



## **Supreme Silence | Easy Assembly**

Soundproofing materials for professional building construction

## Acoustics IN Construction

When considering acoustics for building construction refers to the study and management of sound within a built environment, it's essential to address various factors to create comfortable and functional spaces, whether it's for professional proposes, residential buildings, commercial establishments, or any other construction project. Here are key considerations for acoustics in construction and functional-specific requirements:

### Sound Insulation:

*Purpose:* To prevent the transmission of sound between different spaces, both within the building and from external sources.

*Implementation:* Use insulation materials in walls, floors, and ceilings. Use Soundproofing windows and doors. Ensure proper sealing of gaps and joints to minimize airborne and impact sound transmission.

### Room Acoustics:

*Purpose:* To optimize the sound quality within a specific room, ensuring appropriate levels of reverberation and clarity.

*Implementation:* Incorporate acoustic panels, diffusers, and absorbers strategically on walls and ceilings. Consider the purpose of each space to tailor acoustics accordingly.

### Ceiling Systems:

*Purpose:* Ceilings play a crucial role in controlling sound reflections and reverberation within a room.

*Implementation:* Choose ceiling materials with acoustic properties, such as acoustical tiles or perforated panels. Consider suspended baffles or clouds to control sound distribution.

### Flooring Solutions:

*Purpose:* Controlling flooring materials' footsteps and airborne's sound impact.

*Implementation:* Use carpets, rugs, or resilient flooring with acoustic underlay to absorb impact noise. Consider the type of flooring based on the specific needs of each area.

### Wall Construction:

*Purpose:* Walls contribute significantly to sound insulation and can affect both airborne and impact noise.

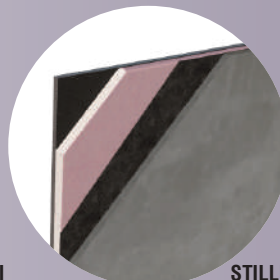
*Implementation:* Use materials with high mass and good damping properties. Consider double-stud walls, staggered studs, or resilient channels to enhance sound insulation.



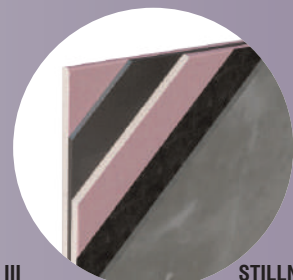
STILLNESS I



STILLNESS II



STILLNESS III



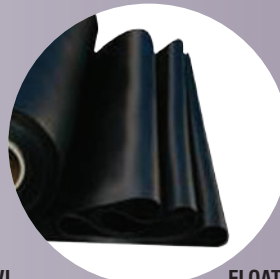
STILLNESS IV



STILLNESS V



STILLNESS VI



FLOATSHEET VIB



ACOUSTIC CURTAIN



## Doors and Windows:

*Purpose:* Doors and windows are potential weak points for sound transmission and should be addressed for both insulation and absorption.

*Implementation:* Install doors with solid cores and weather stripping. Use an acoustic laminated glass composition according to what you intend to insulate, to reduce external noise.

## HAVAC Systems:

*Purpose:* Heating, Ventilation, and Air Conditioning systems can contribute to both desired and undesired noise levels.

*Implementation:* Choose HVAC systems with low noise ratings. Install duct liners and vibration isolators to minimize airborne and mechanical noise transmission.

## Building Layout and Design:

*Purpose:* The overall design and layout of the building can impact how sound travels and is perceived.

*Implementation:* Plan the placement of rooms, corridors, and common areas strategically. Consider the function of each space and its potential impact on overall building acoustics.

## Code Compliance:

*Purpose:* Building codes often include regulations related to acoustics to ensure a minimum standard of comfort and safety.

*Implementation:* Familiarize yourself with local building codes and standards related to acoustics. Ensure that your construction meets or exceeds the specified requirements.

By addressing these acoustical considerations during the building construction process, you can create spaces that are not only structurally sound but also provide a comfortable and acoustically pleasing environment for occupants.

Don't hesitate – contact us today, and let our expertise guide you to a successful integration.

With our wealth of experience and tailored products, we ensure a smooth amalgamation of your requirements.

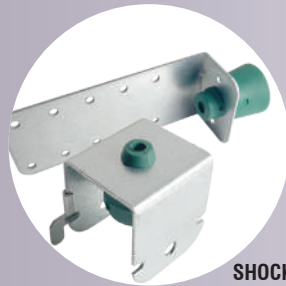
Whether it's technological (architect, engineer, or designer), logistical (supplier or retailer), or strategic (builder end consumer), our team is adept at finding ideal solutions for you.



ECOISO SYSTEM



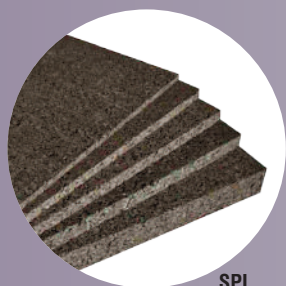
QUADCORK



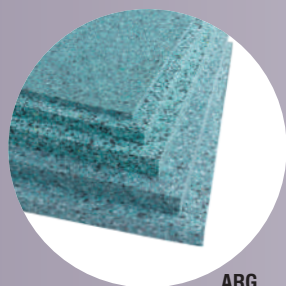
SHOCK AB



DOORS & WINDOWS



SPL



ARG



NCF



GROUTPAINT



# STILLNESS I<sup>®</sup>

## SOUNDPROOFING PLATES



Image of STILLNESS I, Ref.:STLLI, Soundproofing Plates of two layers

### FEATURES

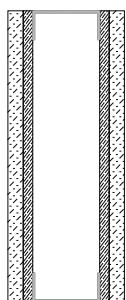
- Depending on the constitution of the base of the wall or ceiling, this material can enhance the sound insulation between **13** and **15** db.
- Reduces sound transmission loss property.
- Installation: with screws or contact glue.
- Fire-resistance: B-s1,d0 (similar to M1).
- Environmentally friendly material.
- High-density board surface, paintable.
- Suitable for usage in large construction areas.
- Total thickness: 2.6 cm (1 0/1").
- The fact that it uses layers of Type X FR Gypsumboard and cement fibre board, enables its usage in construction as a fire barrier.

### SIZES AND SPECIFICATIONS

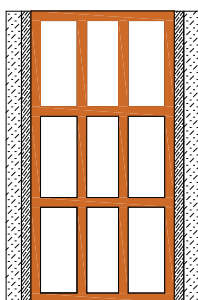
MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
STLL I	<b>244 cm</b> (8' 0 0/1")	<b>120 cm</b> (3' 11 1/4")	<b>2.6 cm</b> (1 0/1")	<b>25.96 Kg</b> (57.22 lbs)

### WALL APPLICATION

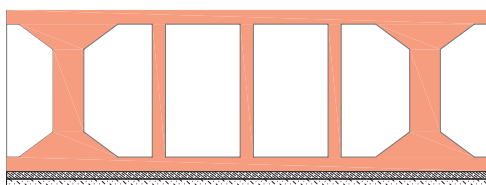
INSIDE A  
PARTITION WALL



REINFORCEMENT  
INSULATION COATING



### CEILING APPLICATION



### DESCRIPTION

STILLNESS is a damping system and sound insulation board composed of anti-vibration and massive elements. We've selected 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. STILLNESS I is composed of a dual layer system made of high quality type X FR gypsum board and our 10 mm FLOATSHEET INS, when paired they can enhance the sound insulation between 13 and 15 dB, depending on the construction of the base of the wall or ceiling. This our base and most compact model. The layers of each compound model are pressed and adhered under high pressure. These composite vibration damping and sound insulation boards 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 market. 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.

### COMPOSITION

STILLNESS® I is composed by:

- 1 layer of (10mm | 2/5") Polyurethane - Floatsheet® INS,
- 1 layer of (16mm | 5/8") Type X FR Gypsumboard,

### DIMENSIONS

cm		inch	
1,6	2,6	5/8"	1 0/1"
1,0		2/5"	

### COMPOSITION



----- GYPSUMBOARD  
----- FLOATSHEET INS

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# STILLNESS II<sup>®</sup>

## SOUNDPROOFING PLATES



SOUNDPROOFING ENHANCEMENT  
BETWEEN 15 AND 18 dB.



Image of STILLNESS II, Ref.:STLLII, Soundproofing Plates of three layers

### FEATURES

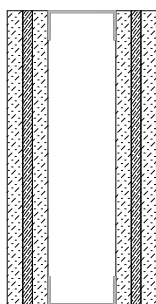
- Depending on the constitution of the base of the wall or ceiling, this material can enhance the sound insulation between **15** and **18** db.
- Reduces sound transmission loss property.
- Installation: with screws or contact glue.
- Fire-resistance: B-s1,d0 (similar to M1).
- Environmentally friendly material.
- High-density board surface, paintable.
- Suitable for usage in large construction areas.
- Total thickness: 4,2 cm (1 2/3").
- The fact that it uses layers of Type X FR Gypsumboard and cement fibre board, enables its usage in construction as a fire barrier.

### SIZES AND SPECIFICATIONS

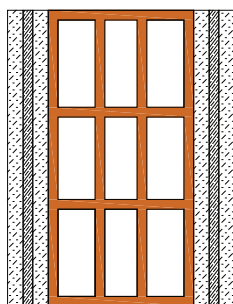
MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
STLLII	<b>244 cm</b> (8' 0 0/1")	<b>120 cm</b> (3' 11 1/4")	<b>4.2 cm</b> (1 2/3")	<b>54.6 Kg</b> (120.36 lbs)

### WALL APPLICATION

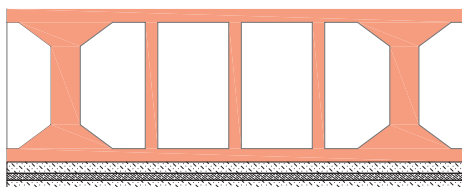
INSIDE A  
PARTITION WALL



REINFORCEMENT  
INSULATION COATING



### CEILING APPLICATION



### DESCRIPTION

STILLNESS is a damping system and sound insulation board composed of anti-vibration and massive elements. We've selected 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. STILLNESS II is composed of a triple layer system built off the STLL I. Using our 10 mm FLOATSHEET INS sandwiched in between two sheets of high quality type X FR gypsum board, when combined they can enhance the sound insulation between 15 and 18 dB, depending on the construction of the base of the wall or ceiling. This model steps up and is both sturdy while still compact. The layers of each compound model are sandwiched and adhere under high pressure. These composite vibration damping and sound insulation boards 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 market.

### COMPOSITION

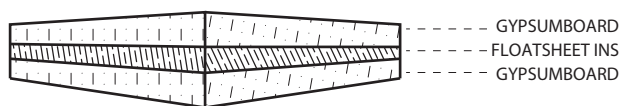
STILLNESS® II is composed by:

- 1 layer of (16mm | 5/8") Type X FR Gypsumboard,
- 1 layer of (10mm | 2/5") Polyurethane - Floatsheet® INS,
- 1 layer of (16mm | 5/8") Type X FR Gypsumboard,

### DIMENSIONS

	cm	inch
	1,6	5/8"
	1,0	2/5"
	1,6	5/8"
	4,2	1 2/3"

### COMPOSITION



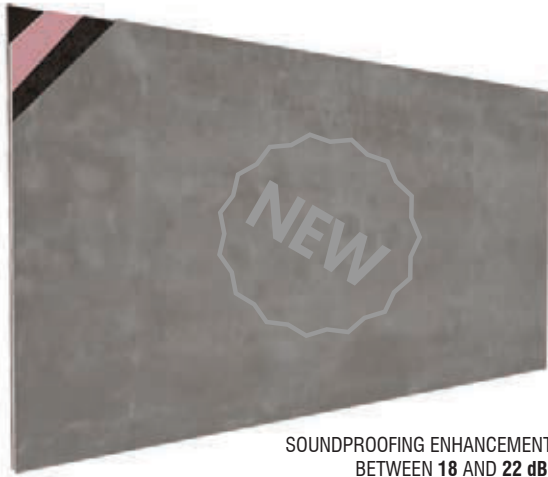
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# STILLNESS III®

## SOUNDPROOFING PLATES



SOUNDPROOFING ENHANCEMENT  
BETWEEN 18 AND 22 dB.



Image of STILLNESS III, Ref.:STLLIII, Soundproofing Plates of four layers

### FEATURES

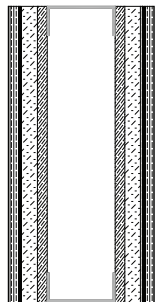
- Depending on the constitution of the base of the wall or ceiling, this material can enhance the sound insulation between **18** and **22** db.
- Reduces sound transmission loss property.
- Installation: with screws or contact glue.
- Fire-resistance: B-s1,d0 (similar to M1).
- Environmentally friendly material.
- High-density board surface, paintable.
- Suitable for usage in large construction areas.
- Total thickness: 4,0 cm (1 4/7").
- The fact that it uses layers of Type X FR Gypsumboard and cement fibre board, enables its usage in construction as a fire barrier.

### SIZES AND SPECIFICATIONS

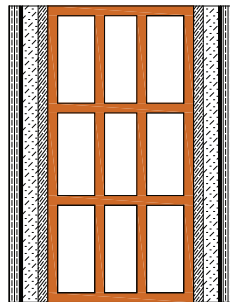
MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
STLLIII	244 cm (8' 0 0/1")	120 cm (3' 11 1/4")	4.0cm (1 4/7")	81.12 Kg (178.83 lbs)

### WALL APPLICATION

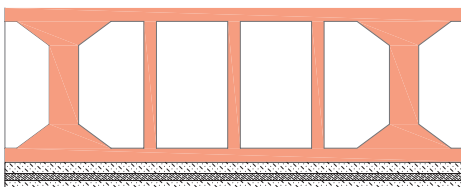
INSIDE A  
PARTITION WALL



REINFORCEMENT  
INSULATION COATING



### CEILING APPLICATION



### DESCRIPTION

STILLNESS is a damping system and sound insulation board composed of anti-vibration and massive elements. We've selected 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. STILLNESS III is composed of a quad layer system made with our 10 mm FLOATSHEET INS, followed by high quality type X FR gypsum board, our 2 mm FLOATSHEET VIB and finished off with cement fiber board, when combined they can enhance the sound insulation between 18 and 22 dB, depending on the construction of the base of the wall or ceiling. This model has the third highest db reduction and is only 4 cm thick. The layers of each compound model are pressed and adhered under high pressure. These composite vibration damping and sound insulation boards 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 market.

### COMPOSITION

STILLNESS® III is composed by:

- 1 layer of (10mm | 2/5") Polyurethane - Floatsheet® INS,
- 1 layer of (16mm | 5/8") Type X FR Gypsumboard,
- 1 layer of (2mm | 0/1") Floatsheet® VIB and
- 1 layer of (12mm | 1/2") cement fibre board.

### DIMENSIONS

	cm	inch
1,0	2/5"	
1,6	5/8"	
1,2	0/1"	
	1/2"	
	4,0	1 4/7"

### COMPOSITION



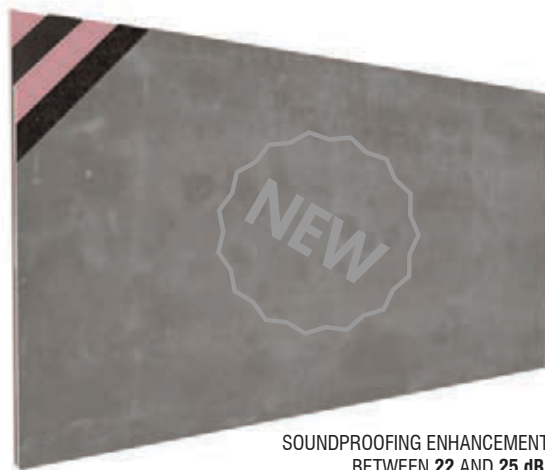
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# STILLNESS IV<sup>®</sup>

## SOUNDPROOFING PLATES



SOUNDPROOFING ENHANCEMENT  
BETWEEN 22 AND 25 dB.



Image of STILLNESS IV, Ref.:STLLIV, Soundproofing Plates of five layers.

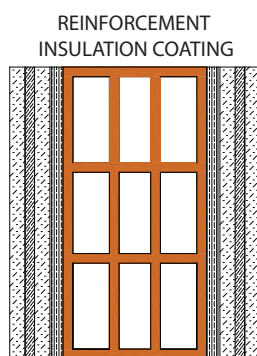
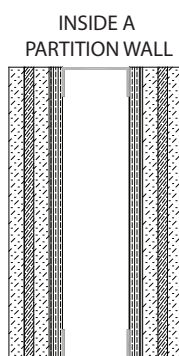
### FEATURES

- Depending on the constitution of the base of the wall or ceiling, this material can enhance the sound insulation between **22** and **25** db.
- Reduces sound transmission loss property.
- Installation: with screws or contact glue.
- Fire-resistance: B-s1,d0 (similar to M1).
- Environmentally friendly material.
- High-density board surface, paintable.
- Suitable for usage in large areas of construction.
- Total thickness: 5,6 cm (2 1/5").
- The fact that it uses layers of Type X FR Gypsumboard and cement fibre board, enables its usage in construction as a fire barrier.

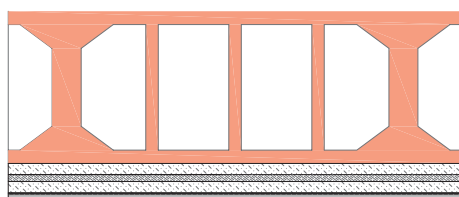
### SIZES AND SPECIFICATIONS

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
STLL IV	244 cm (8' 0 0/1")	120 cm (3' 11 1/4")	5.6cm (2 1/5")	109,02 Kg (240.35 lbs)

### WALL APPLICATION



### CEILING APPLICATION



### DESCRIPTION

STILLNESS is a damping system and sound insulation board composed of anti-vibration and massive elements. We've selected 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. STILLNESS IV is composed of a 5 layer system built off the STLL III. Adding a top layer of high quality type X FR gypsum board, followed by our 10 mm FLOATSHEET INS, high quality type X FR gypsum board, our 2 mm FLOATSHEET VIB and finished off with cement fiber board, this combination can enhance the sound insulation between 22 and 25 dB, depending on the construction of the base of the wall or ceiling. This model has the second highest db reduction and is only 5.6 cm thick. The layers of each compound model are pressed and adhered under high pressure. These composite vibration damping and sound insulation boards 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 market.

### COMPOSITION

STILLNESS® IV is composed by:

- 1 layer of (16mm | 5/8") Type X FR Gypsumboard,
- 1 layer of (10mm | 2/5") Polyurethane - Floatsheet® INS,
- 1 layer of (16mm | 5/8") Type X FR Gypsumboard,
- 1 layer of (2mm | 0/1") Floatsheet® VIB and
- 1 layer of (12mm | 1/2") cement fibre board.

### DIMENSIONS

	cm	inch
	1,6	5/8"
	1,0	2/5"
	1,6	5/8"
	0,2	0/1"
	1,2	1/2"
	5,6	2 1/5"

### COMPOSITION



GYPSUMBOARD  
FLOATSHEET INS  
GYPSUMBOARD  
FLOATSHEET VIB  
CEMENT FIBER

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# STILLNESS V<sup>®</sup>

## SOUNDPROOFING PLATES



SOUNDPROOFING ENHANCEMENT  
BETWEEN 16 AND 20 dB.



Image of STILLNESS V, Ref.:STLLV, Soundproofing Plates of three layers.

### FEATURES

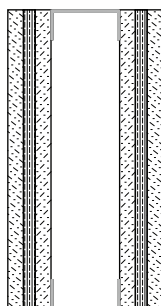
- Depending on the constitution of the base of the wall or ceiling, this material can enhance the sound insulation between **16** and **20** db.
- Reduces sound transmission loss property.
- Installation: with screws or contact glue.
- Fire-resistance: B-s1,d0 (similar to M1).
- Environmentally friendly material.
- High-density board surface, paintable.
- Suitable for usage in large areas of construction.
- Total thickness: 4,4 cm (1 3/4").
- The fact that it uses layers of Type X FR Gypsumboard and cement fibre board, enables its usage in construction as a fire barrier.

### SIZES AND SPECIFICATIONS

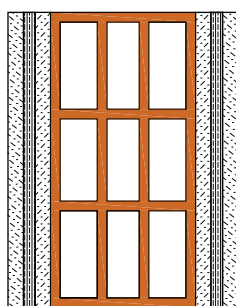
MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
STLLV	244 cm (8' 0 0/1")	120 cm (3' 11 1/4")	4.4cm (1 3/4")	92.80 Kg (240.35 lbs)

### WALL APPLICATION

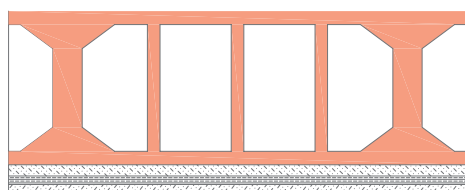
INSIDE A  
PARTITION WALL



REINFORCEMENT  
INSULATION COATING



### CEILING APPLICATION



### DESCRIPTION

STILLNESS is a damping system and sound insulation board composed of anti-vibration and massive elements. We've selected inorganic and organic 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. STILLNESS V is composed of a triple layer system made with high quality type X FR gypsum board, cement fiber board, high quality type X FR gypsum board and finished off with your choice of anti-vibratic material. This particular model was designed to be custom tailored to meet a wide range of db reduction, alone the tree layers can enhance the sound insulation from 16 to 20 db and when combining our \*ARG or \*\*ECOiso board they can enhance the sound insulation up to 74 dB, depending on the construction of the base of the wall or ceiling. The layers of each compound model are pressed and adhered under high pressure. These composite vibration damping and sound insulation boards 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 market.

### COMPOSITION

STILLNESS® V is composed by:

- 1 layer of (16mm | 5/8") Type X FR Gypsumboard,
- 1 layer of (12mm | 1/2") cement fibre board.
- 1 layer of (16mm | 5/8") Type X FR Gypsumboard,

### DIMENSIONS

	cm	inch	
	1,6	5/8"	
	1,2	1/2"	4,4
	1,6	5/8"	
			1 3/4"

### COMPOSITION



----- GYPSUMBOARD  
----- CEMENT FIBER  
----- GYPSUMBOARD

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# STILLNESS VI<sup>®</sup>

## SOUNDPROOFING PLATES



SOUNDPROOFING ENHANCEMENT  
BETWEEN 25 AND 28 dB.



Image of STILLNESS VI. Ref.:STLLVI, Soundproofing Plates of three layers.

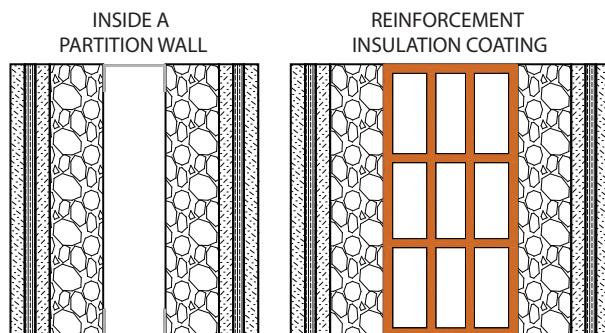
### FEATURES

- Depending on the constitution of the base of the wall or ceiling, this material can enhance the sound insulation between **25** and **28** db.
- Reduces sound transmission loss property.
- Installation: with screws or contact glue.
- Fire-resistance: B-s1,d0 (similar to M1).
- Environmentally friendly material.
- High-density board surface, paintable.
- Suitable for usage in large areas of construction.
- Total thickness: 10,4 cm (4 0/1").
- The fact that it uses layers of Type X FR Gypsumboard and cement fibre board, enables its usage in construction as a fire barrier.

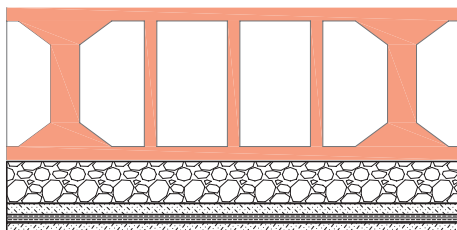
### SIZES AND SPECIFICATIONS

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
STLL VI	244 cm (8' 0 0/1")	120 cm (3' 11 1/4")	10.4cm (4 0/1")	111.38 Kg (245.55 lbs)

### WALL APPLICATION



### CEILING APPLICATION



### DESCRIPTION

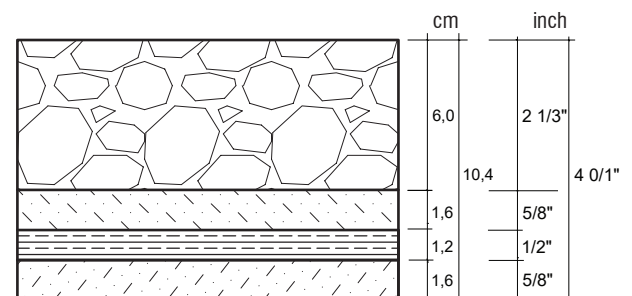
STILLNESS is a damping system and sound insulation board composed of anti-vibration and massive elements. We select inorganic materials with different densities and thicknesses to form a composite layer with the best properties of sound insulation and vibration damping in order to effectively insulate the medium-low and low frequencies of the sound transmission. STILLNESS VI is composed of a quad layer system built off the concept of our STLL V. Starting off with a top layer of high quality type X FR gypsum board, followed by cement fiber board, high quality type X FR gypsum board finished off with our 60 mm ARG, this combination can enhance the sound insulation between 25 and 28 dB, depending on the construction of the base of the wall or ceiling. This is our highest db reduction in a fixed model, making this out "best" option. The layers of each compound model are pressed and adhered under high pressure. These composite vibration damping and sound insulation boards 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 market.

### COMPOSITION

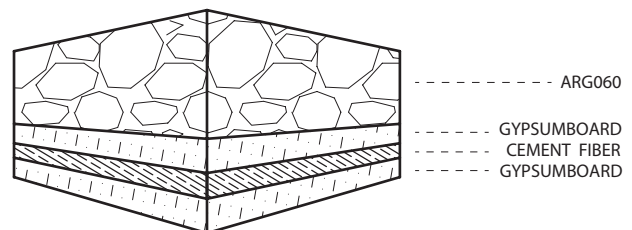
STILLNESS<sup>®</sup> VI is composed by:

- 1 layer of (16mm | 5/8") Type X FR Gypsumboard,
- 1 layer of (12mm | 1/2") cement fibre board,
- 1 layer of (16mm | 5/8") Type X FR Gypsumboard,
- 1 layer of (60mm | 2 1/3") IN<sup>®</sup> ARG060,

### DIMENSIONS



### COMPOSITION



### NOTICE

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ARG®

RECYCLED SOUND INSULATION FOAM AGGLOMERATE

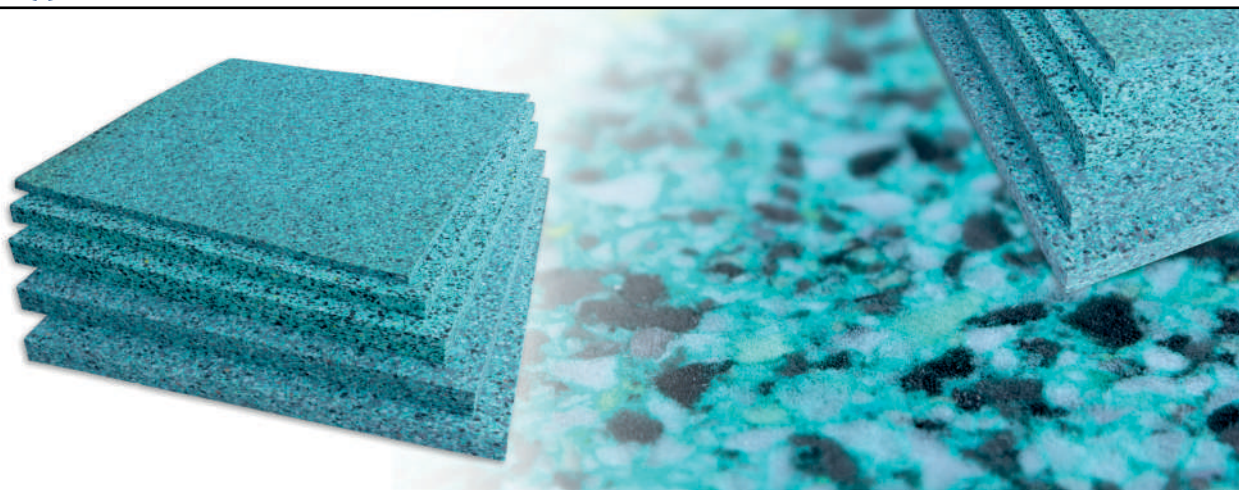


Image of ARG with different thickness, Ref.:ARG.

## FEATURES

- Self-extinguishable recycled foam agglomerate.
- Made from the agglomeration of flexible polyurethane foam of different densities.
- Good fire resistance (M1 fire-class), uniform and stable composition.
- Great performance/cost. Supplied in 1m<sup>2</sup> (10.76 ft<sup>2</sup>) plates.
- Installation: with contact glue.
- Wide range of thickness, from 2 cm to 10 cm (0.8" to 3.9") with 80Kg/m<sup>3</sup>. (others upon consulting and request).
- Suitable for walls, ceilings and floors.

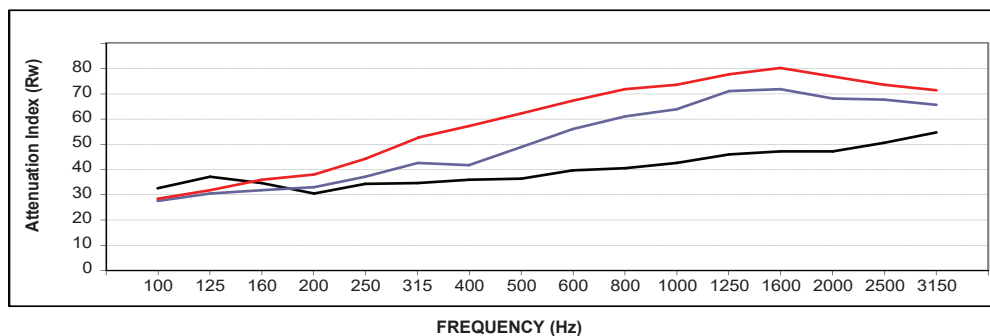
## SPECIFICATIONS

REF.	DIMENSIONS	WEIGHTS
ARG020	100 x 100 x 2 cm / (39.4 x 39.4 x 0.8 in)	1.6 Kg (3.527 lbs)
ARG040	100 x 100 x 4 cm / (39.4 x 39.4 x 1.6 in)	3.2 Kg (7.055 lbs)
ARG060	100 x 100 x 6 cm / (39.4 x 39.4 x 2.4 in)	4.8Kg (10.580 lbs)
ARG080	100 x 100 x 8 cm / (39.4 x 39.4 x 3.1 in)	6.4 Kg (14.110 lbs)
ARG100	100 x 100 x 10 cm / (39.4 x 39.4 x 3.9 in)	8 Kg (17.640 lbs)

## DESCRIPTION

ARG® is a product resulting from the agglomeration of flexible polyurethane foam of different densities, presented on plates, which shows a uniform and stable composition. Endowed with a porous cellular structure and unique physical and mechanical characteristics, ARG® constitutes a central element in various building systems that allow solving the most complex acoustic problems of buildings, structures, machinery and the like. Find wide application in insulation systems percussion sounds, an area where leads, allowing the development of highly competitive solutions in terms of cost / benefit ratio. It is virtually universal in its application in double construction systems (or trucks) to meet the requirement of insulation to air sounds. This field is particularly important for systems "box-in-box" particularly when necessary for rehabilitation of buildings. Other uses the level of vibration control equipment to support and reverberation control in closed spaces complete range of applications in the acoustic behavior of buildings. ARG® thus exhibits a substantially unique feature of being useful at all required in the field of acoustic behavior of buildings. This universal characteristic in the field of acoustics allows you to stand out among the products for the building, like the one in the acoustic field can contribute more for the comfort of human beings. When coupled with plaster sheets or clusters give large amounts of insulation in the whole range of the sound spectrum. Gives a high absorption power. Because it is glued, without physical contact of rigid structures, mitigation damping is achieved by means of elasticity. Acoustic Insulation above 60 dB, one must isolate all areas of walls, ceilings and floors avoiding structural physical transmissions.

## AIRBORNE NOISE INSULATION



Results for masonry walls and single plasterboard layer																
Freq. (Hz)	100	125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150
● Masonry wall	33	38	36	32	35	36	37	37	40	41	43	47	71	48	51	55
○ D60 / T30	30	33	37	39	45	53	55	62	67	70	73	76	79	74	72	72
○ D60 / T60	31	36	39	42	46	53	57	62	67	72	73	77	80	76	73	71

Note: D = Density (KG/m3) - T = Thickness (mm). All results were obtained in a reverberant chamber.

## APPLICATION:



Existing Walls

Partition Walls

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## SHOCK AB® WALL

### WALL AND CEILING VIBRATION ABSORBERS



Image of SHOCK AB WALL®, Ref.:SHAW.

#### FEATURES

- Dramatically improves the performance of your soundproofing layer.
- Minimise physical and structure sound transmission.
- Operating range of 30Kg to 50Kg per piece. Application: using screws.
- Can be applied in standard steel profiles used in the construction with plasterboard.
- Quick and easy installation with Safety System.
- Packaging: 20 pieces.

#### MODELS AND SPECIFICATIONS

MODELS	MAXIMUM LOAD CAPACITY RANGE (unit)	PACKAGE (units)
SHAW	30 Kg to 50 Kg	20 pcs

#### DESCRIPTION

The SHOCK AB® is provided in two models; one for the ceiling and one for the wall.

SHOCK AB® WALL is a wall 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, thereby minimizing physical contact to the support structure and forming the sound insulation layer between the sound wave irradiation and the original base surface.

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 30kg to 50kg per piece (fixation point).



## SHOCK AB® CEILING

### CEILING VIBRATION ABSORBERS

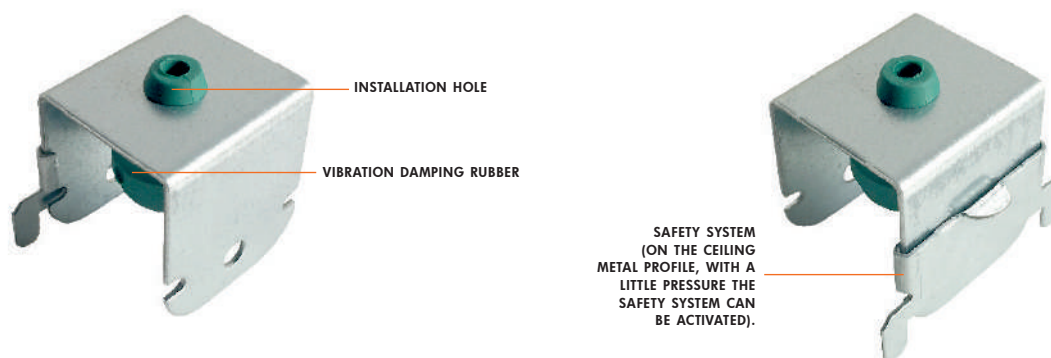


Image of SHOCK AB CEILING®, Ref.:SHAC.

#### FEATURES

- Dramatically improves the performance of your soundproofing layer.
- Minimise physical and structure sound transmission.
- Operating range of 30Kg to 50Kg per piece. Application: using screws.
- Can be applied in standard steel profiles used in the construction with plasterboard.
- Packaging: 20 pieces.

#### MODELS AND SPECIFICATIONS

MODELS	MAXIMUM LOAD CAPACITY RANGE (unit)	PACKAGE (units)
SHAC	30 Kg to 50 Kg	20 pcs

#### DESCRIPTION

The SHOCK AB® is provided in two models; one for the ceiling and one for the wall.

SHOCK AB® CEILING is a 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 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.

SHOCK AB® Ceiling is an effective way to cut off the structure-borne sound transmission of the suspended ceiling and the original building base.

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 30kg to 50kg per piece (fixation point).

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## FLOATSHEET® INS

SOUND INSULATION LAYER



FLOATSHEET® INS ROLL



FLOATSHEET® INS PLATE

Image of FLOATSHEET® INS ROLL, Ref.:FINr010AD (on the left) and PLATE, Ref.:FINp010AD (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	THICKNESS	WEIGHT
FINr010/AD (roll)	1000 cm (393.7 in)	150 cm (59.1 in)	1 cm (0.4 in)	4.62 Kg (10.19 lbs)
FINp010/AD (plate)	200 cm (78.7 in)	120 cm (47.2 in)	1 cm (0.4 in)	1.3 Kg (2.87 lbs)

### 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	THICKNESS	WEIGHT
FVI003AD	500 cm (196.85 in)	100 cm (39.4 in)	0.3 cm (0.1 in)	18.85 Kg (41.56 lbs)
FVI003	500 cm (196.85 in)	100 cm (39.4 in)	0.3 cm (0.1 in)	18.85 Kg (41.56 lbs)

### 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.

### IMPORTANT NOTICES

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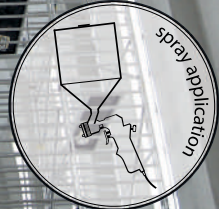


# GROUTPAINT®

## ACOUSTIC FINISHING COMPOUND



TEXTURE AND COLOUR EXAMPLE



EXAMPLE OF APPLICATION

### DESCRIPTION

GROUTPAINT® is a water-based acoustic anti-vibration adhesive paint. Different from the conventional damping materials, GROUTPAINT® is a low-density product, which has a high damping performance on the premise of its low weight.

The product is a key choice to reduce air noise and reverberation time, ideal for use on large surfaces for environments with strict additional weight requirements, such as plasterboard and concrete surfaces, constructions structures and building ceilings, yachts, vehicles and trains, etc. It provides a quick drying performance, environment-protection, performance and fire resistance. GROUTPAINT® is a 95% recycled compound.

This product can be applied on almost all surfaces by spraying, either using a pressure tank spray machine or an endless screw spray machine system gun.

GROUTPAINT® should be diluted with water (10%). It is advisable to apply a thin coat of (800g/ sq.m) as a primer to enhance adherence and to let it dry out completely before the next coat is sprayed. After that, you can apply more 2 or 3 coats, reaching 15mm maximum thickness.

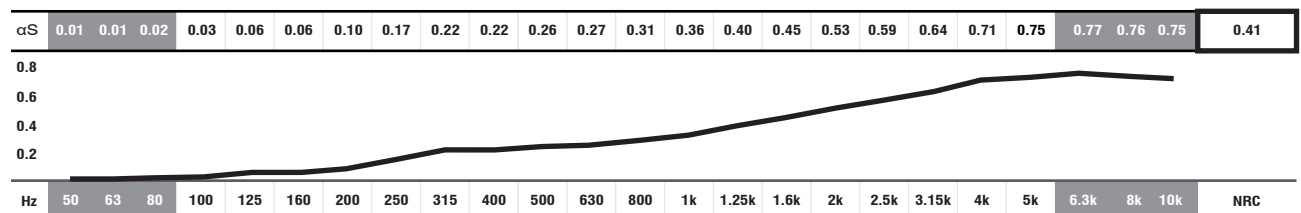
The product effectively reduces the reverberation time, the resonance effect and the transmission loss is increased. Obviously it controls the resonant frequency of the raw base material, caused by micro vibrations, improving the noise reduction rate.

### RECOMMENDATIONS AND FEATURES

- 10Kg bucket (22.05 Lbs), Water-based, easy to use and clean, 95% recycled compound.
- Main composition: Cellulose, textile and inert mineral fillers.
- Fire Class: A2-s1,d0, Non-Flammable (similar to old M0, French Norms CSTB).
- Absorption coefficient: 0,41/m² 12 to 15mm thickness (0.5" to 0.6").
- Application: any pressure tank spray machine or an endless screw spray machine using a large nozzle, from 8 to 12 mm (0.8" to 0.5").
- GROUTPAINT® should be diluted with water (10%). It is important to keep the same dilution during the whole job in order to ensure a continuous final look. DO NOT FORGET to add the small bottle of additive before application with an electrical mixer. This additive increases air entrainment and facilitates spraying application.

- GROUTPAINT® is fully compatible with all concentrated aqueous Paints used as colorants. Add the dye in the mix with an electrical mixer and make the color test before applying.
- Coverage: 4kg/m² (8.82 lbs/10.76 ft²) = 5mm to 12 Kg/m² (0.2" to 26.46 lbs/10.76 ft²) = depending on required sound absorption.
- Productivity: 0,8 to 1,2 Kg / m² (1.76 to 2.65 lbs/10.76 ft²) depending on the desired effect and the type of support. Drying: 24 to 36 hours (allow enough ventilation)
- Maximum thickness per layer: 5mm (0.2").
- Excellent adhesive ability to all surfaces. Suitable for indoor use only.
- The product follows IMO A653 standard and CE certification (MED B) and reaches the quality requirements of BS476.6 and BS476.7.
- Storage: 6 months in original package if not opened. Keep away from intensive heat and frost.

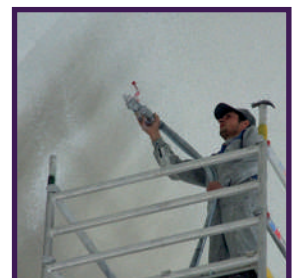
### ABSORPTION COEFFICIENT



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

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

### APPLICATION METHODS



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ECOiso® **NCF**  
NOISE CONTROL FLOOR



Image of NCF single unit (on the left) and NCF applied (ambient image).

## 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.

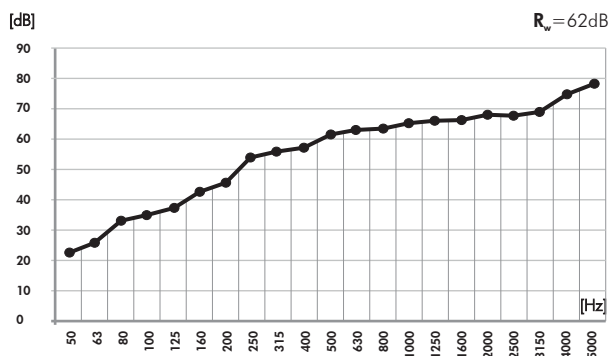
Beforetime the use of cork and wood agglomerates was one of earliest methods for building studios soundproofing insulation. It was soon discovered that these same excellent characteristics so essential in recording studios, could be applied equally well to home theatres, home studios, music rooms and 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 and Natural raw-materials.
- Recycled raw-materials.
- Fire-resistance: OSB - Euroclass D-s1,d0 (similar to old M3) and Cork - Euroclass E (similar to old M4).
- Supplied in tiles, easy to install.
- Excellent anti-vibrate performance.
- Easily cut to adjust to room dimensions.
- Provided in two sizes: **50 X 50 cm** or **100 X 50 cm** (19.7" x 19.7" or 39.4" x 19.7").
- Suitable for primary construction or retrofitting.

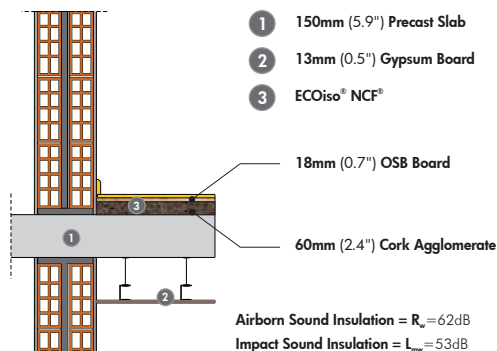
## AIRBORN SOUND INSULATION (dB/Hz)



## PACKAGE INFORMATION of 50 x 50 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 <sup>2</sup> )
ECOiso® NCF488 - 80mm	1 Box - 62 x 62 x 36 cm	4 tiles (1,92m <sup>2</sup> )

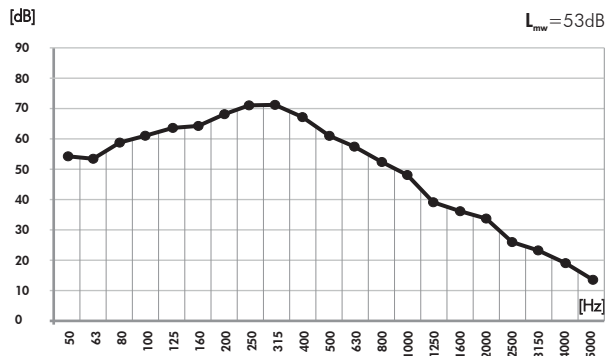
## APPLICATION EXAMPLE



## MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
ECONCF968	100 cm (39.4 in)	50 cm (19.7 in)	8 cm (3.1 in)	8.2 Kg (18.08 lbs)
ECONCF966	100 cm (39.4 in)	50 cm (19.7 in)	6 cm (2.4 in)	7.4 Kg (16.31 lbs)
ECONCF488	50 cm (19.7 in)	50 cm (19.7 in)	8 cm (3.1 in)	4.1 Kg (9.04 lbs)
ECONCF486	50 cm (19.7 in)	50 cm (19.7 in)	6 cm (2.4 in)	3.7 Kg (8.16 lbs)

## IMPACT SOUND INSULATION (dB/Hz)



## PACKAGE INFORMATION of 100 x 50 cm tiles

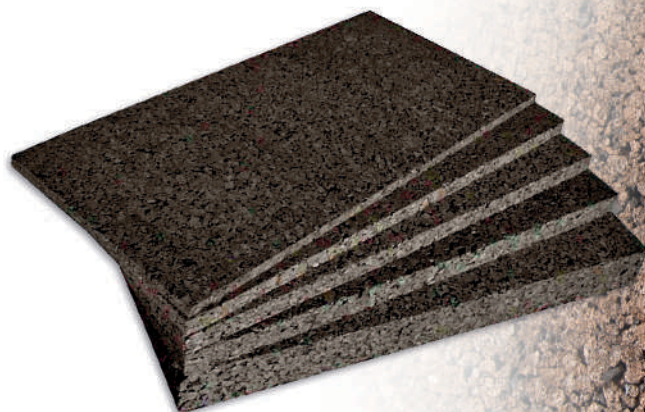
REFERENCE	PACKAGE DIMENSIONS	NR. OF TILES PER BOX
ECOiso® NCF966 - 60mm	1 Box - 120 x 62 x 36 cm	6 tiles (5,76m <sup>2</sup> )
ECOiso® NCF968 - 80mm	1 Box - 120 x 62 x 36 cm	4 tiles (3,84m <sup>2</sup> )

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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.



ECOiso® SPL  
SOUNDPROOFING LAYER



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

## DESCRIPTION

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

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

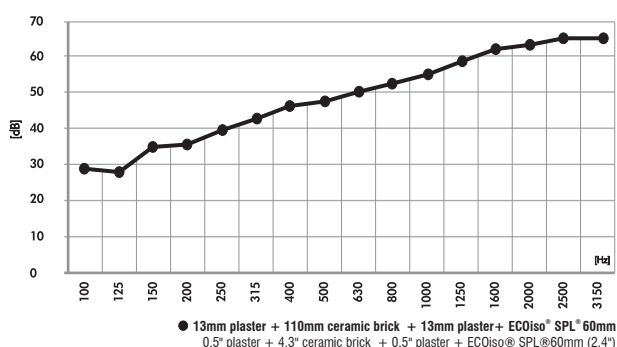
It comes in 1000 x 500mm plates (39.4"x19.7") and its thickness varies between 20 and 100mm (0.8"x3.9"). It may be placed on the inner layers of walls, ceilings or floors or may be placed on the outer layer as a final finishing.

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

## FEATURES

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

## SOUND INSULATION INDEX (dB/Hz)



## INSULATION AND THERMAL RESISTANCE VALUES

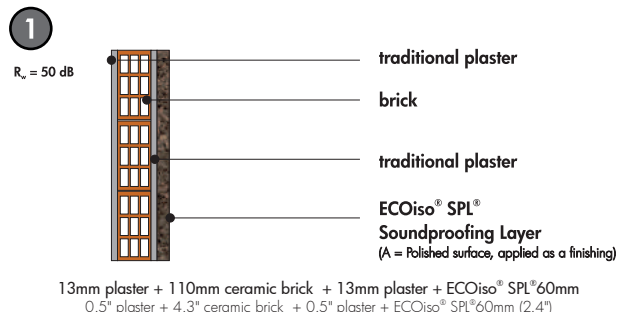
1	INSULATION VALUES $R_w$ (1)	THERMAL RESISTANCE $R_t$ (m²·°C/W)
20mm ECOiso® SPL®	$R_w = 39$ dB	0,50
40mm ECOiso® SPL®	$R_w = 44$ dB	1,00
60mm ECOiso® SPL®	$R_w = 50$ dB	1,50
80mm ECOiso® SPL®	$R_w = 52$ dB	2,00
100mm ECOiso® SPL®	$R_w = 54$ dB	2,50

## IMPORTANT NOTICES

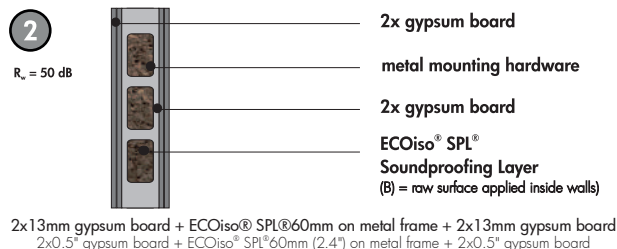
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- Wood and Fabric products are highly susceptible to change its appearance with humidity and temperature. Close attention must be paid to the storage conditions and the acclimatization before, during and after the installation.
- Typical Indoor Comfort Standards state a temperature range of 20°C - 27°C (68°F - 81°F), and a relative humidity of less than 60%. These would be considered as normal operational levels of JOCAVI® products' range.

## APPLICATION EXAMPLES

### REINFORCEMENT INSULATION COATING



### INSIDE A PARTITION WALL



## GENERAL FEATURES

TECHNICAL FEATURES	STANDARD	LIMIT VALUES / TOLERANCES	CLASS
Apparent bulk density	NP EN 1602	< 130 kg/m³	---
Thermal conductivity coefficient	EN 12667	< 0,040 W/m.K ( $\lambda_a$ )	---
Water content	EN 12105	< 8%	---
Water absorption	NP EN 1609	< 0,5 kg/m²	WS
Fire Class	NP ISO 11925-1	< 150 mm (h)	Euroclass E
	ETICS	---	B - s1,d0

## INSULATION AND THERMAL RESISTANCE VALUES

2	INSULATION VALUES $R_w$ (1)	THERMAL RESISTANCE $R_t$ (m²·°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





# QUADCORK®

## ABSORBENT PANEL



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 (9.8" x 9.8") mosaics that are simply glued to the surfaces, walls and ceilings.

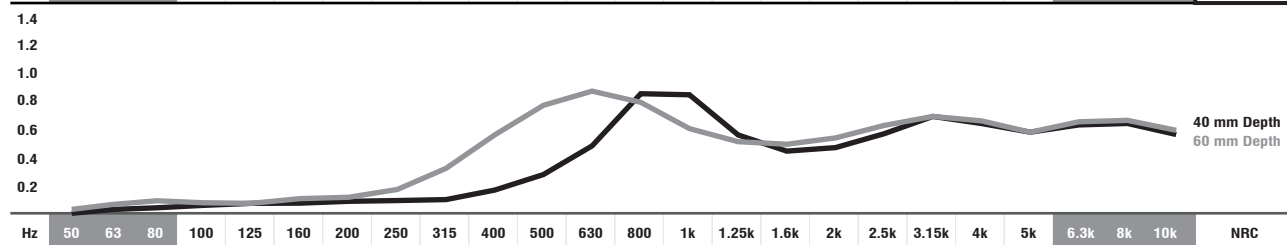
The QUADCORK® is simply made of cork as its raw-material, without additives..., and is bonded with its own resin. 90% of the energy consumption is made up of biomass, the waste of its industrial process, granules and dust. It is fully reusable.

### FEATURES

- Renewable and 100% natural raw-material and fully recyclable.
- NRC: **0.42/m²** - 4cm (1.6") and **0.53 /m²** - 6cm (2.4").
- Level of sound insulation: **Rw 52 dB**.
- Fire resistance: Euroclass E (EN 13501-1 - similar to old M4). No release of toxic gases.
- Thermal, acoustic and anti-vibration insulation material.
- Density: 120Kg / m³ - (264.55 lbs/ ft³).
- Thermal conductivity / Specific heat: 0.004W/mk.
- Natural industrial process (without additives).
- Unlimited durability, no loss of features.

### 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



### IMPORTANT NOTICES

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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.
- 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.





ECOiso® **ABL**  
ABSORBENT LAYER



Image of 120x60cm model Ref.:ECOABLw (on the left) and Ref.:ECOABLw applied (ambient image) LFM120 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.

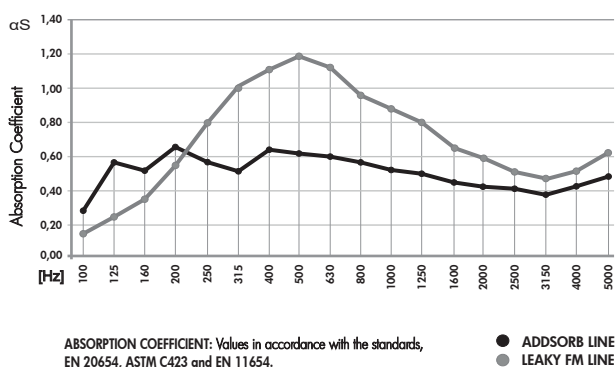
The acoustic behaviour of the ECOiso® ABL® (coconut + wood) delivers a natural combination, and ensures solutions with superb acoustic performances to reduce airborne levels, as well as an excellent aesthetical and decorative integration.

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.

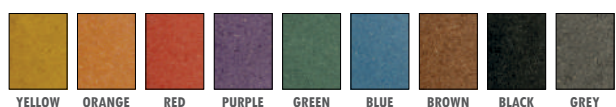
## FEATURES

- 100% natural materials.
- 100% recycled and recyclable.
- Noise reduction coefficient (NRC): **0.78/m²**
- Fire-resistance: Wood Veneer Faced (or Engineered Coloured Fibre) Boards - Euroclass B-s2,d0 (similar to old M1), Coconut (Cair Fibre) - Euroclass E (similar to old M4).
- Unlimited durability, no loss of features.
- Excellent dimensional stability (even when subject to high thermal variations).
- Low energy consumption during the manufacturing process.

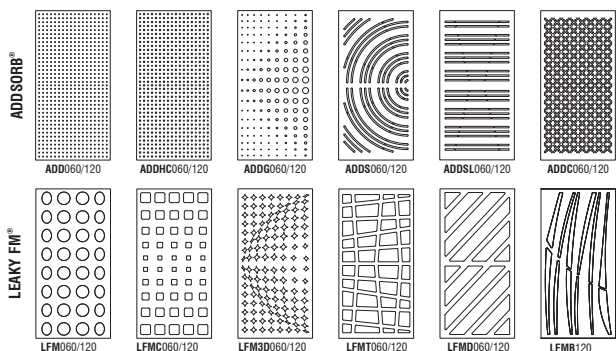
## ABSORPTION COEFFICIENT



## ENGINEERED COLOURED WOOD COLOURS



## TECHNICAL DRAWINGS



## MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
ECOABLc	120 cm (47.2 in)	60 cm (23.6 in)	2.8 cm (2.8 in)	4.1 Kg (9.04 lbs)
ECOABLw	120 cm (47.2 in)	60 cm (23.6 in)	2.8 cm (2.8 in)	4.1 Kg (9.04 lbs)

## 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	4,53%	0,53	LFM 060/120	31,00%	0,82
ADDHC 060/120	7,36%	0,63	LFMC 060/120	12,03%	0,77
ADDG 060/120	6,22%	0,59	LFM3D 060/120	13,47%	0,72
ADDS 060/120	17,73%	0,74	LFMT 060/120	52,22%	0,90
ADDSL 060/120	18,39%	0,74	LFMD 060/120	51,31%	0,90
ADDC 060/120	20,72%	0,76	LFMB 060	38,35%	0,80

## WOOD VENEER 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.



# ECOiso<sup>®</sup> SYSTEM

SOUNDPROOFING AND ABSORBENT LAYER



Image of 120x600cm model Ref.:ECOiso093 (on the left) and Ref.:ECOiso073 applied (ambient image).

## DESCRIPTION

Following an ecological philosophy, JOCAVI<sup>®</sup> has designed this line of acoustic insulation and treatment materials, which are made exclusively from natural raw-materials, like cork and coconut. This compound, made of strictly 100% natural ecological materials, has an excellent technical performance. The unique features of these raw materials combined in the ECOiso<sup>®</sup> provide it with a high degree of thermal, acoustic and anti-vibration insulation and airborne noise reduction. This product represents the most practical, efficient and ecological solution to build high-quality acoustic insulation and treatment. The ECOiso<sup>®</sup> is ideal to install in music and television studios, business spaces, auditoriums, conference rooms, restaurants and bars, etc.

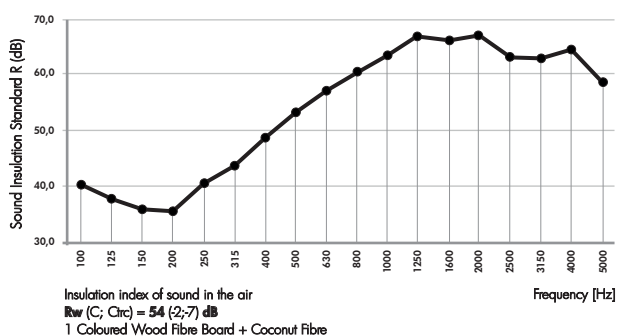
The acoustic behaviour of the ECOiso<sup>®</sup> (cork + coconut + wood) delivers a natural combination, and ensures solutions with superb acoustic performances to reduce sound levels, as well as an excellent aesthetical and decorative integration.

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

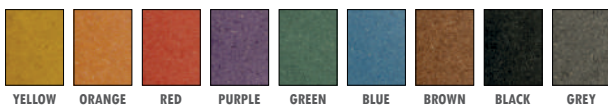
## FEATURES

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

## SOUND INSULATION INDEX R (dB)



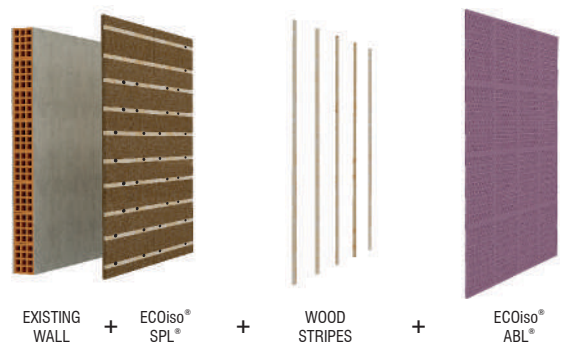
## ENGINEERED COLOURED WOOD COLOURS



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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<sup>®</sup> products' range.
- Despite all the standard sizes of all products, this model can be customised upon previous consultation. Sizes may vary slightly due to their production method and some inherent raw-materials characteristics.

## TECHNICAL DRAWINGS



## MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
ECOiso093	120 cm (47.2 in)	60 cm (23.6 in)	9.3 cm (3.7 in)	13.6 Kg (29.98 lbs)
ECOiso073	120 cm (47.2 in)	60 cm (23.6 in)	7.3 cm (2.9 in)	12.6 Kg (27.78 lbs)

## THERMAL TRANSMISSION COEFFICIENT

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

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

## WOOD VENEER FINISHINGS





# BASMEL® ACOUSTIC CURTAIN

## ABSORBENT PANEL

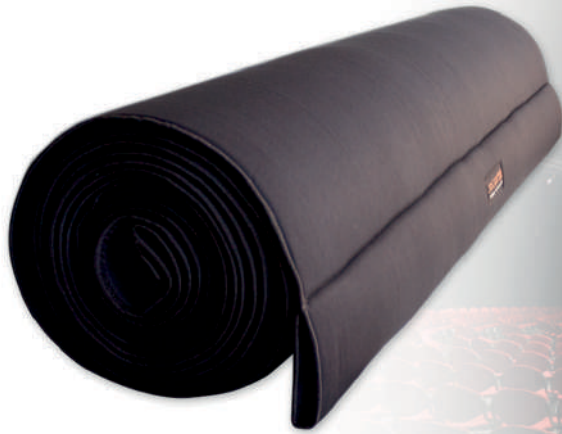


Image of 600x150cm model Ref.:BAC1506 and the model 800x150cm Ref.:BAC1508 applied (ambient image).

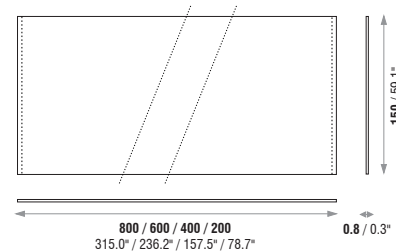
### DESCRIPTION

BASMEL® Acoustic Curtain is a low-cost acoustic product to be applied as a curtain or a sound divider. It is made of flexible open-cell polyester foam coated with fabric on both sides by fire-resistant fabric-finishing. At each end of the roll has fastening points for simple application.

This product can be applied as a window curtain or as a separator between different zones. The sound waves penetrate the open-cell structure, thus reducing the reflected energy and giving this product an excellent sound absorption capacity.

This product can be customized according to the specifications of each project, various colors and sizes can be provided by prior consultation.

### TECHNICAL DRAWINGS



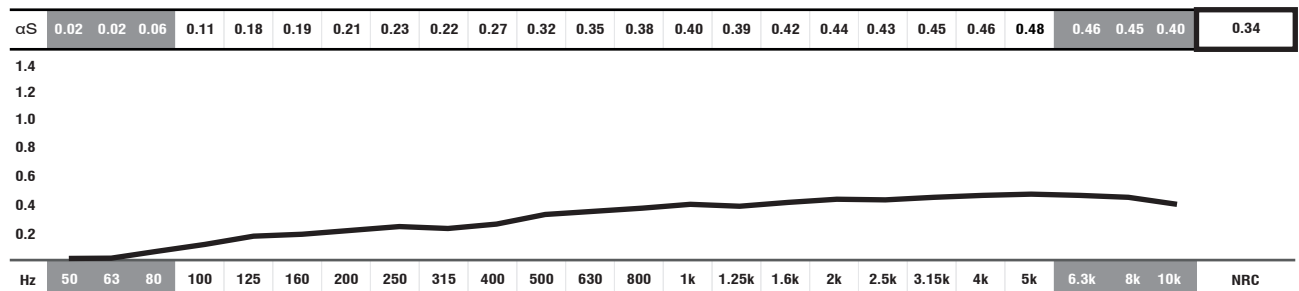
### FEATURES

- NRC: **0.34/m²**.
- Fire-resistance: Germany B1, France M1, GB Class 1, USA V0 / HF1 .
- BASMEL® Acoustic Curtains are provided in rolls to be suspended.
- Mobile solution for events or to be permanently installed.
- Improves sound's intelligibility and sound insulation between different adjacent performing spaces.
- Easily assembled and adaptable to the audience capacity of each event.
- Can be used as a curtain or as a sound divider.
- Raw materials: Acoustic Foam and Fabric.

### MODELS AND SIZES

MODELS	HEIGHT	WIDTH	DEPTH	WEIGHT
BAC1508	800 cm (315.0 in)	150 cm (59.1 in)	0.8 cm (0.3 in)	28 Kg (61.73 lbs)
BAC1506	600 cm (236.2 in)	150 cm (59.1 in)	0.8 cm (0.3 in)	21 Kg (46.30 lbs)
BAC1504	400 cm (157.5 in)	150 cm (59.1 in)	0.8 cm (0.3 in)	14 Kg (30.86 lbs)
BAC1502	200 cm (78.7 in)	150 cm (59.1 in)	0.8 cm (0.3 in)	7 Kg (15.43 lbs)

### 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 / (Other customized colours available on demand)



BLACK



CUSTOM  
Within RAL  
Colour System

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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.





# AKUSTEKWIN42

## SOUND INSULATION WINDOWS



### DESCRIPTION

Our windows feature durable frames crafted from metal-reinforced PVC profiles, filled with polyurethane for enhanced strength and insulation. The glass composition comprises single-layer and laminated glass, assembled with precision in a vacuum chamber. A neoprene decoupling membrane separates the composite glass from the frame, ensuring optimal performance. We offer a versatile range of glass compositions and customize sizes to meet specific requirements. Standard frames come in white, with the option to paint in any color upon request. These windows are designed for easy installation and are supplied with all necessary accessories for a seamless and efficient setup.

### DIMENSIONS

IN AKUSTEKWIN42 - 42db reduction  
Fix acoustic window - Color: white  
PVC ThermoFiber (KÖMMERLING76 AD Xtrem)  
frame 76mm = 2 1/1"  
Triple joint Fortex reinforced  
Triple glass Neutralux composite insulation unit

### ENERGETIC CHARACTERISTICS EN410

Energy Transmission	$\tau_e$ (%)	49
Energy Reflection	$\rho_e$ (%)	22
Energy Absorption	$\alpha_e$ (%)	29
Solar factor	$g$ (%)	34
Shadow Coefficient	SC	74
Ultraviolet Transmission	$t_{uv}$ (%)	NPD
Selectivity Index		1.27
Thermal Insulation Coefficient	$W/(m^2 \cdot K)$	1.3

### LIGHT CHARACTERISTICS EN410

Light transmission	$\tau_v$ (%)	74
light reflection	$\rho_v$ (%)	11
Interior Light Reflection	$\rho_{vi}$ (%)	11
Color Yield Index	$R_a$ (%)	NPD

### WEIGHT AND THICKNESS

Thickness:	mm	76.0
Weight:	Kg/m2	36

### IMPORTANT NOTICES

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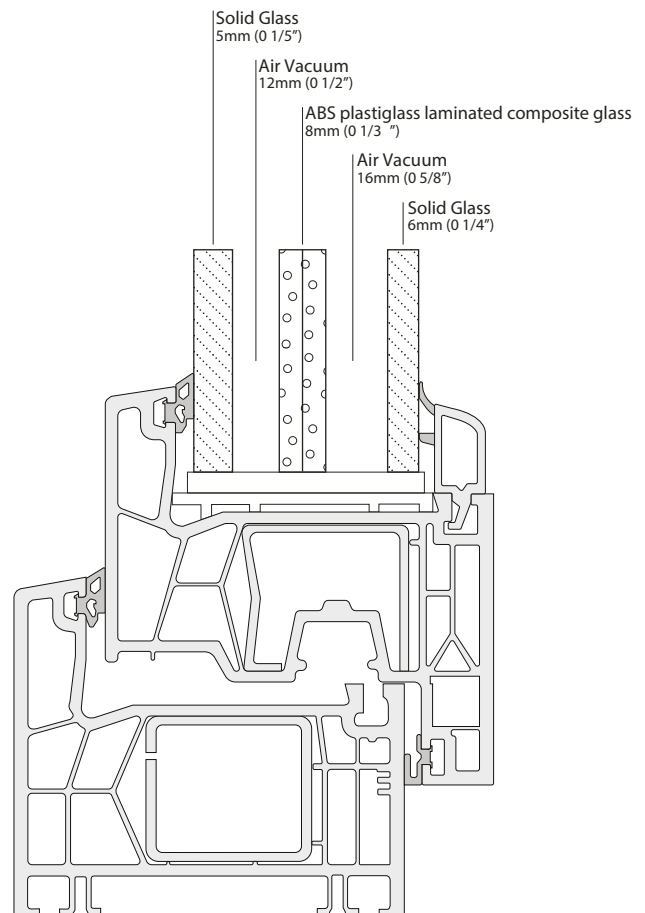
### FEATURES

Estimated Acoustic Attenuation Index-  $R_w$  (C, Ctr) 42 (-2/+2)dB  
Metal-reinforced PVC profiles  
Versatile range of glass compositions  
Customize sizes and colors  
Easy installation, necessary accessories included

### FIRE RATING

Profile Structure: Hardly flammable, self-extinguishing A2 s1- d0

### TECHNICAL DRAWING





# AKUSTEKWIN48

## SOUND INSULATION WINDOWS



### DESCRIPTION

Our windows feature durable frames crafted from metal-reinforced PVC profiles, filled with polyurethane for enhanced strength and insulation. The glass composition comprises single-layer and laminated glass, assembled with precision in a vacuum chamber. A neoprene decoupling membrane separates the composite glass from the frame, ensuring optimal performance. We offer a versatile range of glass compositions and customize sizes to meet specific requirements. Standard frames come in white, with the option to paint in any color upon request. These windows are designed for easy installation and are supplied with all necessary accessories for a seamless and efficient setup.

### DIMENSIONS

IN AKUSTEKWIN48 - 48db reduction  
Fix acoustic window - Color: white  
PVC ThermoFiber (KÖMMERLING76 AD Xtrem)  
frame 76mm = 2 1/1"  
Triple joint Fortex reinforced  
Triple glass Neutralux composite insulation unit

### ENERGETIC CHARACTERISTICS EN410

Energy Transmission	$\tau_e$ (%)	49
Energy Reflection	$\rho_e$ (%)	22
Energy Absorption	$\alpha_e$ (%)	29
Solar factor	$g$ (%)	34
Shadow Coefficient	SC	74
Ultraviolet Transmission	$\tau_{uv}$ (%)	NPD
Selectivity Index		1.27
Thermal Insulation Coefficient	$W/(m^2 \cdot K)$	1.3

### LIGHT CHARACTERISTICS EN410

Light transmission	$\tau_v$ (%)	74
light reflection	$\rho_v$ (%)	11
Interior Light Reflection	$\rho_{vi}$ (%)	11
Color Yield Index	$R_a$ (%)	NPD

### WEIGHT AND THICKNESS

Thickness:	mm	76.0
Weight:	Kg/m <sup>2</sup>	38

### IMPORTANT NOTICES

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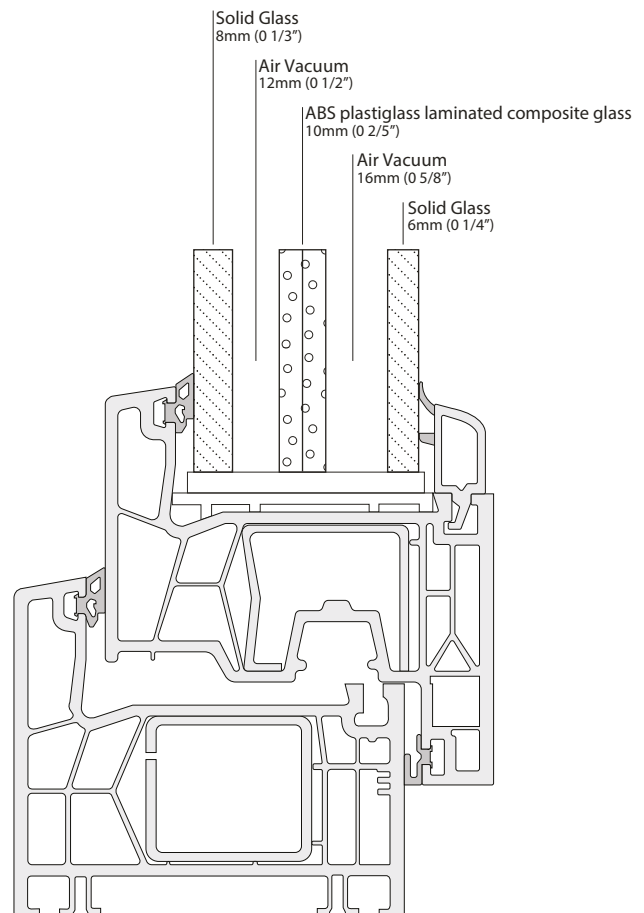
### FEATURES

Estimated Acoustic Attenuation Index- Rw (C, Ctr)	48 (+/-2) dB
Metal-reinforced PVC profiles	
Versatile range of glass compositions	
Customize sizes and colors	
Easy installation, necessary accessories included	

### FIRE RATING

Profile Structure: Hardly flammable, self-extinguishing	A2 s1- d0
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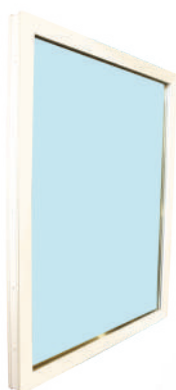
### TECHNICAL DRAWING





# AKUSTEKWIN52

## SOUND INSULATION WINDOWS



### DESCRIPTION

Our windows feature durable frames crafted from metal-reinforced PVC profiles, filled with polyurethane for enhanced strength and insulation. The glass composition comprises single-layer and laminated glass, assembled with precision in a vacuum chamber. A neoprene decoupling membrane separates the composite glass from the frame, ensuring optimal performance. We offer a versatile range of glass compositions and customize sizes to meet specific requirements. Standard frames come in white, with the option to paint in any color upon request. These windows are designed for easy installation and are supplied with all necessary accessories for a seamless and efficient setup.

### DIMENSIONS

IN AKUSTEKWIN52 - 52db reduction  
Fix acoustic window - Color: white  
PVC ThermoFiber (KÖMMERLING76 AD Xtrem)  
frame 76mm = 2 1/1"  
Triple joint Fortex reinforced  
Triple glass Neutralux composite insulation unit

### ENERGETIC CHARACTERISTICS EN410

Energy Transmission	$\tau_e$ (%)	49
Energy Reflection	$\rho_e$ (%)	22
Energy Absorption	$\alpha_e$ (%)	29
Solar factor	g (%)	34
Shadow Coefficient	SC	74
Ultraviolet Transmission	$\tau_{uv}$ (%)	NPD
Selectivity Index		1.27
Thermal Insulation Coefficient	W/(m <sup>2</sup> ·K)	1.3

### LIGHT CHARACTERISTICS EN410

Light transmission	$\tau_v$ (%)	74
light reflection	$\rho_v$ (%)	11
Interior Light Reflection	$\rho_{vi}$ (%)	11
Color Yield Index	R <sub>a</sub> (%)	NPD

### WEIGHT AND THICKNESS

Thickness:	mm	76.0
Weight:	Kg/m <sup>2</sup>	42

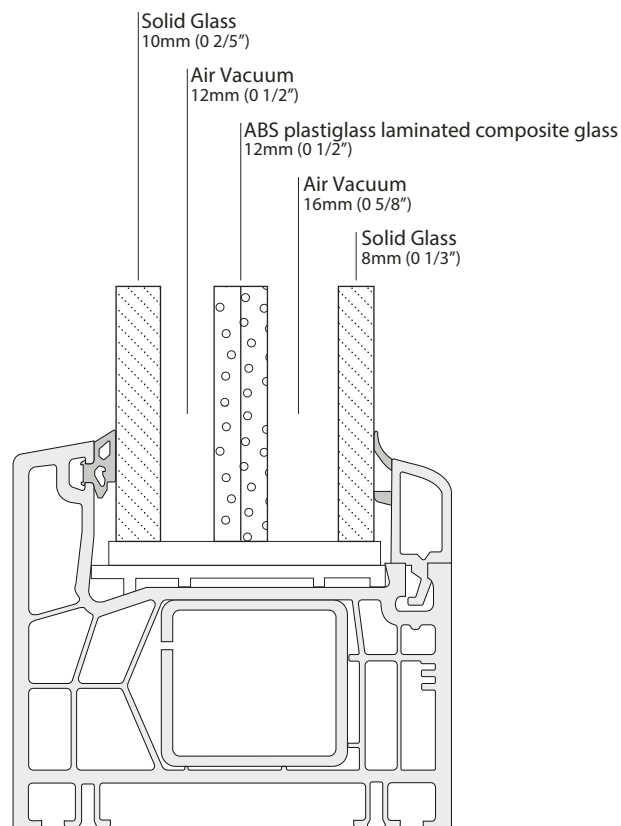
### FEATURES

Estimated Acoustic Attenuation Index- Rw (C,Ctr) 52 (+/-2) dB  
Metal-reinforced PVC profiles  
Versatile range of glass compositions  
Customize sizes and colors  
Easy installation, necessary accessories included

### FIRE RATING

Profile Structure: Hardly flammable, self-extinguishing A2 s1- d0

### TECHNICAL DRAWING



### IMPORTANT NOTICES

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# AKUSTEKDOOR42 - glass

## SOUND INSULATION DOORS



### DESCRIPTION

Our doors feature durable frames made from metal-reinforced PVC profiles filled with polyurethane for strength and insulation. The glass composition is made up of single-layer and laminated glass, precisely assembled in a vacuum chamber. Our doors boast reinforced hinges and an upright lock system, guaranteeing a secure and effective seal. A neoprene decoupling membrane separates the composite glass from the frame, ensuring optimal performance. We offer a versatile range of glass compositions and customize sizes to meet specific requirements. Standard frames come in white, with the option of painting in any color upon request. These doors are designed for easy installation and are supplied with all the necessary accessories for a perfect and efficient setup.

### DIMENSIONS

IN AKUSTEKDOOR42 - 42db reduction  
Reinforced acoustic Door - white frame  
PVC ThermoFiber (KÖMMERLING76 AD Xtrem)  
frame 76mm = 2 1/1"  
Triple joint Fortex reinforced  
Triple glass Neutralux composite insulation unit  
Single lock with key

### ENERGETIC CHARACTERISTICS EN410

Energy Transmission	$\tau_e$ (%)	49
Energy Reflection	$\rho_e$ (%)	22
Energy Absorption	$\alpha_e$ (%)	29
Solar factor	$g$ (%)	34
Shadow Coefficient	SC	74
Ultraviolet Transmission	$\tau_{uv}$ (%)	NPD
Selectivity Index		1.27
Thermal Insulation Coefficient	$W/(m^2 \cdot K)$	1.3

### LIGHT CHARACTERISTICS EN410

Light transmission	$\tau_v$ (%)	74
Light reflection	$\rho_v$ (%)	11
Interior Light Reflection	$\rho_{vi}$ (%)	11
Color Yield Index	$R_a$ (%)	NPD

### WEIGHT AND THICKNESS

Thickness:	mm	76
Weight:	Kg/m2	38

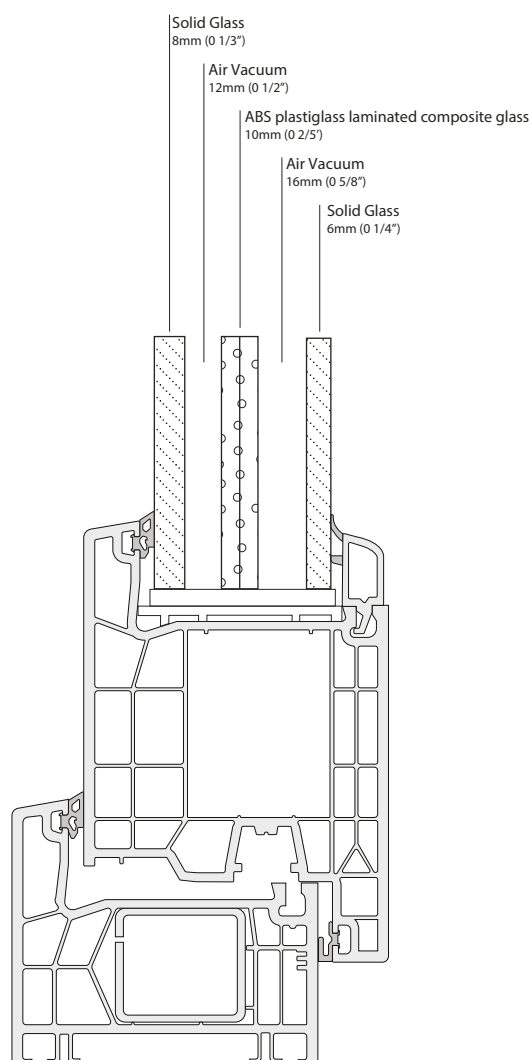
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### FEATURES

Estimated Acoustic Attenuation Index-  $R_w$  (C, Ctr) 42 (+/-2) dB  
Metal-reinforced PVC profiles  
Versatile range of glass compositions  
Customize sizes and colors  
Easy installation, necessary accessories included  
Reinforced hinges, guaranteeing an effective seal

### TECHNICAL DRAWING





# AKUSTEKDOOR48 - glass

## SOUND INSULATION DOORS



### DESCRIPTION

Our doors feature durable frames made from metal-reinforced PVC profiles filled with polyurethane for strength and insulation. The glass composition is made up of single-layer and laminated glass, precisely assembled in a vacuum chamber. Our doors boast reinforced hinges and an upright lock system, guaranteeing a secure and effective seal. A neoprene decoupling membrane separates the composite glass from the frame, ensuring optimal performance. We offer a versatile range of glass compositions and customize sizes to meet specific requirements. Standard frames come in white, with the option of painting in any color upon request. These doors are designed for easy installation and are supplied with all the necessary accessories for a perfect and efficient setup.

### DIMENSIONS

IN AKUSTEKDOOR48 - 48db reduction  
Reinforced acoustic Door - white frame  
PVC ThermoFiber (KÖMMERLING76 AD Xtrem)  
frame 76mm = 2 1/1"  
Triple joint Fortex reinforced  
Triple glass Neutralux composite insulation unit  
Single lock with key

### ENERGETIC CHARACTERISTICS EN410

Energy Transmission	$\tau_e$ (%)	49
Energy Reflection	$\rho_e$ (%)	22
Energy Absorption	$\alpha_e$ (%)	29
Solar factor	$g$ (%)	34
Shadow Coefficient	SC	74
Ultraviolet Transmission	$\tau_{uv}$ (%)	NPD
Selectivity Index		1.27
Thermal Insulation Coefficient	$W/(m^2 \cdot K)$	1.3

### LIGHT CHARACTERISTICS EN410

Light transmission	$\tau_v$ (%)	74
Light reflection	$\rho_v$ (%)	11
Interior Light Reflection	$\rho_{vi}$ (%)	11
Color Yield Index	$R_a$ (%)	NPD

### WEIGHT AND THICKNESS

Thickness:	mm	76
Weight:	Kg/m2	42

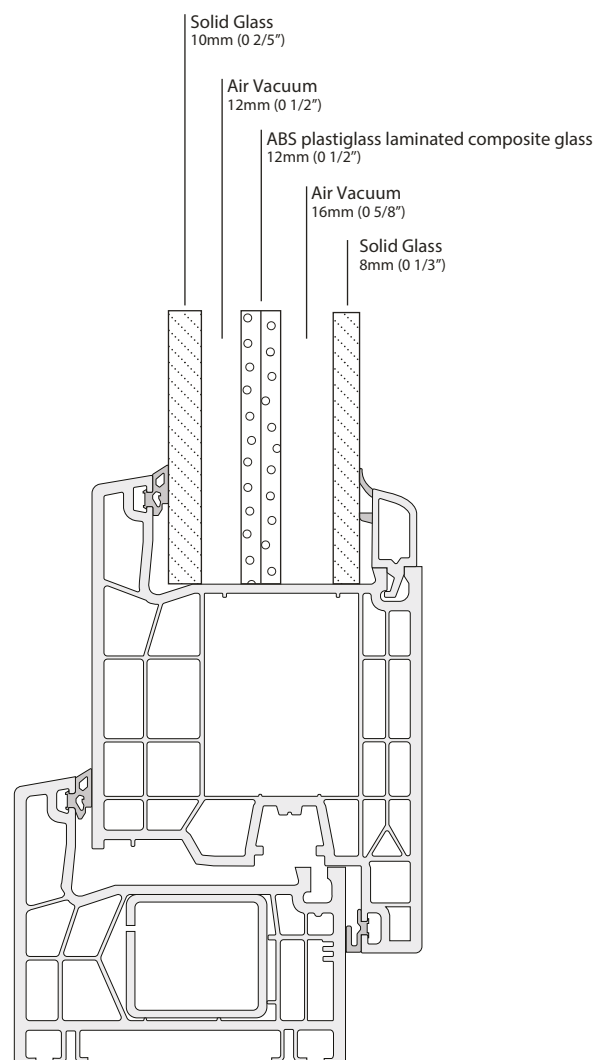
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### FEATURES

Estimated Acoustic Attenuation Index-  $R_w$  (C, Ctr) 48 (+/-2) dB  
Metal-reinforced PVC profiles  
Versatile range of glass compositions  
Customize sizes and colors  
Easy installation, necessary accessories included  
Reinforced hinges, guaranteeing an effective seal

### TECHNICAL DRAWING





# AKUSTEKDOOR42 - opaque

## SOUND INSULATION DOORS



### DESCRIPTION

Our doors feature durable frames made from metal-reinforced PVC profiles filled with polyurethane for strength and insulation. The high insulation core is composed of decoupling and mass materials, creating an exceptionally effective sandwich-type insulation compound. The use of fireproof materials not only ensures top-notch insulation but also makes these doors serve as highly sought-after fire barriers, meeting specific safety specifications and enhancing their overall value. Our doors boast reinforced hinges and an upright lock system, guaranteeing a secure and effective seal. We offer a versatile range of compositions and customize sizes to meet specific requirements. Standard frames come in white, with the option of painting in any color upon request. These doors are designed for easy installation and are supplied with all the necessary accessories for a perfect and efficient setup.

### DIMENSIONS

IN AKUSTEKDOOR42 - 42db reduction  
Reinforced acoustic Door - white frame + choosen finishing colors  
PVC ThermoFiber (KÖMMERLING76 AD Xtrem)  
frame 76mm = 2 1/4"  
Triple joint Fortex reinforced  
Custom STILLNESS42  
Single lock with key

### ENERGETIC CHARACTERISTICS EN410

Energy Transmission	$\tau_e$ (%)	39
Energy Reflection	$\rho_e$ (%)	28
Energy Absorption	$\alpha_e$ (%)	29
Solar factor	$g$ (%)	
Shadow Coefficient	SC	
Ultraviolet Transmission	$\tau_{UV}$ (%)	
Selectivity Index		1.47
Thermal Insulation Coefficient	$W/(m^2 \cdot K)$	1.3

### FIRE RATING

Profile Structure: Hardly flammable, self-extinguishing	A2 s1- d0
Type X FR Gypsumboard 15mm (0 3/5")	Flame Spread rating of 15
(in accordance with ASTM E 84)	Smoke Developed rating of 0
Cement fibre board 12mm(1/2")	EN 13501-1 / B-s1,d0
Fabric or painted finishing 1 mm (0 0/1")	fire-retardant fabric
IN Foatsheet INS 12mm (0 1/2")	B-s1,d0

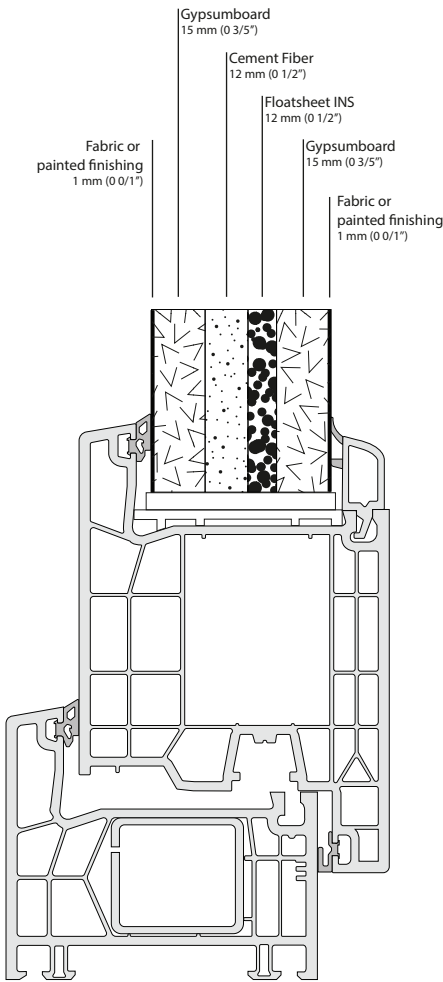
### WEIGHT AND THICKNESS

Thickness:	mm	92
Weight:	Kg/m2	42

### FEATURES

Estimated Acoustic Attenuation Index- Rw (C,Ctr)	42 (+/-2) dB
Fireproof doors	
Metal-reinforced PVC profiles	
High insulation compound	
Customize sizes and colors	
Easy installation, necessary accessories included	
Reinforced hinges, guaranteeing an effective seal	

### TECHNICAL DRAWING



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# AKUSTEKDOOR52 - opaque

## SOUND INSULATION DOORS



### DESCRIPTION

Our doors feature durable frames made from metal-reinforced PVC profiles filled with polyurethane for strength and insulation. The high insulation core is composed of decoupling and mass materials, creating an exceptionally effective sandwich-type insulation compound. The use of fireproof materials not only ensures top-notch insulation but also makes these doors serve as highly sought-after fire barriers, meeting specific safety specifications and enhancing their overall value. Our doors boast reinforced hinges and an upright lock system, guaranteeing a secure and effective seal. We offer a versatile range of compositions and customize sizes to meet specific requirements. Standard frames come in white, with the option of painting in any color upon request. These doors are designed for easy installation and are supplied with all the necessary accessories for a perfect and efficient setup.

### DIMENSIONS

IN AKUSTEKDOOR52 - 52db reduction

Reinforced acoustic Door - white frame + choosen finishing colors

PVC ThermoFiber (KÖMMERLING76 AD Xtrem)

frame 76mm = 2 1/4"

Triple joint Fortex reinforced

Custom STILLNESS52

Single lock with key

### ENERGETIC CHARACTERISTICS EN410

Energy Transmission	$\tau_e$ (%)	39
Energy Reflection	$\rho_e$ (%)	28
Energy Absorption	$\alpha_e$ (%)	29
Solar factor	$g$ (%)	
Shadow Coefficient	SC	
Ultraviolet Transmission	$\tau_{UV}$ (%)	
Selectivity Index		1.47
Thermal Insulation Coefficient	$W/(m^2 \cdot K)$	1.3

### FIRE RATING

Profile Structure: Hardly flammable, self-extinguishing	A2 s1- d0
Type X FR Gypsumboard 15 mm (0 3/5")	Flame Spread rating of 15
(in accordance with ASTM E 84)	Smoke Developed rating of 0
Cement fibre board 12mm (1/2")	EN 13501-1 / B-s1,d0
Melamine foam 16mm (0 5/8") and 20mm (0 4/5")	B-s1, d0
IN Foatsheet INS 8 mm (0 1/3")	B-s1,d0

### WEIGHT AND THICKNESS

Thickness:	mm	92
Weight:	Kg/m2	48

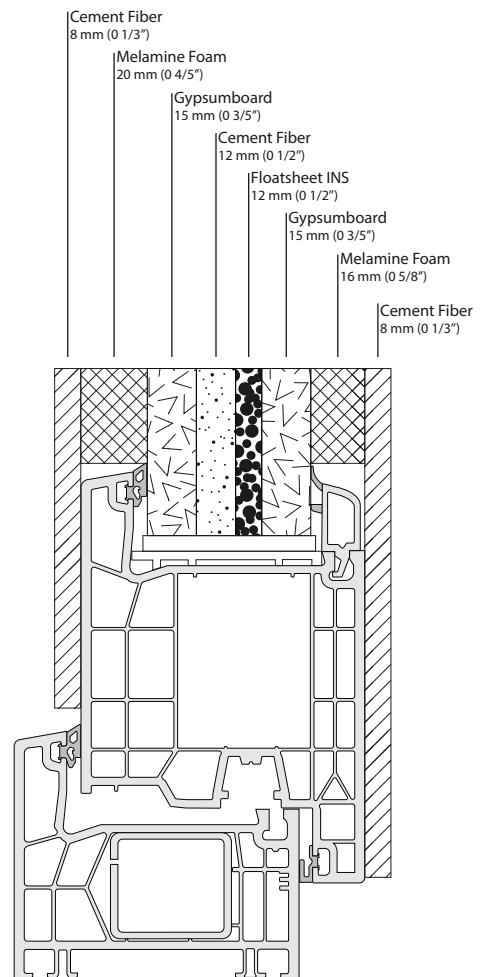
### IMPORTANT NOTICES

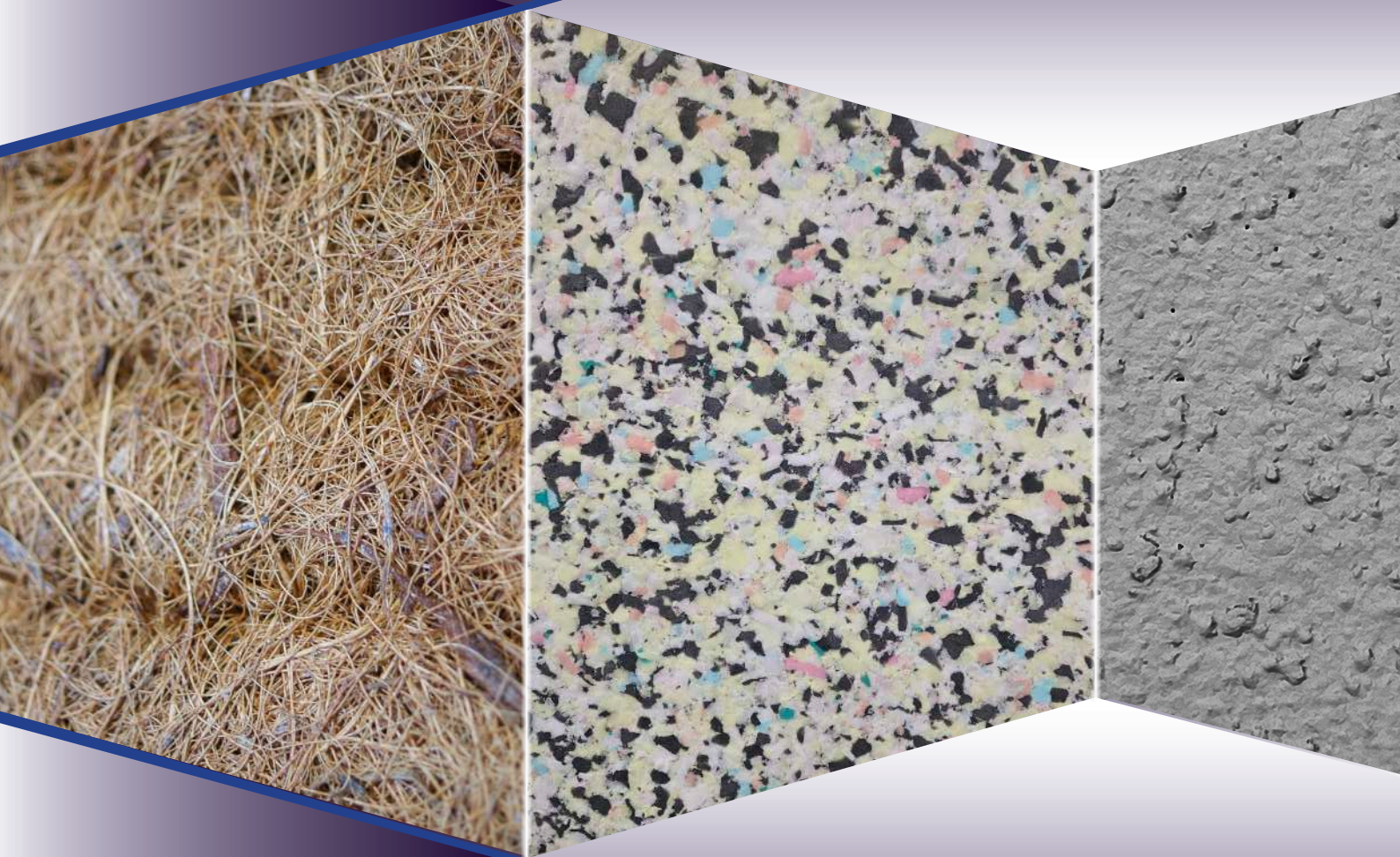
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### FEATURES

Estimated Acoustic Attenuation Index- Rw (C,Ctr)	52 (+/-2) dB
Fireproof doors	
Metal-reinforced PVC profiles	
High insulation compound	
Customize sizes and colors	
Easy installation, necessary accessories included	
Reinforced hinges, guaranteeing an effective seal	

### TECHNICAL DRAWING





**JOCAVI** Acoustic  
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