

Suspended Absorbers

Description

Suspended Absorbers are manufactured from open cell **MelaTech** foam, or medium density glass fibre totally enclosed in glass cloth.



They are designed to be hung in vertical rows from the underside of roofs in architectural and industrial applications to reduce high levels of reverberant noise in large open spaces. The increased surface area provides an extremely effective sound absorber which can reduce reverberation times by up to 50%.

MelaTech Foam Absorbers can be manufactured in three-dimensional shapes, subject to minimum order quantities.

Glass Fibre Absorbers can be encapsulated in materials suitable for use in hygienic applications.

Colour and Finish

MelaTech Foam Absorbers:

Natural white, or spray painted to any British Standard or RAL colour, subject to minimum order quantities. Further details available on request.

Glass Fibre Absorbers:

Encapsulated in black glass cloth or client's own fabric subject to it having the required acoustic properties. Further details available on request.

Design

Highly qualified building and acoustic consultants are available to offer assistance and advice to clients, architects and contractors on all aspects of noise control to ensure design specifications and acoustic performance requirements are achieved. They can also undertake noise surveys and provide details of anticipated reverberation times pre and post installation.

Application

MelaTech Foam Absorbers are used extensively in call centres, open plan offices, sports halls, ice rinks, leisure centres, children's nurseries, galleries and foyers.

Glass Fibre Absorbers are used in more industrial applications e.g. manufacturing plants, engineering workshops, food factories and bottling halls.

Temperature

Suspended Absorbers are suitable for use at normal building temperatures.

Data Sheet
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Crown Business Park
Old Dalby
Melton Mowbray
Leicestershire
LE14 3NQ
Tel: 01664 821810
Fax: 01664 821820

E-mail:
info@hodgsongroup.co.uk

Web Site:
www.acoustic.co.uk

Fire Performance

Natural white **MelaTech Foam Absorbers** comply with the Class 'O' requirements of the Building Regulations, when tested to BS476: Part 6: 1981 and Part 7: 1987. Spray painted **MelaTech Foam Absorbers** do not have a fire rating.

Glass Fibre Absorbers encapsulated in black glass cloth meet the requirements of BS476: Part 7: Class 1 surface spread of flame.

Building Regulation Classification

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

Acoustic Performance

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

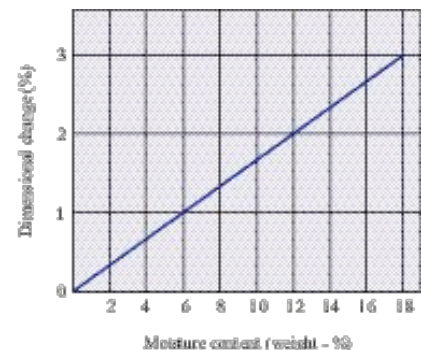
Suspended Absorbers	Thickness mm	Sound Absorption Coefficient (Tested to BS EN ISO 354)					
		100 Hz	200 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz
MelaTech Foam Absorbers	75	0.15	0.45	0.80	0.85	0.81	0.67
Glass Fibre Absorbers Encapsulated in Glass Cloth	75	0.20	0.55	0.90	0.95	0.95	0.95

Dimensions and Weight

Product	Thickness mm	Length mm	Width mm	Weight per Absorber kg/m ²
* MelaTech Foam Absorbers	75	1200	600	0.65
Glass fibre Absorbers	75	1200	600	1.85

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

* Dimensional changes may occur in **MelaTech Foam** dependant 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.



Availability

Suspended Absorbers are available to order.

Fixing Mechanisms

MelaTech Foam Absorbers are supplied with corkscrew hangers for fixing direct to the underside of the roof. **Glass Fibre Absorbers** are supplied with a 50mm semi-rigid top-flap incorporating two eyelets for hanging from the underside of the roof.

For Further Information

contact
Hodgson & Hodgson
Group Ltd

Crown Business Park
Old Dalby
Melton Mowbray
Leicestershire
LE14 3NQ
Tel: 01664 821810
Fax: 01664 821820

E-mail:
info@hodgsongroup.co.uk

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