

SIDERISE® 'A' SERIES ACOUSTIC FOAM

A flexible open cell acoustic foam, offering excellent durability and sound absorption qualities, that can be used in a wide variety of applications.

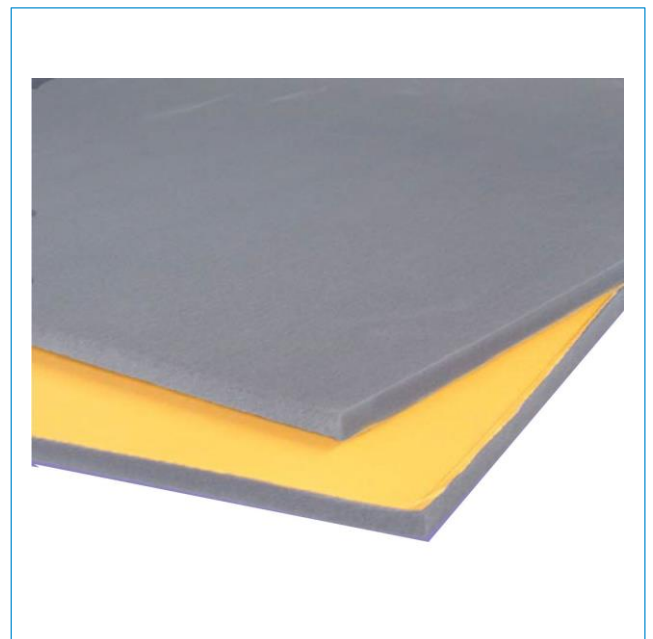
Application

SIDERISE® 'A' series acoustic foam is a flexible open cell polyether material offering durability and excellent sound absorbing qualities.

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

- UL94-HF1 & FMVSS.302 fire performance (self-extinguishing)
- Good broadband sound absorption
- Can be supplied as a composite solution

Product description

SIDERISE® ‘A’ series acoustic foam is chemically inert, self-extinguishing, non-dusting and due to its flexibility is easily applied to curved surfaces or deformed to fit complex shapes.

The product is available with a pressure-sensitive adhesive backing and a wide variety of applied surface facings.

Additionally, the product can be supplied in composite form with lead foils, plastisol barriers and damping sheets.

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: ‘A’ series acoustic foam

Thickness (mm)	Sound Absorption Coefficients					
	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz
12	0.05	0.10	0.20	0.35	0.45	0.65
25	0.10	0.20	0.45	0.60	0.70	0.80
50	0.25	0.60	0.95	1.00	1.00	1.00

Technical specification

Form supplied (mm)	Standard sheet size: 2400 x 1200, 2000 x 1200, 1800 x 1200 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)
Colour	Grey open cell polyether
Service temperature range	-30 to 110°C
Thermal conductivity	0.036w/mK
Fire resistance	BS 4735: Self-Extinguishing; ASTM D1692: Max extent burn 60mm FMVSS 302: Pass; UL94: HF1 (Tested 26/02/2010)

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® ‘A’ 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.

Further information

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

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