

# Siderise® 'A' Series Acoustic Foam

## 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.

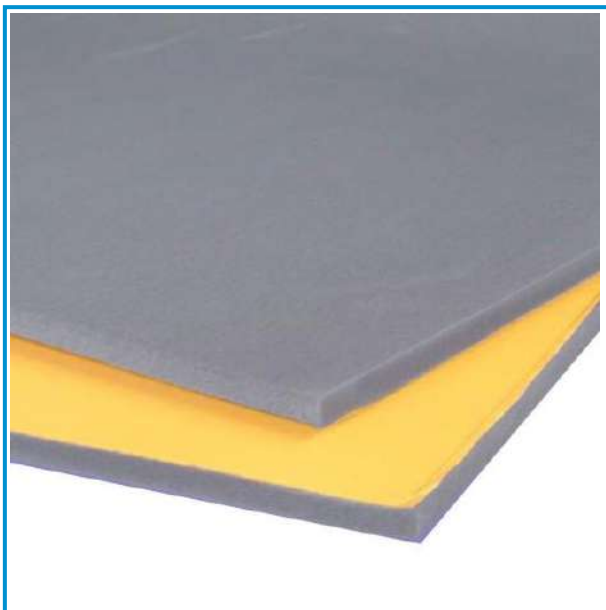
Common applications include internal lining of ductwork and ventilation equipment, spatial absorbers, ceiling tiles, absorber panel infills, absorption linings in marine craft, automotive vehicles, generators, compressors, process plant and electrical equipment.

## 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.



## Acoustic Performance

Table 1: Laboratory Measurement of Random Sound Absorption to BS EN ISO 354:2003

Thickness	Practical Sound Absorption Coefficient, $\alpha_p$					
	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz
6	0.05	0.05	0.10	0.20	0.25	0.50
12	0.05	0.10	0.20	0.35	0.55	0.90
25	0.10	0.20	0.50	0.80	1.00	1.00
50	0.20	0.55	1.00	1.00	1.00	1.00

## Technical Specification

Table 2: 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)
Composition	Open cell polyther polyurethane
Colour	Grey
Service temperature range	-30 to 110°C
Thermal conductivity	0.036w/mK
Flammability	BS 4735: Self-Extinguishing ASTM D1692: Max extent burn 60mm FMVSS 302: Pass UL94: HF1

## Installation

The material is normally adhered to the background surface using a separate adhesive or by means of the optional pressure-sensitive adhesive backing.

Additionally, the product can be mechanically fixed using large headed fixings or spreader washers. Our insulation support pins, and non-return washers are suitable fixings.

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

## Additional Options Available

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

## Technical Support

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## Context

The information in this datasheet is believed to be accurate at the date of publication. Siderise has a policy of continuous product improvement and reserves the right to alter or amend the specifications of products without prior notice. Siderise does not accept responsibility for the consequences of using the products described outside of the recommendations within this datasheet. Expert advice should be sought where there is any doubt about the correct specification or installation of Siderise products.



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