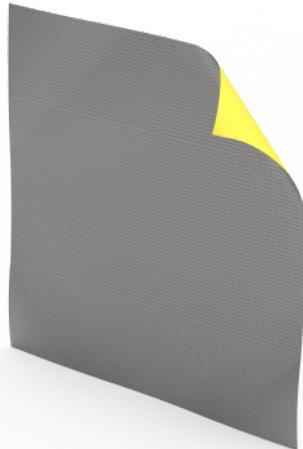


# Siderise BM/P10 Series Acoustic Barrier Mat

Thin, bitumen-free polymeric flexible sound barrier



## Application

Siderise BM/P10 barrier mat is used in many varied applications and industries including construction, marine, automotive, and OEM.

Some applications use the product as a component layer within a bespoke Siderise composite material. The barrier is then optionally combined with sound absorbents, spacing layers, facings, and self-adhesive backings.

Common construction applications include high performance wall and partition constructions; external cladding to ducts / pipes, component in built up metal roof and cladding systems, overlays to timber intermediate floors.

## Product Description

Combining a high surface mass with 'limp' mechanical characteristics, Siderise BM/P10 barrier mat is primarily designed to improve the sound insulation value of existing panels of metal, wood, plastic, GRP, etc. The barrier incorporates a laminated 'anti-creep' layer. This is designed to prevent possible long-term elongation of the product in its normal free hanging condition. It additionally provides reinforcement to through penetrations at fixing points. It is particularly effective in reducing the effect of coincidence dip resonance found in these stiff, lightweight materials.

Additionally, Siderise BM/P10 barrier mat may be used:

- On its own as a flexible void closure material; in sandwich constructions between boards.
- As an internal membrane in built up composites where final flexibility is required.
- As an overlay treatment to materials or constructions with perforations or minor gaps resulting in potential sound leakage.

## Installation

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

product can be cut to size with a sharp knife.

The product is optionally available with a self-adhesive backing layer. Please contact our Interiors technical team for advice on the use of adhesives.

## Fire Performance

In terms of 'Reaction to Fire', the products are classified to EN 13501-1. See Table 1.

**Table 1: Reaction to Fire Performance**

Product Ref.	Classification
BM/P10	B-s1, d0 (foil face)

## Acoustic Performance

The product's acoustic performance is tested in accordance with BS EN ISO 10140-2:2021. Weighted sound reduction index (dB  $R_w$ ) values for various grades of the product are given below in Table 2.

**Table 2: Acoustic performance - Weighted Sound Reduction Index**

Product Ref.	Thickness (mm)	Product Surface Weight ( $\text{kg}/\text{m}^2$ )	$R_w$ (dB)	C:Ctr
BM/P10	5	10	34	(-1;-4)

## Technical Specification

**Table 3: BM/P10 Product Properties**

Properties	Value
Form supplied	Sheets or rolls 2000mm x 1200mm
Colour	Silver
Finish	Bright aluminium Foil
Thickness	5mm
Surface weight	10kg/m <sup>2</sup>
Density	Nominal 1900kg/m <sup>3</sup>
Resistance to fire	None – Acoustic only barrier
Reaction to fire	Class B-s1,d0 (foil face) to EN 13501-1:2018 - see Table 1

## Additional Information Available

### Products available

The following Siderise Building Acoustics products are available:

- Siderise ALS acoustic lining slab
- Siderise AVC acoustic void closures for tops of walls
- Siderise BM/P10 series barrier mat
- Siderise CBX flexible acoustic barriers
- Siderise CVB/LAM acoustic barriers for suspended ceilings
- Siderise CVB/P10 acoustic barriers for suspended ceilings and raised access floors
- Siderise FIP façade interface panel
- Siderise FLX foam based flexible acoustic barriers
- Siderise MC mullion cover
- Siderise MI Mullion/Transom Inserts
- Siderise RF Cavity Barrier and Firestop for Raised Access Floors

Contact us for a copy of our building acoustics range brochure.

Contact us for further information on our CPDs

## Technical Support

### Technical & Sales support

For further information and advice, please contact:

Technical support: Technical Team, +44(0)1473 827695, [technical.sspl@siderise.com](mailto:technical.sspl@siderise.com)

Sales support: Internal Sales Team, +44(0)1473 827695, [sales.sspl@siderise.com](mailto:sales.sspl@siderise.com)

## Context

The information in this datasheet is believed to be accurate at the date of publication. Siderise has a policy of continuous product improvement and reserves the right to alter or amend the specifications of products without prior notice. Siderise does not accept responsibility for the consequences of using the products described outside of the recommendations within this datasheet. Expert advice should be sought where there is any doubt about the correct specification or installation of Siderise products.

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