

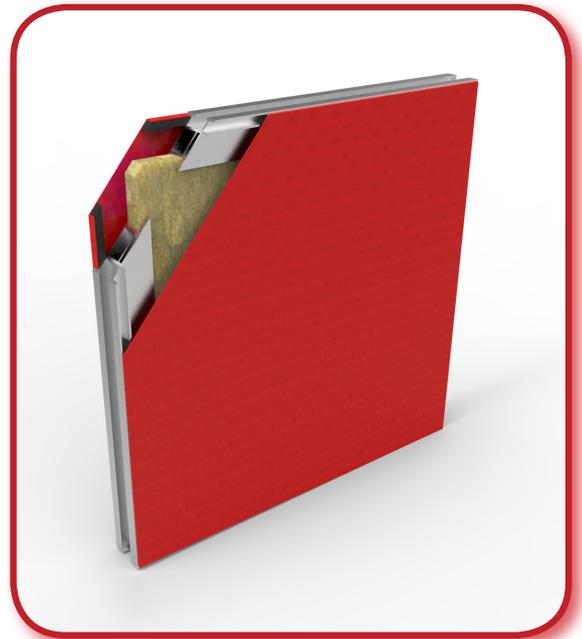
ALPHAacoustic FRAME

ALUUMINIUM FRAME ACOUSTIC PANEL

MAIN CHARACTERISTICS

ALPHAacoustic Frame has the main key features below:

- High sound absorption
- Acoustically transparent textile custom made by size and images
- Ability of creating large dimension frames
- Printable fabric on one or both sides with very high printing resolution
- Materials used are fire rated (for public use)
- Possibility to combine different acoustic materials in order to cover a wide range of sound absorption coefficient
- Panels are light and foldable. Easy to ship



APPLICATIONS

Typical applications:

Schools, gymnasiums, classrooms, auditoriums, recording studios, call centers, concert halls, exhibition halls, conference rooms, home theatres, offices, airports etc.

They can be used on the sidewalls of the room, at the corners (like basstraps), flat on the ceiling, or hanged perpendicularly from the ceiling (baffles)

DESCRIPTION

ALPHAacoustic Frame combines full-colour high resolution digital painting on acoustic textile with best quality sound absorption materials to create a product that can reduce reverberant noise within a space.

Depending on the special needs of each application, their colour, motif, printed image, or dimensions, can be modified.

Internal sound absorption material

Glasswool, rockwool, polyester fiber (iZifon), sheepwool, or other material combination based on our expanded database. The selection of internal sound absorption material comes from a variety of sound absorption measurements which we have carried out in a reverberation chamber, according to ISO 354.

Frame material

- Special demountable aluminium extruded profile.

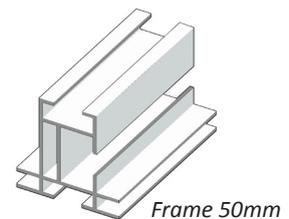
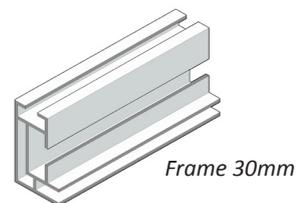
There are two different types of aluminium profile:

30mm for single lining

50mm for double lining

All the necessary ancillaries are included in the package (angular connections, suspension mechanism etc.)

Frame aluminium profiles



Covering Surface

- One or both sides of the frame (panel or baffle) can be covered with acoustic transparent textile with fire rating requirements. Depending on the choice of the fabric it can also be printed in any colour or image, offering a unique customized interior design.
- Option to choose between our standard acoustic textile or a sophisticated look using an individual high resolution printed design, on an advanced technology textile.

ACOUSTICAL PERFORMANCE

ALPHA^{acoustic} Frame is specifically designed to achieve maximum sound absorption at wide acoustic frequency range band. Upon request we can determine the sound absorption index according to ISO 354.2008 for most types of our acoustic panels. Indicative sound absorption indexes (α_s) can be found in the following table for the most frequently used rockwool slab acoustic materials:

SOUND ABSORPTION INDEX (α_s)

Type \ Frequency (Hz)	125	250	500	1000	2000	4000
ALPHA^{acoustic} Frame 30.R	0.08	0.34	0.73	1.02	1.00	1.00
ALPHA^{acoustic} Frame 50.R	0.19	0.71	1.01	1.10	1.03	1.00

Depending on the requirements of each application and in order to achieve wide range frequency absorption a combination of different sound absorptive materials can be applied.

FIRE PERFORMANCE

Frame : The whole frame is constructed by extruded aluminium, that can be considered as incombustible.

Sound absorbing materials : The sound-absorbing materials are fire resistant or self-extinguishing.

Acoustic Fabric : The special acoustic textile used has flame retardant characteristics.

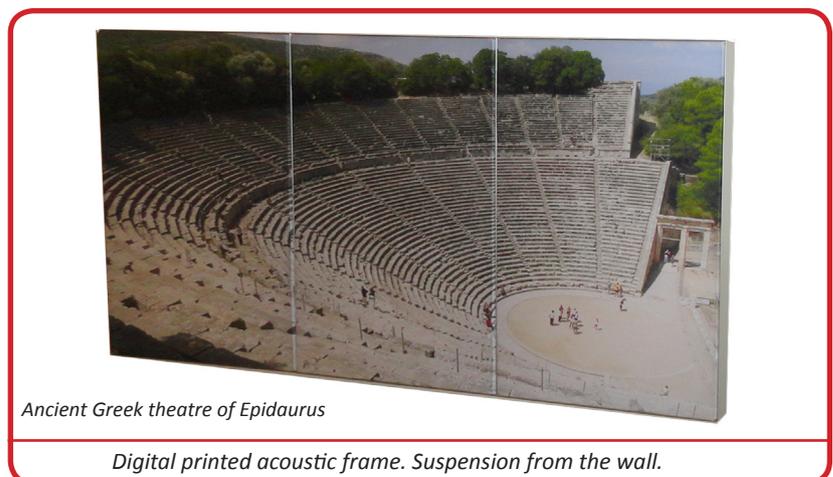
ACOUSTIC FABRIC

The fabrics are cutting in exact required dimensions and sewn with a special rubber profile in every edge. The rubber profile with the fabric are introduced in the appropriate notch of the aluminium frame. This way, the fabric is kept stretched.

INSTALLATION

ALPHA^{acoustic} Frame is delivered in adequate carton box loose. All the packages contain detailed assembly instructions which make the process user friendly. It can be placed on walls or ceilings as acoustic panels and also can be hanged perpendicularly from the ceiling when applied as baffles (covered on both sides with fabric), with adequate suspension mechanism.

Moreover they can be used as movable self-standing acoustic panels seating on aluminium brackets.



Design and Production according to Quality Assurance System which complies with ISO 9001.2008.