

FIRE SEAL

THE HIGH PERFORMANCE FIRE RESISTANT FOAM UP TO AND INCLUDING CLASS "O"

Fireseal is a class 'O' accredited cellular acoustic foam which may be used in many applications. With its flexibility and non-irritant characteristics Fireseal is a safe and easy to install product. Its durability has been proved on many prestigious projects throughout the world.

Fireseal can be cut and shaped easily and safely. It will readily accept facings, acoustic barrier layers and self adhesive backing for ease of fixing.

What is Fireseal?

Fireseal is a fire resistant, flexible, open celled polyurethane foam. Being open celled with a high density it is an excellent sound absorption material. Fireseal is a safe alternative to conventionally used products.

Where can Fireseal be used?

Fireseal may be used in almost any application where there is a requirement for absorption or containment of noise.

- Air-conditioning equipment
- Air-conditioning duct systems
- Acoustic wall panelling
- Acoustic enclosures
- Automotive and Marine applications
- Prison mattresses
- M.O.D. vehicles

Why Choose Fireseal?

Fireseal has excellent fire resistance properties. It has excellent acoustic characteristics. It will not erode or migrate in air movement (up to 6,000 ft/min, 2,800Mt/min) It is non-fibrous (eliminates the potential health hazards associated with fibrous products) Fireseal is easy and safe to handle (reduced labour costs)

Installation Guidelines

Fireseal is easy to handle and simple to install. However, it is recommended that a maximum sheet size of 2M x 1M be installed in one piece.

Plain Fireseal (non self-adhesive) can be applied using a combination of wet adhesive and mechanical fixings. Mechanical fixings are generally only required for areas greater than 1M², inverted sections and for Fireseal over 20mm in thickness.

Firstly, ensure that the substrate surface is free from dust, moisture, grease and oil. This may be achieved by wiping the surface of the substrate with a good solvent based degreaser. In addition to this, please follow the temperature guide for the adhesive as extreme low or high temperatures will affect the initial and final bond strength.

For all surfaces Fireseal should be applied using a combination of support pins and a good proprietary brand adhesive. The adhesive should be acrylic, neoprene or polyurethane based. Synthetic rubber based adhesives must not be used without pre-coating the foam surface as plasticisation will occur over a short period rendering the bond inadequate.

Important: The above information is given for guidance only and is not intended to form part of a contract.

DATA SHEET

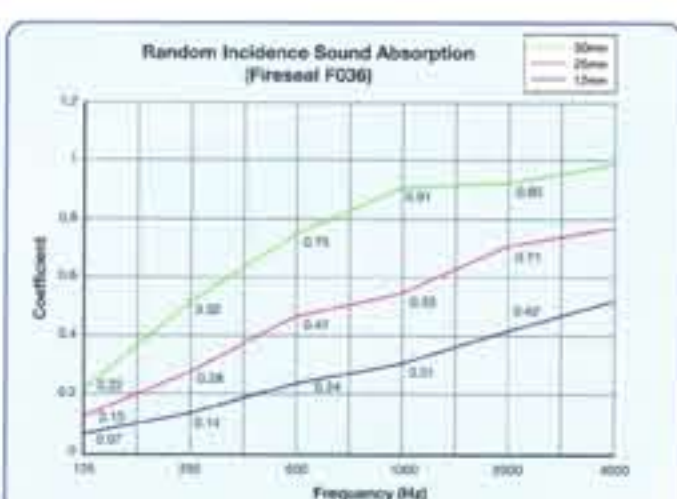
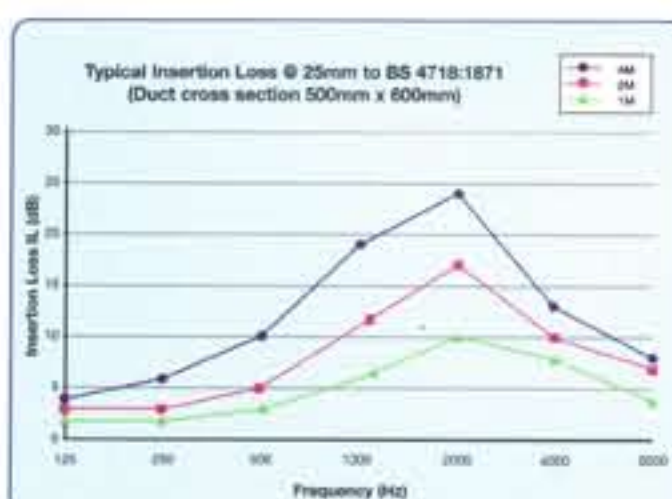
Typical flammability and physical properties of Fireseal FO36 Acoustic Foam

Specification

Specification		Test Method
Density	> 90 kg/M3	BS EN ISO 845
Colour	Dark Grey	
Thickness	5mm to 100mm	
Fire Propagation Index	< 12	BS 476 pt 6
Surface Spread of Flame	Class "1"	BS 476 pt 7
Building Regs. 1991 (Fire Safety)	Class "0"	BS 476 pt 6 & pt 7
Operating Temperature	-30 to 100°C	
UL94 Classification	94 V-0	UL 94
Surface Burning Behaviour	Class A	ASTM E84-95
Air Erosion Resistance (4001 – 6000 fpm)	Pass	ASTM C1071-91 12.7
Fungus Resistance Test	Does not support growth	ASTM G 21
Mildew (Fungus) Resistance	Does not support growth	ASTM D-2020
Water Vapour Sorption	<9%	ASTM C553-92
Thermal Conductivity	0.364 Btu-in./hr-ft ² -°F	ASTM C518-91
Corrosiveness (galvanised steel)	Pass	ASTM C665-95
Hot Surface Performance @ 100°C 96hr	Pass	ASTM C411-97

Acoustic Performance Information

Sound Absorption @ 25mm (Normal Incidence)	NRC > 0.40
Sound Absorption @ 12mm (Random Incidence)	NRC > 0.28
Sound Absorption @ 25mm (Random Incidence)	NRC > 0.50
Sound Absorption @ 50mm (Random Incidence)	NRC > 0.78



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