborne levels, as well as an excellent aesthetical and decorative integration.

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.
- Fire Class: **B-s2, d0 - E1**
- Noise reduction coefficient (NRC): **0.78/m²**
- Unlimited durability, no loss of features.
- Excellent dimensional stability (even when subject to high thermal variations).
- Low energy consumption during the manufacturing process.

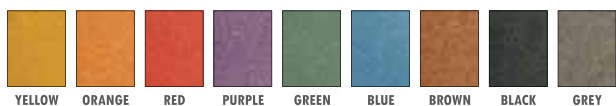
ABSORPTION COEFFICIENT



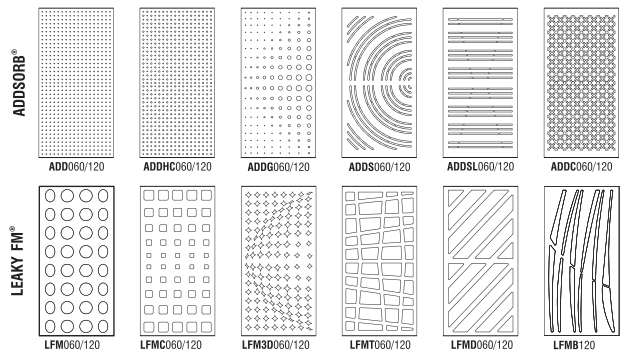
ABSORPTION COEFFICIENT: Values in accordance with the standards, EN 20654, ASTM C423 and EN 11654.

● ADDSORB LINE
● LEAKY FM LINE

ENGINEERED COLOURED WOOD COLOURS



TECHNICAL DRAWINGS



MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
ECOABLc	120 cm	60 cm	2.8 cm	4.1 Kg
ECOABLw	120 cm	60 cm	2.8 cm	4.1 Kg

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

WOOD VENEER FINISHINGS



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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 110kg/m³.

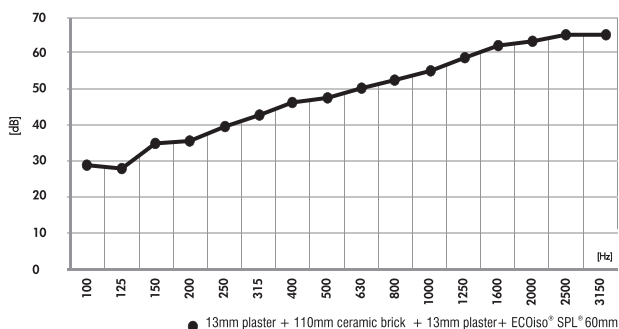
It comes in 1000 x 500mm plates and its thickness varies between 20 and 100mm. It may be placed on the inner layers of walls, ceilings or floors or may be placed on the outer layer as a final finishing.

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
- 110 Kg/m³ Density.
- Unlimited durability.
- 100% Natural Material.
- Excellent Thermal Properties.
- Excellent anti-vibration properties
- Aplicable on ceilings, floors and walls.
- Aplicable 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

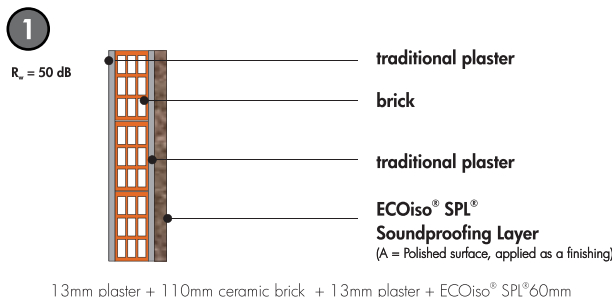
Thickness	INSULATION VALUES R_w (dB)	THERMAL RESISTANCE R_t (m ² ·°C/W)
20mm ECOiso® SPL®	$R_w = 39$ dB	0,50
40mm ECOiso® SPL®	$R_w = 44$ dB	1,00
60mm ECOiso® SPL®	$R_w = 50$ dB	1,50
80mm ECOiso® SPL®	$R_w = 52$ dB	2,00
100mm ECOiso® SPL®	$R_w = 54$ dB	2,50

IMPORTANT NOTICES

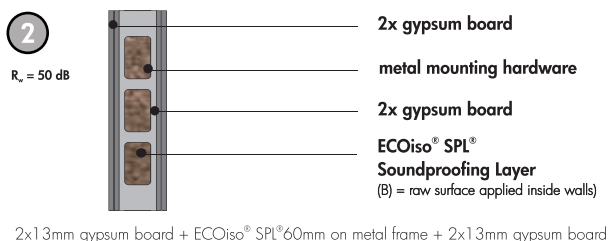
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APPLICATION EXAMPLES

REINFORCEMENT INSULATION REVETMENT



INSIDE A PARTITION WALL



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_0)	---
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



ECOiso® NCF
NOISE CONTROL FLOOR



Image of 120x60cm model Ref.:ECOABLw (on the left) and Ref.:ECOABLw applied (ambient image) LFMT120 perforation on both images..

DESCRIPTION

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 requirement for a sound isolation material that should be as thin as possible, in order to maximize the usable room areas.

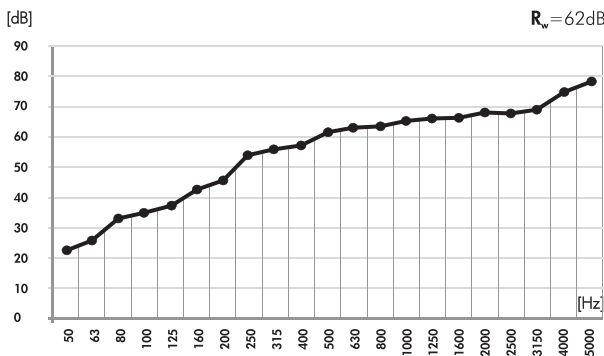
Beforetime the use of cork and wood agglomerates was one of earliest methods for building studios soundproofing insulation. It was soon discovered that these same excellent characteristics so essential in recording studios, could be applied equally well to home theatres, home studios, music rooms and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

FEATURES

- 100% Recyclable.
- Natural raw-materials.
- Recycled raw-materials.
- 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.

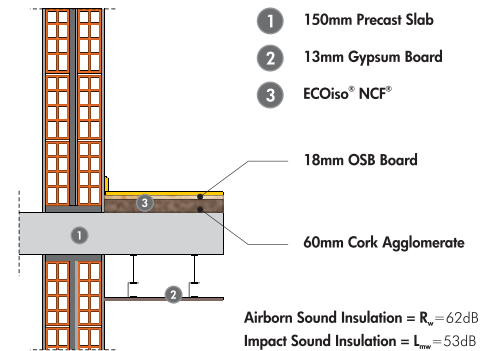
AIRBORN SOUND INSULATION (dB/Hz)



PACKAGE INFORMATION of 48 x 48 cm tiles

REFERENCE	PACKAGE DIMENSIONS	NR. OF TILES PER BOX
ECOiso® NCF486 - 60mm	1 Box - 62 x 62 x 36 cm	6 tiles (2,88m ²)
ECOiso® NCF488 - 80mm	1 Box - 62 x 62 x 36 cm	4 tiles (1,92m ²)

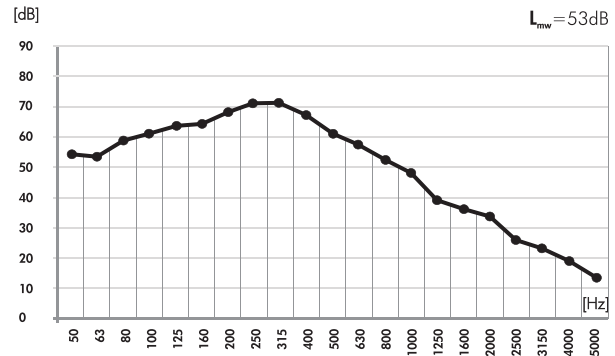
APPLICATION EXAMPLE



MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
ECONCF968	96 cm	48 cm	8 cm	8.2 Kg
ECONCF966	96 cm	48 cm	6 cm	7.4 Kg
ECONCF488	48 cm	48 cm	8 cm	4.1 Kg
ECONCF486	48 cm	48 cm	6 cm	3.7 Kg

IMPACT SOUND INSULATION (dB/Hz)



PACKAGE INFORMATION of 96 x 48 cm tiles

REFERENCE	PACKAGE DIMENSIONS	NR. OF TILES PER BOX
ECOiso® NCF966 - 60mm	1 Box - 120 x 62 x 36 cm	6 tiles (5,76m ²)
ECOiso® NCF968 - 80mm	1 Box - 120 x 62 x 36 cm	4 tiles (3,84m ²)

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ATP[®] Packs

The market of musical production and home-cinemas in small rooms has been one of the fastest growing markets.

Mindful of this segment's needs, JOCAVI[®] features acoustic treatment products and solutions which are practical and accessible to all.

These are convincing ideas for those customers who wish to solve the acoustics of their room with a practical sense and a controlled budget.

To choose the room dimensions is a good way to start the design of a music room, followed by the insertion of the acoustic treatment panels and subsequent installation of the sound or video equipment.

Particular attention must be given to the loudspeakers, since a suitable framing with the listener is required for a good performance of the system. Various software, namely multi-dimensional tools, may be used for optimisation as they can automatically determine the best locations for the sources and the listener. The next step is to optimise the acoustic components in order to interconnect the listener with the loudspeakers.

By observing these steps, your room will have a good distribution of modal pressure. Besides, it will be acoustically balanced and ready to receive from the smoothest to the strongest percussion sounds from your sound system.

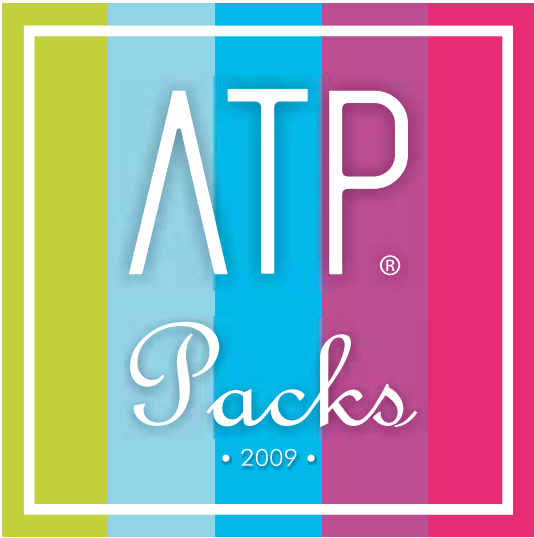
This way, the modal emphasis and the SBIR (speaker-boundary interference response) are simultaneously minimised to produce the best response from the room.

To facilitate the design of this type of rooms, JOCAVI[®] developed these Packs which correspond to different room sizes in a do-it-yourself' scheme.

The Packs are easy to assemble and include all the necessary glues, accessories and mounting instructions at anyone's reach. These rooms were acoustically simulated with the dimensions mentioned in each case and later verified with acoustic analyses. They may serve as a comparison to find a solution for your space.

These are practical and efficient ideas for those customers who are interested in advanced technology when wishing to add a solution to the acoustic treatment of a room.

These are proposals for customers who look for practical, low-cost solutions coupled with a rather refined aesthetic effect, with the visual display of all the acoustic products.





ATP[®] PACK 01

ROOMS FROM
9 TO 13 M²

01



EXCELLENCE
Sabine: 0.52 sec



STANDARD
Sabine: 0.52 sec

DESCRIPTION

According to the audio and home cinema fans designation, home cinema and studios is a system designed to be assembled in the average rooms of anyone's house. Usually, these rooms have neither the correct dimensional proportions nor the ideal acoustic conditioning materials for a good audition.

This assembling example, the **ATP[®] PACK 01** acoustic panel set, has been designed for rooms measuring between 9 and 13 square metres. It optimises the placement of the acoustic treatment components, the listener and the electro acoustic equipment, while minimising the SBIR and the modal emphasis to produce the best frequency response in the room.

To simplify the room design, JOCAVI[®] developed the **ATP[®] PACK 01** for small home cinema and music rooms with the aim to obtain an authentic acoustic framing, by correcting and arranging the sound perceptibility in your room. You can choose from the two **ATP[®] PACK 01** available solutions: **STANDARD** or **EXCELLENCE**, depending on your needs and aesthetic taste.

In a practical way, **ATP[®] PACKS** are designed for small-sized rooms. The acoustic elements remain exposed. They are easily assembled and all accessories needed are included.

Give your ears an opportunity to see how the performance of your sound system improves.

WHERE TO APPLY:

Rooms with an area between: 9 and 13 square meters.

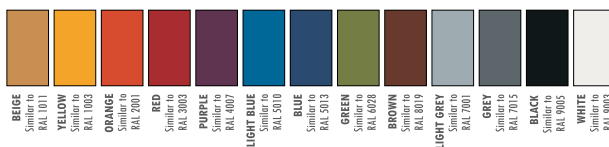
Rooms with volumes between: 22 and 35 cubic meters.

For use in small-sized home-theatre rooms, home-studios, Hi-fi rooms or instrument rooms.

FEATURES

- Values were obtained by simulation in specific JAS[®] software and later confirmed through acoustic analyses in the rooms.
- The simulated and tested rooms are totally empty, and only the referred **ATP[®] PACK 01** acoustic panels are applied.
- Traditional construction room with dimensions: (L,W,H): 3.47m / 2.85m / 2.50m.
Walls: masonry with painted fine stuff and a wooden door.
Ceiling: 12 mm - thick plaster.
Floor: natural floating parquet.

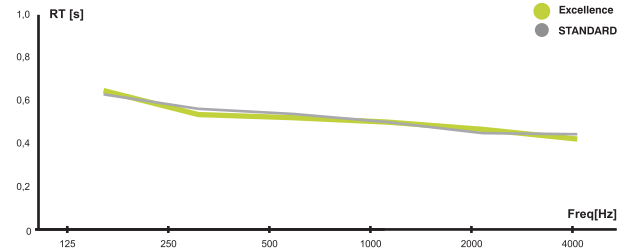
STANDARD EPS RAL COLOURS



IMPORTANT NOTICES

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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.

ABSORPTION COEFFICIENT AND GRAPHIC



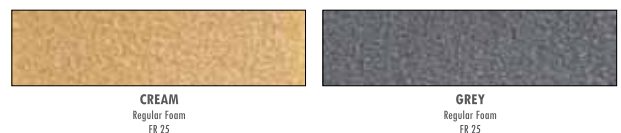
FREQUENCY	125 Hz	250 Hz	500 Hz	1 KHz	2 KHz	4 KHz	RT60
● α_s	0.62	0.56	0.53	0.50	0.46	0.45	0.52
● α_s	0.64	0.53	0.52	0.50	0.47	0.43	0.52

PACK QUANTITIES

REFERENCE	PANELS	UNITS	DIFFUSOR	ABSORBENT	TUNED
● WAV060	WAVYFUSER	4	✓	—	—
● WAI060	WAVYFUSER INV	4	✓	—	—
● FSO060	FOAMSORB	4	—	✓	—
● FSI060	FOAMSORB INV	4	—	✓	—
● T3S120	TRAP 30S	8	—	✓	—

REFERENCE	PANELS	UNITS	DIFFUSOR	ABSORBENT	TUNED
● STS120	STRIPESORB	8	—	✓	—
● T3S120	TRAP 30S	8	—	✓	—

ACOUSTIC FOAM COLOURS





ATP[®] PACK 02

ROOMS FROM
13 TO 17 M²

02



EXCELLENCE
Sabine: 0.53 sec



STANDARD
Sabine: 0.53 sec

DESCRIPTION

While some customers favour the ATP[®] PACK 01 acoustic panel set, others certainly need an answer for their larger-sized rooms. The ATP[®] PACK 02 acoustic panel set has been designed for rooms measuring between 13 and 17 square metres. The approach consists in adjusting the room dimensions to sizes which are slightly bigger than the size of the ATP[®] PACK 01.

The acoustic treatment modules must also be placed in relation to the listener and the speakers, while minimising the SBIR and the modal emphasis to produce a frequency response as flat as possible in the room.

Given the elegant look of these Acoustic Elements, most of our customers prefer to leave them in sight as if they were acoustic sculptures.

In a practical way, ATP[®] PACKS have been designed for small-sized rooms. They are easily assembled and all accessories needed are included. You can choose from the two ATP[®] PACK 02 available solutions: **STANDARD** or **EXCELLENCE**, depending on your needs and aesthetic taste.

All packs are supplied with assembly instructions, as well as the glues and tools which are necessary to install the acoustic modules.

WHERE TO APPLY :

Rooms with an area between: 13 and 17 square meters.

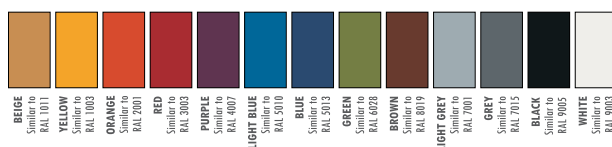
Rooms with volumes between: 35 and 45 cubic meters.

For use in small-sized home-theatre rooms, home-studios, Hi-fi rooms or instrument rooms.

FEATURES

- Values were obtained by simulation in specific JAS[®] software and later confirmed through acoustic analyses in the rooms.
- The simulated and tested rooms are totally empty, and only the referred ATP[®] PACK 02 acoustic panels are applied.
- Traditional construction room with dimensions: (L,W,H): **4.31m / 3.58m / 2.80m**.
Walls: masonry with painted fine stuff and a wooden door.
Ceiling: 12 mm - thick plaster.
Floor: natural floating parquet.

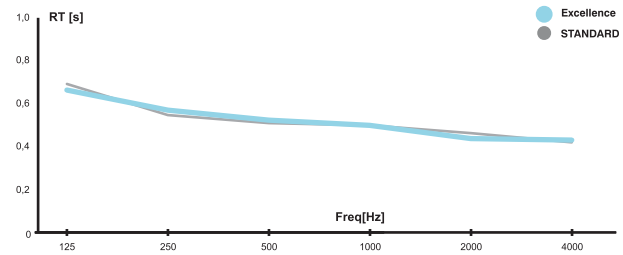
STANDARD EPS RAL COLOURS



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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.

ABSORPTION COEFFICIENT AND GRAPHIC



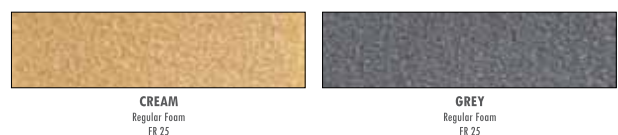
FREQUENCY	125 Hz	250 Hz	500 Hz	1 KHz	2 KHz	4 KHz	RT60
● Excellence	0.66	0.58	0.54	0.50	0.46	0.45	0.53
● STANDARD	0.69	0.55	0.52	0.50	0.48	0.43	0.53

PACK QUANTITIES

REFERENCE	PANELS	UNITS	DIFFUSOR	ABSORBENT	TUNED
● WAV060	WAVYFUSER	6	✓	-	-
● WAI060	WAVYFUSER INV	6	✓	-	-
● FSO060	FOAMSORB	6	-	✓	-
● FS060	FOAMSORB INV	6	-	✓	-
● T3S120	TRAP 30S	8	-	✓	-

REFERENCE	PANELS	UNITS	DIFFUSOR	ABSORBENT	TUNED
● STS120	STRIPESORB	12	-	✓	-
● T3S120	TRAP 30S	8	-	✓	-

ACOUSTIC FOAM COLOURS





ATP[®] PACK 03

ROOMS FROM
17 TO 24 M²

03



EXCELLENCE
Sabine: 0.47 sec



STANDARD
Sabine: 0.53 sec

DESCRIPTION

The ATP[®] PACK 03 is an acoustic panel set designed for rooms measuring between 17 and 24 square metres. This set of panels has been therefore prepared for medium-sized rooms, which are probably the most usual ones.

The presence of acoustic panels in a room helps to enhance, in the most real way, the sound produced by its system, thus improving the soundstage and the channel separation.

The next step is to optimise the acoustic coupling between the listener and the speakers, while minimising the SBIR and the modal emphasis to produce a frequency response as flat as possible in the room.

It uses low-frequency tuned modules, **BKA120** and **BKW120**, which are duly balanced with the absorbers and diffusers **FSO060** and **WAV060**, as pictures show.

It is imperative to use these modules in this type of rooms in order to hold the energy at low frequencies. You can choose from the two ATP[®] PACK 03 available solutions: **STANDARD** or **EXCELLENCE**, depending on your needs and aesthetic taste.

It is a very practical assembly kit and is provided with assembly instructions, as well as the glues and tools which are necessary to install the acoustic modules.

WHERE TO APPLY :

Rooms with an area between: 17 and 24 square meters.

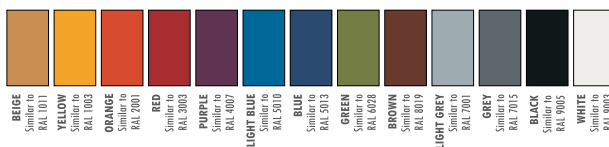
Rooms with volumes between: 45 and 58 cubic meters.

For use in medium-sized home-theatre rooms, home-studios, Hi-fi rooms or instrument rooms.

FEATURES

- Values were obtained by simulation in specific JAS[®] software and later confirmed through acoustic analyses in the rooms.
- The simulated and tested rooms are totally empty, and only the referred ATP[®] PACK 03 acoustic panels are applied.
- Traditional construction room with dimensions: (L,W,H): 5.82m / 4.00m / 2.50m.
Walls: masonry with painted fine stuff and a wooden door.
Ceiling: 12 mm - thick plaster.
Floor: natural floating parquet.

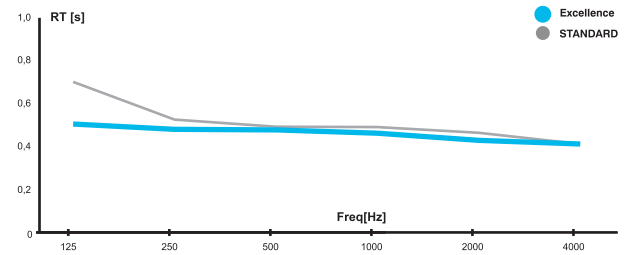
STANDARD EPS RAL COLOURS



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ABSORPTION COEFFICIENT AND GRAPHIC



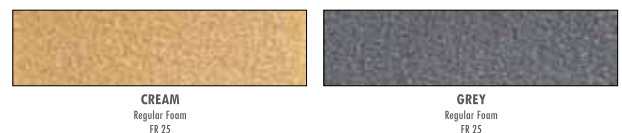
FREQUENCY	125 Hz	250 Hz	500 Hz	1 KHz	2 KHz	4 KHz	RT60
● Excellence	0.52	0.49	0.49	0.48	0.44	0.42	0.47
● STANDARD	0.71	0.55	0.52	0.50	0.47	0.42	0.53

PACK QUANTITIES

REFERENCE	PANELS	UNITS	DIFFUSOR	ABSORBENT	TUNED
● WAV060	WAVYFUSER	9	✓	-	-
WAI060	WAVYFUSER INV	9	✓	-	-
FSO060	FOAMSORB	9	-	✓	-
FSI060	FOAMSORB INV	9	-	✓	-
BKA120	BASSKEEPER ANGLE	8	-	-	✓
BKW120	BASSKEEPER WALL	4	-	-	✓

REFERENCE	PANELS	UNITS	DIFFUSOR	ABSORBENT	TUNED
● STS120	STRIPESORB	18	-	✓	-
T3S120	TRAP 30S	8	-	✓	-

ACOUSTIC FOAM COLOURS





ATP[®] PACK 04

ROOMS FROM
24 TO 30 M²

04



EXCELLENCE
Sabine: 0.50 sec

STANDARD
Sabine: 0.54 sec

DESCRIPTION

The ATP[®] PACK 04 is specific for large-sized music rooms, as it was designed for rooms measuring between 24 and 30 square metres.

You can choose from the two ATP[®] PACK 04 available solutions: **STANDARD** or **EXCELLENCE**, depending on your needs and aesthetic taste.

It provides acoustic comfort in control room studios, recording rooms, hi-fi or home-cinema rooms, rehearsal rooms, etc. It uses low-frequency tuned modules, **BKA120** and **BKW120**, which are duly balanced with the absorbers and diffusers **FSO060** and **WAV060**, as pictures show.

The application of the low-frequency tuned absorbers in the corners of the room and on the walls is mandatory, in this case, to hold the energy at low frequencies.

The integration of the acoustic modules, sound system and listener is decisive for a good audition, therefore minimising the differences in the distribution of the acoustic pressure and minimising the modal emphasis and SBIR (speaker-boundary interference response). Give your ears an opportunity and see how the performance of your sound system improves.

WHERE TO APPLY :

Rooms with an area between: 24 and 30 square meters.

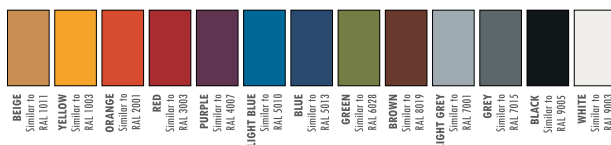
Rooms with volumes between: 58 and 90 cubic meters.

For use in control room studios, tracking rooms, hi-fi or home-cinema rooms, rehearsal rooms, etc.

FEATURES

- Values were obtained by simulation in specific JAS® software and later confirmed through acoustic analyses in the rooms.
- The simulated and tested rooms are totally empty, and only the referred ATP[®] PACK 04 acoustic panels are applied.
- Traditional construction room with dimensions: (L,W,H): 6.52m / 4.48m / 2.80m.
Walls: masonry with painted fine stuff and a wooden door.
Ceiling: 12 mm - thick plaster.
Floor: natural floating parquet.

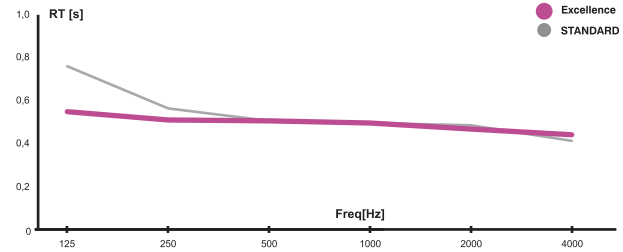
STANDARD EPS RAL COLOURS



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ABSORPTION COEFFICIENT AND GRAPHIC



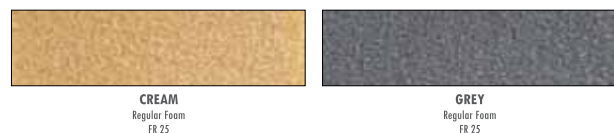
FREQUENCY	125 Hz	250 Hz	500 Hz	1 KHz	2 KHz	4 KHz	RT60
● Excellence	0.55	0.52	0.52	0.50	0.47	0.45	0.50
● STANDARD	0.77	0.57	0.52	0.50	0.48	0.42	0.54

PACK QUANTITIES

REFERENCE	PANELS	UNITS	DIFFUSOR	ABSORBENT	TUNED
● WAV060	WAVYFUSER	12	✓	-	-
● WAI060	WAVYFUSER INV	12	✓	-	-
● FSO060	FOAMSORB	12	-	✓	-
● FSI060	FOAMSORB INV	12	-	✓	-
● BKA120	BASSKEEPER ANGLE	8	-	-	✓
● BKW120	BASSKEEPER WALL	8	-	-	✓

REFERENCE	PANELS	UNITS	DIFFUSOR	ABSORBENT	TUNED
● STS120	STRIPESORB	28	-	✓	-
● T3S120	TRAP 30S	8	-	✓	-

ACOUSTIC FOAM COLOURS

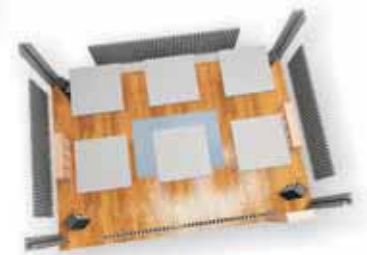




ATP® PACK 05

ROOMS FROM
30 TO 40 M²

05



EXCELLENCE
Sabine: 0.63 sec

STANDARD
Sabine: 0.64 sec

DESCRIPTION

The **ATP® PACK 05** is specific for large-sized music rooms, as it was designed for rooms measuring between 30 and 40 square metres.

You can choose from the two **ATP® PACK 05** available solutions: **STANDARD** or **EXCELLENCE**, depending on your needs and aesthetic taste.

It provides acoustic comfort in control room studios, recording rooms, hi-fi or home-cinema rooms, rehearsal rooms, etc. It uses low-frequency tuned modules, **BKA120** and **BKW120**, which are duly balanced with the absorbers and diffusers **FSO060** and **WAV060**, as pictures show.

The application of the low-frequency tuned absorbers in the corners of the room and on the walls is mandatory, in this case, to hold the energy at low frequencies.

The integration of the acoustic modules, sound system and listener is decisive for a good audition, therefore minimising the differences in the distribution of the acoustic pressure and minimising the modal emphasis and SBIR (speaker-boundary interference response). Give your ears an opportunity and see how the performance of your sound system improves.

WHERE TO APPLY :

Rooms with an area between: 30 and 40 square meters.

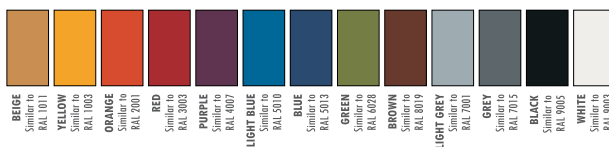
Rooms with volumes between: 90 and 130 cubic meters.

For use in: control room studios, tracking rooms, hi-fi or home-cinema rooms, rehearsal rooms, etc.

FEATURES

- Values were obtained by simulation in specific JAS® software and later confirmed through acoustic analyses in the rooms.
- The simulated and tested rooms are totally empty, and only the referred **ATP® PACK 05** acoustic panels are applied.
- Traditional construction room with dimensions: **(L,W,H): 7.45m / 5.20m / 3.20m**.
Walls: masonry with painted fine stuff and a wooden door.
Ceiling: 12 mm - thick plaster.
Floor: natural floating parquet.

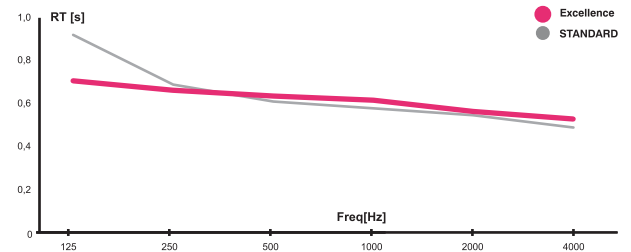
STANDARD EPS RAL COLOURS



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ABSORPTION COEFFICIENT AND GRAPHIC



FREQUENCY	125 Hz	250 Hz	500 Hz	1 KHz	2 KHz	4 KHz	RT60
● α_s	0.71	0.67	0.64	0.62	0.58	0.55	0.63
● α_s	0.92	0.68	0.61	0.59	0.56	0.49	0.64

PACK QUANTITIES

REFERENCE	PANELS	UNITS	DIFFUSOR	ABSORBENT	TUNED
● WAV060	WAVYFUSER	16	✓	-	-
● WAI060	WAVYFUSER INV	16	✓	-	-
● FSO060	FOAMSORB	16	-	✓	-
● FSI060	FOAMSORB INV	16	-	✓	-
● BKA120	BASSKEEPER ANGLE	8	-	-	✓
● BKW120	BASSKEEPER WALL	10	-	-	✓

REFERENCE	PANELS	UNITS	DIFFUSOR	ABSORBENT	TUNED
● STS120	STRIPESORB	38	-	✓	-
● T3S120	TRAP 30S	8	-	✓	-

ACOUSTIC FOAM COLOURS





ATP[®] PACK 06

ROOMS FROM
17 TO 30 M²

06

VELVETY FINISHING



EXCELLENCE
Sabine: 0.22 sec

STANDARD
Sabine: 0.22 sec

DESCRIPTION

ATP[®] PACK 06 was developed by JOCAVI[®] to fulfil and achieve a compromise between aesthetics and acoustics in Home Cinemas and private Home Theatres applications.

ATP[®] PACK 06 is a new set of acoustic panels prepared for mid-size rooms and based on the room dimensions of previous ATP[®] PACK 03.

Despite the intentional non-inclusion of low frequency absorbent panels in this pack, the presence of this set of panels, helps to enhance, in the most real way, the sound produced by its system and to optimise the acoustic coupling between the listener and the speakers, while minimising the SBIR and the modal emphasis to produce a frequency response as flat as possible in the room.

As the others ATP[®] PACKS, ATP[®] PACK 06 is available in two options: **Standard** and **Excellence**. The **Standard** is composed only by standard acoustic foam panels while the **Excellence** version is available with the same acoustic models but with our new finishing: velvety.

It is a very practical assembly kit and is provided with assembly instructions, as well as the glues and tools which are necessary to install the acoustic modules.

WHERE TO APPLY :

Rooms with an area between: 17 and 30 square meters.

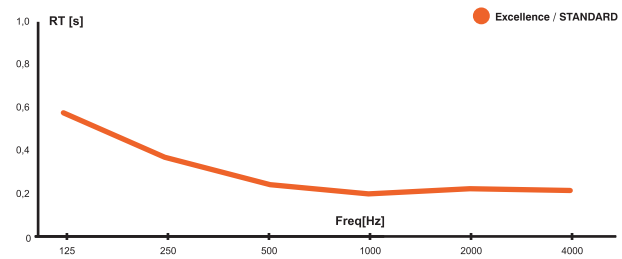
Rooms with volumes between: 45 and 58 cubic meters.

For use in medium-size home-theatre rooms, home-studios, Hi-Fi rooms, listening rooms, etc.

FEATURES

- Values were obtained by simulation in specific JAS[®] software and later confirmed through acoustic analyses in the rooms.
- The simulated and tested rooms are totally empty, and only the referred ATP[®] PACK 06 acoustic panels are applied.
- Traditional construction room with dimensions: (L,W,H): **4.90m / 3.60m / 2.80m**.
Walls: masonry with painted fine stuff and a wooden door.
Ceiling: 12 mm - thick plaster.
Floor: natural floating parquet.

ABSORPTION COEFFICIENT AND GRAPHIC



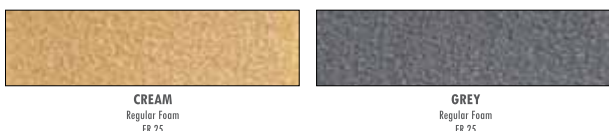
FREQUENCY	125 Hz	250 Hz	500 Hz	1 KHz	2 KHz	4 KHz	RT60
αS	0.58	0.36	0.24	0.21	0.23	0.22	0.22
αS	0.60	0.38	0.25	0.21	0.22	0.21	0.21

PACK QUANTITIES

REFERENCE	PANELS	UNITS	DIFFUSOR	ABSORBENT	TUNED
SF2060	SEAFOAM SF2	60	-	✓	-
T4S060	TRAP 40 S	16	-	✓	-

REFERENCE	PANELS	UNITS	DIFFUSOR	ABSORBENT	TUNED
SF2060	SEAFOAM SF2	60	-	✓	-
T4S060	TRAP 40 S	16	-	✓	-

ACOUSTIC FOAM COLOURS



CREAM
Regular Foam
FR 25

GREY
Regular Foam
FR 25

VELVETY COLOURS



RED

BLUE

GREY

BEIGE

BLACK

WHITE

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JOCAVI[®] KITBOX

The market of musical production and home-cinemas in small rooms has been one of the fastest growing markets.

Mindful of this segment's needs, JOCAVI[®] features acoustic treatment products and solutions which are practical and accessible to all.

These are convincing ideas for those customers who wish to solve the acoustics of their room with a practical sense and a controlled budget.

To choose the room dimensions is a good way to start the design of a music room, followed by the insertion of the acoustic treatment panels and subsequent installation of the sound or video equipment.

Particular attention must be given to the loudspeakers, since a suitable framing with the listener is required for a good performance of the system. Various software, namely multi-dimensional tools, may be used for optimisation as they can automatically determine the best locations for the sources and the listener. The next step is to optimise the acoustic components in order to interconnect the listener with the loudspeakers.

By observing these steps, your room will have a good distribution of modal pressure. Besides, it will be acoustically balanced and ready to receive from the smoothest to the strongest percussion sounds from your sound system.

This way, the modal emphasis and the SBIR (speaker-boundary interference response) are simultaneously minimised to produce the best response from the room.

To facilitate the design of this type of rooms, JOCAVI[®] developed these KITBOX which correspond to different room sizes in a do-it-yourself' scheme.

The KITBOX are easy to assemble and include all the necessary accessories and mounting instructions at anyone's reach. These rooms were acoustically simulated with the dimensions mentioned in each case and later verified with acoustic analyses. They may serve as a comparison to find a solution for your space.

These are practical and efficient ideas for those customers who are interested in advanced technology when wishing to add a solution to the acoustic treatment of a room.

These are proposals for customers who look for practical solutions coupled with a rather refined aesthetic effect, with the visual display of all the acoustic products.

KIT

STAITREAT
BOX
SYSTEM



Sabine: 0.48 sec



DESCRIPTION

The STAITREAT® is an innovative modular system designed to aesthetically conceal the acoustic treatment in its room in a very sober manner. The finishing plate made of pressed mineral sand is similar for the three models. As the engineering portion of each model, the STAITREAT® consists of three different models with very different acoustic absorption curves and performance. The semi-transparent mineral granulate plate also combines the absorption and unidirectional micro-diffusion features. The different specificities of each model are well combined to fit the room's requirements. This range of panels is particularly meant for small and medium-sized rooms that require an outstanding acoustic balance. The KITBOX set has been created for home-cinemas, studios, conference halls and auditoriums providing them with a very pleasant atmosphere.

The JOCAVI® KITBOX 01 has been created for small-sized home-cinema rooms, home-studios and rehearsal rooms measuring between 13 and 17 square metres. The acoustic treatment modules must also be placed in relation to the listener and the speakers, while minimising the SBIR (speaker-boundary interference response) and the modal emphasis to produce a frequency response as flat as possible in the room. Give your ears an opportunity to see how the performance of your sound system improves. All packs are supplied with assembly instructions, as well as the glues and tools which are necessary to install the acoustic modules.

WHERE TO APPLY :

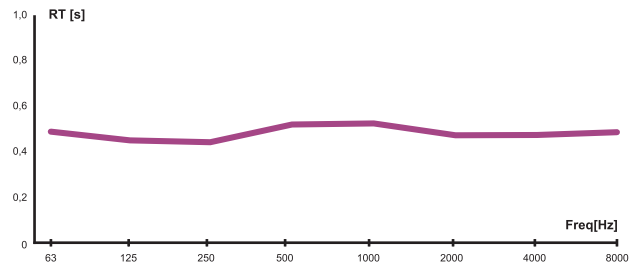
Rooms with an area between: 13 and 17 square meters.
Rooms with volumes between: 35 and 45 cubic meters.

For use in small-sized home-theatre rooms, home-studios, Hi-Fi rooms or instrument rooms.

FEATURES

- Values were obtained by simulation in specific JAS® software and later confirmed through acoustic analyses in the rooms.
- The simulated rooms were tested with all the materials and equipments shown in the images, and the mentioned JOCAVI®KIT BOX 01 acoustic panels.
- Traditional construction room with dimensions: (L,W,H): 4.31m / 3.58m / 2.80m.
Walls: masonry with painted fine stuff and a wooden door.
Ceiling: 12 mm - thick plaster.
Floor: natural floating parquet.

ABSORPTION COEFFICIENT AND GRAPHIC



FREQUENCY	63 Hz	125 Hz	250 Hz	500 Hz	1 Khz	2 Khz	4 Khz	8 Khz
αS	0.48	0.44	0.43	0.52	0.53	0.47	0.47	0.49

Sabine: 0.48 sec

KITBOX 01 QUANTITIES

REFERENCE	PANELS	UNITS	DIFFUSOR	ABSORBENT	TUNED
BXA060	Staidtreat®BXA	12	—	—	✓
BXW060	Staidtreat®BXW	9	—	—	✓
WBA060	Staidtreat®WBA	12	—	✓	—

STANDARD MINERAL GRANULATED COLOURS



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- 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.
- Sizes may vary slightly due to their production method and some inherent raw-materials characteristics.



Sabine: 0.51 sec



DESCRIPTION

The **STAITREAT®** is an innovative modular system designed to aesthetically conceal the acoustic treatment in its room in a very sober manner. As the engineering portion of each model, the **STAITREAT®** consists of three different models with very different acoustic absorption curves and performance. The semi-transparent mineral granulate plate also combines the absorption and unidirectional micro-diffusion features. The different specificities of each model are well combined to fit the room's requirements. This range of panels is particularly meant for small and medium-sized rooms that require an outstanding acoustic balance. The **KITBOX** set has been created for home-cinemas, studios, conference halls and auditoriums providing them with a very pleasant atmosphere.

The **JOCAVI® KITBOX 02** has been created for small-sized home-cinema rooms, home-studios and rehearsal rooms measuring between 17 and 24 square metres. The **JOCAVI® KITBOX 02** approach consists in adjusting the room dimensions to sizes which are slightly bigger than those of the **JOCAVI® KITBOX 01**. The acoustic treatment modules must also be placed in relation to the listener and the speakers, while minimising the SBIR (speaker boundary interference response) and the modal emphasis to produce a frequency response as flat as possible in the room. Give your ears an opportunity to see how the performance of your sound system improves. All packs are supplied with assembly instructions, as well as the glues and tools which are necessary to install the acoustic modules.

WHERE TO APPLY :

Rooms with an area between: 17 and 24 square meters.

Rooms with volumes between: 45 and 58 cubic meters.

For use in small and medium-sized home-theatre rooms, home-studios, Hi-fi rooms or instrument rooms.

FEATURES

- Values were obtained by simulation in specific JAS® software and later confirmed through acoustic analyses in the rooms.
- The simulated rooms were tested with all the materials and equipments shown in the images, and the mentioned **JOCAVI® KITBOX 02** acoustic panels.
- Traditional construction room with dimensions: (L,W,H): 5.82m / 4.00m / 2.50m.
Walls: masonry with painted fine stuff and a wooden door.
Ceiling: 12 mm - thick plaster.
Floor: natural floating parquet.

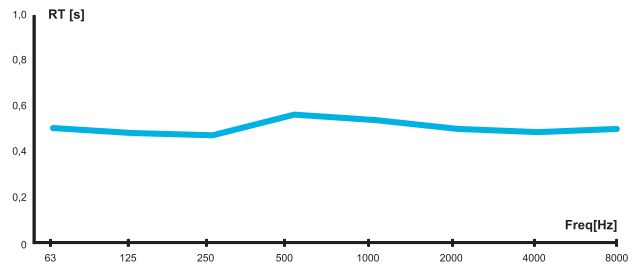
STANDARD MINERAL GRANULATED COLOURS



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- Sizes may vary slightly due to their production method and some inherent raw-materials characteristics.

ABSORPTION COEFFICIENT AND GRAPHIC



FREQUENCY	63 Hz	125 Hz	250 Hz	500 Hz	1 KHz	2 KHz	4 KHz	8 KHz
αS	0.50	0.48	0.47	0.57	0.56	0.50	0.49	0.51

Sabine: 0.51 sec

KITBOX 02 QUANTITIES

REFERENCE	PANELS	UNITS	DIFFUSOR	ABSORBENT	TUNED
BXA060	Staidtreat®BXA	12	—	—	✓
BXW060	Staidtreat®BXW	12	—	—	✓
WBA060	Staidtreat®WBA	18	—	✓	—



Sabine: 0.27 sec



DESCRIPTION

The **JOCAVI® KIT BOX 03** has been created for rooms with an area between 20 and 30 square meters, so small or medium-sized rooms such as home-cinema rooms, home-studios and rehearsal rooms.

JOCAVI® KIT BOX 03 it is composed of STAITREAT® acoustic modules which consists of three different models with very different acoustic features though with the same appearance, namely: STAITREAT® BXA® as a Low-frequency absorbent tuned at 80Hz, the BXW® as a Low-frequency absorbent tuned at 160Hz and the WBA®, which is a broad band mid-high absorbent.

As a whole, these three different specificities provide an outstanding acoustic balance, thus the resulting aesthetic look is a light and very pleasant design.

The finishing plate is similar to the three options and conceals the remaining engineering portion of each model. This pressed mineral granulate plate also combines absorption with unidirectional micro-diffusion features.

This KIT of panels it is the most recommended pack of acoustic panels for those who want an authentic acoustic balance with a sober decoration.

WHERE TO APPLY :

Rooms with an area between: 20 and 30 square meters.

Rooms with volumes between: 58 and 90 cubic meters.

For use in small-sized home-theatre rooms, home-studios, HI-fi rooms or instrument rooms.

FEATURES

- Values were obtained by simulation in specific JAS® software and later confirmed through acoustic analyses in the rooms.
- The simulated rooms were tested with all the materials and equipments shown in the images, and the mentioned **JOCAVI®KIT BOX 03** acoustic panels.
- Traditional construction room with dimensions: (L,W,H): **4.90m / 3.60m / 2.80m**.
Walls: masonry with painted fine stuff and a wooden door.
Ceiling: 12 mm - thick plaster.
Floor: natural floating parquet.

STANDARD MINERAL GRANULATED COLOURS



BLACK



MAROON



BROWN



RED



BLUE

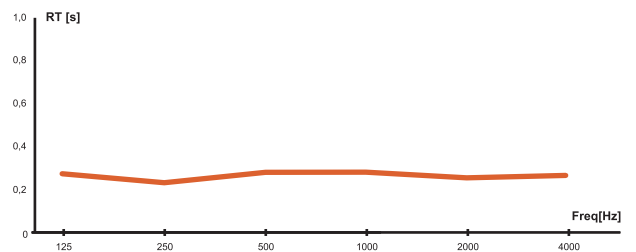


GREY

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- Sizes may vary slightly due to their production method and some inherent raw-materials characteristics.

ABSORPTION COEFFICIENT AND GRAPHIC

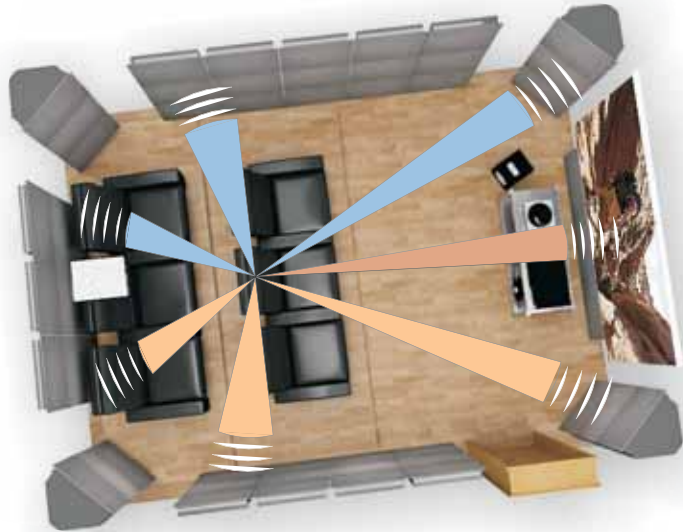


FREQUENCY	125 Hz	250 Hz	500 Hz	1 KHz	2 KHz	4 KHz
αS	0.27	0.23	0.28	0.28	0.26	0.27

Sabine: 0.27 sec

KITBOX 03 QUANTITIES

REFERENCE	PANELS	UNITS	DIFFUSOR	ABSORBENT	TUNED
BXA060	Staidreat®BXA	12	—	—	✓
BXW060	Staidreat®BXW	28	—	—	✓
WBA060	Staidreat®WBA	32	—	✓	—



Sabine: 0.27 sec



DESCRIPTION

The **STAITREAT® KITBOX 03.A** (Active Speakers System), is an innovative modular acoustic treatment method, which combines with high quality performance speakers. The speakers are placed inside the absorbent boxes of the WBA /BXA models. This set of acoustics and public address devices is designed to aesthetically conceal acoustic treatment with speakers providing a good sound intelligibility, besides making technology imperceptible to eyesight.

This system was essentially planned for 7.1 and 5.1 home-theatres surround systems, but it is also advisable for conference rooms, restaurants and bars, public spaces and for background music or speech purposes. It is composed by the two-way loudspeaker mounted inside the acoustic panel and by a self-amplified Subwoofer to be placed on the floor of the room. It has been created for small and mid-sized home-cinema rooms. It is a discrete system that combines acoustic treatment and the embedded speakers. The approach consists on adjusting the number of the modules to the room dimensions.

All packs are supplied with assembly instructions, as well the necessary mounting accessories to apply the acoustic modules.

Surround sound is the idea of engaging a listener in sound, just like a movie theater. Sound is half of the importance of the entertainment experience and the speaker placement is essential to experiencing the true impact of movies and music.

A 7.1 surround system has seven discrete audio channels, Left, Right, Center, Left Surround, Right Surround, Left and Right Back, and of course, the Subwoofer.

WHERE TO APPLY :

Rooms with an area between: 20 and 30 square meters.

Rooms with volumes between: 58 and 90 cubic meters.

For use in small and medium-sized home-theatre rooms, home-studios, Hi-fi rooms or instrument rooms.

FEATURES

- Values were obtained by simulation in specific JAS® software and later confirmed through acoustic analyses in the rooms.
- The simulated rooms were tested with all the materials and equipments shown in the images, and the mentioned **JOCAVI® KITBOX 03.A** acoustic panels.
- Traditional construction room with dimensions: (L,W,H): 4.90m / 3.60m / 2.80m.
Walls: masonry with painted fine stuff and a wooden door.
Ceiling: 12 mm - thick plaster.
Floor: natural floating parquet.

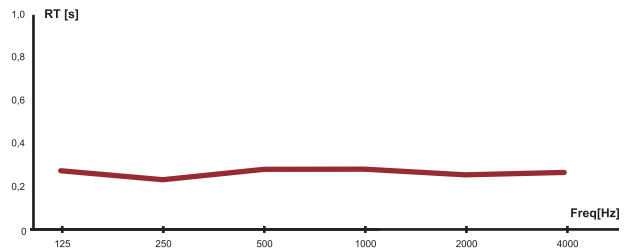
STANDARD MINERAL GRANULATED COLOURS



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- Sizes may vary slightly due to their production method and some inherent raw-materials characteristics.

ABSORPTION COEFFICIENT AND GRAPHIC



FREQUENCY	125 Hz	250 Hz	500 Hz	1 KHz	2 KHz	4 KHz
αS	0.27	0.23	0.28	0.28	0.26	0.27

Sabine: 0.27 sec

KITBOX 03.A QUANTITIES

REFERENCE	PANELS	UNITS	DIFFUSOR	ABSORBENT	TUNED
BXA060	Staidtreat®BXA	10	—	—	✓
BXW060	Staidtreat®BXW	28	—	—	✓
WBA060	Staidtreat®WBA	26	—	✓	—
BXA060A	Staidtreat®BXA Active	02	—	✓	—
WBA060A	Staidtreat®WBA Active	06	—	✓	—

IN[®] Industrial Insulation

Thinking about Industrial Insulation and on construction business segment, JOCAVI[®] made this line of products to face big space applications such as manufacturing industries, large hangars, public transport bays and sport stadiums.

This range of products completes our product range.

You can find from this product line, various products for soundproofing and noise absorption such as self-adhesive insulation rolls, anti-vibration hardware elements, sandwich damping noise, acoustic ink and metal perforated acoustic panels.





Image of 120x60cm model Ref.:MTAF050

DESCRIPTION

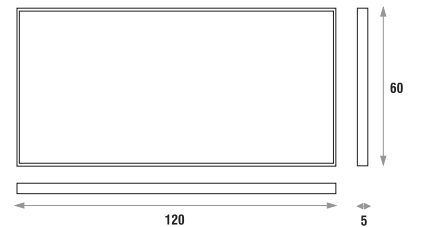
The AIRflat® is an additional option as an absorption panel. This panel's structure is made on an aluminum frame, which gives the product a good robustness; the absorbent layer is built in a mineral fiber plate with viselike fabric that makes the finishing.

It is mainly meant for stadiums, large halls, airports, subways and bus stations, as well as for industrial applications. It can also be applied in moist environments or outdoors.

The AIRflat® is available in several colors with the same acoustic features. It is easy to install hanging on ceilings.

The typical public and industrial spaces require an adequate planning of acoustics in order to provide good noise control and sound reception. This product provides a good absorption coefficient at mid frequency range, exactly within the area where the largest common noise occur.

TECHNICAL DRAWINGS



HORIZONTAL INSTALLATION DIAGRAM

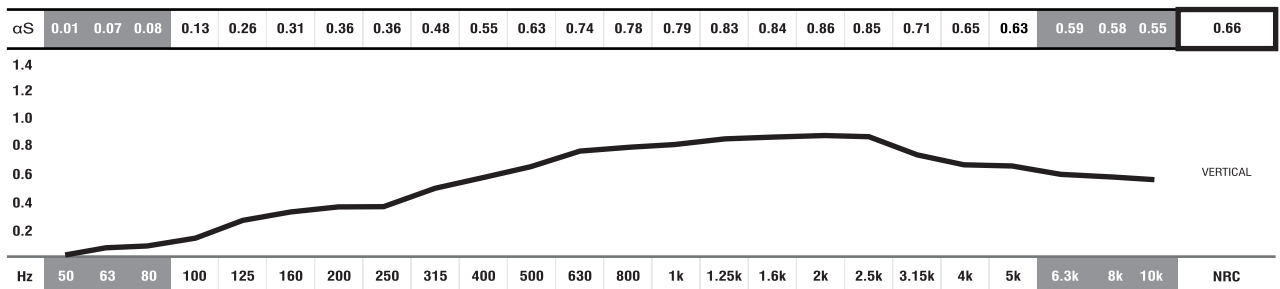
FEATURES

- NRC: **0.66/m²**.
- Several combinations and positioning.
- Good robustness and airborne noise control.
- Made on an aluminium frame and different raw absorbent materials inside.
- Can be used in different environments.
- Good fire-resistance.
- Suitable for areas with large space, subways, stadiums, airports and bus stations, pavilions as well as for public or industrial facilities.

MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
MTAF050	120 cm	60 cm	5 cm	4 Kg

ABSORPTION COEFFICIENT



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

■ Values [$< 100\text{Hz}$ and $> 5\text{K}$] are Non Standard Values.

STANDARD COLOURS



BLACK



GREY



WHITE

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- 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 their production method and some inherent raw-materials characteristics.





AIRgrid®
ABSORBENT PANEL



Image of 120x60cm model Ref.:MTAG100 (on the left).

DESCRIPTION

The AIRgrid® is a suspending absorption panel. It is mainly meant for stadiums, large halls, airports, subways and bus stations, as well as for industrial applications. It can also be applied in moist environments or outdoors.

This panel's structure is made with a perforated grid on an aluminium frame, which gives the product a good robustness; the interior is built with an absorbent layer made on pressed mineral fibers finishing with viselike fabric.

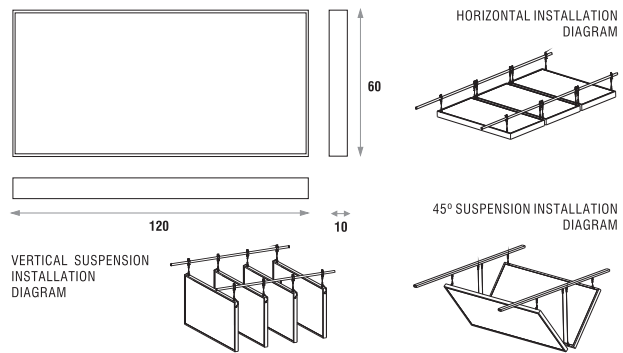
Although it is different in aesthetic terms, the AIRgrid® is a very practical and standard panel. The AIRgrid® is available in several colors with the same acoustic features. It is easy to install suspending on ceilings.

The typical public and industrial spaces require an adequate planning of acoustics in order to provide good noise control and sound perception. Due to its thickness and superior density, this product provides a better absorption coefficient at mid frequency range, which helps the airborne noise control.

FEATURES

- NRC: **0.77/m²**.
- Several combinations and positioning: vertical, horizontal and 45°.
- Good robustness and airborne noise control.
- Made on an aluminium frame and different raw absorbent materials inside.
- Can be used in moist environments.
- Good fire-resistance.
- Suitable for areas with large space, subways, stadiums, airports and bus stations, pavilions as well as for public or industrial facilities.

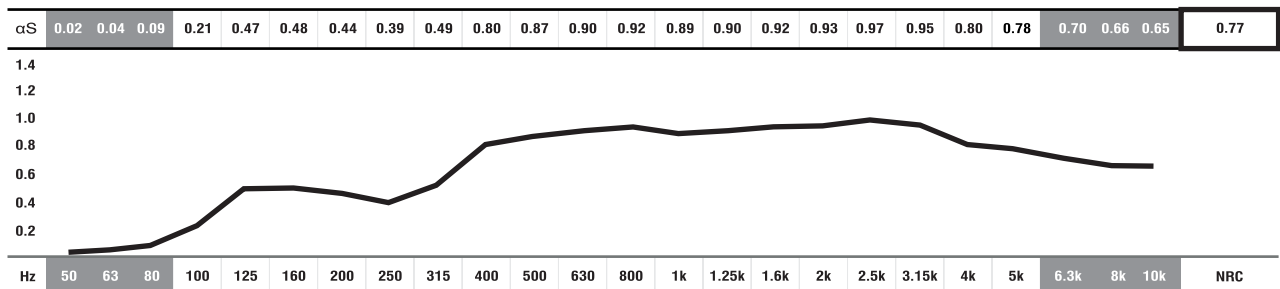
TECHNICAL DRAWINGS



MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
MTAG100	120 cm	60 cm	10 cm	8.3 Kg

ABSORPTION COEFFICIENT



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

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

STANDARD COLOURS



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- 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 their production method and some inherent raw-materials characteristics.





AIRperf[®]
ABSORBENT PANEL



PERFORATED METAL



Image of 120x60cm model Ref.:MTPF100.

DESCRIPTION

JOCAVI[®] has developed this range of acoustic absorbent panels, mainly meant for stadiums, large halls, airports, subways and bus stations, as well as for industrial applications. It can also be applied in moist environments and outdoors.

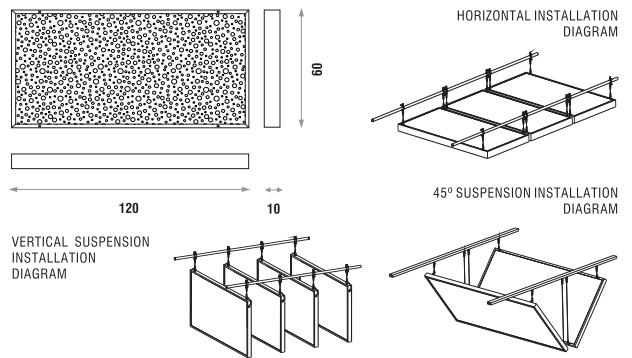
This panel's structure is made on a perforated metal lacquered plate, which gives the product a good robustness; the interior is built by combining absorbent raw materials made from mineral fibers in different layers and densities. These products are applicable to ceilings and suspended with the provided accessories.

The typical public and industrial spaces require an adequate planning of acoustics in order to provide good sound reception. Due to its composite absorption layer, the AIRperf[®] has a good absorption coefficient in mid and mid-low spectrum, which is very important to reduce the airborne noise in the frequencies common noise range.

FEATURES

- NRC: **0.76/m²**.
- Several combinations and positionings: vertical, horizontal and 45°.
- Good robustness and airborne noise control.
- Made of metal lacquered plate and different raw absorbent materials inside.
- Excellent fire-resistance.
- Suitable for areas with large space, subways, stadiums, airports and bus stations, pavilions as well as for public or industrial facilities.

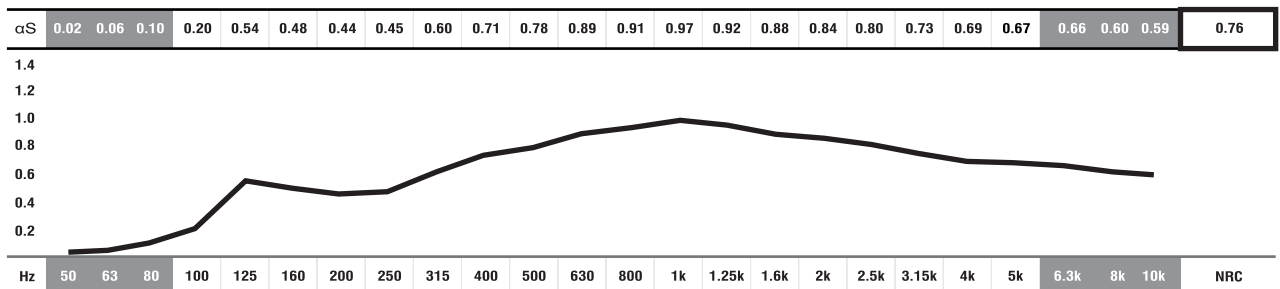
TECHNICAL DRAWINGS



MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
MTPF100	120 cm	60 cm	10 cm	7.1 Kg

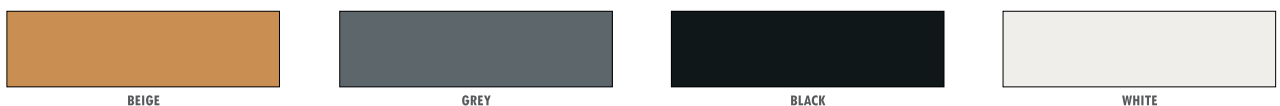
ABSORPTION COEFFICIENT



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

■ Values [$<100\text{Hz}$ and $>5\text{K}$] are Non Standard Values.

STANDARD COLOURS



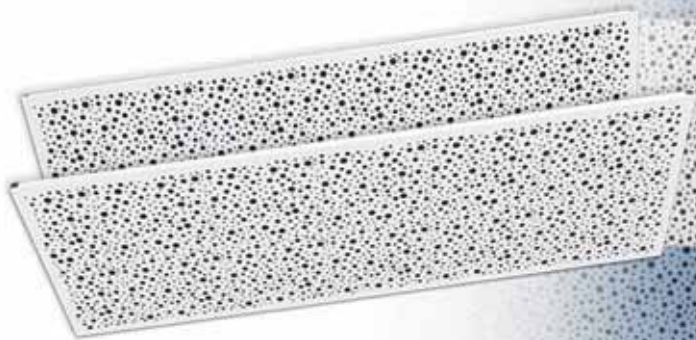
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- Typical Indoor Comfort Standards state a temperature range of 20°C - 27°C (68°F - 81°F), and a relative humidity of less than 60%. These would be considered as normal operational levels of JOCAVI[®] products' range.
- Despite all the standard sizes of all products, this model can be customised upon previous consultation. Sizes may vary slightly due to their production method and some inherent raw-materials characteristics.





WALLperf[®]
ABSORBENT PANEL



PERFORATED METAL

Image of 180x60cm model Ref.:MTPF025.

DESCRIPTION

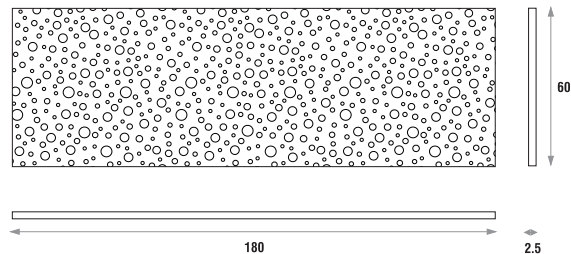
WALLperf[®] is an additional option within the IN[®] absorption panels range. It is mainly meant for stadiums, large halls, airports, subways and bus stations, as well as for industrial applications. It can also be applied in moist environments or outdoors.

This panel's structure is made on a perforated metal lacquered plate, which gives the product a good robustness; the interior is built by combining absorbent raw materials made from mineral and synthetic fibers.

The typical public and industrial spaces require an adequate planning of acoustics in order to provide good sound perception. The brand IN[®] has come up with this line of products which has a good absorption in the largest common noise range.

Although it is different in aesthetic terms, the WALLperf[®] is attractive and has a pleasant design. The WALLperf[®] is available in multiple colors with the same acoustic features. It is easy to install on the walls and ceilings with its own accessories.

TECHNICAL DRAWINGS



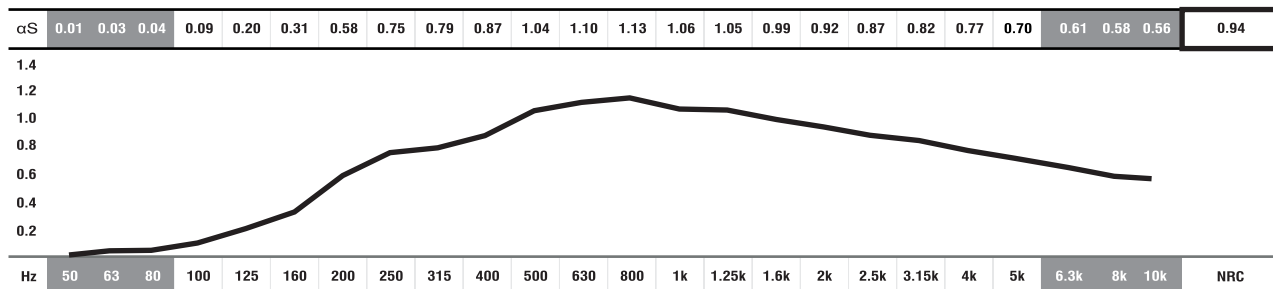
FEATURES

- NRC: **0.94/m²**.
- For ceiling applications.
- Good robustness and airborne noise control.
- Made of metal lacquered plate and different raw absorbent materials inside.
- Excellent fire-resistance.
- Suitable for areas with large space, subways, stadiums, airports and bus stations, pavilions as well as for public or industrial facilities.

MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
MTPF025	180 cm	60 cm	2.5 cm	3.3 Kg

ABSORPTION COEFFICIENT



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

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STANDARD COLOURS



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- 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 their production method and some inherent raw-materials characteristics.



AIR HOLED® ABSORBENT PANEL



PERFORATED METAL



Image of 120x60cm model Ref.:MTHL100.

DESCRIPTION

AIRholed® is an absorbent suspension panel mainly meant for stadiums, large halls, airports, subways and bus stations, as well as for industrial applications. It can also be applied in moist environments and outdoors.

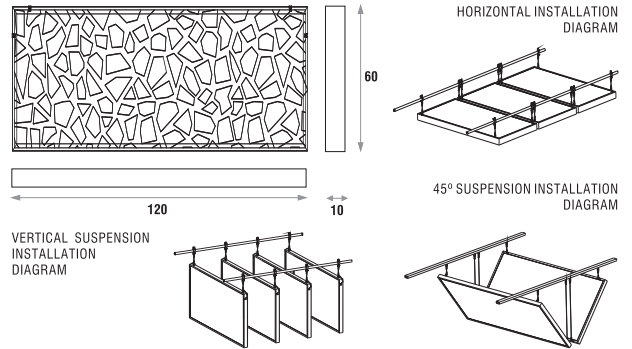
This panel's structure is made on a holed metal lacquered plate, which gives the product a good robustness; the interior is built by combining absorbent raw materials made from mineral fibers in different layers and densities. These products are applicable to ceiling, suspended with the provided accessories.

The typical public and industrial spaces require an adequate planning of acoustics in order to provide good noise control and sound perception. AIRholed® has a good absorption coefficient in mid range spectrum, which is very important to improve the absorption of the airborne noise in big venues.

FEATURES

- NRC: **0.68/m²**.
- Several combinations and positionings: vertical, horizontal and 45°.
- Good robustness and airborne noise control.
- Made of metal lacquered plate and different raw absorbent materials inside.
- Excellent Fire-resistance.
- Suitable for areas with large space, subways, stadiums, airports and bus stations, pavilions as well as for public or industrial facilities.

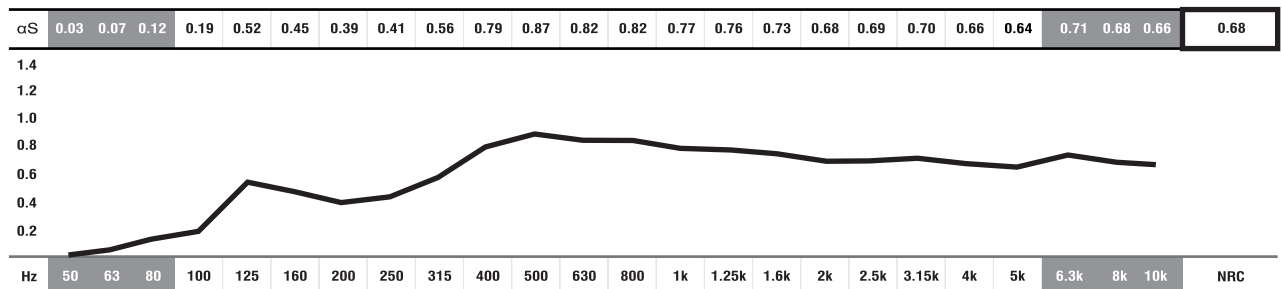
TECHNICAL DRAWINGS



MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
MTHL100	120 cm	60 cm	10 cm	8.7 Kg

ABSORPTION COEFFICIENT



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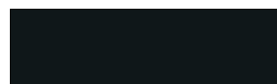
STANDARD COLOURS



BEIGE



GREY



BLACK



WHITE

IMPORTANT NOTICES

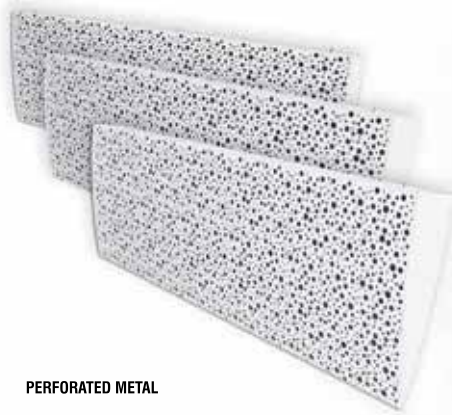
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AIR BILLOW®

ABSORBENT PANEL



PERFORATED METAL



Image of model Ref.:MTBL150 (on the left) and applied (ambient image).

DESCRIPTION

AIRBilLOW® is an absorbent suspending panel mainly meant for big venues like; stadiums, large halls, airports, subways and bus stations, as well as for industrial applications. It can also be applied in moist environments and outdoors.

AIRBilLOW® it is different in aesthetic terms, its triangular shape is attractive and provides pleasant combinations. It is available in several colors and it is easy to install suspending on the ceilings.

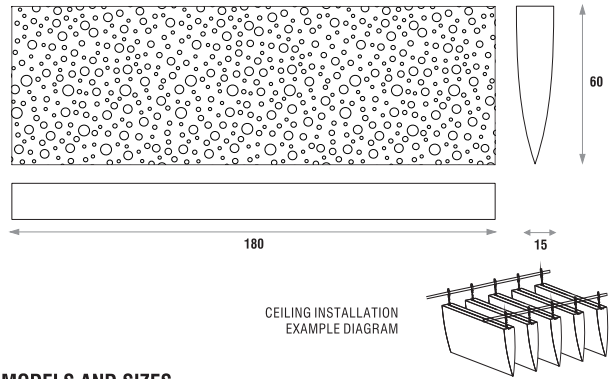
This panel's structure is made on a holed metal lacquered plate, which gives the product a good robustness; the interior is built by combining absorbent raw materials made from mineral fibers in different layers and densities. These products are applicable on a ceiling, suspended with the provided accessories.

The typical public and industrial spaces require an adequate noise control in order to provide good sound perception. This model has a good absorption coefficient in mid-low spectrum, concentrated within 400hz to 1250hz, which is very important to improve the absorption in the sound frequencies of the common noise.

FEATURES

- NRC: 1.05/m².
- Several and pleasant combinations.
- Good robustness and air noise control.
- Made of metal lacquered plate and different raw absorbent materials inside.
- Excellent fire-resistance.
- Suitable for areas with large space, e.g. stadiums, airports and bus stations, pavillions as well as for public or industrial facilities.

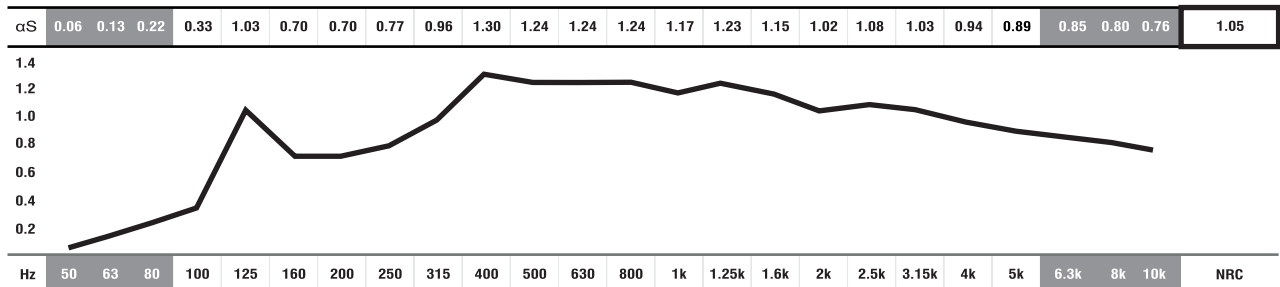
TECHNICAL DRAWINGS



MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
MTBL150	180 cm	60 cm	15 cm	9.4 Kg

ABSORPTION COEFFICIENT



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

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STANDARD COLOURS



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AIRTUBE[®] ABSORBENT PANEL



METAL



Image of 100x32cm model Ref. MTAT032.

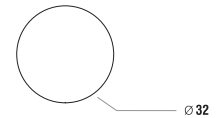
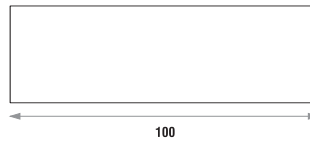
DESCRIPTION

Airtube[®] is a tube-shaped absorber panel that can be suspended in vertical or horizontal position providing pleasant combinations. This model is mainly meant for stadiums, large halls, airports, subways and bus stations, as well as for industrial applications. It can also be applied in moist environments and outdoors.

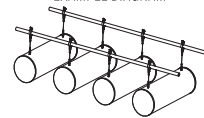
This panel's structure is made on a holed metal lacquered plate, which gives the product a good robustness; the interior is built with mineral fibres in different layers and densities. It is available in several colors and it is easy to install with the supplied accessories.

Big venues and industrial spaces require an adequate noise control in order to provide good sound perception. Due to its formation, the Airtube[®] has a good absorption values at the mid-range of the sound spectrum, which is very important to improve the reduction of the common air-noise.

TECHNICAL DRAWINGS



HORIZONTAL INSTALLATION
EXAMPLE DIAGRAM



VERTICAL INSTALLATION
EXAMPLE DIAGRAM



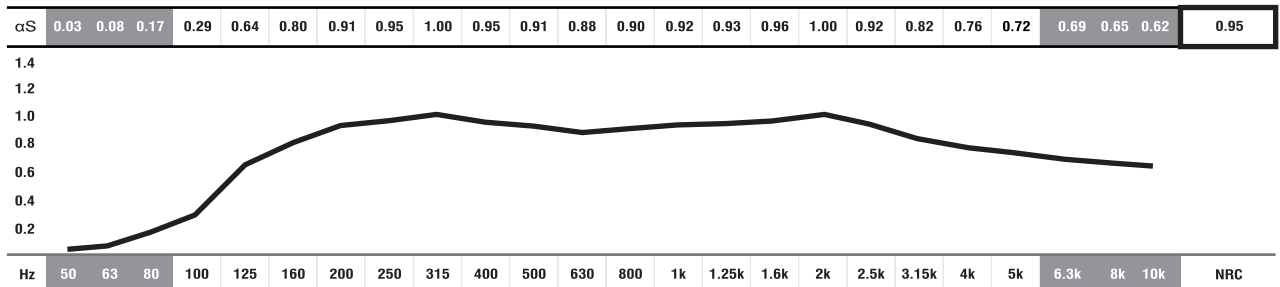
FEATURES

- NRC: 0.95/m².
- Several and pleasant combinations.
- Can be suspended horizontal or vertical positions.
- Made of metal lacquered plate.
- Excellent fire-resistance.
- Suitable for areas with large space, e.g. stadiums, airports and bus stations, as well as for industrial facilities.

MODELS AND SIZES

MODELS	HEIGHT	DIAMETER	WEIGHT
MTAT032	100 cm	32 cm	7.2 Kg

ABSORPTION COEFFICIENT



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STANDARD COLOURS



BEIGE



GREY



BLACK



WHITE

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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.





WOODFACE® 1624

ABSORBENT PANEL



WOOD



Image of 120x60cm model Ref. WP1624 (on the left) and applied (ambient image).

DESCRIPTION

WOODFACE® 1624 is a wooden construction finishing material with acoustic absorbing properties. Following an ecological philosophy, this line of acoustic treatment materials was exclusively developed from recycled pressed wood fibers (HMDF) and coconut fibers, which are recycled materials.

This line of products provides a practical and efficient solution for acoustic treatment. It is composed of coconut fiber (as an energy absorbent material) and perforated panels made of pressed wood fiber (as a finishing surface). This compound, made of strictly 100% recycled materials, has an excellent technical performance. The coconut fiber 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.

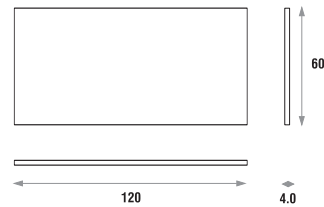
The good behavior of the recycled wood fibers, associated with the coconut fiber's micro-porous absorbent properties, makes it a natural first-class combination in terms of acoustic solutions.

The WOODFACE® is ideal for installing in auditoriums, conference rooms, sport pavilions, business spaces, restaurants and bars, etc... It can be installed with normal wood-strips or with the supplied aluminum interconnection bar.

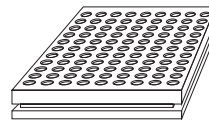
FEATURES

- Standard perforations / wood finishings.
- Uses 95% of recycled materials.
- NRC: 0.64/m².
- Fire-resistance: M2.
- Package: 10 units.
- Installation: wood or metal bars.
- Others sizes are available on demand.

TECHNICAL DRAWINGS



PERFORATION DETAILS



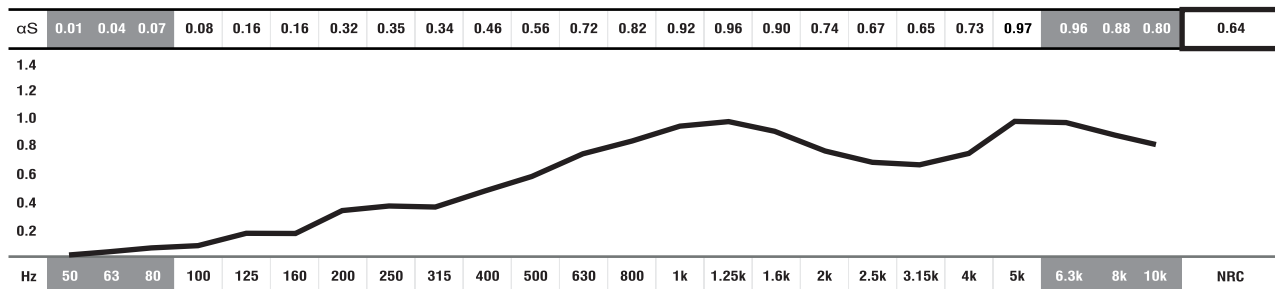
- Straight line of holes.
- 24mm: hole center distance.
- 16mm: hole diameter.
- 18mm: board thickness
- Perforation rate: 34.8%

MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
WP1624	120 cm	60 cm	4 cm	2.5 Kg

OTHER SIZES AVAILABLE UNDER CONSULTING

ABSORPTION COEFFICIENT



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STANDARD FINISHINGS AND COLOURS



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- 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.
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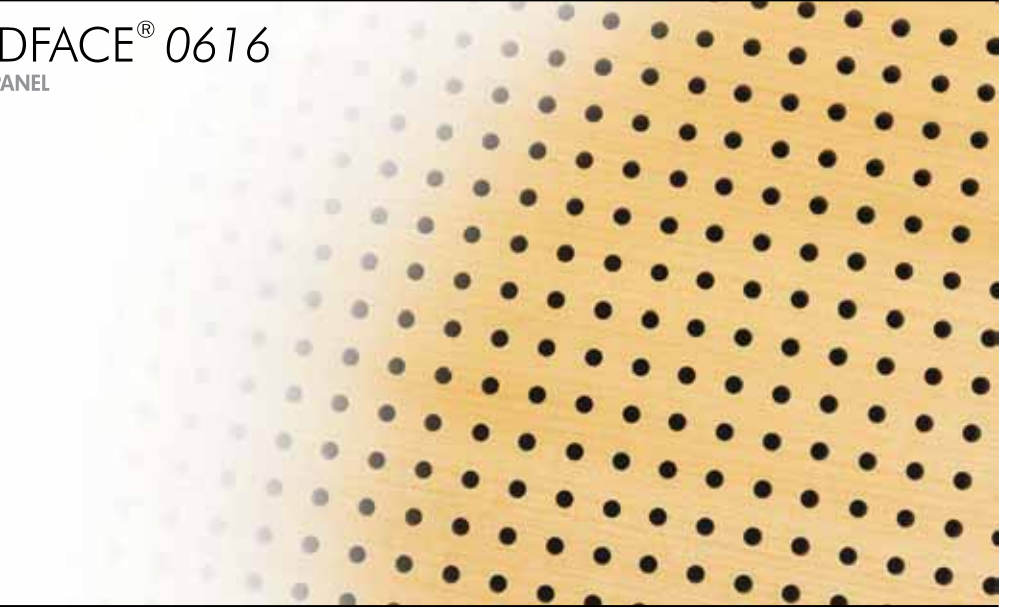


WOODFACE® 0616

ABSORBENT PANEL



WOOD



Images of 120x60cm model Ref.:WP0616.

DESCRIPTION

WOODFACE® 0616 is a wooden construction finishing material with acoustic absorbing properties. Following an ecological philosophy, this line of acoustic treatment materials was exclusively developed from recycled pressed wood fibers (HMDF) and coconut fibers, which are recycled materials.

This line of products provides a practical and efficient solution for acoustic treatment. It is composed of coconut fiber (as an energy absorbent material) and perforated panels made of pressed wood fiber (as a finishing surface). This compound, made of strictly 100% recycled materials, has an excellent technical performance. The coconut fiber 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.

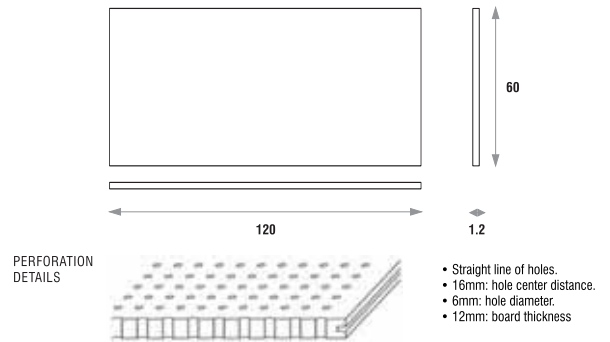
The good behavior of the recycled wood fibers, associated with the coconut fiber's microporous absorbent properties, makes it a natural first-class combination in terms of acoustic solutions.

The WOODFACE® is ideal for installing in auditoriums, conference rooms, sport pavilions, business spaces, restaurants and bars, etc... It can be installed with normal wood-stripes or with the supplied aluminum interconnection bar.

FEATURES

- Standard perforations / wood finishings.
- Uses 95% of recycled materials.
- NRC: **0.63/m²**.
- Fire-resistance: M2.
- Package: 10 units.
- Installation: wood or metal bars.
- Others sizes are available on demand.

TECHNICAL DRAWINGS

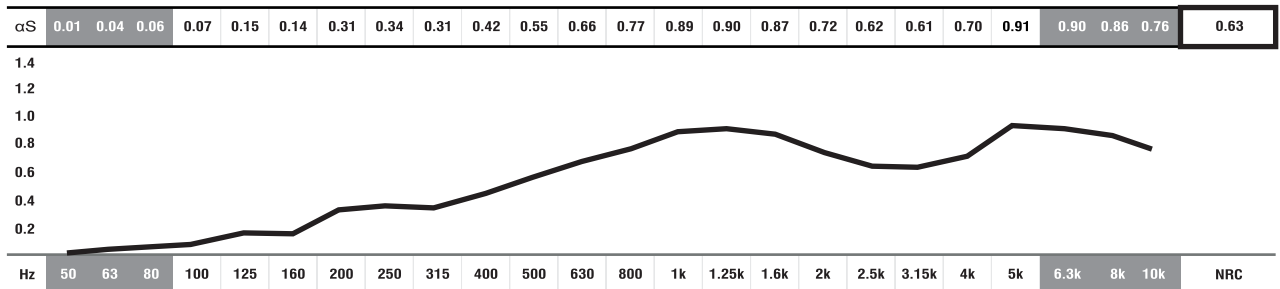


MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
WP0616	120 cm	60 cm	1.2 cm	2.5 Kg

OTHER SIZES AVAILABLE UNDER CONSULTING

ABSORPTION COEFFICIENT



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WOODWALL® ABSORBENT PANEL



WOOD



Image of two samples of model Ref. WT0428 (on the left) and applied (ambient image).

DESCRIPTION

WOODWALL® 0428 is a construction finishing material with acoustic absorbing properties. Following an ecological philosophy, JOCAVI® has developed this line of acoustic treatment materials, which are made exclusively from recycled pressed wood fibers (HMDF) and coconut fibers. The wood plate is provided separately from the coconut fiber layer and can be assembled together during the installation.

This compound is made of coconut fiber (as an energy absorbent material) and perforated panels made of pressed wood fibers, made of strictly 100% recycled materials has an excellent technical performance. The coconut fiber 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.

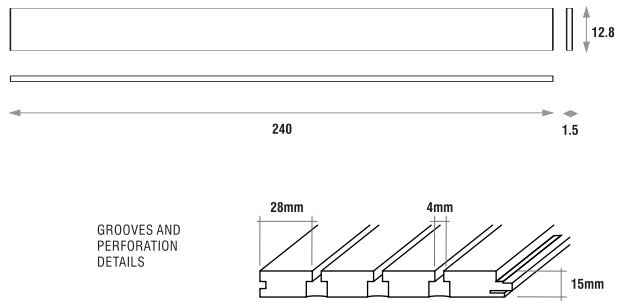
The good behavior of the recycled wood fibers, associated with the coconut fiber's microporous absorbent properties, makes it a natural first-class combination in terms of acoustic solutions.

The WOODWALL® 0428 is ideal to install in auditoriums, conference rooms, sport pavilions, business spaces, restaurants and bars, etc... It can be installed with wood or metal stripes.

FEATURES

- Standard perforations / wood finishings.
- Uses 95% of recycled materials.
- NRC: **0.62/m²**.
- Fire-resistance: M2.
- Package: 10 units.
- Installation: wood or metal bars.
- Others sizes are available on demand.

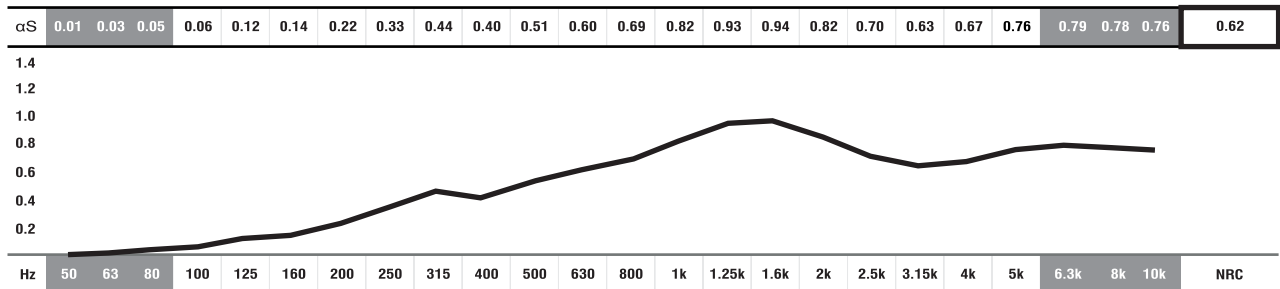
TECHNICAL DRAWINGS



MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
WT0428	240 cm	12.8 cm	1.5 cm	3.0 Kg

ABSORPTION COEFFICIENT



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FLOATSHEET® INS

SOUND INSULATION LAYER



FLOATSHEET® INS ROLL



FLOATSHEET® INS PLATE

Image of FLOATSHEET® INS ROLL, Ref.:FINr010 (on the left) and PLATE, Ref.:FINp010 (on the right).

FEATURES

- Noise and sound Insulation layer.
- Good fire resistance, elasticity, flexibility and tensile strength.
- Great performance/cost.
- Installation: with nails or adhesive glue.
- Supplied in rolls or plates, with or without adhesive.
- Suitable for walls, ceilings and floors.

SIZES AND SPECIFICATIONS

MODELS	LENGTH	WIDTH	DEPTH	WEIGHT
FINr010	500 cm	100 cm	1 cm	3.3 Kg
FINp010	200 cm	100 cm	1 cm	1.3 Kg

DESCRIPTION

The Floatsheet® INSulation is made of polyurethane and it is a great material to be used as an insulation layer. The application of Floatsheet® INSulation meets the active sound insulation. It is suitable for use on the sound insulation composite constructions in studios, cabins, residences, hotels, clubs, nightclubs, as well as for industrial and traffic equipment.

Floatsheet® INSulation can effectively absorb and obstruct the noise transmitted through the walls, ceilings and floor structures by utilizing the mass law and damping principle of the architectural acoustic materials.

This thin and high quality material can provide obvious noise control and vibration absorption resulting in a highest cost/performance. It has good fire resistance, heat resistance, elasticity, flexibility and tensile strength. It can be cut with the wallpaper cutter and be fixed with nails or adhesive. This material is supplied in two options: rolls or plates.



FLOATSHEET® VIB

VIBRATION DAMPING AND SOUND INSULATION LAYER



FLOATSHEET® VIB AD



FLOATSHEET® VIB

Image of FLOATSHEET® VIB, Ref.:FVI003AD (with adhesive on the left), and FLOATSHEET® VIB, Ref.:FVI003 (on the right).

FEATURES

- Anti-vibration and noise control layer with great mass.
- Good fire resistance, elasticity, flexibility and tensile strength.
- Great performance/cost.
- Installation: with nails or adhesive glue.
- Supplied in rolls with or without adhesive.
- Suitable for walls, ceilings and floors.

SIZES AND SPECIFICATIONS

MODELS	LENGTH	WIDTH	DEPTH	WEIGHT
FVI003AD	500 cm	100 cm	0.3 cm	5.6 Kg
FVI003	500 cm	100 cm	0.3 cm	5.6 Kg

DESCRIPTION

Floatsheet® VIBration, is a composed material made of a mixture of tar and rubber. It is a great product to be used as an anti-vibration layer, suitable to be applied on the sound insulation composite construction in residences, hotels, clubs, nightclubs, recording studios, as well as for sound insulation and noise reduction of the industrial traffic equipment. This thin and high quality material provides obvious noise control and vibration absorption results in a highest cost/performance.

Floatsheet® VIBration can effectively absorb and obstruct the noise transmitted through the walls, ceilings and floor structures by utilizing the mass law and damping principle of the architectural acoustic materials.

This product has good fire resistance, heat resistance, elasticity, flexibility and tensile strength. It can be cut with the wallpaper cutter and be fixed with nails or adhesive. This material is supplied in roll in two options: with or without adhesive.

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GROUTPAINT®

SOUND INSULATION PAINT DAMPING



Image of Groundpaint, Ref.:GRDP.

FEATURES

- Application: by spraying, brush or roll. To adjust the viscosity we suggest added 0,3% to 0,5% water per kilogram.
- Coverage ratio (wet): 1,5 kg/m² to a 1 mm thickness layer.
- Maximum thickness per layer: 3mm per layer.
- Excellent adhesive ability to aluminum and other metals. Rigid resistant finish surface.
- The product follows IMO A653 standard and CE certification (MED B) and reaches the quality requirements of BS476.6 and BS476.7.
- Water-based and easy to use and clean.
- Suitable for indoor or outdoor applications.

SPECIFICATIONS

MODELS	WEIGHT PER UNIT (kg)	COVERAGE RATIO (kg/m ²)
GRDP	20 Kg	1,5 Kg/m ² to 1mm layer

DESCRIPTION

GROUTPAINT® is a water-based adhesive and elastic vibration paint. Different from the conventional damping materials, GROUTPAINT® is a low-density product, which has a high damping performance on the premise of his low weight.

This product can be applied in almost every surfaces in 3 different ways; by spraying, using an air-free or an air spraying system gun, with a brush, using a nylon brush with 100 mm thickness, or with a roller, using a mid size roller with small relief.

The product is a key choice for environments with strict additional weight requirements, such as steel structure building roofs, airplanes, yachts, vehicles and trains, etc., provides quick drying performance, usability, environment-protection, performance and fire resistance.

The product effectively reduces the resonance effect and the transmission loss is increased, obviously controls the resonant frequency of the raw base material, caused by micro vibrations and improves the noise reduction rate.



SHOCK AB WALL® / CEILING®

WALL AND CEILING VIBRATION ABSORBERS

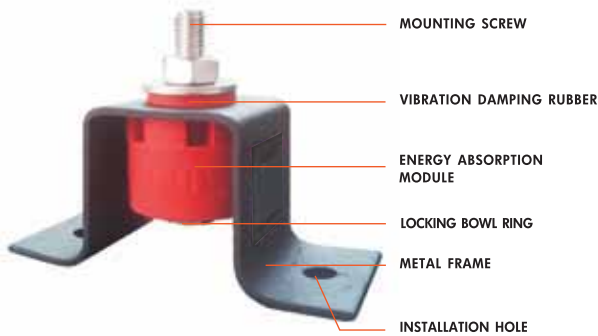


Image of SHOCK AB WALL®, Ref.:SHAW, and of SHOCK AB CEILING®, Ref.:SHAC.

FEATURES

- Dramatically improves the performance of your soundproofing layer.
- Minimise physical and structure sound transmission.
- Operating range of 40Kg to 80Kg per piece.
- Application: using screws.
- Can be applied in standard steel chains used in the construction with plasterboard.
- Lifetime warranty.
- Packaging: 20 pieces.

MODELS AND SPECIFICATIONS

MODELS	MAXIMUM LOAD CAPACITY RANGE (unit)	PACKAGE (units)
SHAC	40 Kg to 80 Kg	20 pcs
SHAW	40 Kg to 80 Kg	20 pcs

DESCRIPTION

SHOCK AB® is a wall and ceiling vibration absorber, a composite piece consisting of a molded metal frame and a damping rubber component, which allows to support the weight of the wall or ceiling, thereby minimizing physical contact to the support structure and forming the sound insulation layer between the sound wave irradiation and the original base surface, wall or ceiling.

The SHOCK AB® is provided in two models; one for the ceiling and one for the wall.

SHOCK AB® Ceiling is an effective way to cut off the structure-borne sound transmission of the suspended ceiling and the original building base.

SHOCK AB® Wall is suitable for installing and fixing the wall reinforced sound insulation layer structure.

The quantity of pieces to be used on each application depends on the weight of the insulation layer that will be applied, so it is recommended make the calculation, bearing in mind that it is considered an operating range of 40kg to 80kg per piece (fixation point).

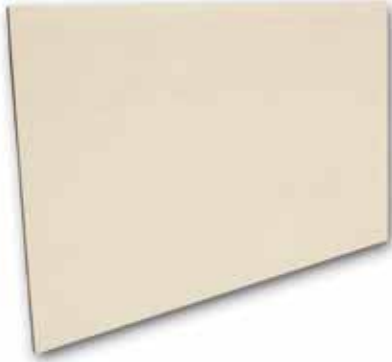
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STILLNESS I[®]

SOUNDPROOFING PLATES



SOUNDPROOFING ENHANCEMENT
BETWEEN 12 AND 14 dB.

Image of STILLNESS I, Ref.:STLLI, Soundproofing Plates of two layers.

FEATURES

- Depending on the constitution of the base of the wall or ceiling, this material can enhance the sound insulation between **12 and 14 dB**.
- Installation: with screws or contact glue.
- Fire-resistance: **Bs1**.
- Environmentally friendly material. High-density board surface, paintable.
- Reduces sound transmission loss property.
- Suitability of a large-area of construction and use.
- Total thickness: **23mm**.

SIZES AND SPECIFICATIONS

MODELS	LENGTH	WIDTH	DEPTH	WEIGHT
STLL I	2000mm	1200 mm	23 mm	18.4 Kg

DESCRIPTION

STILLNESS[®] I is a damping system and sound insulation board composed of anti-vibration and massive elements. We select inorganic materials with different densities and thicknesses to form a composite layer with the best properties of sound insulation and vibration damping in order to effectively insulate the medium-low and low frequencies of the sound transmission. The layers of each compound model are sandwiched and adhere under high pressure. These composite vibration damping and sound insulation board are much more practical than the traditional layer-by-layer construction and provides an effective sound reduction rate of walls and ceilings in all types of applications, from the music business to the industrial markets. This multi-layer structure is portable and simple to install by using screws or contact glue and it is easy to cut to adjust to the room dimensions.

STILLNESS[®] I is composed by:
- 1 layer of (10mm Polyurethane) and 1 layer of (13mm Plasterboard),.



STILLNESS II[®]

SOUNDPROOFING PLATES



SOUNDPROOFING ENHANCEMENT
BETWEEN 14 AND 18 dB.

Image of STILLNESS II, Ref.:STLLII, Soundproofing Plates of three layers.

FEATURES

- Depending on the constitution of the base of the wall or ceiling, this material can enhance the sound insulation between **14 and 18 dB**.
- Installation: with screws or contact glue.
- Fire-resistance: **Bs1**.
- Environmentally friendly material. High-density board surface, paintable.
- Reduces sound transmission loss property.
- Suitability of a large-area of construction and use.
- Total thickness: **36mm**.

SIZES AND SPECIFICATIONS

MODELS	LENGTH	WIDTH	DEPTH	WEIGHT
STLL II	2000mm	1200 mm	36 mm	35.8 Kg

DESCRIPTION

STILLNESS[®] II is a damping system and sound insulation board composed of anti-vibration and massive elements. We select inorganic materials with different densities and thicknesses to form a composite layer with the best properties of sound insulation and vibration damping in order to effectively insulate the medium-low and low frequencies of the sound transmission. The layers of each compound model are sandwiched and adhere under high pressure. These composite vibration damping and sound insulation board are much more practical than the traditional layer-by-layer construction and provides an effective sound reduction rate of walls and ceilings in all types of applications, from the music business to the industrial markets. This multi-layer structure is portable and simple to install by using screws or contact glue and it is easy to cut to adjust to the room dimensions.

STILLNESS[®] II is composed by:
- 1 layer of (13mm Plasterboard), 1 layer of (10mm Polyurethane), and 1 layer of (13mm Plasterboard).

IMPORTANT NOTICES

- JOCAVI[®] 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. Sizes may vary slightly due to their production method and some inherent raw-materials characteristics.



STILLNESS III[®]

SOUNDPROOFING PLATES



Image of STILLNESS III, Ref.:STLLIII, Soundproofing Plates of four layers.

FEATURES

- Depending on the constitution of the base of the wall or ceiling, this material can enhance the sound insulation between **18 and 21 dB**.
- Installation: with screws or contact glue.
- Fire-resistance: **Bs1**.
- Environmentally friendly material. High-density board surface, paintable.
- Reduces sound transmission loss property.
- Suitability of a large-area of construction and use.
- Total thickness: **33mm**.

SIZES AND SPECIFICATIONS

MODELS	LENGTH	WIDTH	DEPTH	WEIGHT
STLL III	2000mm	1200 mm	33 mm	53.5 Kg

DESCRIPTION

STILLNESS[®] III is a damping system and sound insulation board composed of anti-vibration and massive elements. We select inorganic materials with different densities and thicknesses to form a composite layer with the best properties of sound insulation and vibration damping in order to effectively insulate the medium-low and low frequencies of the sound transmission. The layers of each compound model are sandwiched and adhere under high pressure. These composite vibration damping and sound insulation board are much more practical than the traditional layer-by-layer construction and provides an effective sound reduction rate of walls and ceilings in all types of applications, from the music business to the industrial markets. This multi-layer structure is portable and simple to install by using screws or contact glue and it is easy to cut to adjust to the room dimensions.

STILLNESS[®] III is composed by:
 - 1 layer of (10mm Polyurethane), 1 layer of (13mm Plasterboard), 1 layer of (2mm Floatsheet[®] VIB) and 1 layer of (8mm Viroc).



STILLNESS IV[®]

SOUNDPROOFING PLATES



Image of STILLNESS IV, Ref.:STLLIV, Soundproofing Plates of five layers.

FEATURES

- Depending on the constitution of the base of the wall or ceiling, this material can enhance the sound insulation between **21 and 24 dB**.
- Installation: with screws or contact glue.
- Fire-resistance: **Bs1**.
- Environmentally friendly material. High-density board surface, paintable.
- Reduces sound transmission loss property.
- Suitability of a large-area of construction and use.
- Total thickness: **46mm**.

SIZES AND SPECIFICATIONS

MODELS	LENGTH	WIDTH	DEPTH	WEIGHT
STLL IV	2000mm	1200 mm	46 mm	70.7 Kg

DESCRIPTION

STILLNESS[®] IV is a damping system and sound insulation board composed of anti-vibration and massive elements. We select inorganic materials with different densities and thicknesses to form a composite layer with the best properties of sound insulation and vibration damping in order to effectively insulate the medium-low and low frequencies of the sound transmission. The layers of each compound model are sandwiched and adhere under high pressure. These composite vibration damping and sound insulation board are much more practical than the traditional layer-by-layer construction and provides an effective sound reduction rate of walls and ceilings in all types of applications, from the music business to the industrial markets. This multi-layer structure is portable and simple to install by using screws or contact glue and it is easy to cut to adjust to the room dimensions.

STILLNESS[®] IV is composed by:
 - 1 layer of (13mm Plasterboard), 1 layer of (10mm Polyurethane), 1 layer of (13mm Plasterboard), 1 layer (2mm of Floatsheet[®] VIB) and 1 layer of (8mm Viroc).

IMPORTANT NOTICES

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- Colours may vary due to raw-material suppliers' changes and some differences may occur in tonal range. Sizes may vary slightly due to their production method and some inherent raw-materials characteristics.

MOTIF[®] Printed Image Finishing

Motif[®] is a finishing for digital printing on fabric or wood.

Challenge your imagination and choose the finishing you want for your space without any limitation.
We print any image on wood or fabric for our panels, just choose from our gallery or send us your image.

Available on all JOCAVI[®] models with a finishing in wood or fabric:

Addsorb[®], LeakyFM[®], Mellowalltrap[®], Lightwalltrap[®], Convexabsorber[®], Ebony[®], Basscorner[®], Roundbasscorner[®], Walltrap[®], Basslayer[®],
Tubabsorber[®] and Tubabsorber[®]SY, Mellowaffle[®].

All these models may have the image you want as a finishing, as an alternative to the usual colours and textures.

motif®

PRINTED IMAGE FINISHING



ENHANCE YOUR COMFORT, DECORATE ACOUSTICALLY

MAIN INFO

Motif® is a finishing for digital printing on fabric or wood. Challenge your imagination and choose the finishing you want for your space without any limitation.

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Available on all JOCAVI® models with a finishing in wood or fabric:

Addsorb®, LeakyFM®, Mellowalltrap®, Lightwalltrap®, Convexabsorber®, Ebony®, Basscorner®, Roundbasscorner®, Walltrap®, Basslayer®, Tubabsorber® and Tubabsorber®SY, Mellowaffle®.

All these models may have the image you want as a finishing, as an alternative to the usual colours and textures.

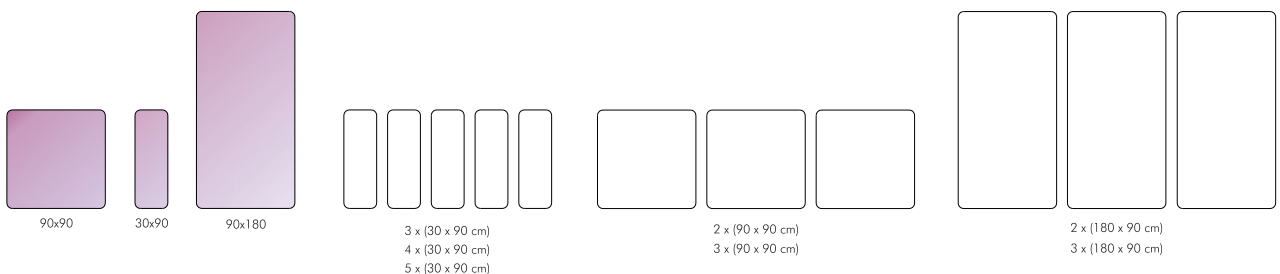
FEATURES

- Printed on fabric or wood.
- Acoustically transparent textile and/or perforated wood.
- Same acoustic performance as the original models.
- Exclusive customized images guaranteed by our One of a Kind department.
- Fire security requirements (B1) for public use (fabric finishing).
- High-quality print, using CMYK colour system and resolution up to 1080 dpi.
- Custom-made by size and images.
- Large-scale seamless images.

EXAMPLES OF MODELS SIZES AND COMBINATIONS

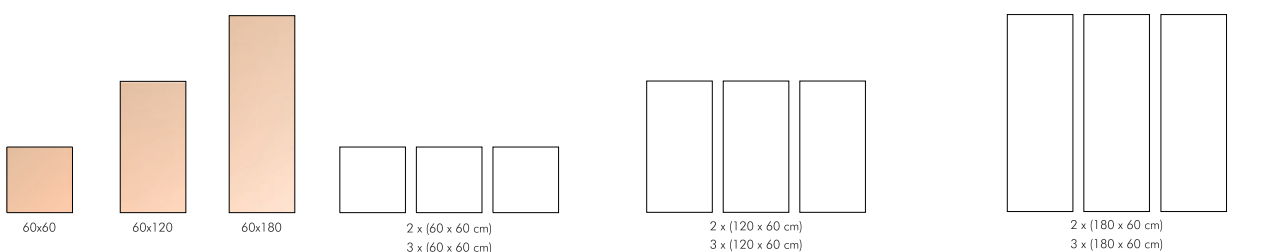
LIGHTWALLTRAP®

STANDARD SIZES OTHER SIZES AND COMBINATIONS AVAILABLE UNDER REQUEST



MELLOWALLTRAP® ADDSORB® LEAKY FM®

STANDARD SIZES OTHER SIZES AND COMBINATIONS AVAILABLE UNDER REQUEST



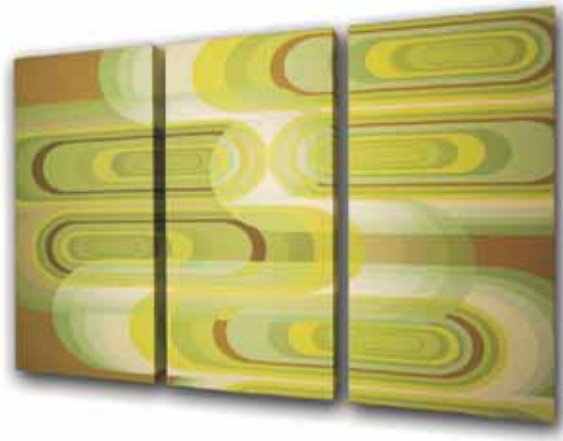
MOTIF®

PRINTED IMAGE FINISHING



ON WOOD

3x Addisorb®
120x60cm



3x Mellowalltrap®
120x60cm

ON FABRIC

Motif® is a new image printed finishing meant to widen the decorating options on acoustic panels. It can be used on the Addisorb® and LeakyFM® wood-finishing models, while keeping the same acoustic performance as the original models.

Besides the 6 standard wood veneer finishings and the 10 standard coloured wood fibre JOCAVI® colours, Motif® image printed finishing line provides an option for those who want a more personalised solution. The Motif® image printed finishing line offers a sophisticated look with our acoustically perforated woods, which are available in a multitude of design options that perfectly match decor of your space.

Motif® is a new printed textile finishing meant to widen the decorating options on acoustic panels. It can be used on the Mellowalltrap® and Lightwalltrap® fabric-finishing models, while keeping the same acoustic performance as the original models.

Besides the 15 standard JOCAVI® colours, Motif® provides an option for those who want a more personalised solution. The Motif® printed textile finishing line offers a sophisticated look with our acoustically transparent fabric, which is available in a multitude of design options that perfectly match decor of your space.

ONE OF A KIND

Motif® offers a new possibility to use acoustic elements in a unique customised interior design. Sound control solutions need to meet greater acoustic demands while maintaining an aesthetic appeal.

Acoustic Panels help control the excessive reverberation and echoes caused by the hard surfaces of construction materials. The strategic placement of acoustic panels on walls and ceilings helps absorb unwanted sound energy and causes a reduction of acoustic defects. Thus, you can hear your music and movies as they were meant to be heard.



SEND US YOUR IMAGE
(photography or vector)

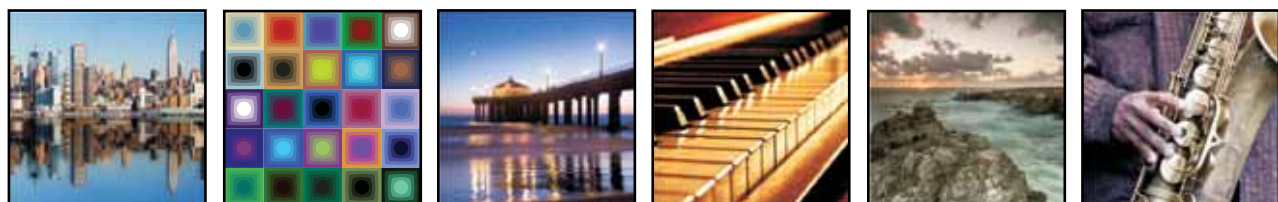
MOTIF® images can be obtained by printing them from our image data bank or by using our design services for individual designs or customers' own images, texts and symbols.

A precise evaluation of the customers' files resolution will be confirmed before printing. The **One of a Kind** department guarantees the quality and exclusivity of your file printing, which will be used only once and only for you.

Different colours and patterns can be used for printing. The quality of our textiles used with the pictures fulfils the fire security requirements (B1) for public use.



SOME IMAGES FROM OUR GALLERY (check online at jocavi.net)



REF: URB-01

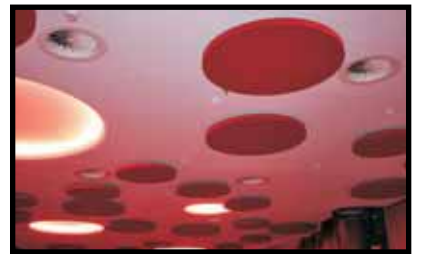
REF: ART-01

REF: LAN-01

REF: MUS-01

REF: LAN-04

REF: MUS-02







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