

category	soundproofing
description	acoustic barrier mat
part code	A100



**Custom
Audio
Designs**



A100 ACOUSTIC BARRIER MAT is a thin, flexible polymeric sound barrier mat loaded with heavy mineral salts.

Combining a high surface mass with 'limp' mechanical characteristics, the product offers optimum acoustic performance.

Primarily designed to improve the sound insulation value of existing panels of metal, wood, plastic and GRP etc. It is particularly effective in reducing the effect of coincidence dip resonance found in these stiff, lightweight materials.

A100 is robust clean & simple to use and can be readily cut to size with a sharp knife.

Additionally the product may be used:

- on its own as a flexible void closure material
- in sandwich constructions between boards
- as a membrane in frequency-selective sound absorbers or as an overlay treatment to materials or constructions with perforations or minor gaps resulting in potential sound leakage.

The product can also be used in multiple offset layers, which both increases the total applied mass and negates the normal requirement for overlap joints to maintain acoustic integrity.

Applications

The product is used in many different applications and industries including construction, marine, automotive and OEM.

Some applications use the product as a component layer within our bespoke composite materials. We can also combine the barrier with acoustic absorbent foams, spacing layers, facings and self-adhesive backings.

Common construction applications include:

- high performance wall and partition constructions
- overlays to timber intermediate floors
- temporary screens on construction sites.

Installation

In general, mechanical fixing is preferred. In vertical applications if the fixings represent the sole means of permanent support for the material, they should be combined with load spreading washers or straps.

Please contact our technical department for advice on the use of adhesives.

Bespoke

Although we generally supply the material in standard sheet sizes we can manufacture to other custom sizes subject to minimum order levels.

Technical Specification

Product	A100 Acoustic Barrier Mat
Colour	Dark grey
Nominal sheet size	950mm x 1250mm (tolerance $\pm 5\%$)
Mean SRI	22dB
Weight	5kg/m ² ($\pm 10\%$)
Nominal thickness*	2.5mm ($\pm 20\%$)
Flammability	Self-extinguishing (FMVSS 302)
Continuous working temperature	Approx. 75°C
For short periods	Approx. 100°C

***NOTE:** This product is made to weight tolerances rather than thickness

Acoustic Performance

