

# SIDERISE® 'V' & 'VE' SERIES ACOUSTIC FOAM

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

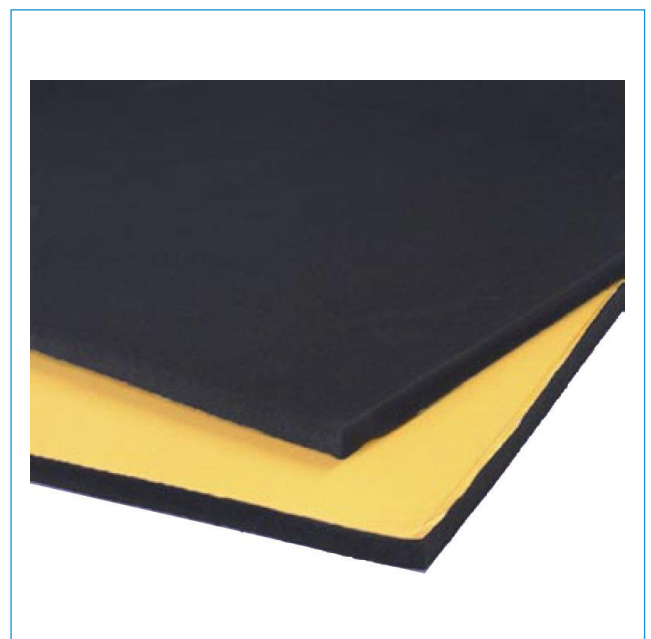
## Application

**SIDERISE® 'V' & 'VE' series acoustic foams** are a range of flexible open cell materials offering durability and excellent sound absorbing qualities, the 2 primary grades are the standard 'V' Grade and the 'VE' Grade.

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

Some applications use the products 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
- Good low frequency acoustic absorption
- Good dampening characteristics
- Can be supplied as a composite solution

## Product description

**SIDERISE® ‘V’ & ‘VE’ series acoustic foams** are chemically inert, non-dusting and due to their flexibility are easily applied to curved surfaces or deformed to fit complex shapes. The products have the additional benefit of being exceptionally fire resistive.

The foam is 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 is commonly 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 (see our 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: ‘V’ & ‘VE’ acoustic foam						
Thickness (mm)	Sound Absorption Coefficients					
	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz
12	0.05	0.15	0.20	0.35	0.40	0.45
25	0.10	0.20	0.35	0.55	0.65	0.70
50	0.25	0.45	0.70	0.85	0.85	1.00

## Fire Performance

	V Series		VE Series	
Building Regulations (Approved Document B) National Class (to BS 476 Part 6 and 7)	25mm	Class 0	25mm	Class 0
	50mm	Class 0	50mm	Class 0
Building Regulations (Approved Document B) European Class (to EN 13501-1):	n.a.		6mm- 50mm	Class B
UL 94	V-0		V-0	
FMVSS 302	Compliant (0mm/min)		Compliant (0mm/min)	

## Technical specification

Form supplied (mm)	Standard nominal sheet size: 2000 x 1200, 2000 x 1000 Other forms: Linear 3D sections and die-cut parts
Standard thickness (mm)	6, 10, 12, 15, 20, 25, 35, 40, 45, 50 (more co-laminated thickness available, up to 100mm)
Colour	Black

		V Series		VE Series	
Property		Units	Value	Units	Value
Density		Kg/m <sup>3</sup>	75-90	Kg/m <sup>3</sup>	90-130
Hardness		N	120-180		
Tensile Strength	ISO 1798	kPa	>70	kPa	>70
Elongation at break	ISO 1798	%	>90	%	>90
Thermal Conductivity		W/mK	0.048-0.052	W/mK	0.048-0.052
Working Temperature		°C	-40 to +110	°C	-40 to +110

# 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:

- 1/3<sup>rd</sup> octave absorption coefficients available on request
- Safety Data Sheet

## Environmental

**SIDERISE® 'V' 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