

ALPHA ACOUSTIKI
In TUNE with YOUR needs

αcouCell Product line

Honeycomb cell Acoustic foam

High sound absorption

AcouCell

Honeycomb closed cell foam
HIGH SOUND ABSORPTION

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αcouCell #Slab

Honeycomb closed cell foam
HIGH SOUND ABSORPTION - SLABS

αcouCell-Slab: An innovative acoustic material for high sound absorption in Slabs



αcouCell-Slab

Description

αcouCell-Slab is a honeycomb foam made of polyethylene foam. It has closed cells that are subsequently opened through partial perforation on both sides, which effectively traps sound and reduces the reverberation time, improving vocal clarity. In black color its original external appearance resembles, looked at from a distance, as granite relief surface

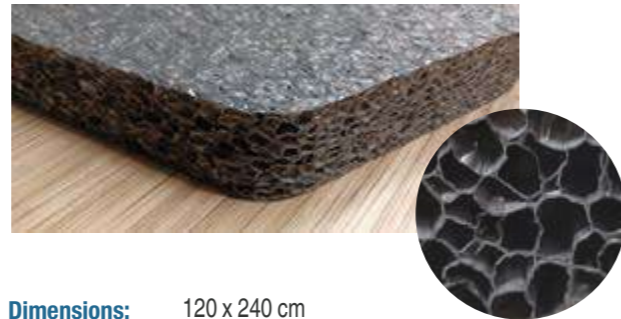
Please contact us if it is intended for exterior installation.

Main characteristics

High sound absorption especially in the mid frequency (human speech), low weight, fiber free, structurally indented, moisture resistant, washable surface, fire retardant.

The acoustic energy enters internally the cells stimulating the membranes of each cell converting this energy to heat.

Due to the light weight and its self supporting structure – it is very easy to be cut and installed on site.



- Dimensions:** 120 x 240 cm
- Color:** Dark grey/ White
- Thickness:** 50mm standard, 25mm upon request
- Fire rating:** According to DIN 4102:B1, EN 13501-1 (B, S2 d0)

Main advantages

- Sound absorption:** High sound absorption in the mid frequency
- Water resistance:** Provides unaltered and sustained acoustic performance in wet or humid conditions.
- Strong structure:** Semi-Rigid, self-supporting structure, easy to cut and easy to install on site
- Light weight:** Less than 1.5kg per square meter at 50mm
- Fiber free:** No fibrous materials, low VOC, zero ODP, does not cause irritations, does not crumble
- Transmission loss:** 13dB at 50mm thickness



αcouCell *Honeycomb closed cell foam* #Slab HIGH SOUND ABSORPTION - SLABS

Typical applications

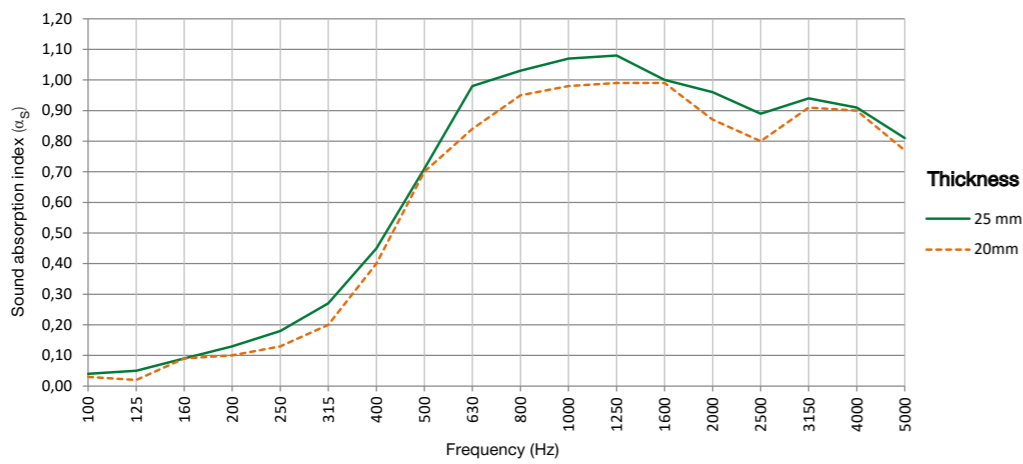
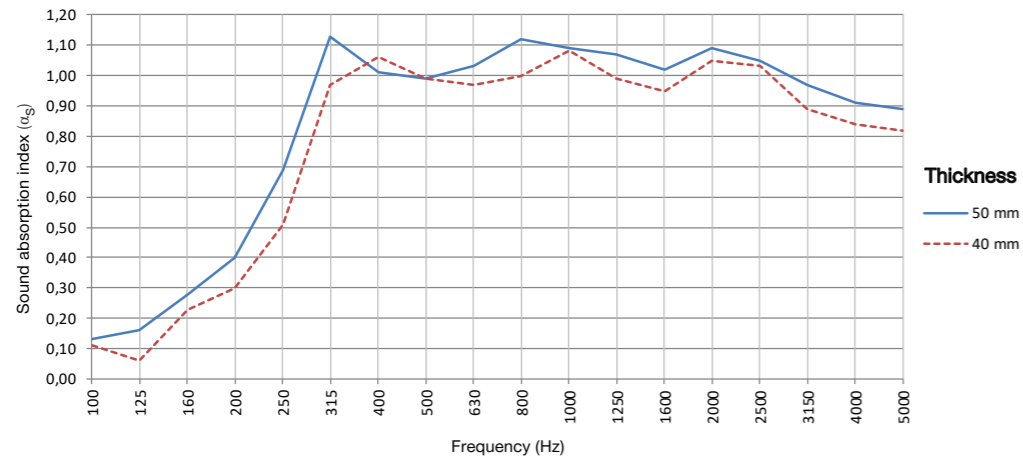
αcouCell-Slab can be used to offer sound absorption in a variety of projects such as recording studios, home cinemas, night clubs, restaurants, indoor pools, gyms, car washing tunnels, shooting ranges, sports halls etc. It can also be applied as ceiling vertical baffles, high speed rail/motorway Noise barriers, internal air-ducts lining, ventilation and air conditioning – sound attenuators/ silencers specially where there is high humidity, etc. Moreover, it can be installed as self-supporting panels with mechanical support (expandable anchors with suitable washers) or liquid or spray magnetic adhesive. It is very easy to cut with a blade or a suitable saw.

Bellow you are some panel combination examples on a typical wall:

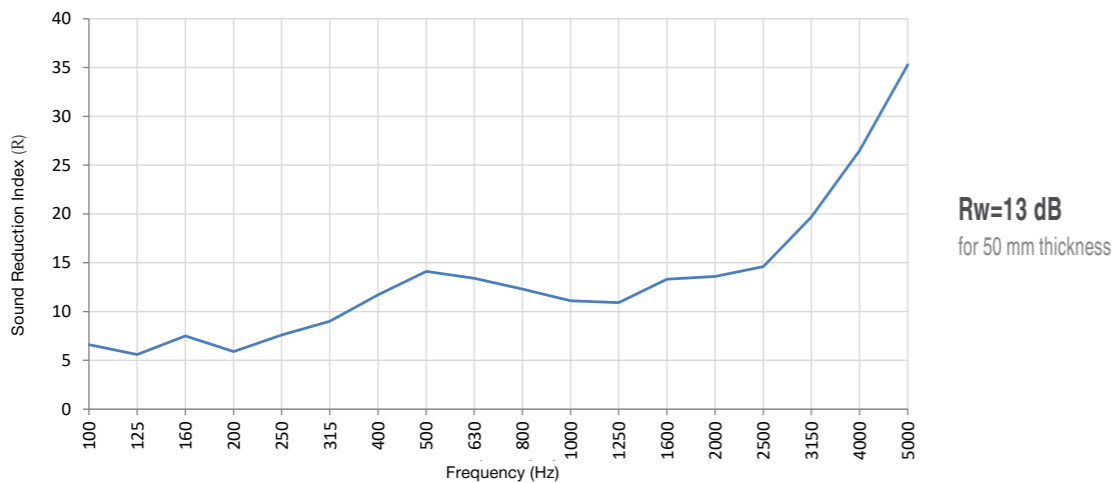


Acoustic characteristics

Lab measurements of sound absorption in reverberation room according to EN ISO 354



Transmission loss according to EN ISO 140 & ISO 717.1



Technical specifications

Physical Properties	Test Method	Unit	Typical Physical Properties
Nominal Density	ASTM D3575-08 Suffix W ISO 845:2006	Kg/m ³	25
Compressive Strength Vertical @ 25%	ASTM D3575-08 Suffix D ISO 7214:2007	KPa	7 12
Compressive Strength 25% (4th compression) 50% (4th compression) 70% (4th compression) (100mm/min compression speed)	ISO 3386 1986 part 1 DIN 53577	KPa	3 7 25
Compression Set	ASTM D3575-08 Suffix B (50% Compression) ISO 1856:2000 (25% compression)	%	< 30 < 20
Cell Size	BS 4443/1 Met.4	Cells/25mm	< 10
Fire-test-response Characteristics (1) Transportation Automotive Building & Construction	TS EN 45545-2 NF F 16-101 DIN 54837 FMVSS 302 DIN 4102 EN 13501-1	Class Class - Class Class	HL2 for flooring. HL1 for ceiling and wall. F1 S3, SR2, ST2 Pass B1
Water Pick Up by Diffusion (RH > 95% - after 28 days)	UNI EN 12088	Kg/m ²	< 3
Water Pick Up by Diffusion (RH > 95% - after 28 days)	UNI EN 12088	Volume %	< 5
Thermal Conductivity @ 23°C @ -5°C	ASTM D3575-08 Suffix V ISO 8301	W/mK	0.104 0.082
Thermal stability (24hrs at 70°C)	ASTM D3575-08 Suffix S ISO 2796	%	< 3
Tensile Strength @ Peak	ASTM D3575 Suffix T ISO1798	KPa	130
Tensile Elongation	ASTM D3575 Suffix T ISO1798	%	60
VOC Emissions	AFNOR NF EN ISO 16000-9	Class	A+

(1) These numerical laboratory fire-test-response characteristics are not intended to reflect hazards presented by this material under actual fire conditions.

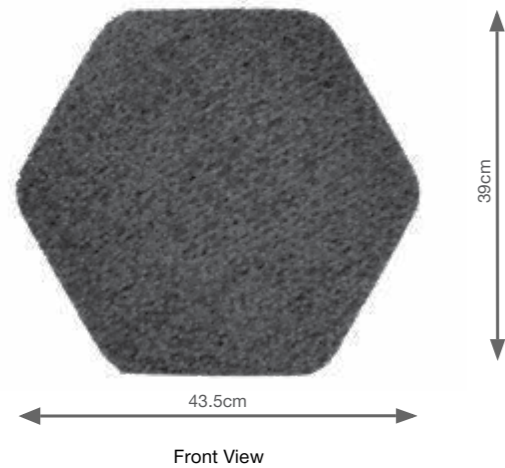
α couCell #Hexa

Honeycomb closed cell foam
HIGH SOUND ABSORPTION - HEXAGON FORM

α couCell-Hexa: An innovative acoustic panel for high sound absorption in hexagon form.

Description

α couCell-Hexa is a honeycomb foam, in hexagon form. It has closed cells that are subsequently opened through partial perforation on both sides, which effectively traps sound and reduces the reverberation time, improving vocal clarity. Its original external appearance resembles, looked at from a distance, as granite relief surface (some people even simulate it as volcanic).



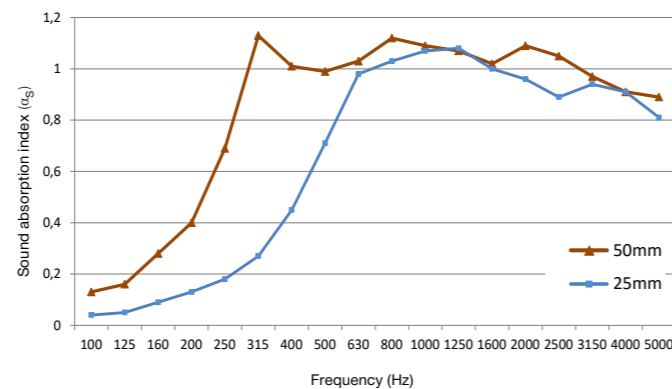
α couCell-Hexa

Main characteristics

High sound absorption especially in the mid frequency (human speech), low weight, fiber free, structurally indented, moisture resistant, washable surface, fire retardant.
The acoustic energy enters internally the cells stimulating the membranes of each cell converting this energy to heat.



- Dimensions:** 43.5 x 39 cm
- Thickness:** 50mm standard
- Color:** Dark grey standard /White on demand
- Packing:** Box of 6 pieces.
- Fire rating:** According to DIN 4102:B1, EN 13501-1 (B, S2 d0)
- Water resistance:** Provides unaltered and sustained acoustic performance in wet or humid conditions.



Acoustic performance

The sound absorption index (α_s) according to ISO 354.2003 per square meter is presented in the diagram on the right. The weighted sound absorption coefficient (α_w) according to ISO 11654.1997 can be found in the following table:

Type: α couCell	Weighted Sound Absorption Coefficient (α_w)	Sound Absorption Class
50mm	1	A
25mm	0.50	D

Tested by accredited laboratories.

α couCell #Hexa

Honeycomb closed cell foam
HIGH SOUND ABSORPTION - HEXAGON FORM

Typical applications

α couCell-Hexa can be used in a variety of projects even in spaces with high humidity. They can be attached to the wall or ceiling to form patterns.

They are typically installed in home Theaters, Recording & Post Production Studios, Rehearsal Rooms, Conference Rooms, night clubs, bars, offices, meeting rooms, swimming pools, mechanical rooms, restaurants etc.

Bellow you are some panel combination examples on a typical wall:



Installation method

Due to the light weight and its self-supporting structure of the panels it is very easy to be installed on site.

Step 1: The panels can be installed in contact to one another or leaving a gap and form compositions.

Step 2: Once the desired pattern is decided the positions of the panels on the wall or ceiling should be determined.

Step 3: Then, each piece can be glued with magnetic spray adhesive (ask us for information).

Alternatively, the accessories shown in the figure can be used to attach the panels to the wall or ceiling. The metal elements are manually screwed onto the back side of the panel. The suspension hooks thus inserted into the panel can be anchored to the L-shaped screws attached to the ceiling or wall.

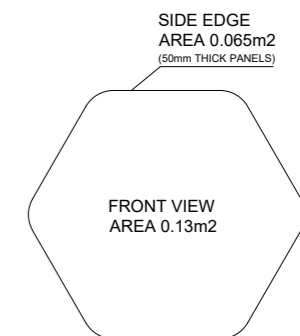


Available sound absorbing area

According to the selected installation method, the available sound absorbing area may be the front, the sides or also the back of the panel.

For the 50mm thick standard hexa panels the front and back side area are 0.13m² each. The side edges total area is 0.065m². Therefore, if the panels are eg attached to a wall at a distance from each other the available sound absorbing area is 0.195m² for each panel.

The maximum sound absorbing area is achieved if all sides of the panel are visible e.g. when hang from the ceiling at a distance from walls or other surfaces.



AcouCell Honeycomb closed cell foam #Hexa Wood HIGH SOUND ABSORPTION - HEXAGON FORM

Wood face hexagon panels

AcouCell-Hexa is produced in its plain form and with a variety of faces. Our Wood face line adds a perforated form panel on the front side of the panel, offering a warm, natural aesthetic.

By covering the front surface of the sound-absorbing material with a wooden face with appropriate perforation we present a new look in the warm and natural shades of wood, offering a modern product that meets the particular preferences of customers.

As the wood perforation exceeds 20%, the sound absorption capacity of the underlying material remains unchanged.

Having developed the cutting technology we can create various designs, based on the needs of our customers, depending on the size of the order.

The face material

The wooden face is made of an High-Density-Fiberboard (Masonite - HDF) with a wood appearance lamination.

The wooden panel is perforated to form a pattern that allows the AcouCell material to be partially visible. The sound is transferred to the acoustic material through the perforation to achieve the desired acoustic result.

The wooden panel is also sold separately. It can be attached to the standard Hexa panels using a magnetic spray adhesive to change their appearance.

The perforation patterns

The panels are perforated to form patterns on the wood panel. There is a variety of patterns in our collection in different design styles. The possibilities are limitless.

The main perforation patterns are presented below:



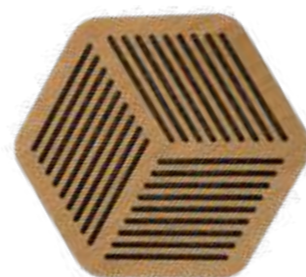
Hexa Maze



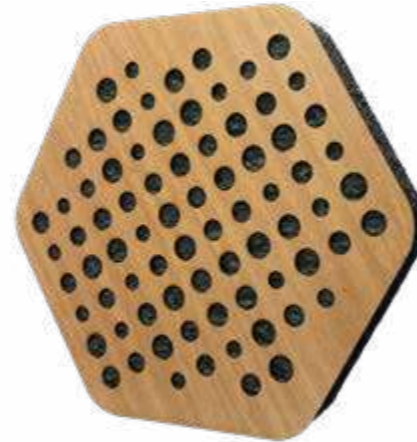
Hexa Bubble



Hexa Jali



Hexa Qube



Hexa Bubble



Hexa Maze

AcouCell Honeycomb closed cell foam #Hexa Felt HIGH SOUND ABSORPTION - HEXAGON FORM

Felt face hexagon panels

AcouCell-Hexa is produced in its plain form and with a variety of felt faces. Our Felt face line adds a new look on the front side of the panel offering more aesthetic options.

By covering the front surface of the sound-absorbing material with a special sound transparent recycled polyester PET felt, we offer more color options in order to satisfy the special requirements of each project.

The main acoustic core element is a honeycomb foam, with closed cells that are subsequently opened through partial perforation on both sides, which effectively traps sound and reduces the reverberation time, improving vocal clarity.

The face material

The felt face is made of a carefully selected sound transparent felt with a warm appearance.

The felt face is attached on either a dark grey or a white Hexa panel to create a variety of color combinations. It is available in a collection of standard colors.



Hexa FM 03



Hexa FM 05



Core material



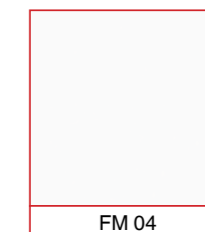
FM 01



FM 02



FM 03



FM 04



FM 05

Color Matching

Batch to batch variations in shade may occur with commercial tolerances.

Photographic felt scans are not color accurate. Always request actual felt samples, before ordering.

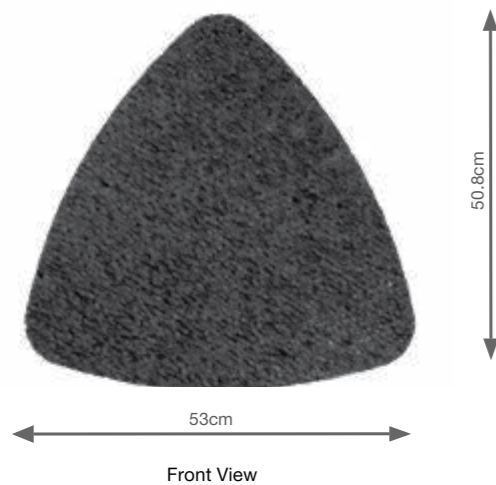
α couCell #Petal

Honeycomb closed cell foam
HIGH SOUND ABSORPTION - ROUNDED TRIANGLE FORM

α couCell-Petal: An innovative acoustic panel for high sound absorption in rounded triangle form.

Description

α couCell-Petal is a panel made of honeycomb acoustic cell foam. Inspired by nature and the symmetry of flower petals, we created the curved triangular form. It has closed cells that are subsequently opened through partial perforation on both sides, which effectively traps sound and reduces the reverberation time, improving vocal clarity. Its original external appearance resembles, looked at from a distance, as granite relief surface (some people even simulate it as volcanic).



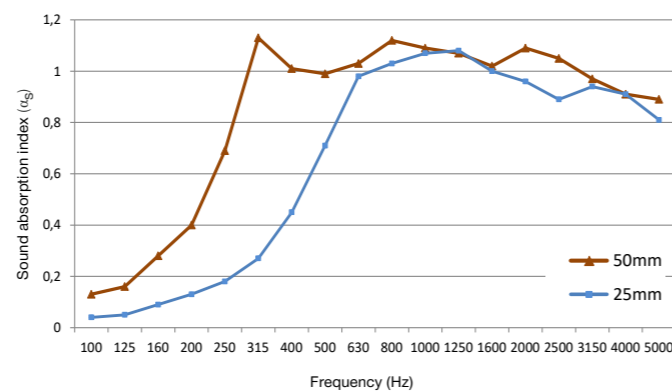
α couCell-Petal

Main characteristics

High sound absorption especially in the mid frequency (human speech), low weight, fiber free, structurally indented, moisture resistant, washable surface, fire retardant.
The acoustic energy enters internally the cells stimulating the membranes of each cell converting this energy to heat.



Dimensions: 53 x 50.8cm
Thickness: 50mm standard
Color: Dark grey standard /White on demand
Packing: Box of 6 pieces.
Fire rating: According to DIN 4102:B1, EN 13501-1 (B, S2 d0)
Water resistance: Provides unaltered and sustained acoustic performance in wet or humid conditions.



Acoustic performance

The sound absorption index (α_s) according to ISO 354.2003 per square meter is presented in the diagram on the right. The weighted sound absorption coefficient (α_w) according to ISO 11654.1997 can be found in the following table:

Type: αcouCell	Weighted Sound Absorption Coefficient (α_w)	Sound Absorption Class
50mm	1	A
25mm	0.50	D

Tested by accredited laboratories.

α couCell #Petal

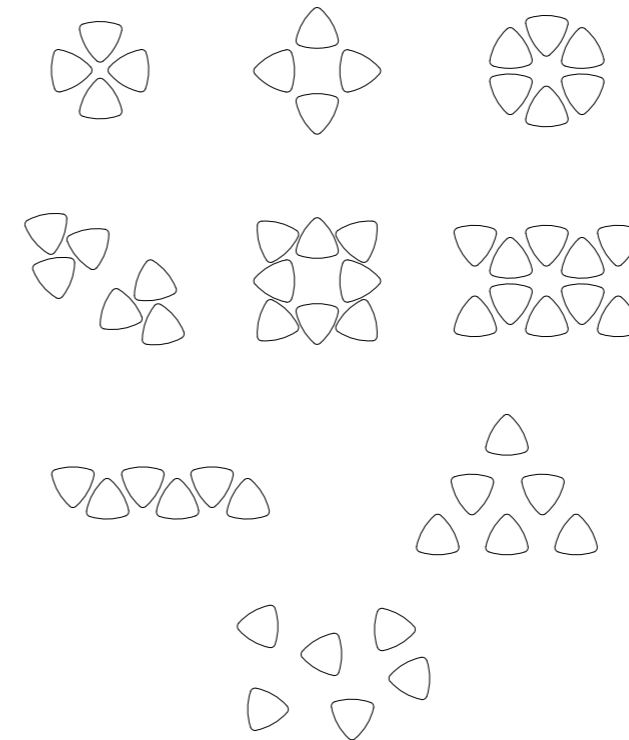
Honeycomb closed cell foam
HIGH SOUND ABSORPTION - ROUNDED TRIANGLE FORM

Typical applications

α couCell-Petal can be used in a variety of projects even in spaces with high humidity. They can be attached to the wall or ceiling to form patterns.

They are typically installed in home Theaters, Recording & Post Production Studios, Rehearsal Rooms, Conference Rooms, night clubs, bars, offices, meeting rooms, swimming pools, mechanical rooms, restaurants etc.

Bellow you are some panel combination examples:



Installation method

Due to the light weight and its self-supporting structure of the panels it is very easy to be installed on site.

Step 1: The panels can be installed in contact to one another or leaving a gap and form compositions.

Step 2: Once the desired pattern is decided the positions of the panels on the wall or ceiling should be determined.

Step 3: Then, each piece can be glued with magnetic spray adhesive (ask us for information).

Alternatively, the accessories shown in the figure can be used to attach the panels to the wall or ceiling. The metal elements are manually screwed onto the back side of the panel. The suspension hooks thus inserted into the panel can be anchored to the L-shaped screws attached to the ceiling or wall.

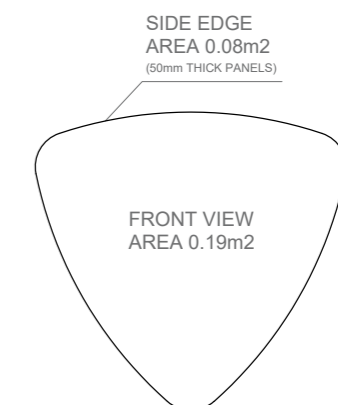


Available sound absorbing area

According to the selected installation method, the available sound absorbing area may be the front, the sides or also the back of the panel.

For the 50mm thick standard Petalo panels the front and back side area are 0.19m² each. The side edges total area is 0.08m². Therefore, if the panels are e.g. attached to a wall at a distance from each other the available sound absorbing area is 0.27m² for each panel.

The maximum sound absorbing area is achieved if all sides of the panel are visible e.g. when hang from the ceiling at a distance from walls or other surfaces.



AcouCell Honeycomb closed cell foam HIGH SOUND ABSORPTION - ROUNDED TRIANGLE FORM

#Petal Wood

Wood face petal shaped panels

AcouCell-Petalo is produced in its plain form and with a variety of faces. Our Wood face line adds a perforated form panel on the front side of the panel, offering a warm, natural aesthetic.

By covering the front surface of the sound-absorbing material with a wooden face with appropriate perforation we present a new look in the warm and natural shades of wood, offering a modern product that meets the particular preferences of customers.

As the wood perforation exceeds 20%, the sound absorption capacity of the underlying material remains unchanged.

Having developed the cutting technology we can create various designs, based on the needs of our customers, depending on the size of the order.

The face material

The wooden face is made of an High-Density-Fiberboard (Masonite - HDF) with a wood appearance lamination.

The wooden panel is perforated to form a pattern that allows the AcouCell material to be partially visible. The sound is transferred to the acoustic material through the perforation to achieve the desired acoustic result.

The wooden panel is also sold separately. It can be attached to the standard Petalo panels using a magnetic spray adhesive to change their appearance.

The perforation patterns

The panels are perforated to form patterns on the wood panel. There is a variety of patterns in our collection in different design styles. The possibilities are limitless.



Petal Bubble



Petal Omni

AcouCell Honeycomb closed cell foam HIGH SOUND ABSORPTION - ROUNDED TRIANGLE FORM

#Petal Felt

Felt face petal shaped panels

AcouCell-Petalo is produced in its plain form and with a variety of felt faces. Our Felt face line (with felt feel) adds a new look on the front side of the panel offering more aesthetic options.

By covering the front surface of the sound-absorbing material with a special sound transparent recycled polyester PET felt, we offer more color options in order to satisfy the special requirements of each project.

The main acoustic core element is a honeycomb foam, with closed cells that are subsequently opened through partial perforation on both sides, which effectively traps sound and reduces the reverberation time, improving vocal clarity.

The face material

The felt face is made of a carefully selected sound transparent felt with a warm appearance.

The felt face is attached on either a dark grey or a white Petalo panel to create a variety of color combinations. It is available in a collection of standard colors.



Petal FM 01

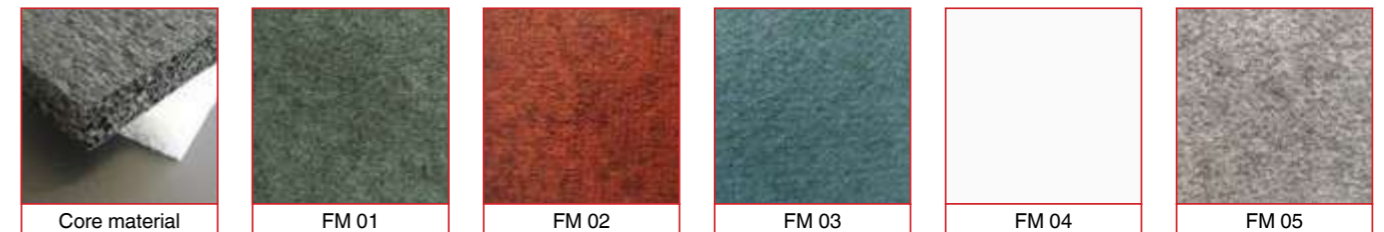


Petal FM 05

The standard color collection

The panels are available in a variety of standard colors. Most colors have a mélange felt appearance. It is possible to choose other color shades of felts, depending on the quantity.

The main colors available are presented below:



Color Matching

Batch to batch variations in shade may occur with commercial tolerances.

Photographic felt scans are not color accurate. Always request actual felt samples, before ordering.

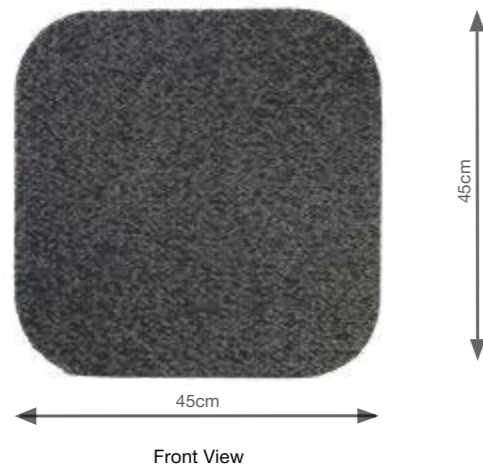
α couCell #Rec

Honeycomb closed cell foam
HIGH SOUND ABSORPTION - RECTANGLE FORM

α couCell-Rec: An innovative acoustic panel for high sound absorption in Rectangle form.

Description

α couCell-Rec is a honeycomb foam, in rectangle and square forms with curved corners. It has closed cells that are subsequently opened through partial perforation on both sides, which effectively traps sound and reduces the reverberation time, improving vocal clarity. Its original external appearance resembles, looked at from a distance, as granite relief surface (some people even simulate it as volcanic).

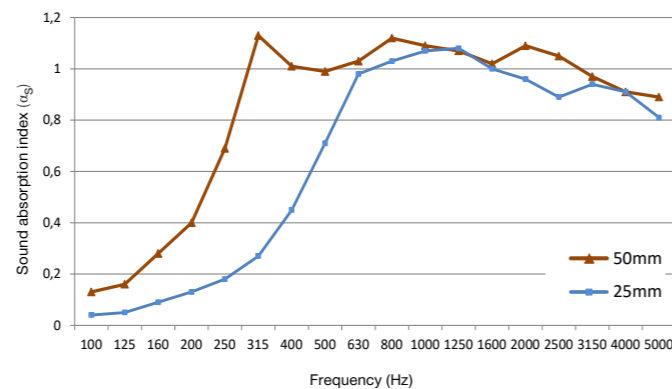


Main characteristics

High sound absorption especially in the mid frequency (human speech), low weight, fiber free, structurally indented, moisture resistant, washable surface, fire retardant.
The acoustic energy enters internally the cells stimulating the membranes of each cell converting this energy to heat.



- Dimensions:** 45 x 45 cm
- Thickness:** 50mm standard
- Color:** Dark grey standard /White on demand
- Packing:** Box of 6 pieces.
- Fire rating:** According to DIN 4102:B1, EN 13501-1 (B, S2 d0)
- Water resistance:** Provides unaltered and sustained acoustic performance in wet or humid conditions.



Acoustic performance

The sound absorption index (α_s) according to ISO 354.2003 per square meter is presented in the diagram on the right. The weighted sound absorption coefficient (α_w) according to ISO 11654.1997 can be found in the following table:

Type:	Weighted Sound Absorption Coefficient (α_w)	Sound Absorption Class
α couCell		
50mm	1	A
25mm	0.50	D

Tested by accredited laboratories.



α couCell-Rec

α couCell #Rec

Honeycomb closed cell foam
HIGH SOUND ABSORPTION - RECTANGLE FORM

Typical applications

α couCell-Rec can be used in a variety of projects even in spaces with high humidity. They can be attached to the wall or ceiling to form patterns.

They are typically installed in home Theaters, Recording & Post Production Studios, Rehearsal Rooms, Conference Rooms, night clubs, bars, offices, meeting rooms, swimming pools, mechanical rooms, restaurants etc.

Bellow you are some panel combination examples on a typical wall:



Installation method

Due to the light weight and its self-supporting structure of the panels it is very easy to be installed on site.

Step 1: The panels can be installed in contact to one another or leaving a gap and form compositions.

Step 2: Once the desired pattern is decided the positions of the panels on the wall or ceiling should be determined.

Step 3: Then, each piece can be glued with magnetic spray adhesive (ask us for information).

Alternatively, the accessories shown in the figure can be used to attach the panels to the wall or ceiling. The metal elements are manually screwed onto the back side of the panel. The suspension hooks thus inserted into the panel can be anchored to the L-shaped screws attached to the ceiling or wall.

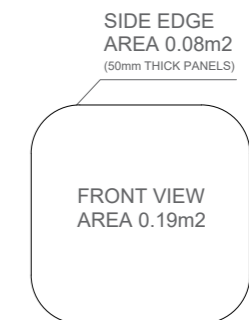


Available sound absorbing area

According to the selected installation method, the available sound absorbing area may be the front, the sides or also the back of the panel.

For the 50mm thick standard Rec panels the front and back side area are 0.19m² each. The side edges total area is 0.08m². Therefore, if the panels are eg attached to a wall at a distance from each other the available sound absorbing area is 0.27m² for each panel.

The maximum sound absorbing area is achieved if all sides of the panel are visible e.g. when hang from the ceiling at a distance from walls or other surfaces.



AcouCell Honeycomb closed cell foam #Rec Wood HIGH SOUND ABSORPTION - RECTANGLE FORM

Wood face rectangle panels

AcouCell-Rec is produced in its plain form and with a variety of faces. Our Wood face line adds a perforated form panel on the front side of the panel, offering a warm, natural aesthetic.

By covering the front surface of the sound-absorbing material with a wooden face with appropriate perforation we present a new look in the warm and natural shades of wood, offering a modern product that meets the particular preferences of customers.

As the wood perforation exceeds 20%, the sound absorption capacity of the underlying material remains unchanged.

Having developed the cutting technology we can create various designs, based on the needs of our customers, depending on the size of the order.

The face material

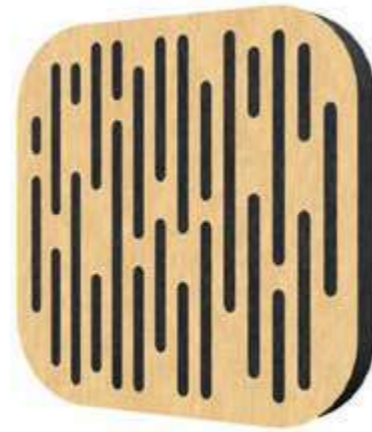
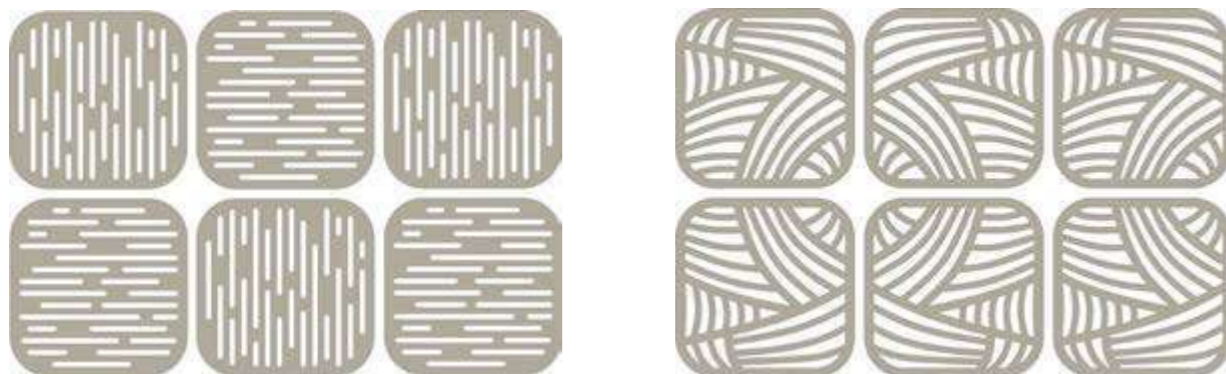
The wooden face is made of an High-Density-Fiberboard (Masonite - HDF) with a wood appearance lamination.

The wooden panel is perforated to form a pattern that allows the AcouCell material to be partially visible. The sound is transferred to the acoustic material through the perforation to achieve the desired acoustic result.

The wooden panel is also sold separately. It can be attached to the standard Rec panels using a magnetic spray adhesive to change their appearance.

The perforation patterns

The panels are perforated to form patterns on the wood panel. There is a variety of patterns in our collection in different design styles. The possibilities are limitless.



Rec Lines



Rec Leaf

AcouCell Honeycomb closed cell foam #Rec Felt HIGH SOUND ABSORPTION - RECTANGLE FORM

Felt face rectangle panels

AcouCell-Rec is produced in its plain form and with a variety of felt faces. Our Felt face line adds a new look on the front side of the panel offering more aesthetic options.

By covering the front surface of the sound-absorbing material with a special sound transparent recycled polyester PET felt, we offer more color options in order to satisfy the special requirements of each project.

The main acoustic core element is a honeycomb foam, with closed cells that are subsequently opened through partial perforation on both sides, which effectively traps sound and reduces the reverberation time, improving vocal clarity.

The face material

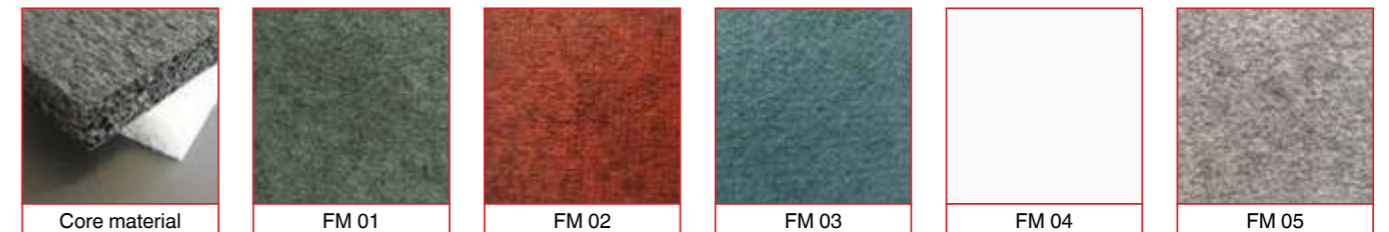
The felt face is made of a carefully selected sound transparent felt with a warm appearance.

The felt face is attached on either a dark grey or a white Rec panel to create a variety of color combinations. It is available in a collection of standard colors.

The standard color collection

The panels are available in a variety of standard colors. Most colors have a mélange felt appearance. It is possible to choose other color shades of felts, depending on the quantity.

The main colors available are presented below:



Color Matching

Batch to batch variations in shade may occur with commercial tolerances.

Photographic felt scans are not color accurate. Always request actual felt samples, before ordering.



Rec FM 01



Rec FM 02

AcouCell #TF

Honeycomb closed cell foam
HIGH SOUND ABSORPTION - TOTAL FABRIC COVERED PANELS

AcouCell-TF: An innovative acoustic panel for high sound absorption, with fabric cover, in a variety of shapes

Description

AcouCell-TF acoustic panels are produced with a Total Fabric covering on all visible front and sides of the basic panel, providing a visually pleasing solution while maintaining the sound absorption capacity of the inner core.

By using sound permeable fabric, you ensure that the panels can effectively absorb sound while offering a seamless and aesthetically pleasing appearance.

The main acoustic core element is a honeycomb foam, with closed cells that are subsequently opened through partial perforation on both sides, which effectively traps sound and reduces the reverberation time, improving vocal clarity.

The panel shapes

AcouCell-TF panels are produced in a range of three basic designs: Hexa, Petalo, and Rec. Each design adds its unique flair and visual appeal, ensuring that customers have options that suit their preferences and style. Moreover, our panels are available in a plethora of captivating color options, allowing customers to select from an extensive range of fabrics.



AcouCell - Hexa.TF



AcouCell - Petalo.TF



AcouCell - Rec.TF



AcouCell - Hexa.TF

The cover material

The fabric cover is made of a carefully selected sound transparent fabric.

The basic fabric type used is ALPHAcoustic-CL.Air Mesh with a 3d mesh look and a variety of colors and offers more options to the basic panel. More options are available upon request such as ALPHAcoustic-CL.CR.

Acoustic characteristics

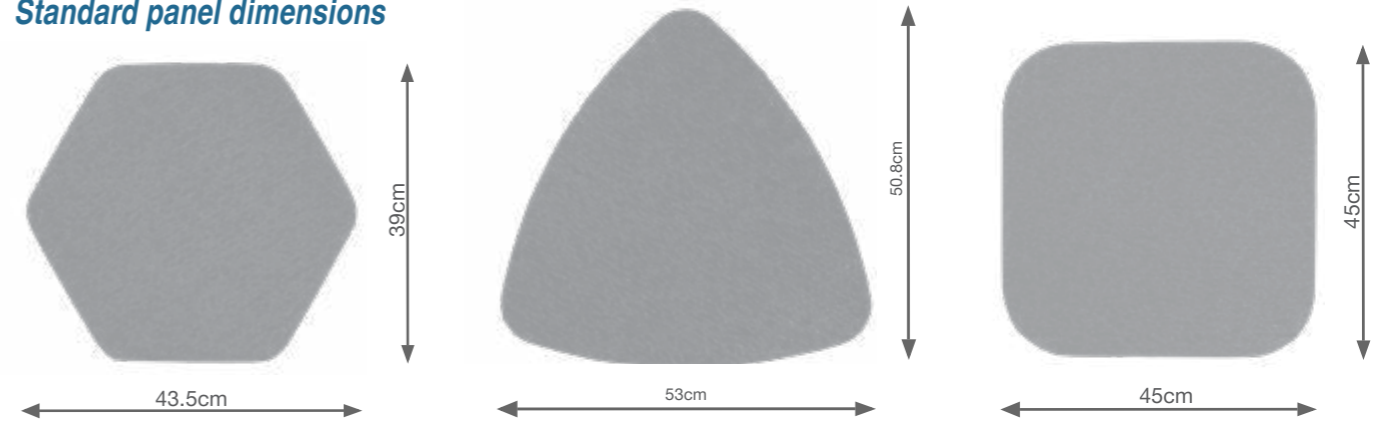
High sound absorption especially in the mid frequency (human speech).

The weighted sound absorption coefficient (according to ISO 11654.1997) is $Q_w=1$ and the Sound Absorption Class is A.

AcouCell #TF

Honeycomb closed cell foam
HIGH SOUND ABSORPTION - TOTAL FABRIC COVERED PANELS

Standard panel dimensions



Standard panel thickness: 58mm

Installation

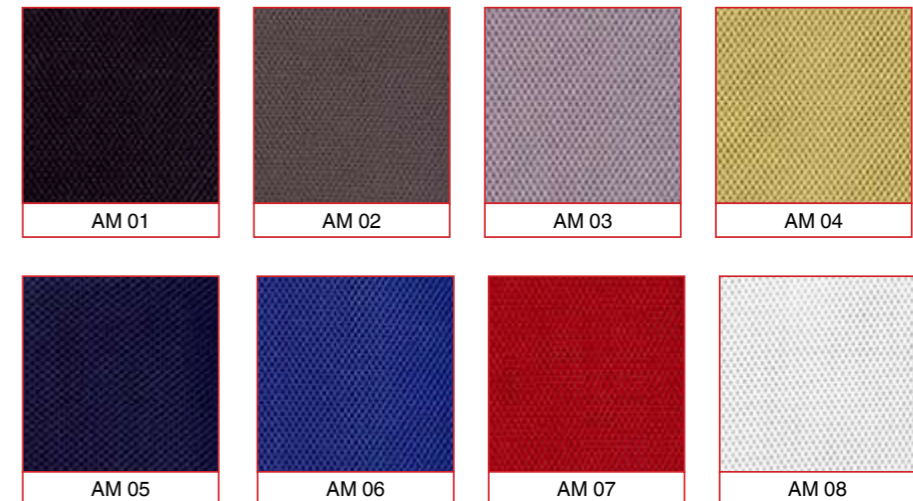
The accessories shown in the figure can be used to attach the panels to the wall or ceiling. The metal elements are manually screwed onto the back side of the panel. The suspension hooks thus inserted into the panel can be anchored to the L-shaped screws attached to the ceiling or wall.



Not included

The standard color collection

The panels are available in a variety of standard fabric colors. The standard fabric option is ALPHAcoustic-CL Type Air Mesh with a 3d mesh appearance fabric. The available colors are presented below:



Color Matching

Batch to batch variations in shade may occur with commercial tolerances.

Photographic fabric scans are not color accurate. Always request actual fabric samples, before ordering.

There is a collection of other fabric options to cover the acoustic panels AcouCell such as ALPHAcoustic-CL.CR. Please refer to our technical department

AcouCell #Votsalo

Honeycomb closed cell foam
HIGH SOUND ABSORPTION - SET OF ORGANIC FORM PANELS

AcouCell-Votsalo: Pebble form acoustic panels set, in curved, organic shapes

Description

AcouCell-Votsalo is a panel made of honeycomb acoustic cell foam. Inspired by the pebbles on the beach (=Votsalo in Greek), we created the curved organic shaped panels. The designed curves, referring to the curved forms that exist in the human body and in nature in general offer a soft, friendly and attractive aesthetic. The panels form different combinations with each other covering large areas while maintaining the high sound absorption of the material.

Each set of pebble form panels consists of 12 unique pieces produced in standard shapes. Due to the malleability of their innovative design they can be adapted to the needs of each project. Utilizing modern cutting technology, we can produce scaled up or down versions of the set of panels upon request.



Acoustic performance

The sound absorption index (α_s) according to ISO 354.2003 per square meter is presented in the diagram on the right. The weighted sound absorption coefficient (α_w) according to ISO 11654.1997 can be found in the following table:

Type: AcouCell	Weighted Sound Absorption Coefficient (α_w)	Sound Absorption Class
50mm	1	A
25mm	0.50	D

Tested by accredited laboratories.



AcouCell-Votsalo

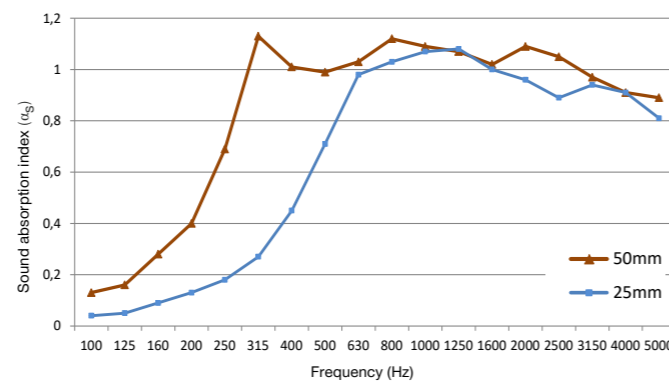
Main characteristics

High sound absorption especially in the mid frequency (human speech), low weight, fiber free, structurally indented, moisture resistant, washable surface, fire retardant.

The set of panels offers the ability to cover large surfaces on walls and ceilings in a composition of your choice. You can create any original composition you can imagine.



- Dimensions:** 2.70X2.70m in their standard composition - panels in contact to one another
- Thickness:** 50mm standard
- Color:** Dark grey and White
- Packing:** 12 pieces of different shapes.
- Fire rating:** According to DIN 4102:B1, EN 13501-1
- Water resistance:** Provides unaltered and sustained acoustic performance in wet or humid conditions.



AcouCell Honeycomb closed cell foam #Votsalo

HIGH SOUND ABSORPTION - SET OF ORGANIC FORM PANELS

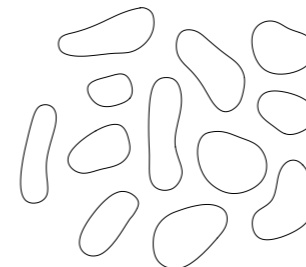
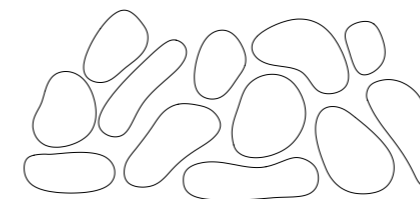
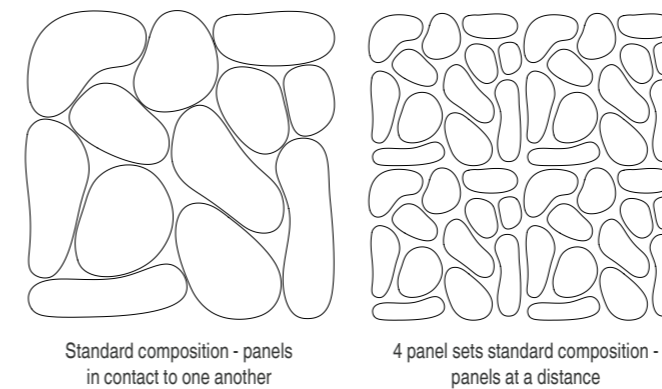
Typical applications

AcouCell-Votsalo can be used in a variety of projects even in spaces with high humidity. They can be attached to the wall or ceiling to form patterns.

They are typically installed in home Theaters, Recording & Post Production Studios, Rehearsal Rooms, Conference Rooms, night clubs, bars, offices, meeting rooms, swimming pools, mechanical rooms, restaurants etc.

They are typically combined as a composition with the pieces filling the available space. The standard composition is designed to be fitted in a square shaped wall area. The free design of the forms of AcouCell-Votsalo enables numerous compositions according to the needs of each application.

Bellow you are some panel combination examples:



Free compositions examples

Installation method

Due to the light weight and its self-supporting structure of the panels it is very easy to be installed on site.

Step 1: The panels can be installed in contact to one another or leaving a gap and form compositions.

Step 2: Once the desired pattern is decided the positions of the panels on the wall or ceiling should be determined.

Step 3: Then, each piece can be glued with magnetic spray adhesive (ask us for information).

Alternatively, the accessories shown in the figure can be used to attach the panels to the wall or ceiling. The metal elements are manually screwed onto the back side of the panel. The suspension hooks thus inserted into the panel can be anchored to the L-shaped screws attached to the ceiling or wall.

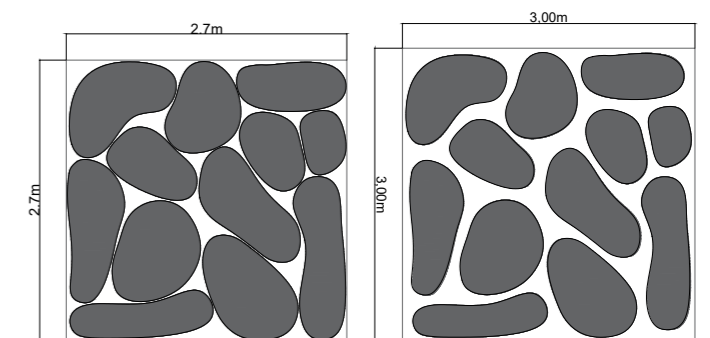


Available sound absorbing area

According to the selected installation method, the available sound absorbing area may be the front, the sides or also the back of the panel.

To ensure greater sound absorption, it would be good, if the forms are spaced from each other, leaving their peripheral surface free to sound reflections. The maximum sound absorbing area is achieved if all sides of the panel are visible eg when hang from the ceiling at a distance from walls or other surfaces. In its standard size, each set of panels has a total front face sound absorbing area of 5,97m².

Standard dimensions



Standard composition - panels in contact to one another

Standard composition - panels at a distance from one another

Note: The information in this brochure does not imply the responsibility of the Company and is subject to change.

ALPHA ACOUSTIKI combines technical experience and scientific knowledge with its Engineering team, specialized in the field of room acoustics since 1980.

In **TUNE** with **YOUR** needs

Our technical department (tech@alphacoustic.com) would be happy to help you find the best acoustic solution for your project.



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