



# Sound Lam



## Description

Sound Lams are a range of noise insulation laminates. They are designed to provide high sound transmission loss and good noise absorption. They consist of a heavy barrier layer isolated from the structure and noise source by sound absorbing acoustic foam. They are available in a range of thicknesses and different barrier densities.

## Sound Lam 0

Sound Lam 0 is manufactured from two layers of non-flammable class 0 polyurethane foam and an internal lead or polymeric barrier core.

Sound Lam 0-L12 is typically used for horizontal application onto the topside of suspended ceilings, it can also be draped vertically curtain style, above room partitions, this helps prevent sound transmission between offices with suspended ceilings. Sound Lam 0 is commonly used in industrial and automotive applications, engine housings, compressors, acoustic enclosures e.t.c and can have a number of different functional or decorative facings applied, it can also be supplied with a profiled 'egg box' finish.

## Sound Lam S

Sound Lam S is manufactured from two layers of self-extinguishing polyurethane foam and an internal lead or polymeric barrier core.

It is an extremely cost effective acoustic composite, and used for a wide range of applications where a Class 0 product isn't required. Sound Lam S is commonly used in automotive applications, engine housings, compressors, acoustic enclosures e.t.c and can have a number of different functional or decorative facings applied.

## Sound Lam Marine

Sound Lam Marine is manufactured from two layers of non-flammable class 0 polyurethane foam, an internal lead barrier core and a class 0 foil facing on one side.

It is designed to meet the combined requirements for noise control, fire rating and low smoke and toxicity emissions in the marine environment. It is used extensively in engine rooms, under decks and between cabins.

## Specification

Product Description	Nominal Thickness	Barrier Mass kg/m <sup>2</sup>	Flammability	Sheet size	Colour
Sound Lam 0-L12	12mm	5 or 10 lead	Class 0 BS476: Parts 6 & 7	2.0 x 1.25mt	Black
Sound Lam 0-L	32mm	5 or 10 lead	Class 0 BS476: Parts 6 & 7	2.0 x 1.25mt	Black
Sound Lam 0-P	33mm	5 or 10 polymeric	Class 0 BS476: Parts 6 & 7	2.0 x 1.25mt	Black
Sound Lam Marine	21mm	5 or 10 lead	Class 0 BS476: Parts 6 & 7	2.0 x 1.25mt	Silver
Sound Lam S-L	32mm	5 or 10 lead	FMVSS 302/ISO 3795	2.0 x 1.25mt	Grey
Sound Lam S-P	33mm	5 or 10 polymeric	FMVSS 302/ISO 3795	2.0 x 1.25mt	Grey

All the above products can be supplied in different thicknesses and densities or made to customer's specifications. Please call for details.

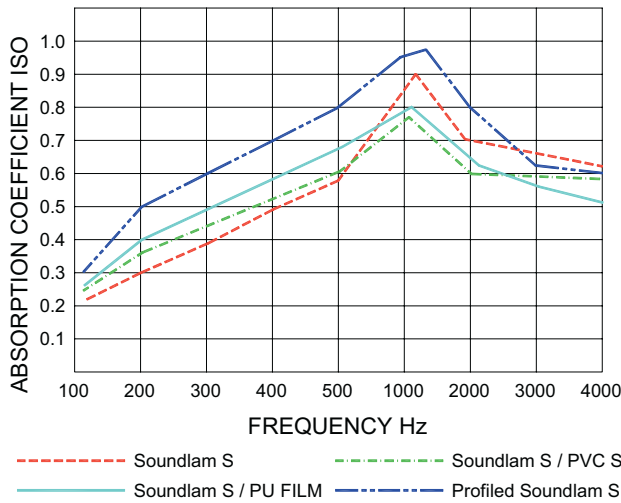
## Operating Temperature

Sound Lam products can be used at continuous operating temperatures from -10°C up to 80°C

## Acoustic Performance

The performance figures below have been obtained from random testing conducted over a period of time and should be regarded as indicative only.

### Sound Absorption



Product	Sound Transmission Loss					
	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz
Sound Lam 5kg/m <sup>2</sup>	26.5	26.5	24.5	36	49.5	54

## Facing Options

We provide a selection of facing materials that we apply to our products, these provide a decorative and functional surface finish.

Product	Description	Colour	Fire Rating
BCO	Bright Class O Re-Inforced Foil, vapour barrier.	Silver	<b>Class O</b>
PU Film	Flexible Polyurethane Film, water & oil resistant.	Black	<b>N/A</b>
PVC	A PVC Spray applied Coating, provides a tough flexible impervious skin, water & oil resistant.	Black, other colours available	<b>N/A</b>
K Cloth	PVC Coated Woven Glass Cloth, tough & robust covering.	Grey or Black	<b>Class 1</b>
Perforated Vinyl	Decorative & durable perforated vinyl facing.	Various	<b>N/A</b>

## Fixing Instructions

To ensure optimum performance from the use of Sound Lam, it is important to follow the instructions below:

1. Ensure the substrate is clean, dry and free from oil, grease, dust or rust etc. Use an appropriate cleaner if necessary.
2. Apply a liberal coat of SCS 28 contact adhesive (available separately) to the surface of the substrate and the underside surface of the Sound Lam.
3. Allow the adhesive to cure until tacky before firmly pressing Sound Lam onto the substrate. It should be bent around corners and jointed on a flat surface using an overlap joint.
4. If more than one sheet is required to cover the surface, overlap any joints by 50mm. This can be achieved by paring back the lower foam layer from one sheet and the upper foam layer from the other sheet.

It is not recommended to butt joint the sheets as this will create a flanking path for noise transmission

5. When using Sound Lam with a 10kg/m<sup>2</sup> barrier core or applying the material to the underside of a substrate, it may need additional mechanical fixing.

Gasket seal is available separately in roll form, to provide a flexible noise seal around door openings, moveable panels etc.