

Used in part numbers
801734 - 801737 - 801744 - 801747

Lamapro 'M' Series Acoustic Foam

DATA SHEET



Lamapro 'M' Series Acoustic Foam

Lamapro 'M' Series acoustic foam is a flexible light weight melamine foam 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.

Supplied as standard with either 'O' foil reinforced silver foil facing or white neoprene faced glass facings. Both are impervious to fluids and therefore meet the requirements of the Boat Safety Scheme.

Sheet size is pre-cut to 600 x 1000mm.

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 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 mechanically fixed (using large headed fixings or spreader washers 801022). 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	Lamapro 'M' Series Acoustic Foam
Type	Melamine Resin
Colour	White
Density	8-11 kg/m ³
Fire Performance	BS 476, Part 6: I _k 12, i _k 6 BS 476, Part 7: Class 1 Class 0 to Building Regulations
Thermal Conductivity	0.035 W/m.k
Maximum application temperature (defined in ISO 3386-1)	1,000h : 220°C 5,000h : 200°C 20,000h : 180°C
Standard Sheet Size	2500 x 1250mm
Standard Thickness	6, 10, 12, 15, 20, 25, 35, 40, 45, 50, 75 & 100mm (By special order: Any thickness 5-500mm)
Other Forms	Linear 3D sections & die-cut parts

Detailed mechanical & chemical performance information available on request.

Acoustic Performance (Foam Only)

Product Thickness	Sound Absorption Coefficients*					
	100 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz
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 <small>As used in Quietlife types</small>	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.