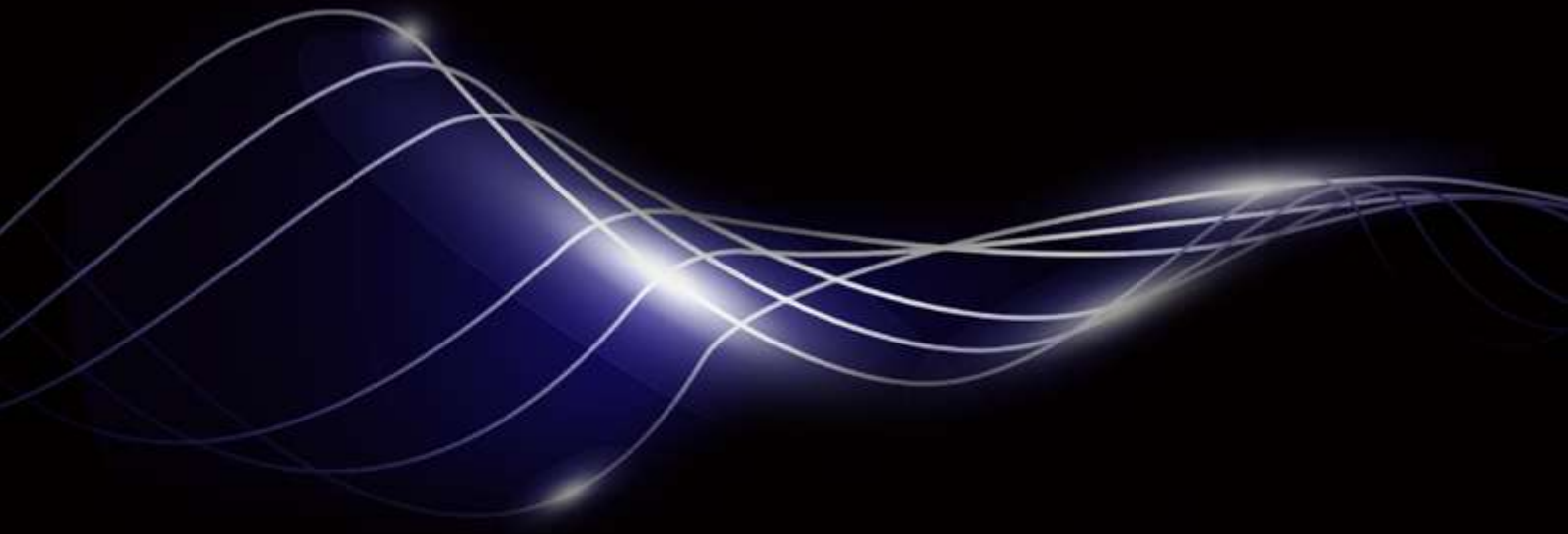
POLYFON

HEXA

Acoustic Foam panel with Hexagon Form



ALPHA ACOUSTIKI

POLYFON - Hexa

Acoustic Foam panel with Hexagon Form

POLYFON-Hexa : An innovative broadband acoustic foam panel, with hexagon form and high Sound Absorption characteristics. It absorbs the sound energy and reduces the Reverberation time.

POLYFON-Hexa

Description

POLYFON-Hexa can be used in halls, in order to improve acoustic properties and reverberation time, thus assisting in reducing unwanted reflections, flutter echo and standing waves. It can improve the acoustic quality, prevent the room modes and increase the clarity. It contributes to a unique and modern appearance in the room. Installation on the wall can be easily done with adequate glue.

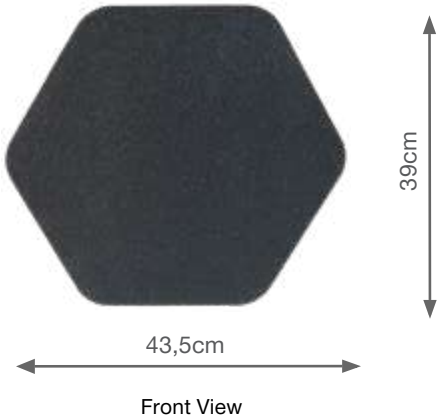
POLYFON-Hexa is a flexible foam panel, made of polyurethane, with semiclosed cells and a hexagon design, that effectively absorbs sound energy and reduces reverberation time. The acoustic energy is dissipated as heat in the foam cells. Appropriate advanced technological cutting machine is used in order to cut foam in a wide range of dimensions and thicknesses.

For the 50mm thick standard hexa panels the front and back side area are 0.13m^2 each. The side edges total area is 0.065m^2.

Thickness (Max):	50 mm
Dimensions:	43,5 X 39 cm (other thicknesses and dimensions upon request).
Color:	Dark Grey / Anthracite.
Fire Resistance:	SE (MVSS 302) Self-extinguishing.
Characteristics:	High sound absorption foam, uniform porous structure. Reduces excess sound reflection, Reverberation time, improving vocal clarity.

Typical applications:

Home Theatres, Recording & Post Production Studios, Rehearsal Rooms, Conference Rooms, night clubs, offices, meeting rooms etc.



Front View

Acoustic characteristics

Type	Sound Absorption Coefficient (α_p) *Frequency (Hz)*						Weighted Sound Absorpion Coefficient (α_w)	Sound Absorption Class
	125	*250*	*500*	*1000*	*2000*	*4000*		
POLYFON-Hexa.50	0.2	0.4	0.7	0.9	1	1	0.9	A

Sound absorption coefficient αp per square meter, according to ISO 11654:1997.

POLYFON - Hexa.Wood

Acoustic Foam panel with Hexagon Form - Wood face

Wooden face hexagon panels

POLYFON-Hexa is produced in its plain for 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.

POLYFON-Hexa Wood

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 transfered 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 wood perforation patterns

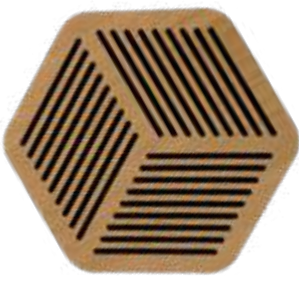
The panels are perforated to form patterns on the wood panel. There is a variety of patterns in our collection in different design styles. The possibilities are limitless. It is possible to microperforate the panel in order to achieve a plain wood effect without compromising the acoustic performance of the panel.

The main perforation patterns are presented below:

Hexa Maze

Hexa Bubble

Hexa Jali



Hexa Qube

POLYFON - Hexa.Felt

Acoustic Foam panel with Hexagon Form - Felt face

Felt face hexagon panels

POLYFON-Hexa is produced in its plain form and with a variety of fabric faces. Our Fabric 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 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.

POLYFON-Hexa fabric

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 the grey Hexa panel to create a variety of colour combinations. It is available in a collection of standaerd colours.

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

The standard color collection

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

The main colors available are presented below:

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.

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