

# Photocoustic

## Picture Perfect Acoustic Absorption



www.aet.gb.com

These decorative acoustic panels are covered with digitally printed fabric to produce stunning quality pictures or art that is effective at reducing the reverberation or echo problem for the area of which they are installed. Used in areas of high aesthetic need in place of a plain wallcoustic panel, they add pleasing to the eye acoustic absorption to board rooms, meeting rooms, open plan offices, restaurants and reception areas. The digitally printed fabric covers the same high density fibreglass acoustic core used in construction of the wallcoustic panels, meaning there is no compromise in performance for the extra aesthetic gain.



Photocoustic panels have a digitally printed fabric face which covers the highly absorbent rigid fibreglass core. The prints can be images supplied by you. We can source them for you, or you can chose from a commercial image library. Customers often Prefer to have corporate images, such as logos or landscape of owned building. Art can also be incorporated into your acoustic absorption panels, so the image you want on your wall can now improve the acoustic of the room too.

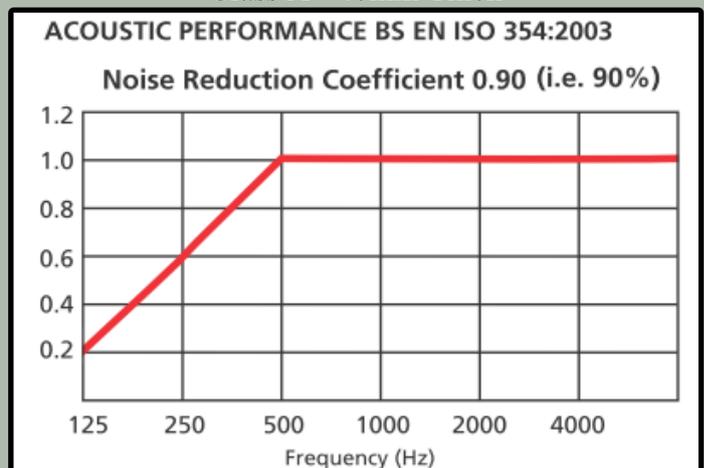
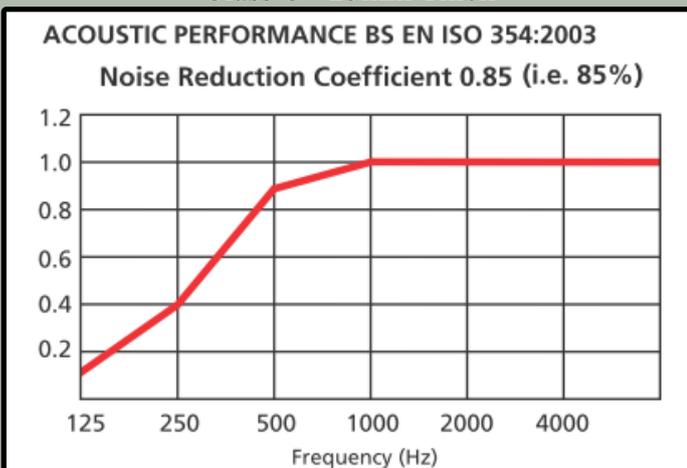
### Why acoustic absorption?

Acoustic absorption is added to rooms with a high reverberation time, often caused by large hard surfaces such as uncarpeted floors, hard surface ceilings and large reflective walls. This high reverberation time keeps the sound energy within the room, instead of it dissipating as normal. This causes problems understanding speech, or in extreme cases echo's when talking. Photocoustic panels absorb sound energy, so when you install them onto a acoustically reflective surface you reduce the reflective surface area and replace it with acoustic absorption.



Class C - 25mm Thick

Class A - 40mm Thick



# TYPE C: PHOTOCOUSTIC- SHADOW JOINT PANEL



This panel has no visible fixing sections on any of the four sides of the panel. The panel has internal reinforced edges on all sides with the fabric bonded to the face and wrapped on all four sides. This results in a beautiful individual panel which can be used in single units or joined together to other panels or with shadow gaps as a design feature.

### NOMINAL DIMENSIONS

Standard sizes: 1200 x 900mm, 1200 x 1200mm, 1200 x 1500mm, 1200 x 1800mm, 1200 x 2100mm, 1200 x 2400mm, 1200 x 2700mm.

Panel thickness: 25mm or 40mm

Custom size panels made to customers requirements are available.

*Please state the height and width dimensions of each panel when ordering. e.g. 1050mm wide x 1710mm high. The fabric has a directional weave, hence we must be notified of the height and the width of each panel.*

### INSTALLATION TO WALLS

The acoustic panels are installed using impaling clips and Glue contact spray adhesive. This method allows the panels to be fixed direct to concrete, brickwork, wood, plaster, or metal. A site installation guide is sent with each delivery.

The backing wall, to which the Photocoustic acoustic panels are to be fixed, must have a continuous solid backing wall surface which must be flat and level.

The AET Impaling clips have 4mm diameter holes to take pan head screws. Using appropriate screws and plugs, etc. depending on your wall substrate. Fix the correct number of impaling clips needed to the size of the panel. The larger the panel, the greater the number of impaling clips. A guide is given below. Keep impaling clips about 300mm in from the perimeter edges of the panel.

Lightly mark the panel location on the desired wall area. Fix the appropriate number of impaling clips using the appropriate screw fixings. Caution: do not place hands, fingers or other parts of your body in front of impaling clips.

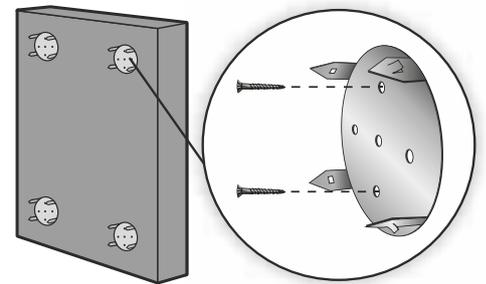
The wall must be clean, dry and free from loose paint or plaster, dust, oils, grease, etc. Wallpaper should be removed, gloss paint roughened and emulsion paint brushed with stiff brush to ensure it is firm. On absorbent surfaces an initial priming coat of Glue spray adhesive may be necessary.

Screw fix the appropriate number of impaling clips to the wall. Spray the Contact Adhesive on the back of the panel and also on the designated wall area (including the fixed impaling clips). Apply the adhesive vertically on the panel and horizontally on the wall area. Allow adhesive to dry for approximately 2 to 5 minutes at 23°C.

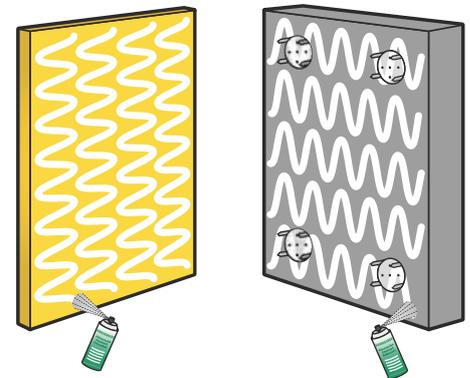
Then carefully push the panel onto the marked wall enabling the impaling clips to bite into the rear of the panel and press firmly all over the panel to ensure that glue contact has been made over all of the panel.

There are different depths of impaling clips for 25mm thick panels and for 40mm panels. You will be supplied with the appropriate depth impaling clips according to the thickness of your panel order.

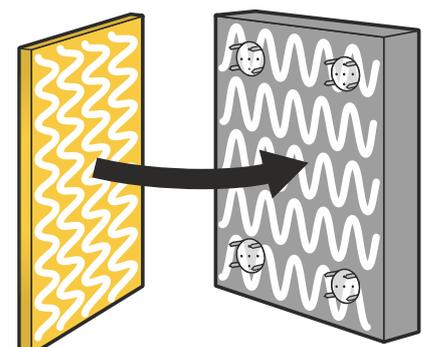
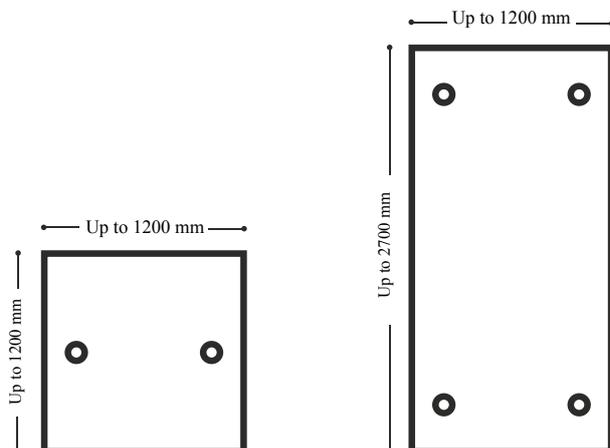
Ceilings: Panels greater than 1200 x 600mm should not be fixed to ceilings



Fix Impaling clips' to the wall.



Spray wall and surface of photocoustic panel with Contact Spray Adhesive.



Push photocoustic panel on to wall and Impaling clips' and press firmly.

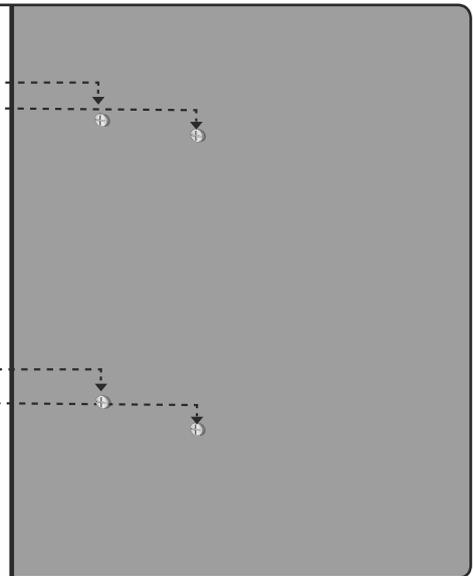
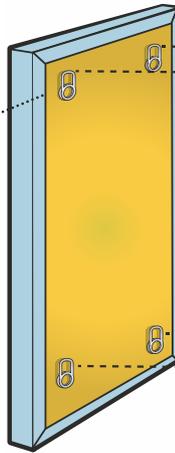
Every endeavour has been made to ensure that the information given herein is true and reliable but is given only for guidance. The company cannot accept any responsibility for loss or damage that may result from the use of the information, due to the possibility of variations of processing or working conditions and of workmanship outside our control. Users are advised to confirm the suitability by their own tests. All panels are manufactured to our standard dimensional size tolerances of +/- 3.0mm.

# TYPE C: WALLCOUSTIC - SHADOW JOINT PANEL

## TYPE C - ALTERNATIVE FIXING METHODS

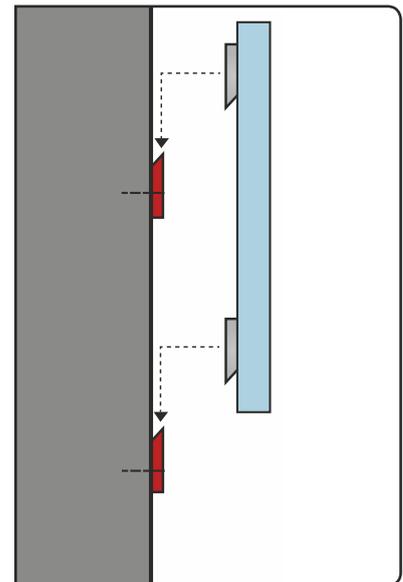
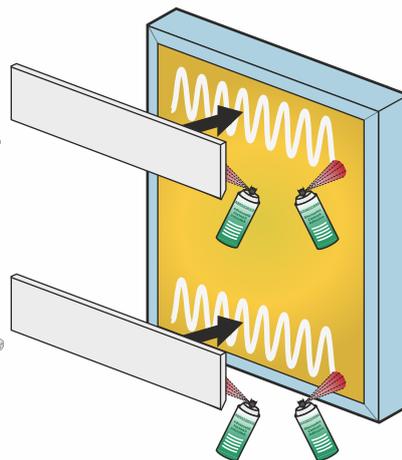
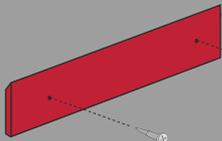
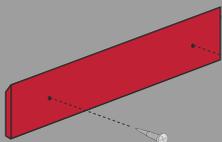
For all Type C Photocoustic panels, we recommend the application of Contact Adhesive as the primary means of installation to walls to maximise acoustic insulation properties. However, in circumstances where Contact Adhesive is not a viable option, below are 3 alternative means of install to consider when choosing Photocoustic Type C panels. Please carry out your own tests by installing a trial panel before proceeding with the full installation to ensure that the installation is satisfactory for your application.

### 1. SPIRAL HOOK FIXING



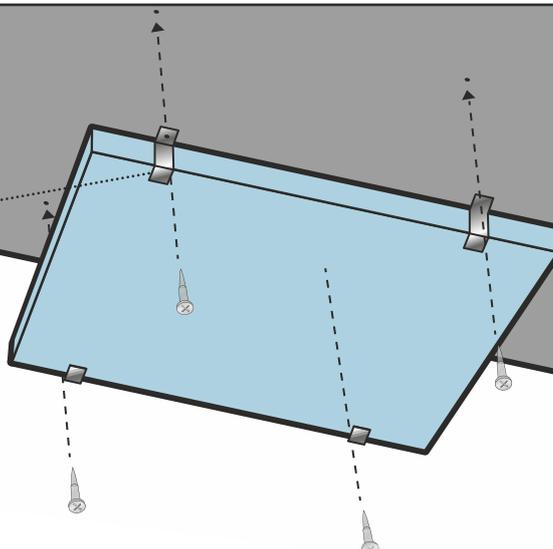
Total number of hooks used will differ depending on panel sizes. Please request a full installation guide

### 2. UPVC SPLIT BATTEN FIXING



Please request a full installation guide. Split batten to be used on panels not larger than 1200x1500x25mm. The split battens should not be used on 40mm thick

### 3. Z-CLIP "CEILING" FIXING



Total number of Z Clips used will differ depending on panel sizes. Please request a full installation guide

# Sound Masking

from aet.gb ltd

Open plan offices benefit from Sound Masking



Cellular offices achieve better speech privacy with Sound Masking

Sound Masking is a cost effective solution to the problem of improving speech privacy in today's modern office environment. Best installed during office fit out but often installed as retrofit, Sound Masking from AET has improved the office environment for many international companies throughout Europe over the last 22 years.

In today's office speech privacy becomes a key aim and open plan offices can suffer from two speech problems:

- Other people's conversations can be an irritating distraction
- Confidential conversations can be almost impossible to conduct

Similar problems also exist in cellular offices. Apart from noise breakthrough via partitions, flanking over, under and around them, other problem areas include light fixtures, air conditioning systems and services trunking. Sound masking compensates for these problems.

An investment in increasing privacy of speech is certainly cost effective, with Sound Masking one of the easiest ways of achieving this aim. Sound Masking systems along with acoustic panels and acoustic door seals are increasingly used to achieve the desired level of privacy by a number of our major clients including:

- Vodafone World HQ
- Procter & Gamble
- Swiss Re
- Mobil Exxon HQ
- Elizabeth Arden
- Barclays Bank
- Freshfields
- KPMG
- PWC
- BP



Sound Masking is now available with a host of extras including:

- PA, either all call or zone by zone call
- Dual level options for audio visual room etc
- Automatic ramping to conserve energy and produce profiled masking
- Fault reporting
- Automated amplifier changeover



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Sound Masking is also known as sound conditioning or white noise systems

