

Barrier Shield

Mass Loaded Vinyl

Barrier Shield - Mass Loaded Vinyl

Description

Noisestop Barrier Shield, mass-loaded vinyl (MLV), is a versatile soundproof mat used in soundproofing applications for floors, walls, and ceilings. This high-density mass-loaded vinyl is a slim acoustic mat that increases the mass and density of the area it is applied to, blocking airborne sounds. MLV is used to manufacture soundproof panels, acoustic underlays, and overlay system to improve the sound insulation of timber floors.

Noisestop Barrier Shield is a high-density mass-loaded vinyl (MLV). Alternatively known as a Flexible Noise Barrier (FNB), a Flexible Acoustic Barrier (FAB), a Limp Mass Barrier (LMB) or Barium Sulphate Loaded Barrier (BSLB).

Barrier Shield will reduce airborne noise transfer between timber floors. Acoustic insulation between floor joists will further enhance the floor's sound insulation.

Soundproof floors using a Barrier Shield MLV

Install Barrier Shield matting over timber flooring to reduce airborne sounds.

Lay your floor finish directly over Barrier Shield, including carpet, engineered wood flooring, LVT and laminate. Use a 6mm ply or MDF board if laying tiles.

Soundproof enclosures with Barrier Shield MLV

Apply the vinyl to the inside of enclosures to block airborne sounds. Combine the Barrier Shield with acoustic Eggbox Foam as an internal lining for housing around noisy machinery and pumps.

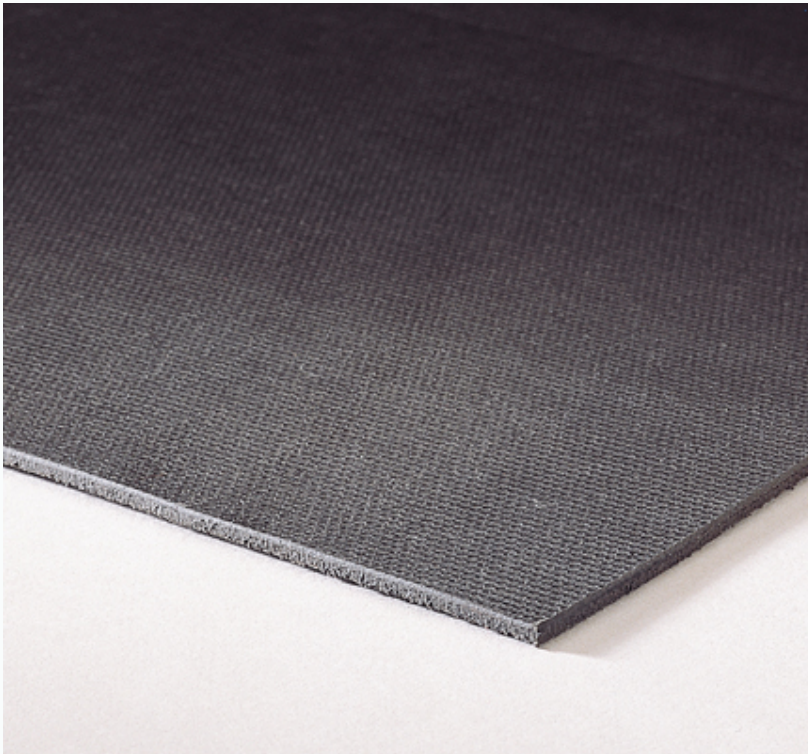
Performance

Performance when tested as a stand-alone barrier. Results will vary depending on the situation in which the materials are applied.

- **10kg Barrier Shield 32dB**
- **5kg Barrier Shield 26dB**

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Specifications



Sheet size 1200mm x 1200mm (1.44sqm)

Thicknesses available

- 2.5mm
- 5mm

Density

- 5kg/m²
- 10kg/m²

Barrier Shield has a recommended static Service Temperature of -50°C up to 100°C, and the surface spread of flame is tested to ISO 3795 and FMVSS 302, which means it is Self-Extinguishing.

Free from SVHC

Barrier Shield products are free from substances of very high concern (SVHC), such as lead, halogens, and unrefined aromatic oils.

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Tear strength

Barrier Shield is manufactured by an extrusion process, which gives this MLV high mechanical strength, making it easy to handle and install. Some manufacturing processes that only use calendaring or casting can cause MLV materials to tear more easily.

Flexibility

The Barrier Shield is thin and highly flexible, which allows easy installation of round corners, pipework, square ducting and steel framework without cracking and tearing. Good lay flat (high memory form) even at cold temperatures (for example, after warehouse storage).

Consistency and stability

High-speed mixing and supercooling ensure that the products are physically stable and robust. They can be warehoused in cold storage without risk of cracking or product deterioration. Under normal environmental conditions, the material does not chemically degrade or change its physical properties over time.

Surface finish

Barrier Shield MLV has specifically been designed to provide better slip resistance and help safer floor installation. It is manufactured with either one side embossed and one side smooth or two sides embossed. The embossed surface increases the surface area to aid adhesion to other laminates.

Clean and oil-free surface.

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Fitting

- Cuts with a sharp knife or heavy-duty scissors
- Install in a brick bond pattern over the floor
- Butt the edges together and use High Tack Tape along the joins
- If required, bond to the floor with Isobond Adhesive (Part E requires the mats to be bonded for new builds and conversions)

Soundproof Enclosures

Line the inside of your enclosure with Barrier Shield.

- Apply the Barrier Shield to the sides of your enclosure using a strong spray adhesive.
- Seal any edges and joins with acoustic sealant.
- Apply a layer of Eggbox Foam over the Barrier Shield using a strong spray adhesive.

The combination of materials adds mass and sound absorption, reducing airborne and vibration sounds.

Associated Products

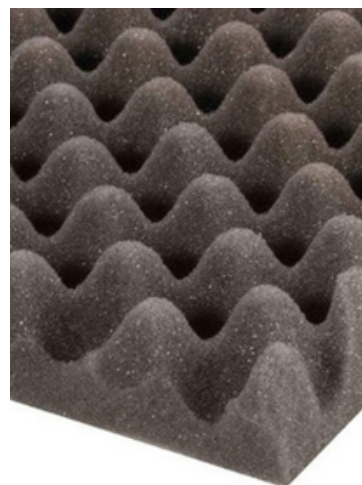
Isobond Adhesive



Smart Tack Adhesive



Eggbox Foam



Acoustic Sealant

