SORBERFOAM

This Installation Guide provides recommendations to maximise the service life of Sorberfoam.

WORKING HEALTH AND SAFETY

- Gloves, protective goggles and any other appropriate safety equipment based on local health & safety requirements and safe work practice must be worn by applicator.

DESCRIPTION

Sorberfoam is supplied in sheets or rolls with varying thicknesses, roll lengths and sheet sizes. Sorberfoam is offered plain (no facing) or with different surface coverings. Depending on installation preferences and environmental issues, the product can be bonded to the mounting surfaces in the following ways:

1. Pressure Sensitive Adhesive (PSA)
2. Contact Adhesive (ACOUSTICK)
3. Mechanical fixing (INSTALL PINS)

Sorberfoam must be installed with the 'faced' side exposed to the noise source.

Please note: Under extreme temperature conditions or where substrate surfaces cannot be free from contaminants, mechanical fixing will be required on vertical surfaces. For all inverted installations including ceiling installations, mechanical fixing must be done in addition to adhesive bonding.

GUIDELINES FOR INSTALLING BARRIER COMPOSITES

Surface Preparation

It is important to ensure that all target surfaces (whatever the substrate) are clean, dry and free of contaminants (e.g. liquid, dirt, dust, oil, loose paint, rust, wax, grease, fibreglass release agents). Compatibility with cleaning agent must be tested before hand.
Surface preparation is common to all 3 methods of bonding.

Measure and Cut Material

- Measure surfaces to be soundproofed
- Make allowances where necessary eg for corner bends - refer clause 'Installations at Corners' in this document
- Using paper or cardboard templates may help for cutting and optimally utilising the product
- It will help to bear in mind, sequence of installing prior to measuring/cutting sheets. e.g. where installation requires an inverted and an adjacent vertical panel to be bonded, (perpendicular) measurement and cut out for the inverted fit to be allowed first. The adjacent vertical panels installed later allows support at the edges of the inverted installation.

Sorberfoam has been proven to absorb substantially more energy across the entire frequency range than traditional polyurethane foams.

applications

- Recording studios, home theatre and music rooms
- Designed wedge shapes for anechoic chambers
- Enclosures, compressors and generator casings
- Decorative wall and ceiling absorbing panels
- Decorative faced hanging ceiling baffles
- Office partition screens
- Automotive engine bays, cabin and cavity linings

Please refer to our website pyroteknc.com for latest information

Cutting Of Materials

- To cut product, use straight edge or level, apply light pressure and cut with a sharp utility knife.
- Always cut from the reflective side.
- Make sure you do not tear facing. It's the 'facing' that prevents the foam layer from contamination.

Final Installation

- Install product with the 'faced' side exposed to the noise source.

Seal Exposed Edges and Joins

- All joins and edges should be taped with the appropriate joining tape. To achieve the best aesthetic and protective finish, a range of matching tapes (Reinforced Aluminium/Mylar/Polyurethane and fabric tapes) are available to choose from.

INSTALLATION AT CORNERS

Fig. (1)

- Merely fix foam panels in the corners at right angles.
- Double check for fit by placing /aligning joins before installing.
- Product should be tightly fit in corners.
- Seal join with matching tape.

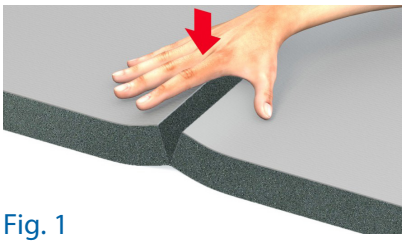
Fig. (2)

'V' Cut foams greater than 50 mm thick
Using a straight edge and sharp knife, make a slit not more than 1/3rd the thickness of the foam. from the facing side of foam.

Fig. (2a)

Align the centre of the 'V' cut to match with the corner edge of the substrate

BUTT JOINS



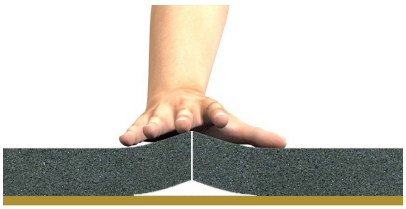


Fig. 1

Ensure a firm and tight butt join to minimise any chances of noise leakage.

Fig. 1

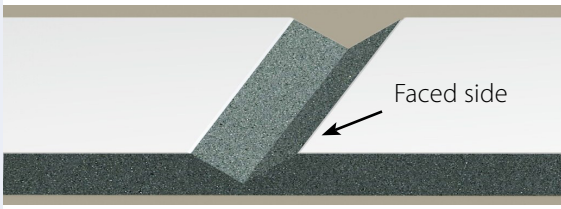


Fig. 2

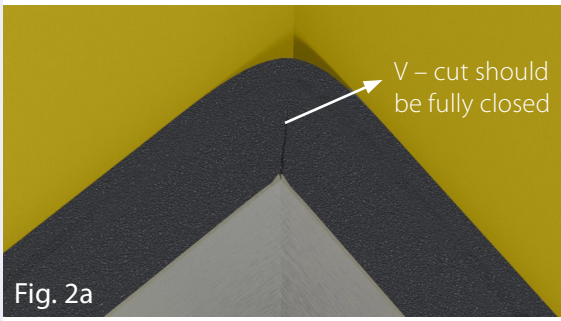
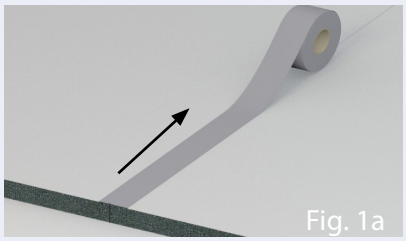


Fig. 2a



Position tape centrally over join and firmly press along the entire tape surface.

MECHANICAL FIXING

1. Install Pins / Hangers

For details on our range of products and application guide , please refer to Technical Data Sheet 512IP

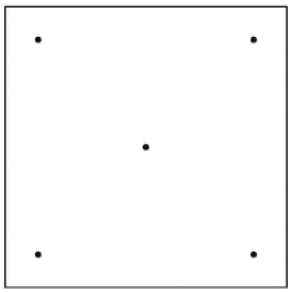
Example:

(Based on product weighing up to 7kg/m^2)

For acoustic insulation:

- 5 pins / m^2 , as per adjacent drawing
- 6 - 8 gm / pin
- 30 - 40 gm adhesive / m^2

DIE PATTERN



2. C– Channel Fixing

'C' channel or a folded return is often used to protect the edge of a product from damage or contamination for instance in an electrical cabinet or compressor enclosure.

It is also used to hold in place, or as a secondary fixing point in conjunction with adhesive or mechanical fixing systems.

The internal flange depth should be the same as the product thickness to give a tight fit

The length of the leg or flange can be from 12 – 15 mm in length

Please contact Pyrotek® for further information or detailed advice on your specific application.