

Acoustic Foam

product code: AP-WH-50CF

[Note 1]

Technical Data Sheet

Description

This CFC-free acoustic foam is a polyurethane foam designed to meet the fire resistance requirements of British Building Regulations and other high performance specifications, whilst not jeopardising acoustic absorption characteristics.

Application

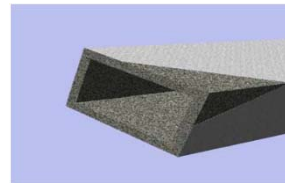
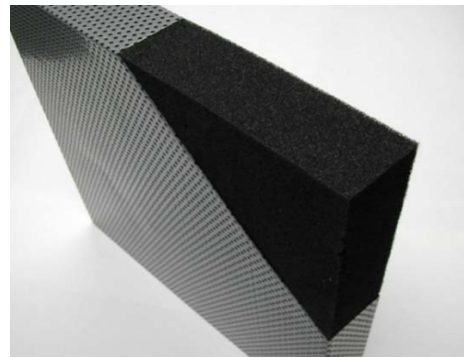
- Internal Duct Lining, External Duct Lining
- Suspended Ceiling Absorptive Panel

Physical Information

Standard Sheet Size	: 2m x 1m
Thickness	: 50 mm
Density	: 108 kg/m ³
Indentation Hardness	: 156N
Tensile Strength	: 88 kps
Elongation at Break	: 188% (minimum unaged)
Operating Temperature	: 80°C(max. continuous), 110°C(intermittent), -30°C(minimum)

Fire Resistance Properties

■ BS 476 Parts 6 & 7	- Class 'O'
■ BS 476 Part 5: 1979	- Class P
■ BS 476 Part 6: 1981	- F.p.i index 8.5
■ BS 476 Part 7: 1987	- Class 1
■ BS 4735	-Char 4.5mm
■ BS 5852 Part 2	- Pass
■ Civil Aviation CAA8/FAA	- Pass
■ Flammability (FMVSS 302)	- Zero burate rate; Self extinguishing, resists ignition



**Acoustic lining at inner surface of airduct could help to reduce noise emitted from outlets at duct, eg. air grilles*

Note 1- This product is supplied/ manufactured by Wilhams Insulation Group. All material warranty shall be provided by the manufacturer, and limited by the clauses and conditions of warranty.

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Vibration & Noise Control Specialist

v.01 P. 1/2

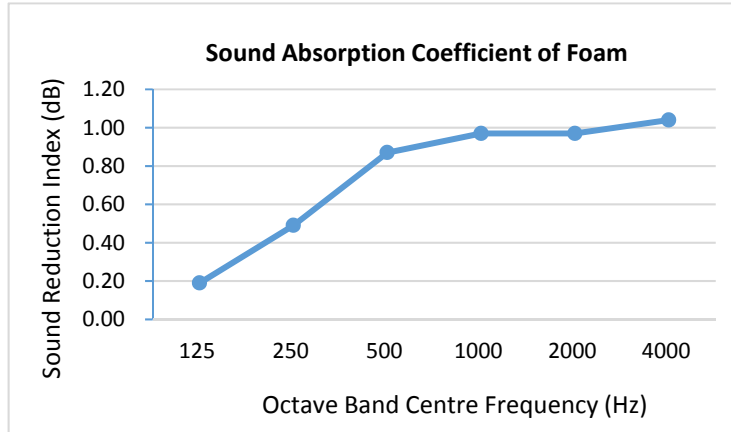
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Acoustic Performance

This is a high performance material that has been acoustically tested at UKAS certified independent test laboratory.

Random Incidence Sound Absorption Coefficient (as tested in accordance with BS3638: 1987)

Octave Band Centre Frequency (Hz)	125	250	500	1000	2000	4000	NRC
Sound Absorption Coefficient	0.19	0.49	0.87	0.97	0.97	1.04	0.76



Ductwork Attenuation (dB)- Airborne noise

Duct Size	Octave band Centre Frequency (Hz)					
	125	250	500	1000	2000	4000
900 x 600	0.8	2.9	7.2	11.0	7.1	6.2
450 x 600	1.6	3.1	8.7	16.6	8.8	8.6
300 x 600	2.6	5.4	10.5	19.5	15.1	11.6

Disclaimer:

The data listed in this data sheet are typical or average values based on tests conducted by independent laboratories by the Manufacturer (Wilhams Insulation Group). They are indicative only of the results obtained in such tests, and should not be considered as guaranteed maximums, minimums or any form of performance. Specification and data are subject to change without notice. Mason Acoustics Limited is not liable for any loss regard to the data and information stated in this literature.

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