



Class O Acoustic Foam

Class O Acoustic Foam is a flexible open cell material offering durability and excellent sound absorbing qualities. The material is chemically inert, non-dusting and due to its flexibility is easily applied to curved surfaces or deformed to fit complex shapes. The product has the additional benefit of being exceptionally fire resistive, meeting the requirements of Class 'O' to Building Regulations. Class O Foam also meets euro class B-S1, D0 EN13501-1 6MM to 50MM tested with 1mm steel. Class O Acoustic Foam is available with a self-adhesive backing film to simplify installation. Optionally, the product can be supplied with an extensive range of facing materials or spray applied surface coatings. The material is commonly supplied in composite form in combination with polymeric barriers and damping sheets. The product is also available, cut to size or shape.

Applications

The product is used in many varied applications and including construction, marine, automotive, H & V and OEM. Some applications use the product as a component sound absorbing or resilient spacing layer within a bespoke composite material. Common applications include: internal lining of ductwork & ventilation equipment to stop panel resonance and lower sound breakout; spatial absorbers; absorption linings in marine craft, automotive vehicles, generators, compressors, process plant and electrical equipment.



For further information call 01255 475 475



Class O Acoustic Foam

Installation

The material is normally adhered to the background surface using a separate adhesive or by means of the optional self-adhesive backing.

Recommended Guidelines For Use Of Self-Adhesive Backed Foam

Pressure sensitive self-adhesive backings are popular because of their ease of application. Carefully peel back the release liner and locate the self-adhesive backed foam sheet in place. The self-adhesive backed foam versions should not be relied upon as the only method of support when fixing to concrete or other building materials in the horizontal or vertical positions. Additional mechanical fixings should be considered, such as large headed washers and supporting pins.

Preparation For Use Of Fireseal Self-Adhesive Backed Foam

Precautions

It is essential that the work area is clean and free from dirt and dust in the air and all surfaces must be grease free. It is also essential to have a well-ventilated area. Ideal room temperatures should be 18°C to 20° C, and relative humidity 40% to 60% (the lower the humidity, the better the bond).

If the Self Adhesive Backed Sheet is applied below the recommended application temperatures, it loses tack/ bond and adhesion will possibly fail. Typically, once the Self Adhesive Backed Sheet is applied into position it is imperative to ensure that all air bubbles are removed to maximize the bond.

Surface Preparation

It is extremely important that all surfaces are thoroughly cleaned and dried. All cleaning agents should be tested prior to use to ensure that ingredients used do not affect the bond.

For further information call 01255 475 475



Class O Acoustic Foam

Technical Information

TAP Spec guide

Density:	>90kg/M3	BS EN ISO 845
Colour:	Dark Grey	
Thickness:	6mm to 100mm	
Fire Performance*:	B-s1, d0	EN 13501-1
Fire Propagation Index:	<12	BS 476 pt 6
Surface Spread of Flame:	Class "1"	BS 476 pt 7
Building Reg. 1991 (Fire Safety):	Class "0"	Building Regulations
Operating Temperature:	-30 to 100°C	
UL94 Classification:	94 V-0	UL 94
Surface Burning Behavior:	Class A	ASTM E84-95
Air Erosion Resistance (4001-6000 FPM):	Pass	ASTM C1071-05 12.7
Fungus Resistance Test:	Does not support growth	ASTM G 21-96
Mildew (Fungus) Resistance:	Does not support growth	ASTM D-2020-92
Water Vapour Sorption:	<9%	ASTM C553-92
Thermal Conductivity:	0.3824 Btu-in/hr-ft ² -°F	ASTM C518-04
Corrosiveness (galvanized steel):	Pass	ASTM C665-95
Hot Surface Performance @ 100°C 96hr:	Pass	ASTM C411-04

*Euro Class certification 6mm – 50mm adhered to 1mm steel sheet, 50mm unadhered to 1mm steel sheet.

Acoustic Performance Information

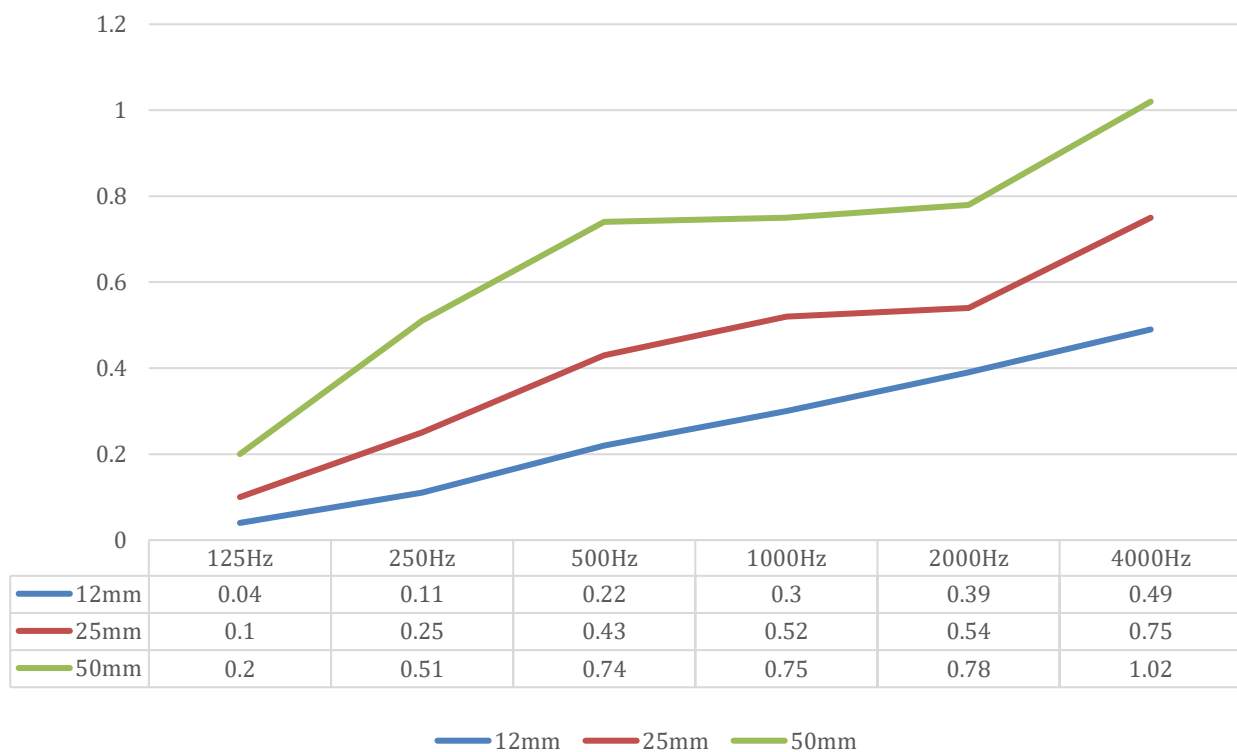
Sound Absorption @ 12mm (Random Incidence):	NRC > 0.30
Sound Absorption @ 25mm (Random Incidence):	NRC > 0.45
Sound Absorption @ 50mm (Random Incidence):	NRC > 0.75

For further information call 01255 475 475



Class O Acoustic Foam

Absorption Co-efficients



Acoustic performance of Class O Foam – Measurement of Absorption in a Reverberation Room BS EN ISO 354:2003