Acoustics & Lighting

ALPHAcoustic-AB.Fos

VERTICAL ACOUSTIC BAFFLES WITH LIGHT

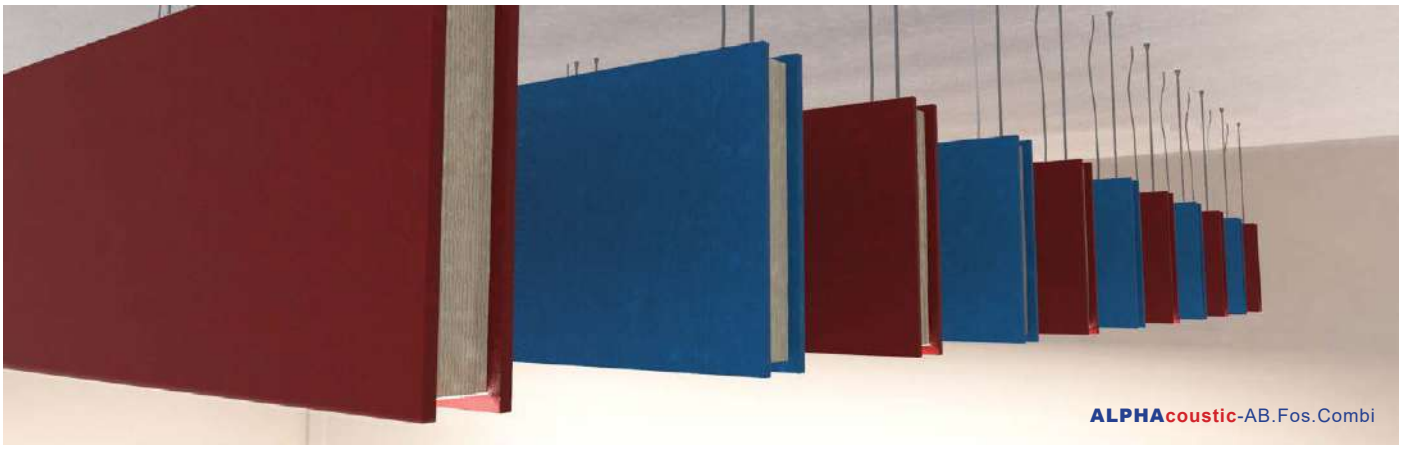
ALPHA ACOUSTIKI

In TUNE with YOUR needs

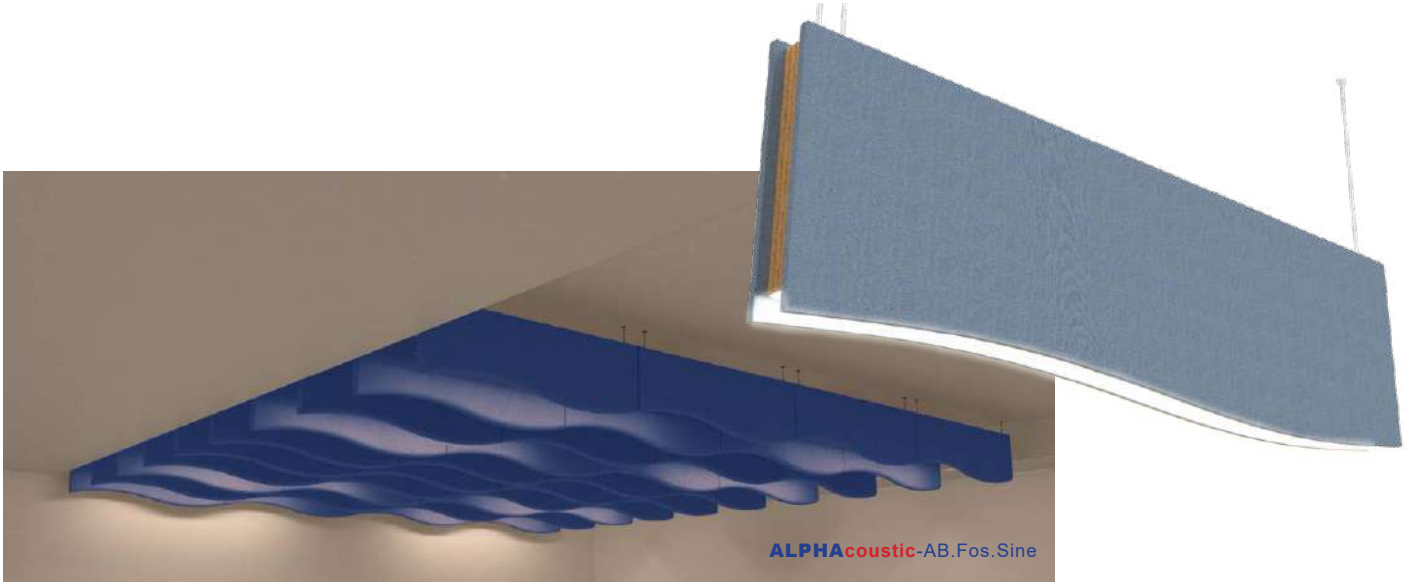
DESCRIPTION

ALPHAcoustic-AB.Fos is a new series of acoustic panels that combines acoustics with lighting. It is named after the Greek word "ΦΩΣ" which means light. They are vertically hung acoustic baffles with a fabric finish that include a linear lighting system for direct and indirect lighting. They are designed not only to provide excellent acoustics, but to give complete acoustic and lighting solutions. Thanks to the two highly absorbing sides of the baffle, they offer reduction of disturbing noise reflections, improving interior acoustics, reducing reverberated noise, offering an overall better acoustic environment.

They are produced in three types offering different aesthetic options:
AB.Fos.Combi: acoustic baffles in layered design with combined materials
AB.Fos.Box, minimalistic, monochromatic, simple rectangular design
AB.Fos.Sine, curved form baffles in layered designed with combined materials


ALPHAcoustic-AB.Fos.Combi

ALPHAcoustic-AB.Fos.Box


ALPHAcoustic-AB.Fos.Sine

ACOUSTIC CHARACTERISTICS

ALPHAcoustic-Fos is designed to achieve high sound absorption. Our team of acoustic engineers can assist you in choosing the acoustic baffles with the most adequate sound absorption index for your project according to ISO 354.2003 and ISO 11654.1997.
Indicative sound absorption coefficient (α_N) for baffles with dimensions 1200x600x80 mm with 600 mm spacing can be found in the following table (where α_N is the equivalent sound absorption surface per object).

Type: ALPHAcoustic-Fos 1200x600x80mm	*Frequency (Hz)*					
	125	*250*	*500*	*1000*	*2000*	*4000*
Sound Absorption Coefficient (α_N)	0.2	0.43	0.98	1.4	1.4	1.3

Depending on the requirements of each application and in order to achieve sound absorption in a wide range of frequencies, a combination of different sound absorbing materials can be applied. An acoustic study is recommended to determine the required quantity and layout of acoustic baffles.

APPLICATIONS

ALPHAcoustic-Fos baffles are designed to combine a lighting and acoustic solution in one object offering an improved environment in a variety of indoor spaces. They are typically combined with simple baffles without lighting produced with the same design.

Typical applications:

- Reception areas
- Offices
- Restaurants
- Waiting rooms
- Classrooms
- Teleconference Rooms

The acoustic baffles **ALPHAcoustic**-Fos can be produced in different shapes, dimensions and thickness and other lighting characteristics upon request.

TECHNICAL CHARACTERISTICS

ALPHAcoustic-AB.Fos are designed to offer indoor lighting conditions without distrurbing reflections. The continuous-row system is illuminated uniformly from beginning to end, is economically efficient, is maintenance-free and it has long service life. The baffle layout offers an acoustic solution with no odstruction to the ai-conditioning and ventilation system installed on the ceiling.

Standard dimentions:
AB.Fos.Combi: 1,17mX40cmX58mm
AB.Fos.Box: 1,15mX40cmX36mm
AB.Fos.Sine: 1,17mX40cmX58mm

Other dimentions available upon request

LIGHT CHARACTERISTICS:
Standard length: 114cm - 2639 lumen output
CRi 80 and optionally 90
CCT: 3000K/4000K/2700K/6500K
Diffuser: Opal/ Micro Prismatic Opal/ Black diffuser
Driver: ON/OFF or dimable

Light positioned at the bottom of the panel or the top of the panel or both (for direct or indirect lighting).

ALPHA ACOUSTIKI in collaboration with lighting industry pioneers provides customization of the lighting system offering products to improve both lighting and acoustic conditions.

INTERNAL ACOUSTIC CORE

Aiming to achieve optimal sound absorption coefficient while taking into consideration environmental factors, we offer a selection of various types of acoustic materials that can be used inside our acoustic panels.

Internal acoustic core materials:

FIBRANgeo®	- Stonewool insulation slabs
Ultracoustic®	- Mineral wool with Ecose® technology
BASOTECH®	- Flexible open cell foam melamine resin
iZiFON®	- Polyester fiber slabs
ISOLFON® PU	- Flexible polyurethane foam
Stratocell® Whisper®	- Hydrophobic polyethylene foam

This way we can achieve maximum sound absorption at a specific acoustic range band. Upon request we can help you determine the sound absorption index (α_s) according to ISO 354.2003, the practical sound absorption coefficient (α_p), and weighted sound absorption coefficient (α_p) according to ISO 11654.1997 that is needed for your specific project.

EXTERNAL FABRIC COVERING

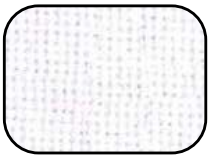
ALPHAcoustic-AB.Fos baffles are available with different external covering, depending on the aesthetics of each project. All the acoustic fabrics have high endurance and excellent quality. They are available in a variety of colours. Self extinguished fabrics are available *(Flamability test EN13501-1 Class B, s2, d0)*.

FABRIC SELECTION

ALPHAcoustic-CL Type:CR

The special sound transparent fabric ALPHAcoustic CL Type CR is used for external covering of the acoustic panels. Due to their increased sound transmisability, the sound absorption capabilities of the internal material are not affected.

Weight	220g/m2 +_ 5% (375g/lin.m. +-5%)
Width	170cm +_ 2% Usable
Abrasion Resistance	Grade A tested in accordance with EN 14465:2003 with a 5 year guarantee of wearability (full details availabe)
Flammability	BS 476 Part 7 Class 1, BS EN 1021 - 1:2006 (cigarette) Note: Flammability performance is dependent on components used.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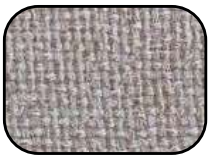
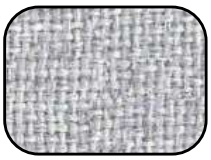
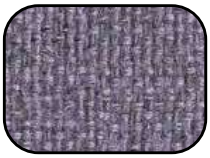
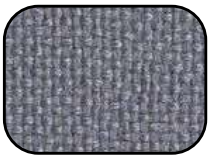

Clan EJ169

Austen EJ173

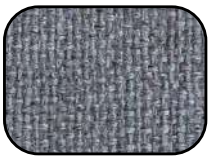
Beltane EJ193


Glass EJ004


Denny EJ196


Chaucer EJ172

Shertland EJ191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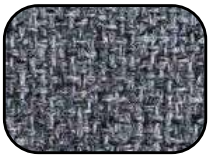
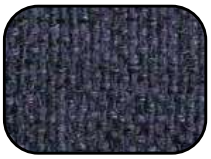
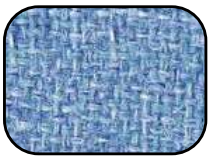
Portland EJ016


Lead EJ104


Easdale EJ188

Merrick EJ048

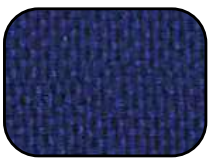

Dolphin EJ105

Inverness EJ175

Ronay EJ189

Galilee EJ125

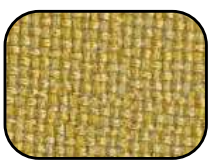
Cluanie EJ180


Adriatic EJ154

Walten EJ011

Tummel EJ038

Pitlochry EJ076


Maree EJ195

Fair Isle EJ186

Staffa EJ185

Carron EJ015

Lora EJ187

Black EJ138

Lerwick EJ194

Lossie EJ197

FABRIC SELECTION

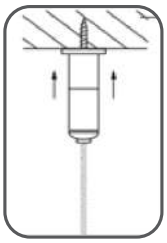
ALPHAcoustic-CL Type:WF Wool Fabric

Composition	70% WO - 20% PL - 5% PA - 5% PC
Weight	320gr/m^2
Width	145cm
Flammability	Cigarette Test (EN 1021-1) (BS 5852 ign. 0) - Pass Match Test (EN 1021-2) (BS 5852 ign. 1) - Pass IMO Test (A.652/16 - upholstery) - Pass

Maintenance
Vacuum regularly. Wipe clean with a damp cloth or shampoo using proprietary upholstery shampoo.

INSTALLATION

Acoustic Vertical Baffles **ALPHAcoustic**-AB.Fos can be easily hung from the ceiling with a two-point hanging system at the top of the panel. They are equipped with all the necessary electrical installation to be easily supplied with electricity.



ALPHAcoustic – HS: Vertical hangers with stainless steel wire and height adjustable roof suspension mechanism.

ORDER DATA

For better matching our client's needs, we kindly ask to specify through your order the characteristics of the acoustic panels.

Type: ALPHAcoustic - .....

Dimensions: (LxH)..... x ..... mm

Thickness: ..... mm

Internal Core Acoustic Material: .....

External Fabric Covering:

	Lateral Sides	Perimetral Strip
Type		
Code		

Additional Acoustic Options : .....

Lighting order Data

-Lighting position: Top, Bottom

-Body color: White, Black.

-Power cord color: W, B.

-CRI: 80,90

-CCT: 3000K,4000K.

-UGR: 22

-Output : ……Lm/m, ……Lm/W.

-Driver: On/Off, Dali, Bluetooth.

Additional Lighting Options: ……

Other technical lighting selections upon request

ALPHAcoustic-AB.Fos.Combi

ALPHAcoustic-AB.Fos.Box

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ALPHA ACOUSTIKI

In TUNE with YOUR needs

ALPHA ACOUSTIKI S.A. combines technical experience and scientific knowledge of its Engineers which are specialized in the field of room acoustics since 1980.

We create workplaces in which people choose to work, tailored to the specific requirements of each job, with particular attention to the ACOUSTIC & LIGHTING necessities of the employee.

DESIGNING FOR WELL-BEING

The concept designed of ALPHAcoustic products puts in practice all fundamentals of well-being and sustainability.

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

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Recyclable

*Design and Production according to Quality Management System **ISO 9001.2008** & Environmental Management System **ISO 14001.2004***