

SIDERISE BM series barrier mat: BM0050

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: BM0050 is a thin, flexible polymeric sound barrier mat loaded with heavy mineral salts.

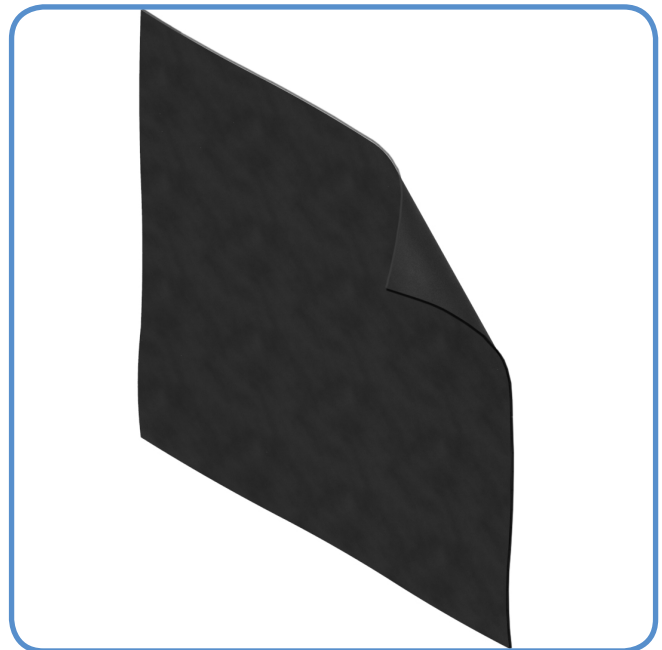
The product is used in many varied applications and industries including construction, marine, automotive, and OEM.

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



**Acoustic, fire and thermal
insulation specialists**

Product description

Combining a high surface mass with 'limp' mechanical characteristics, **SIDERISE BM series barrier mat: BM0050** 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: BM0050** 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: BM0050 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.

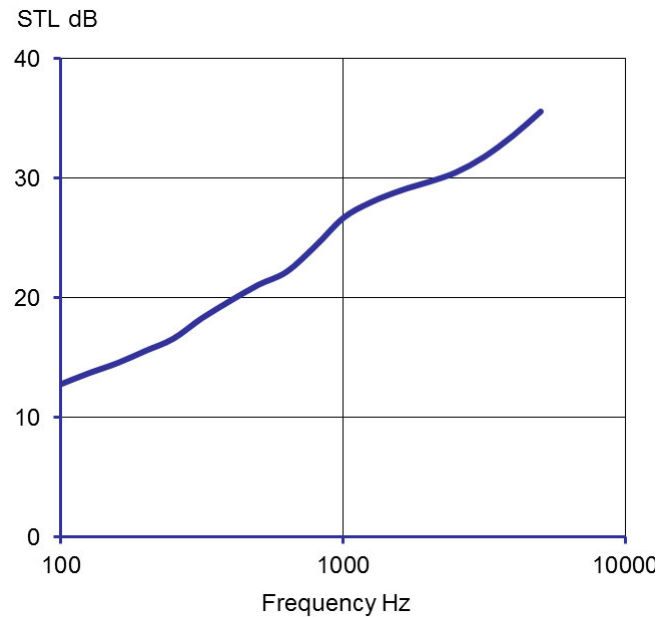
Please contact our Interiors technical team for advice on the use of adhesives.

Acoustic performance

Mean SRI = 22 dB (See Table 1)

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

Table 1 - Acoustic performance



Technical specification

| | |
|-------------------------|------------------------------------|
| Colour | Black |
| Surface weight | 5.0 +/- 0.5 kg / m ² |
| Nominal thickness | 2.5mm |
| Tensile strength | 26 kg/cm ² (BLS30TR903) |
| Tear strength | 17 kg/cm ² (BLS30TR903) |
| Reaction to fire | Self-extinguishing (FMVSS302) |
| Continuous working temp | Approx 75°C |
| For short periods | Approx 100°C |

Products required

The following SIDERISE products are available.

- **SIDERISE BM series barrier mat: BM0050**

Additional information

The following information is available upon request or via download from the website:

- Safety Data Sheet

Environmental

SIDERISE BM series barrier mat: BM0050 are environmentally friendly.

- They contain no Volatile Organic Compounds (VOCs) and no very Volatile Organic Compounds (vVOCs)
- Zero Ozone Depleting Potential
- Global Warming Potential of less than 5
- Recyclable

Specification

Siderise offer specifiers support from initial enquiry and technical consultation to project realisation. NBS draft specifications are provided for standard products and applications and can be tailored to suit specific project performance requirements.

Technical support

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

**Developing insulation solutions
for over 40 years**

