

SIDERISE® 'M' & 'MF' SERIES ACOUSTIC FOAM

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

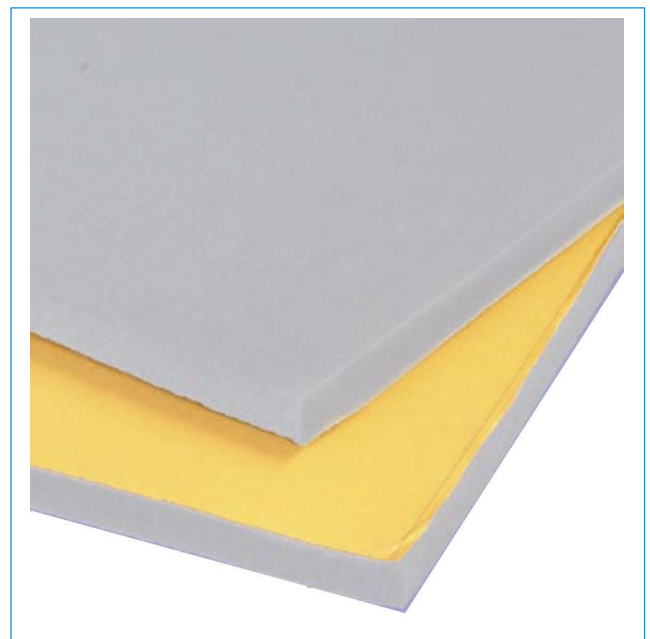
Application

SIDERISE® 'M' & 'MF' series acoustic foams are a range of 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, excellent thermal insulation properties and an elevated operating temperature.

The products are 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 '0' fire rated
- Light-weight
- Excellent sound absorption
- Excellent thermal conductivity
- Can be supplied as a composite solution

Product description

SIDERISE® ‘M’ & ‘MF’ series acoustic foams are available with a pressure-sensitive 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 pressure-sensitive adhesive backing (contact our technical team for a specification sheet on pressure-sensitive 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 technical team for advice on suitable adhesives and mechanical fixings.

Acoustic Performance

Acoustic performance: ‘M’ & ‘MF’ acoustic foam						
Thickness (mm)	Sound Absorption Coefficients					
	125Hz	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	1.00	1.00	1.00

Fire Performance

	M Series		MF Series	
Building Regulations (Approved Document B) National Class (to BS 476 Part 6 and 7)	25mm	Class 0	25mm	Class 0
	50mm	Class 1	50mm	Class 0
Building Regulations (Approved Document B) European Class (to EN 13501-1):	5mm-20mm	Class B	5mm-40mm	Class B
	21mm-200mm	Class C	50mm	Class C
UL 94	V-0 HF-1		V-0 HF-1	
FMVSS 302	Compliant (0mm/min)		Compliant (0mm/min)	
DIN 4102-1	B1		B1	
NF P 92-507	M1			

Technical specification

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 (can be slit from block to any thickness, 3mm to max block thickness)
Maximum application temp (ISO 3386-1 defined)	1,000h: 220°C 5,000h: 200°C 20,000h: 180°C

Property (Standard)	M Series		MF Series	
	Units	Value	Units	Value
Colour	Light grey		Grey	
Density (EN ISO 845)	Kg/m ³	9.0 ± 1.5	Kg/m ³	7.0 ± 3.0
Compressive Strength (EN ISO 3386-1)	kPa	>9	kPa	>4
Tensile Strength (ISO 1798)	kPa	>130	kPa	>85
Elongation at break (ISO 1798)	%	>21	%	>22
Thermal conductivity (EN 12667)	W/mK	0.035(10°C)	W/mK	0.032-0.038
Thermal resistance (EN ISO 2440, defined by EN ISO 3386-1)	°C	240	°C	240

Further information

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:

- 1/3rd 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)
- Zero Ozone Depleting Potential
- Global Warming Potential of less than 5
- Recyclable

Technical support

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

Available CPDs

Contact SIDERISE® for further information on our CPDs:

- Internal Treatment of HVAC elements - Absorption
- External Treatment of HVAC elements – Sound break out
- Sound Energy / Acoustic Principles

Sales & Technical

SALES SUPPORT

Internal Sales Team

T: +44(0)1473 827695

E: sales.sspl@siderise.com

Ordering and Customer Service

M: +44(0)1473 827695

E: service.sspl@siderise.com

Technical Support

T: +44(0)1473 827695

E: technical.sspl@siderise.com



SIDERISE GROUP

Lady Lane Industrial Estate,
Hadleigh, Suffolk IP7 6BQ

T: +44(0)1473 827695

F: +44(0)1473 827179

E: hvac@siderise.com

W: www.siderise.com