



Fabri-Sound Decorative fabric sound absorbing system for walls



The Product

Fabri-Sound is a virtually seamless stretched fabric decorative acoustic treatment for use on new or existing internal walls. The system absorbs very high levels of reflective noise and can be adapted to provide either partial or continuous cover of a wall surface, encompassing decorative features such as pillars, door frames and sockets.

The absorption requirement for Fabri-Sound is calculated using the specified reverberation time (RT) to determine the wall area coverage and depth of acoustic infill.

Fabri-Sound

System Depth: 25mm – 50mm of either acoustic foam or mineral wool will meet the required RT in most situations. Depths of 75mm – 100mm infill may however be required for specialist areas requiring a low RT.

System Width: The maximum width between each joint is limited to the width of fabric (minus approximately 10% fabric for trimming and securing). Based on the wall length, the fabric widths are generally calculated to achieve uniform joints.

System Height: From floor to ceiling. Allowance should be made for securing the fabric at high level and damage prevention at low level.

The Fabri-Sound system is created by applying specially fabricated PVC-U sections that are mechanically fixed vertically to flat walls at a specified width. Acoustic foam or mineral wool is then bonded between the U sections. Finally, acoustically transparent fire retardant fabric is stretched and secured into the U channels.

Applications

- Cinemas
- Theatres
- Recording studios
- Boardrooms
- Reception areas
- Video conferencing facilities
- Art galleries
- Auditoria
- Audiology suites in healthcare environments

Colours and Finishes

John C Wilkins offer 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.

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

Fabri-Sound is suitable for use at normal building temperatures.

Fire Performance

The mineral wool in the Fabri-Sound system is non-combustible when tested in accordance with BS476: Part 4: 1970 (1984). The foam contained within Fabri-Sound complies with the Class "O" requirements of the Building Regulations when tested in accordance with BS 476: Parts 6 & 7. 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 minimum order quantity.

Thermal Conductivity

Mineral wool - 0.033 W/mK @ 10°C

Acoustic foam - 0.035 W/mK @ 10°C

APPLICATIONS

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



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Acoustic Performance

Product	Thickness mm	Sound Absorption Co-efficient (tested to BS EN ISO 354)					
		125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz
Fabri-Sound with Mineral Wool Infill	22	0.05	0.30	0.70	0.95	1.00	1.00
	47	0.18	0.50	0.90	0.99	1.00	1.00
	97	0.53	1.00	1.00	1.00	1.00	1.00
Fabri-Sound with Acoustic Foam Infill	22	0.12	0.34	0.73	0.92	0.94	0.87
	47	0.20	0.66	0.99	1.00	0.97	0.95
	97	0.52	1.00	1.00	1.00	1.00	0.97

Incorporating high performance sound insulation barriers into the system can enable it to meet particular low frequency performance requirements for recording studio and audiology suite installations. Please ask for further details.

Dimensions

Fabri-Sound provides total design flexibility on site, and can be customised to accommodate a room's individual architectural features. The PVCu sections can be adjusted to create depths from the wall of between 25mm to 100mm, so that a continuous finish can be created right around the room. Again, further details are available on request.

Application and Fixing

Available to order, Fabri-Sound should only be fitted by specialist contractors. Please enquire for further details.

Care and Maintenance

Fabri-Sound stretch fabrics should be cleaned periodically with a low powered vacuum cleaner. They should never be cleaned using water under any circumstances. Stains can be treated with an appropriate cleaner applied according to the manufacturer's instructions. If it becomes damaged, the stretch fabric can be replaced by a qualified tradesman.

Building Regulation Classification

Product	Overall Depth mm	Absorber Classification (when tested to BS EN ISO 11654-1997)
Fabri-Sound with Mineral Wool Infill	25	C
	50	B
	100	A
Fabri-Sound with Acoustic Foam Infill	25	C
	50	A
	100	A

Installation

Since specialist skills are required to stretch and secure the fabric, Fabri-Sound should only be installed by John C Wilkins or a specialist contractor. Note: the walls must be flat to enable U channel fitting and a plaster skim or 50mm (w) timber battens may be required to achieve this.

Our own highly skilled team of tradesmen offer a cost effective and efficient installation service anywhere in the UK.

For further details, call John C Wilkins Acoustic Installations on 01204 548400.

APPLICATIONS

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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