Siderise ‘V’ Series acoustic foam

A flexible, flame-retardant open cell acoustic foam material offering durability and excellent sound absorbing qualities

Application

Siderise ‘V’ series acoustic foam 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, absorber panel infills, absorption linings in marine craft, automotive vehicles, generators, compressors, process plant and electrical equipment.

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.

Product Description

Siderise ‘V’ 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 also has enhanced flame retardance.

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 a range of mass barriers and damping sheets.

Acoustic Performance

The product's acoustic performance is tested in accordance with BS EN 20354:1993, ISO 354. Octave band Sound Absorption Coefficients for various grades of the product are given below in Table 1.

Table 1 – Acoustic performance

Sound Absorption Coefficients

Product	Thickness (mm)	Sound Absorption Coefficients						αw	NRC	Absorption Class
		125Hz	250Hz	500Hz	1kHz	2kHz	4kHz			
V006	6mm	0.05	0.10	0.15	0.15	0.25	0.30	0.15	0.15	-
V012	12mm	0.05	0.15	0.25	0.35	0.40	0.45	0.30	0.25	D
V025	25mm	0.15	0.25	0.45	0.50	0.60	0.70	0.45	0.40	D
V050	50mm	0.30	0.55	0.80	0.85	0.85	1.00	0.70	0.70	C

Reaction to Fire / Flammability Performance

Table 2 - Reaction to Fire / Flammability performance

Property	Test Method	Result
Flammability	BS 476 Part 6 & 7	25mm – Class 0 50mm – Class 0
Flammability - horizontal	FMVSS302	Compliant (0mm / min)
Flammability-vertical	UL94	V-0

Technical specification

Form Supplied	Standard sheet size: 2000 x1200, 2000 x 1000 Other forms: Linear 3D sections and die-cut parts
Standard thicknesses (mm)	6, 10, 12, 15, 20, 25, 35, 40, 45, 50 (more co-laminated thickness available, up to 100mm)
Colour	Black
Density	75 – 100 kg/m^3
Hardness	120-180N
Tensile Strength	>70 kPa
Elongation at Break	90%
Thermal Conductivity	0.048-0.051 W/mK
Working Temperature	-40° C to +110° C
Fire resistance	None – Acoustic foam only
Reaction to Fire / Flammability performance	See Table 2

Products available

The following Siderise products are available:

- Siderise 'A' series acoustic foam
- Siderise 'AW' series acoustic foam
- Siderise 'M' series acoustic foam
- Siderise 'MF' series acoustic foam
- Siderise 'MW' series acoustic foam
- Siderise 'V' series acoustic foam
- Siderise 'VE' series acoustic foam
- Siderise Lamacell thermal insulation

Contact us for further information on our CPDs

Further information

Technical support

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

Sales & Technical

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