



Suspended Ceiling Absorbers

Decorative, flame retardant sound absorption panels

The Products

These decorative, suspended ceiling panels are designed to reduce high levels of reverberant noise in large open areas. The panels are light, sound absorbing and flame retardant and normally hung in vertical rows from the ceilings in public, commercial and industrial premises. The increased surface area they create acts as an extremely effective sound absorber.

Techmel PSA – plain suspended absorber

Manufactured from ultra light weight, open cell natural Melamine Foam, Techmel PSA decorative, flame retardant acoustic hanging panels are available in either white or light grey, or can be colour sprayed to suit any design requirement. A typical panel size for ceiling application is 75mm x 1200mm x 600mm although various other thicknesses are available, as is a fabric covered sound absorber (FSA) or wrapped version. A wide variety of three dimensional configurations are available subject to minimum order quantities.

Techmel GCSA – glass cloth suspended absorber

These panels are manufactured with a dense mineral wool infill. They can be encapsulated in either black glass cloth or the customers own flame retardant fabric, provided it has the required acoustic properties – further details are available on request. These absorbers can also be encapsulated in materials for use in hygiene critical applications, like food processing plants.

Applications

Techmel PSA

- Call centres
- Open plan offices and workspaces
- Sports halls, ice rinks and swimming pools
- Leisure centres
- Children's nurseries
- Galleries
- Foyers

Techmel GCSA

- High hygiene critical environments
- Food factories
- Canning and bottling plants
- Engineering workshops
- Plant rooms
- Industrial assembly areas
- Manufacturing plants



Colours and Finishes

Techmel Suspended Ceiling Absorbers are available in three fabric ranges as standard; **Cara** fabric has an open hessian weave appearance, **Screen** fabric has a closer weave offering a smoother finish, while **Lucia** fabric provides a crepe texture finish. Where clients prefer to specify their own fabrics we require a 1m² fabric sample be provided to ensure compatibility with the manufacturing process and acoustic transparency.

Techmel PSA is available with a PVC spray coating in matt black – Fire Rating not available.

Installation Guidance

John C Wilkins provide a full supply and installation service or any competent contractor should be able to install the Suspended Absorber range. It is important that the panels are fully supported until all wires are connected. White linen gloves should be worn when handling and installing Techmel Foam as it is difficult to clean once soiled.

Technical Advice

Our qualified and experienced acoustic engineers can provide architects, consultants and contractors with detailed technical advice on product specifications, suitability, installation and reverberation time (RT) calculations needed to meet the required acoustic performance.

Operating Temperature

John C Wilkins Suspended Ceiling Absorber products are compatible with all normal building temperatures.

APPLICATIONS

- Offices
- Meeting Rooms
- Hotels
- Conference Centres
- Leisure Centres
- Schools
- Restaurants
- Showrooms



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Acoustic Performance

When suspended vertically in continuous rows at 600mm spacings, the sound absorption co-efficients are as follows:

Suspended Absorbers	Thickness mm	Sound Absorption Co-efficient (tested to BS EN ISO 354)					
		100Hz	200Hz	500Hz	1000Hz	2000Hz	4000Hz
Acoustic Foam Absorbers	75	0.15	0.45	0.80	0.85	0.81	0.67
GCSA Glass Fibre Absorbers Encapsulated in Glass Cloth	75	0.20	0.55	0.90	0.95	0.95	0.95

Building Regulation Classification

Suspended Absorbers	Absorber Classification (When tested to BS EN ISO 11654-1997)
	75mm thick
Acoustic Foam Absorbers	C
Glass Fibre Absorbers	C

Dimensions and Weight

Hanging Absorbers	Thickness mm	Length mm	Width mm	Weight per Absorber kg/m ²
*Acoustic Foam Absorbers	75	1200	600	0.65
Glass Fibre Absorbers	75	1200	600	1.85

Application and Fixing

Corkscrew hangers are supplied with the Foam Absorbers to allow fixing direct to the underside of the roof. Glass Fibre Absorbers are supplied with a 50mm semi-rigid top-flap incorporating two eyelets, which allows them to be hung from the roof.

Fire Performance

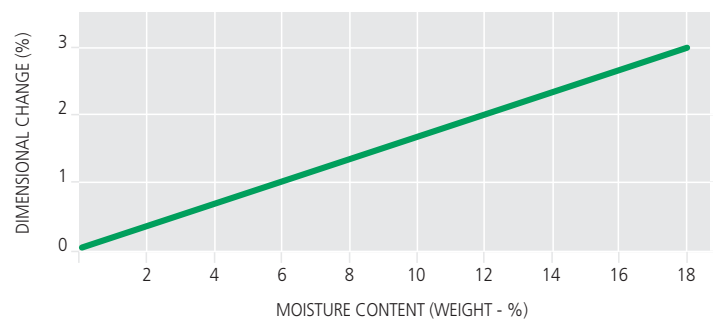
The Cara, Screen and Lucia fabrics all meet the requirements of Class 1 Surface Spread of Flame when tested to BS476: Part 7 1997. Screen fabrics can be chemically treated to provide Class "O" fire rating, subject to specific colours and minimum order quantity.

Thermal Conductivity

0.035 W/mK @ 10°C

Note: Other sizes and thicknesses are available subject to minimum order quantities. Further details available on request.

*Dimensional changes may occur in Acoustic Foam dependent on the relative humidity of the surrounding air. Allowances should therefore be made to overall sizes based on the anticipated moisture content of the absorbers when in-situ.



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JOHN C WILKINS ACOUSTIC SUPPLIES

Units 32-34, Waters Meeting Development,
Britannia Way, Bolton BL2 2HH
T: 01204 548400 F: 01204 366960