

## Advantages

- High quality decorative finish.
- Compliments any design concept.
- Excellent acoustic and thermal insulation.
- Flexible design characteristics.
- Easy to handle, install, and clean.
- Cost effective sound control.
- Fire rated.

## Applications

Wilhams ASTEX interior panels provide an effective means of controlling reverberation time and reflected sound in rooms. They are applied in studios, conference centres, cinemas, auditoria and offices where high acoustic absorption, combined with an aesthetically pleasing appearance is required. Wall panels for industrial applications such as engine enclosures, test cells and workshops are also available.

## Description

Wilhams ASTEX panels are acoustically absorbent, fabric covered panels of a composite construction. The standard covering is an acoustically transparent woven textile fabric. Bespoke panels, of specific size, thickness, shape or faced with the clients chosen fabric can be manufactured upon request. For industrial applications, facings of 200gms/m<sup>2</sup> glass cloth or white PU where a wipe down procedure is specified, can also be supplied.

## Physical Information

Thickness: 25mm  
50mm

Other thicknesses are available upon request.

Maximum panel size: 3000 x 1200mm  
Subject to fabric limitations

Weights: 3.25 kg/m<sup>2</sup> for 25mm panel  
5.00 kg/m<sup>2</sup> for 50mm panel

The above sizes and weights are nominal figures

## Fire Performance

Wilhams ASTEX acoustic panels conform to the following specifications:

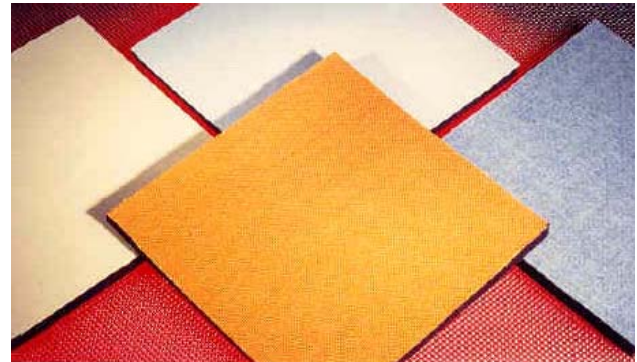
The Astex panel core is non-combustible.

Wilhams standard fabric covering complies with BS 476: 1987 to Class 1.

When faced with the Wilhams standard fabric, ASTEX panels comply with fire tests BS 476: Parts 6 & 7 to give UK Building Regulations Class 'O' performance.

## Acoustic Performance

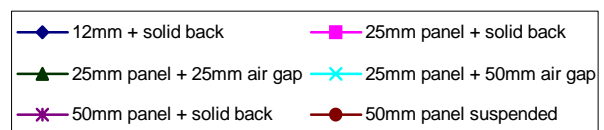
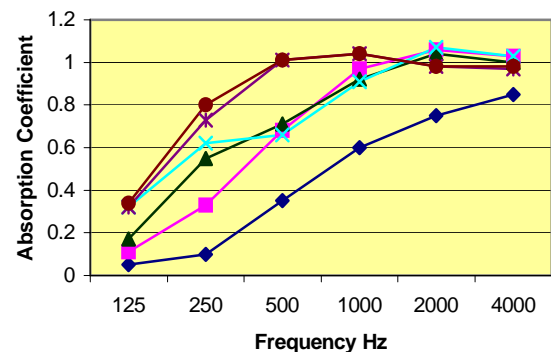
Wilhams ASTEX panel works in two distinct ways to reduce noise, by impeding the transmission of sound through an element of the structure and by absorption of sound at the surface.



The noise absorption co-efficient is expressed as a factor between 0 and 1.0. The more sound that a material absorbs, the higher the noise absorption co-efficient.

The noise absorption co-efficient for ASTEX panels, as tested to BS 3638:1987:

Frequency/ Thickness	125	250	500	1k	2k	4k
12mm panel Solid back	0.05	0.10	0.35	0.60	0.75	0.85
25mm panel Solid back	0.11	0.33	0.68	0.97	1.06	1.03
25mm panel 25mm air gap	0.17	0.55	0.71	0.92	1.04	1.00
25mm panel 50mm air gap	0.32	0.62	0.66	0.91	1.07	1.03
50mm panel Solid back	0.32	0.73	1.01	1.04	0.98	0.97
50mm panel suspended	0.34	0.80	1.01	1.04	0.98	0.98



## Wilhams Insulation Ltd

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## Installation Guidelines

Wilhams have many years experience manufacturing and supplying wall panels, and often the site limitations or restrictions require a non-standard means of supporting the panels to be developed. If you have any concerns concerning installation, please do not hesitate to discuss your requirements with our engineers.

The two most common methods of installation that offer non-visible fixing systems are:

1. Velcro strips
2. Fabric covered metal strips

In each case, the wall surface should be sound and level, and if the substrate is suspect, it is recommended that timber batten are fixed to the wall to take the panels. It is important to keep hands clean when working with the panels, or wear gloves to avoid soiling the panel.

### Fabric Covered Metal Strips

The top and bottom 'U' channels are supplied loose with the ASTEX panels.

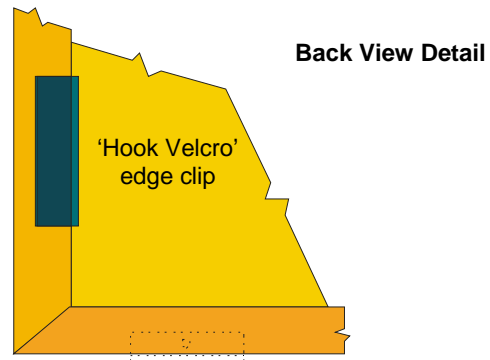
1. Align and fix the bottom support 'U' bracket to level line on the wall with fixing screws (supplied by others).
2. Measure out the panel height plus 20mm and position and fix the top 'U' bracket with screw fixings (supplied by others).
3. Offer panel up to the wall at required position and gently guide the top edge of the ASTEX panel into the top 'U' bracket. Allow the panel to drop into the bottom 'U' bracket.

### Velcro Strips

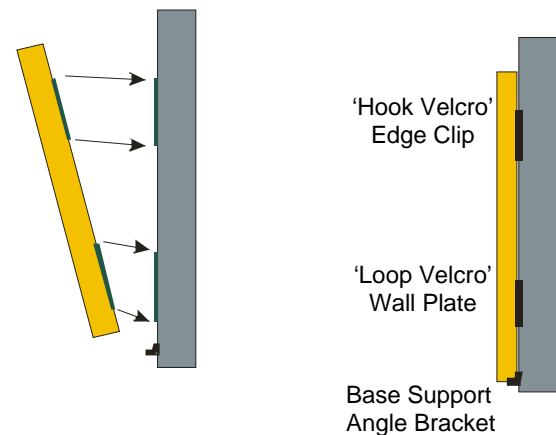
The panels are factory fitted with Velcro Edge Clips and the accompanying Velcro covered base plates are supplied loose for wall mounting. For situations where it is not suitable to screwing to the wall surface, self adhesive base plates are available.

1. Fix the base support 'L' brackets to level line on wall set out at suitable spacing to support individual panels.
2. Offer panel up to the wall at required position and lightly pencil around each corner to mark locations. Also mark location of edge clips at sides of panels.
3. Fix the Velcro covered base plates to the wall at appropriate locations, with the outside edge of base plates approximately 10mm inside actual

4. Carefully re-align the panel on the wall, resting it on the support brackets and for guidance, using the pencil marked locations. Press gently over Velcro areas to ensure a positive engagement.



Base Support Angle Bracket



Side View Panel Fixing

### Maintenance

Wilhams ASTEX panels can be cleaned with a vacuum cleaner. Do not use water to clean the panels; however stains can be removed with an appropriate cleaning solution.

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