



Soundproofing | Acoustic Insulation | Sound Absorption

01423 339163 | [www.noisestopsystems.co.uk](http://www.noisestopsystems.co.uk)

## Noisestop Systems Product Fitting Guides

### Product Fitting Guide

#### Noisestop Barrier Shield



***Mass loaded barrier membrane that has multiple uses, soundproofing for walls, floors, ceilings and enclosures.***

Noisestop Systems Barrier Shield is a versatile high density soundproof mat with a variety of applications. The matting is used to add mass and density to the area that it is applied. Combine with sheet materials such as plasterboard to form an effective sound barrier for walls and ceilings. Barrier Shield will reduce airborne sound transfer when laid over timber floors. Increase the mass of the lining when building a soundproof enclosure by

applying Barrier Shield to the enclosure.

#### ***Product information***

- Thickness 2.5mm and 5mm
- Weight 5kg and 10kg
- Sheets 1200mm x 1200mm
- Coverage 1.44 sqm

Barrier Shield mats are easy to handle and can be cut to any shape with a sharp knife or a heavy duty pair of scissors. Depending on the type of

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installation you are doing the mats can be fixed to most substrates with a strong spray adhesive, we recommend using Smart Tack adhesive. The mats can also be fixed in place using nails or heavy duty staples.

### ***Fitting Barrier Shield to soundproof walls and ceilings***

Improve the sound insulation of walls and ceilings with Barrier Shield. The mats can be applied to wall and ceiling solutions in a number of ways. To increase the sound insulation of stud walls apply the matting directly to the stud frame by nailing the acoustic barrier to the framework. This way the matting will act as an acoustic curtain to block sound that would normally transfer through light weight stud walls.

Apply Barrier Shield to the back of sheet materials such as plasterboard. The product will increase the mass and density of the panels. By applying it to the back of plasterboards it will reduce vibration of the board, stopping sound transferring. Attach the mats with a spray adhesive to hold them in place before you fit the boards.

Combine Barrier Shield with acoustic insulation slabs, acoustic plasterboard and soundbreaker bars to construct acoustic systems to soundproof walls and ceilings.

### ***Fitting Barrier Shield to floors***

Lay Barrier Shield across timber sub floors to increase the level of sound insulation with this type of floor construction. Sheets should be butted together ensuring no gaps are left. Install the mats right up to the edge of the room, the whole floor area should be covered. The mats do not require fixing to the sub floor. If you are converting a property or carrying out work that has to meet

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Building Regulation Part 'e' you will have to glue the sheets down. Fix the mats to the sub floor with a floor grade adhesive or a spray adhesive.

### ***Soundproof enclosures with Barrier Shield***

Soundproof an enclosure by applying the mats to the surface of the enclosures. For the best level of soundproofing for enclosures use the mats combined with the acoustic grade eggbox foam.

Use an adhesive to bond the Barrier Shield to the inside of the enclosure. Use Smart Tack adhesive to bond the material as this has excellent adhesion strength. Once the enclosure has been lined with the mats fix the eggbox foam over the mats. The build up of the enclosure should be, the enclosure on the outside, the barrier mats applied to the inside of the enclosure and the eggbox foam over the barrier mats.

Combining the two materials to the inside of the enclosure will increase the mass of the enclosure and absorb sound as it reverberates inside. This method of soundproofing is used for household pumps and can be scaled up to larger pieces of machinery.

If you need any help regarding products or how they are fitted, call 01423 339163.

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### Noisestop Systems

Noisestop Systems supply specialist soundproofing, acoustic insulation and sound absorption products throughout the UK. Our bespoke range of acoustic products are manufactured and supplied from our site in North Yorkshire.

We have had over twenty years working in the acoustic and soundproofing industry. In that time we have developed a range of products that offer solutions to the most common domestic and commercial noise issues.

For more information please visit our website [www.noisestopsystems.co.uk](http://www.noisestopsystems.co.uk)

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