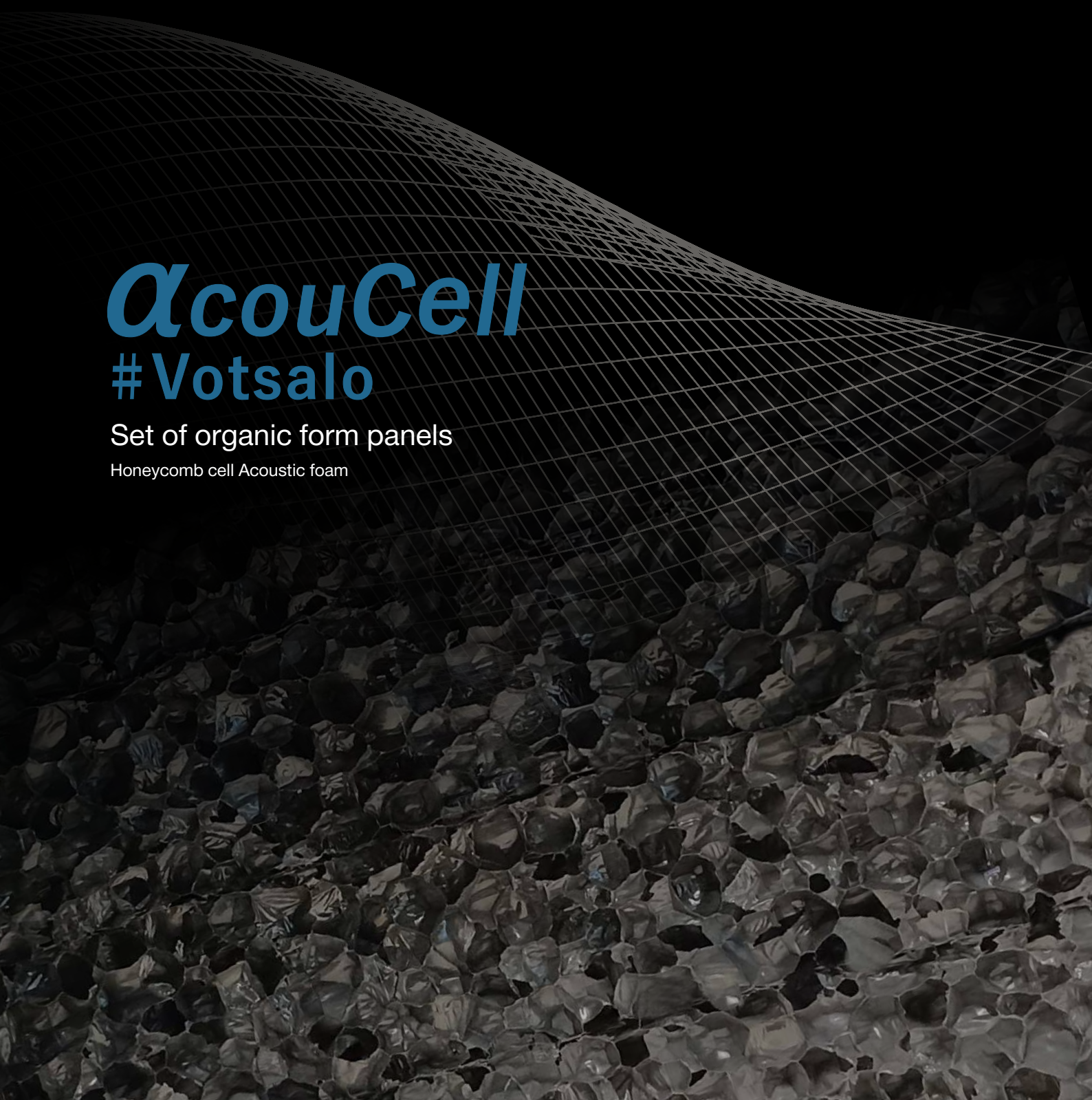
ALPHA ACOUSTIKI
In TUNE with YOUR needs

αcouCell

#Votsalo

Set of organic form panels

Honeycomb cell Acoustic foam



αcouCell
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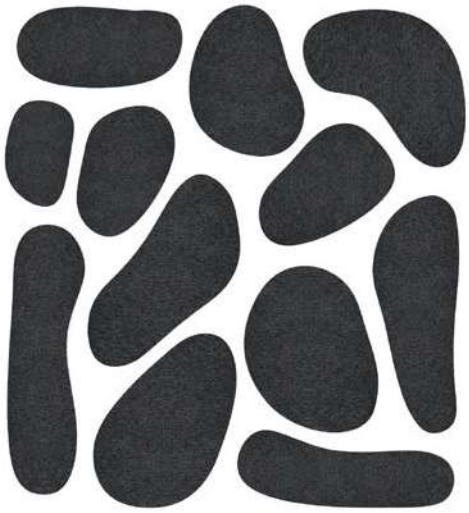
Honeycomb closed cell foam

HIGH SOUND ABSORPTION - SET OF ORGANIC FORM PANELS

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



αcouCell-Votsalo

Description

αcouCell-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, refering 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 maleability 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:

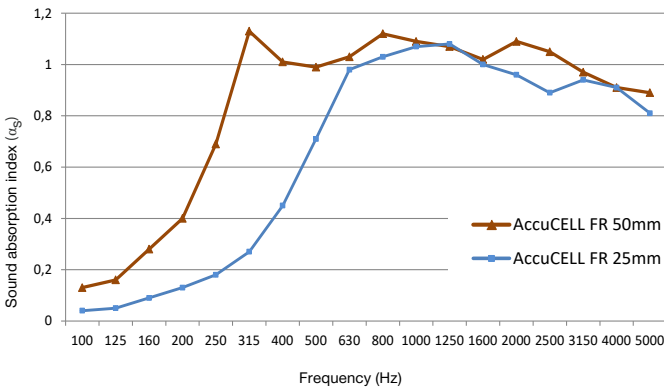
Type: αcouCell	Weighted Sound Absorption Coefficient (α_w)	Sound Absorption Class
50mm	1	A
25mm	0.50	D

Tested by accredited laboratories.

Main characteristics

High sound absorption especially in the mid frequency (human speech), low weight, fiber free, structurally indedent, moisture resistant, washable surface, fire retardant.
The set of pannels 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 #Votsalo

Honeycomb closed cell foam

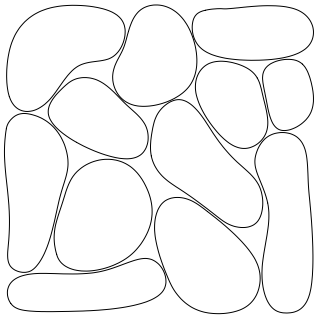
HIGH SOUND ABSORPTION - SET OF ORGANIC FORM PANELS

Typical applications

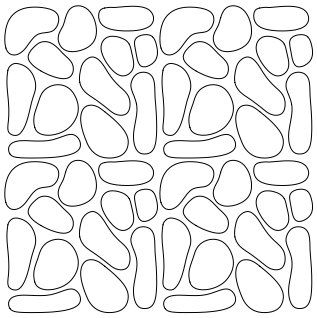
AcouCell-Votsalo can be used in a variety of projects even in spaces with high humidity. They can be attached to the wall or ceiling to form patterns.

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

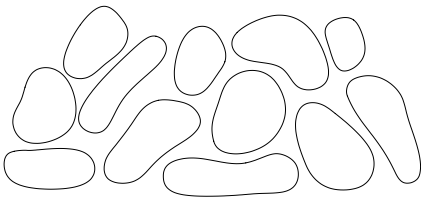
They are typically combined as a composition with the pieces filling the available space. The standard composition is designed to be fitted in a square shaped wall area. The free design of the forms of AcouCell -Votsalo enables numerous compositions according to the needs of each application.

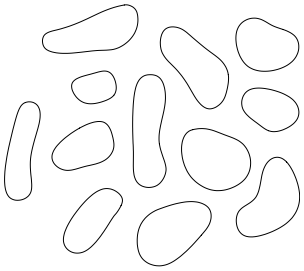


Standard composition - panels in contact to one another



4 panel sets standard composition - panels at a distance





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 leaving a gap between one another 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) or using mechanical fastening with suitable plastic anchors.

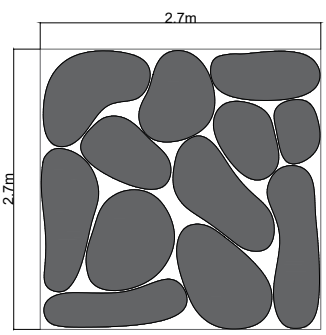
Alternatively, the following accessories can be used to hang the panels from the wall or ceiling. They are screwed in the panel by hand and form a hook for suspention.

Available sound absorbing area

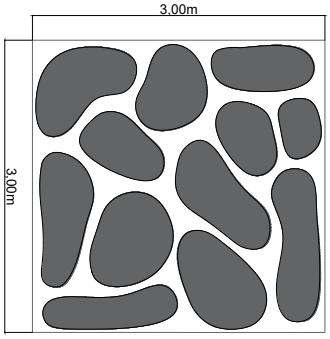
According to the selected installation method, the available sound absorbing area may be the front, the sides or also the back of the panel.

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

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HIGH SOUND ABSORPTION - SET OF ORGANIC FORM PANELS

Fabric face organic form panels

αcouCell-Votsalo is produced in its plain form and with a variety of fabric faces. Our Fabric 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 fabric, we offer more color options in order to satisfy the special requirements of each project.

The selection of the fabrics was actualised considering their acoustic transparency in order for the core material's acoustic performance to remain unchanged.

Votsalo FM 01

The face material

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

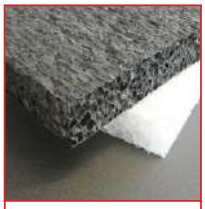
The fabric face is attached on either a dark grey or a white Votsalo panel to create a variety of color combinations. It is available in a collection of standaerd colors.

Votsalo 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 fabrics, depending on the quantity.

The main colors available are presented below:



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

ALPHA ACOUSTIKI S.A. 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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