

# SIDERISE 'M' series acoustic foam

A flexible and fire resistive light-weight melamine foam, offering excellent thermal and sound absorption qualities, that can be used in a wide variety of applications.

## Application

**SIDERISE 'M' series acoustic foam** is 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 and an elevated operating temperature.

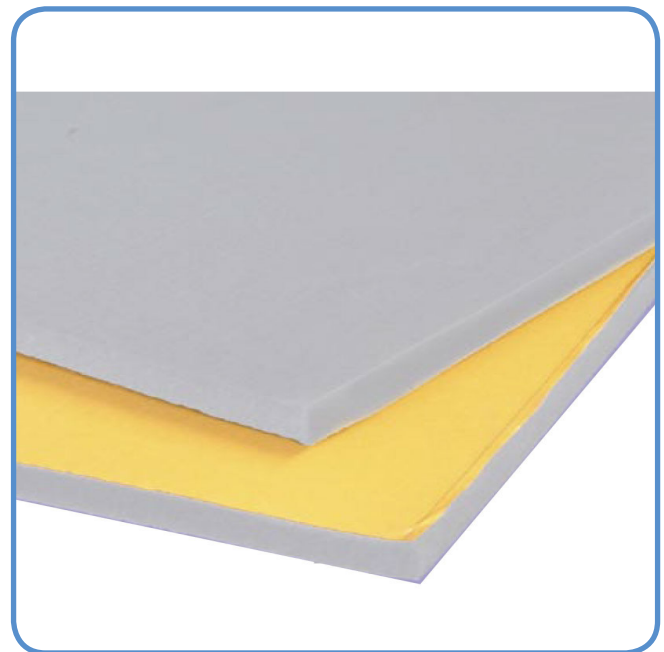
The product is used in many varied applications and industries including construction, marine, automotive, HVAC and OEM.

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 and ventilation equipment; spatial absorbers; ceiling tiles; absorber panel infills; absorption linings in marine craft, automotive vehicles, generators, compressors, process plant and electrical equipment.

## Benefits

- Class 'O' fire rated
- Light-weight
- Excellent sound absorption
- Excellent thermal conductivity
- Can be supplied as a composite solution



**Acoustic, fire and thermal  
insulation specialists**

## Product description

**SIDERISE '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.

## Installation

The material is normally adhered to the background surface using a separate adhesive or by means of the optional self-adhesive backing (contact our technical team for a specification sheet on self-adhesive films for properties and limitations).

Additionally the product can be mechanically fixed (using large headed fixings or spreader washers). Our insulation support pins and non-return washers represent a suitable fixing.

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

## Acoustic performance

Acoustic performance: 'M' series acoustic foam						
Thickness (mm)	Sound Absorption Coefficients					
	100Hz	250Hz	500Hz	1kHz	2kHz	4kHz
10	0.05	0.10	0.25	0.50	0.65	0.75
25	0.10	0.20	0.50	0.80	0.85	0.95
50	0.15	0.50	0.90	1.05	1.10	1.05

Form supplied (mm)	Standard sheet size: 2500 x 1250 Other forms: Linear 3D sections and die-cut parts
Standard thickness (mm)	6, 10, 12, 15, 20, 25, 35, 40, 45, 50, 75, 100 By special order: Any thickness between 5-500mm
Colour	Light grey melamine resin (White to special order)
Max application temp (ISO 3386-1 defined)	1,000h: 220°C 5,000h: 200°C 20,000h: 180°C
Density	8-11kg/m <sup>3</sup>
Thermal conductivity	0.035w/mK
Fire resistance	BS 476, Part 7: Class 1 BS 476, Part 6: <12, I(1) <6
Reaction to fire	Class '0' to Building Regulations

## Additional options

The following options are available:

- A range of protective/decorative facings.
- Can be supplied with high performance acrylic pressure sensitive adhesive (PSA) backing

## Additional information

The following information is available upon request or via download from our website:

- 1/3 octave absorption coefficients available on request
- Safety Data Sheet

## Environmental

**SIDERISE 'M' series acoustic foam** is environmentally friendly.

- It contains no Volatile Organic Compounds (VOCs) and no very Volatile Organic Compounds (vVOCs)
- CFC and HCFC free
- Zero Ozone Depleting Potential
- Global Warming Potential of less than 5
- Recyclable

## Technical support

For further information please contact our Conversion technical team at the address below.

**Developing insulation solutions  
for over 40 years**

