

Advantages

- Excellent sound absorption
- Light reflective
- Good thermal insulation
- Easy to handle, install, and clean.
- Cost effective sound
- High quality finish
- Fire rated.

Applications

Wilhams Acoustic Ceiling Panels provide an effective means of controlling reverberation time and reflected sound studios, conference centres, auditoria and offices and where high acoustic absorption combined with an aesthetically pleasing appearance is required.

Description

Wilhams Acoustic Ceiling Panels consist of borosilicate mineral fibres impregnated with a suitable resin binder faced with a painted glass tissue one side and a white tissue the other. The painted glass tissue is available in white textured finishes and a large choice of colours, as shown below, subject to a minimum order quantity.

Physical Information

Thickness (mm)	Weight (kg/m ²)	Sheet Size (mm)
20	1.7	600 x 1200
40	3.3	600 x 1100

The above sizes and weights are nominal figures. Wilhams Acoustic Ceiling Panels can be fabricated to imperial sizing.

Thermal Conductivity

When tested in accordance with BS 874

Thickness (mm)	Thermal Conductivity W/mC at 50°C
20	0.038
40	0.038

Fire Performance

The borosilicate mineral fibres impregnated with a suitable resin binder core are non combustible when tested to BS 476: Part 4.

When tested to BS 476: Part 6 & 7 the system will comply with a Class "0" Surface Spread Of Flame

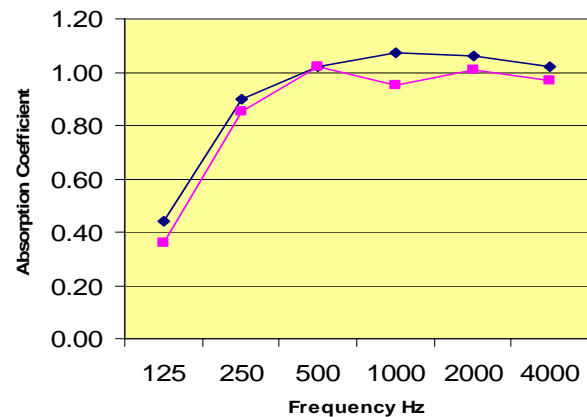


Acoustic Performance

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 our Wilhams Acoustic Ceiling Panels, as tested to BS EN 20354: 1993, ISO 354: 1985 and BS EN ISO 11654:1997 are:

Frequency/ Thickness	125	250	500	1k	2k	4k
20mm	0.36	0.85	1.02	0.95	1.01	0.97
40mm	0.44	0.90	1.02	1.07	1.06	1.02



The above information is extracted from Sound Research Laboratories Ltd, Report Number C/04/5L/0980/1A.

Wilhams Insulation Ltd

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Moisture Resistance

The panels are moisture resistant and can be used safely in conditions up to 90% relative humidity.

Water Resistance

The borosilicate mineral fibres repel water due to the presence of water repellent additives. Moisture condensing from the air within the core is less than 0.02% by volume at 95% relative humidity.

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 most common methods of installation methods are:

1. Wilhams Acoustic Ceiling Panels can be direct fixed to a concrete soffit using adhesive.
2. The Wilhams Acoustic Ceiling Panels can also be installed in a standard 24mm exposed tee grid system

It is important to keep hands clean when working with the panels, or wear gloves to avoid soiling the panel.

Maintenance

Wilhams Acoustic Ceiling Panels can be cleaned by brushing, vacuuming or wiping with a damp cloth.

Surface Tissue Colours



Surface Tissue Patterns



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