

# Siderise BM series barrier mat: BM0100

A thin polymeric sound barrier mat loaded with heavy mineral salts that offers exceptional flexibility and can be used in a wide variety of applications.



## Application

Siderise BM series barrier mat: BM0100 is a thin, flexible polymeric sound barrier mat loaded with heavy mineral salts. The product 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; overlays to timber intermediate floors; cladding to external ducts/pipes and for temporary screens on construction sites.

### Benefits

- High acoustic performance.
- Thin and Flexible.
- Reduces 'coincidence dip'.
- Low cost unsupported option.
- Inherent fire resistance.
- Low odour.

## Product description

Combining a high surface mass with 'limp' mechanical characteristics, Siderise BM series barrier mat: BM0100 offers optimum acoustic performance.

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

Additionally, Siderise BM series barrier mat: BM0100 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.
- As an overlay treatment to materials or constructions with perforations or minor gaps resulting in potential sound leakage.

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

Siderise BM series barrier mat: BM0100 can 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.

## 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.

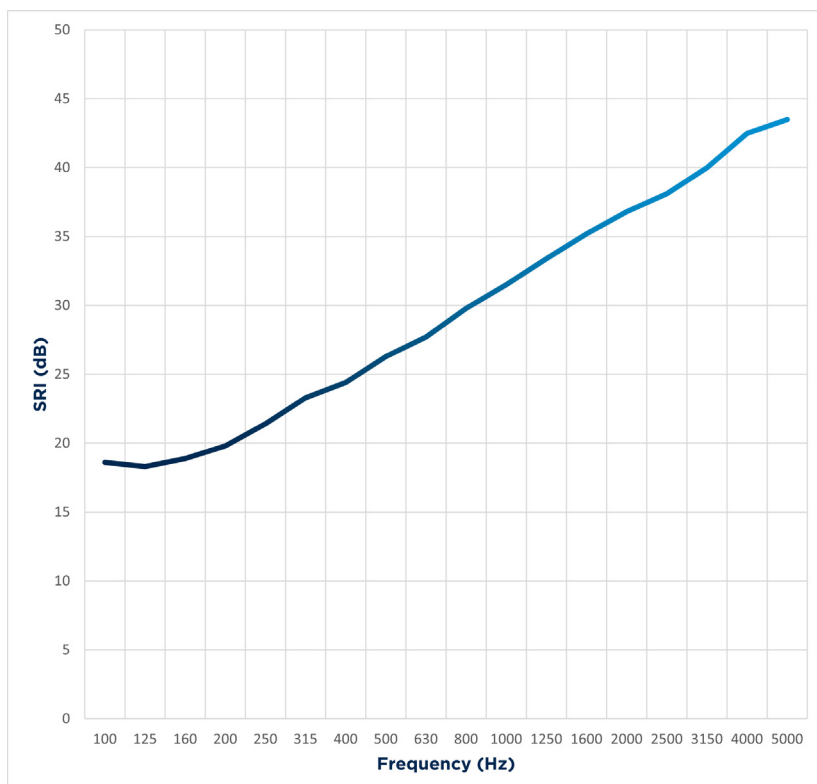
Please contact our Interiors technical team for advice on the use of adhesives.

## Acoustic Performance

Mean SRI (100Hz-3150Hz) = 28 dB

$R_w = 31\text{dB}$

Our Interiors technical team are happy to advise on anticipated performance when used in conjunction with other acoustic materials.



## Technical specification

<b>Colour</b>	Black
<b>Surface weight</b>	10kg/m <sup>2</sup> ±10%
<b>Nominal thickness</b>	4mm (typical measured range -10% +20%)
<b>Tensile strength</b>	2.6MPa (typical min 1.1MPa)
<b>Elongation at break</b>	100% (typical min 30%)
<b>Reaction to fire</b>	Self-extinguishing (FMVSS302)
<b>Continuous working temp</b>	65°C
<b>For short periods</b>	Approx. 90°C

## Further information

### Technical support

For further information please contact our technical team at the address below.

### Available CPD's

Contact Siderise for further information on our CPDs:

- Siderise Acoustic Products for Commercial Interiors -Architect Edition
- Siderise Acoustic Products and Performance with 1/3<sup>rd</sup> Octave Data – Acoustic Consultants Edition

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