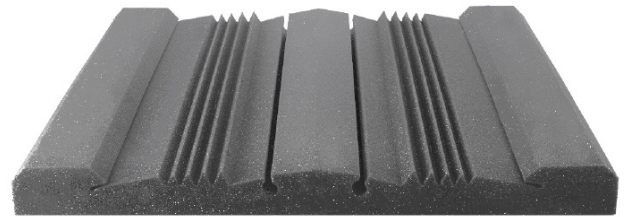


POLYFON S

Acoustic Slab

ABSORPTION
& DIFFUSION PROPERTIES



POLYFON-S : An innovative broadband acoustic slab that combines Sound Absorption & Diffusion characteristics.

It consists of the POLYFON-S Base and the Diffuser Membrane (DM).

Description

POLYFON-S can be used in halls, in order to improve acoustics 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. POLYFON-S contributes in offering a unique and modern appearance, in the room.

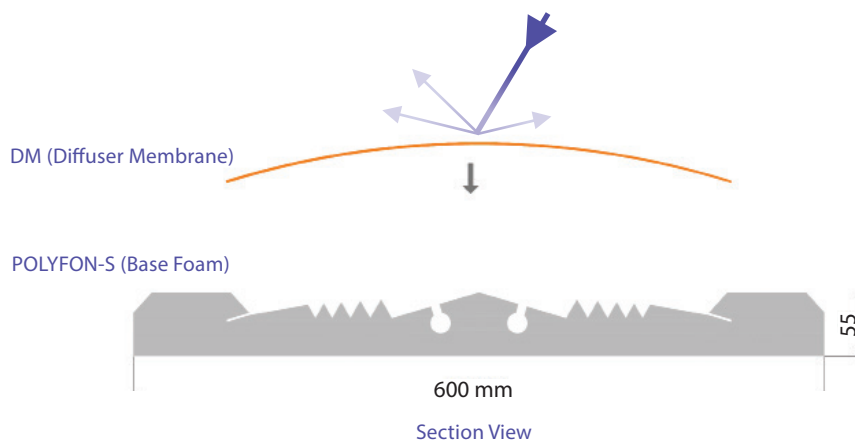
The DM element can be altered to suit any aesthetic requirement. Any artwork or high resolution picture can be printed on it's surface, in order to suit its aesthetic surroundings.

Installation on the wall, can be easily done with a staple gun or adequate glue.

- The DM part is a flexible Diffuser Membrane, with a smooth radius, which creates a 2D deflector, that effectively spreads high frequency reflections. A 3D acoustic diffusion is achieved, when the POLYfon-S panels are installed in 2 perpendiculars directions. Additionally the DM improves the low frequency absorption coefficient, it acts as a sound absorption membrane. The DM element can be either acrylic, plywood, HPL "formica" or others radius membranes.

It can be easily removed from the two lateral channels, which keep the membrane in tension. The polyurethane foam has self extinguishing characteristics, according to FMVSS 302.

Dimensions: 600x600x55 mm



Type POLYFON-S.55	Sound Absorption Coefficient (α_p)						Weighted Sound Absorption Coefficient (α_w)	Sound Absorption Class
	Frequency (Hz)							
	125	250	500	1000	2000	4000		
Foam Base with DM Insert	0.4	0.7	0.8	0.6	0.5	0.5	0.6 (L)	C
Base foam only	0.2	0.4	0.7	0.9	1	1	0.9	A

Sound absorption coefficients α_p , according to ISO 11654:1997.

POLYFON **S**

Typical applications:

Home Theatres, Recording & Post Production Studios,
Rehearsal Rooms, Conference Rooms, etc.



POLYFON-S with Diffuser Membrane insert

POLYFON-S Base, is polyurethane, flexible foam slab, with a sculpted design, that effectively absorbs the sound energy and reduce the reverberation time.

The addition of cavities (like Helmholtz resonators) offers maximum sound absorption efficiency. The acoustic energy is dissipated as heat in the foam cells.

