



SORBERBARRIER

Sorberbarrier is supplied in sheets or rolls. Depending on installation preferences and environmental requirements, the product can be bonded to the mounting surfaces in the following ways

1. Pressure Sensitive Adhesive (PSA) (Document ref: **(PSA-IG)**)
2. Contact Adhesive (Document ref: **(CA-IG)**)
3. Mechanical fixing (Document ref: **(MF-IG)**)

Sorberbarrier must be installed with the 'faced' side exposed to the noise source. As the product is a noise barrier and not just an absorber, it is important to maintain the barrier layer intact throughout the enclosure (See Installation at Corners, Butt Joins overleaf)

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 e.g. 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.

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

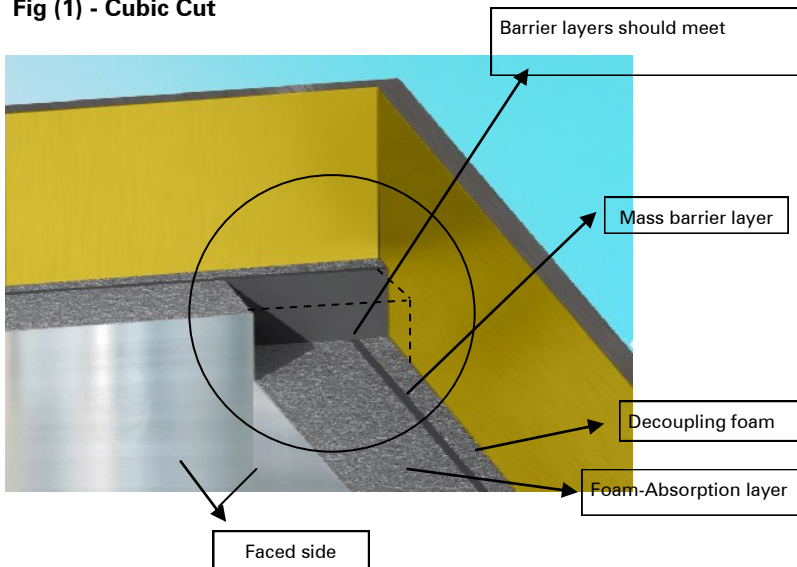
- Install product with the 'faced' side exposed to the noise source.
- For barrier weights of 8 kg or more, we recommend using minimum 3 fastening pins/m² plus at least 1 fastening pins/m². (Refer Mechanical fixing - Document (MF-IG))

SEAL EXPOSED EDGES AND JOINS

- All joints 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.

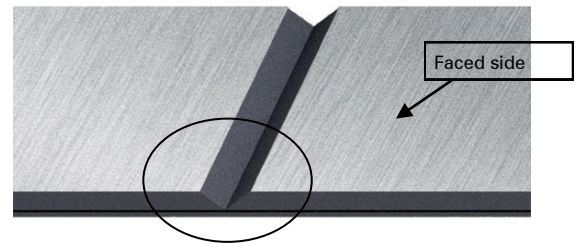
INSTALLATION AT CORNERS

Fig (1) - Cubic Cut



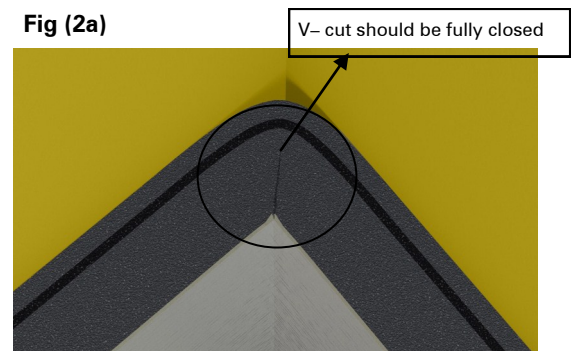
- Cut out length of foam absorption layer from one sheet . Cut from the facing side, up to the barrier layer without tearing or cutting the barrier layer.
- The width of the piece removed should not be greater than the total product thickness of the perpendicular sheet to be bonded.
- Product should be tightly fit in corners.
- Continuous mass barrier layer ensures optimum sound insulation
- Double check for fit by placing /aligning joints before installing.

Fig (2) - 'V' Cut



- Using a straight edge and sharp knife, cut a 45° strip, out of the product facing and front layer of foam.
- The cut out should only be down to the barrier layer taking care not to cut into the mass barrier layer.

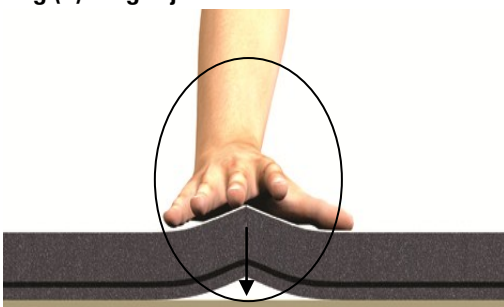
Fig (2a)



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

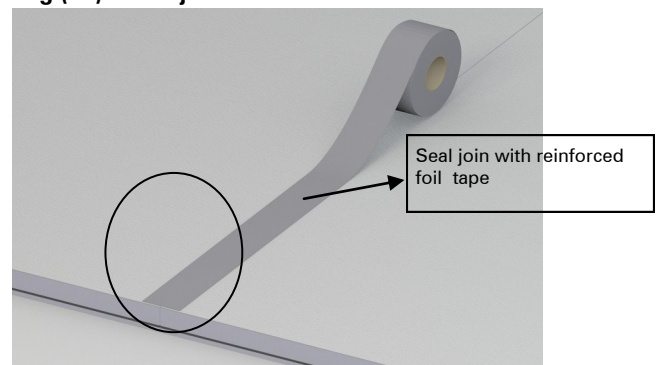
BUTT JOINS

Fig (1) - Tight join



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

Fig (1a) - Seal joint



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

MECHANICAL FIXING

1) Pins and Hangers

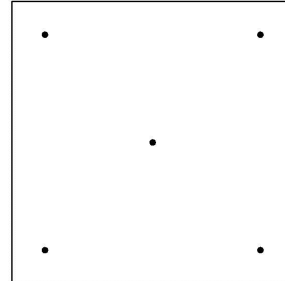
For details on our range of products and application guide , please refer to 'Pins and Hangers - 512IP'

Example :

Based on product weighing up to 7kg/m²

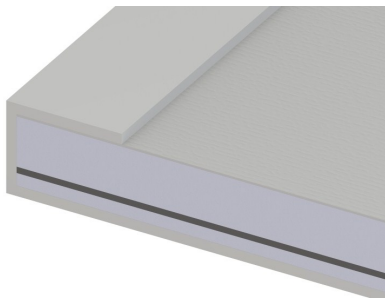
For acoustic insulation

- 5 pins / m² , as per adjacent drawing
- 6 - 8 gm / pin
- 30 - 40 gm adhesive / m²



Die pattern (no.5)

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 height should be the same as the product thickness to give a tight fit

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

Caveats: Specifications are subject to change without notice. The data in this document are typical of average values based on tests by independent laboratories or by the manufacturer and are indicative only. Materials must be tested under intended service conditions to determine their suitability for purpose. The conclusions drawn from acoustic test results are as interpreted by qualified independent testing authorities. Nothing here releases the purchaser/user from responsibility to determine the suitability of the product for their project needs. Always seek the opinion of your acoustic or mechanical engineer on data presented by the manufacturer. Due to the wide variety of individual projects, Pyrotek NC is not responsible for differing outcomes from using their products. Pyrotek disclaims any liability for damages or consequential loss as a result of reliance solely on the information presented. No warranty is made that the use of this information or of the products, processes or equipment to which this Information Page refers will not infringe any third party's patents or rights. DISCLAIMER: This document is covered by Pyrotek standard Disclaimer, Warranty and © Copyright clauses. See www.pyroteknc.com/disclaimer.

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