



Acoustic Foam

AFCO



Description

A flexible and fire resistive open cell acoustic foam, offering excellent durability and sound absorption qualities, that can be used in a wide variety of applications. Chemically inert, non-dusting and due to its flexibility is easily applied to curved surfaces or deformed to fit complex shapes. It has the additional benefit of being exceptionally fire resistive.

- Class '0' fire rated
- Good low frequency acoustic absorption
- Good dampening characteristics
- Can be supplied as a composite solution
- Available with a pressure-sensitive adhesive backing film to simplify installation.

Installation

The material is normally adhered to the background surface using a separate adhesive or by means of the optional pressure-sensitive adhesive backing. The adhesive is a modified polyacrylic, with good initial adhesion that increases with time, resulting in strong final bond strength. It possesses excellent moisture and weathering resistance. It also has very good adhesion to low surface energy substrates together with a very high heat resistance.

Additionally the product can be mechanically fixed (using large headed fixings or spreader washers).

Environment

- Contains no Volatile Organic Compounds (VOCs) and no very Volatile Organic Compounds (vVOCs)
- Zero Ozone Depleting Potential
- Global Warming Potential of less than 5
- Recyclable

Acoustic Performance

Thickness (mm)	Sound Absorption Coefficients					
	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz
12	0.05	0.15	0.20	0.35	0.40	0.45
25	0.10	0.20	0.35	0.55	0.65	0.70
50	0.25	0.45	0.70	0.85	0.85	1.00

Technical Specification

Standard nominal sheet size	2000 x 1000 mm	
Colour	Black	
Density	75-90 Kg/m ³	
Hardness	120-180 N	
Tensile strength (ISO 1798)	>70 kPa	
Elongation at break (ISO 1798)	>90%	
Thermal conductivity	0.048-0.052 W/mK	
Working temperature	-40 to +110 °C	
Building regulations (Approved document B)		
European class (EN 13501-1)	25 mm	Class 0
	50 mm	Class 0
UL 94	V-0	
FMVSS 302	Compliant (0 mm/ min)	
Adhesive support	without carrier, transfer	
Adhesive interliner	Release paper, yellow, 90 g/m ²	
Adhesive weight	70 g/m ²	
Total adhesive thickness	0.07 mm	
Adhesive temp. resistance	-40 to +160 °C	
Adhesive strength	min. 22 N/ 25 mm contact time 1hr	