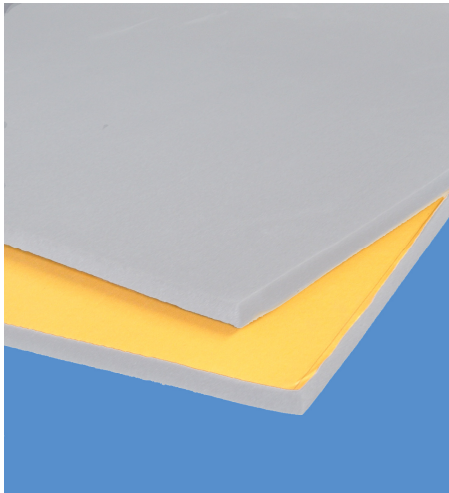


### Introduction



### Lamaphon 'M' Series Foam

Lamaphon 'M' Series acoustic foam is a flexible light weight material with a fine open cell structure offering excellent sound absorbing qualities.

Additional benefits offered by the product include:

- Fire resistant (Class 'O' to Building Regulations)
- Excellent thermal insulation properties
- Elevated operating temperature

'M' Series 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 can be supplied in composite form in combination with lead foils, polymeric barriers and damping sheets.

An in-house cutting service is available for supply to final sizes / shapes using a variety of processing techniques including die-cutting and CNC cutting.

A full 'kitting' and packing service is available for OEM supply

### Applications

The product is used in many varied applications and industries 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 Lamaphon composite material

Common applications include: internal lining of ductwork & ventilation equipment; spatial absorbers; ceiling tiles; absorber panel infills; absorption linings in marine craft, automotive vehicles, generators, compressors, process plant and electrical equipment.

### Installation

The material is normally adhered to the background surface using a separate adhesive or by means of the optional self-adhesive backing (see specification sheet on self-adhesive films for properties and limitations). Additionally the product can be through mechanically fixed (using large headed fixings or spreader washers). Our insulation support pins and non-return washers represent a suitable fixing.

Please contact our technical section for advice on suitable adhesives and mechanical fixings.

### Specification

Product	Lamaphon 'M' Series Foam
Type	Melamine resin
Colour	Light grey (white to special order)
Density	8-11 kg/m <sup>3</sup>
Fire Performance	BS 476, Part 7: Class 1 BS 476, Part 6: I<12, I <sub>(1)</sub> <6 (Class 'O' to Building Regulations)
Thermal conductivity	0.035 W/mK
Service temp range	+150°C (continuous) +190°C (for short periods)
Standard sheet size	2500 x 1250mm
Standard thickness	6, 10, 12, 15, 20, 25, 35, 40, 45, 50, 75 & 100mm (to order any thickness in the range 5 - 500mm)
Other forms	Linear 3D sections and die-cut parts

Detailed mechanical performance information available on request.

### Acoustic Performance

Product thickness	Sound Absorption Coefficients *					
	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz
12mm	0.05	0.10	0.25	0.50	0.65	0.75
25mm	0.10	0.20	0.50	0.80	0.85	0.95
50mm	0.15	0.50	0.90	1.05	1.10	1.05

\* Practical Absorption Coefficients to EN ISO 11654:1997. Third Octave data available on request