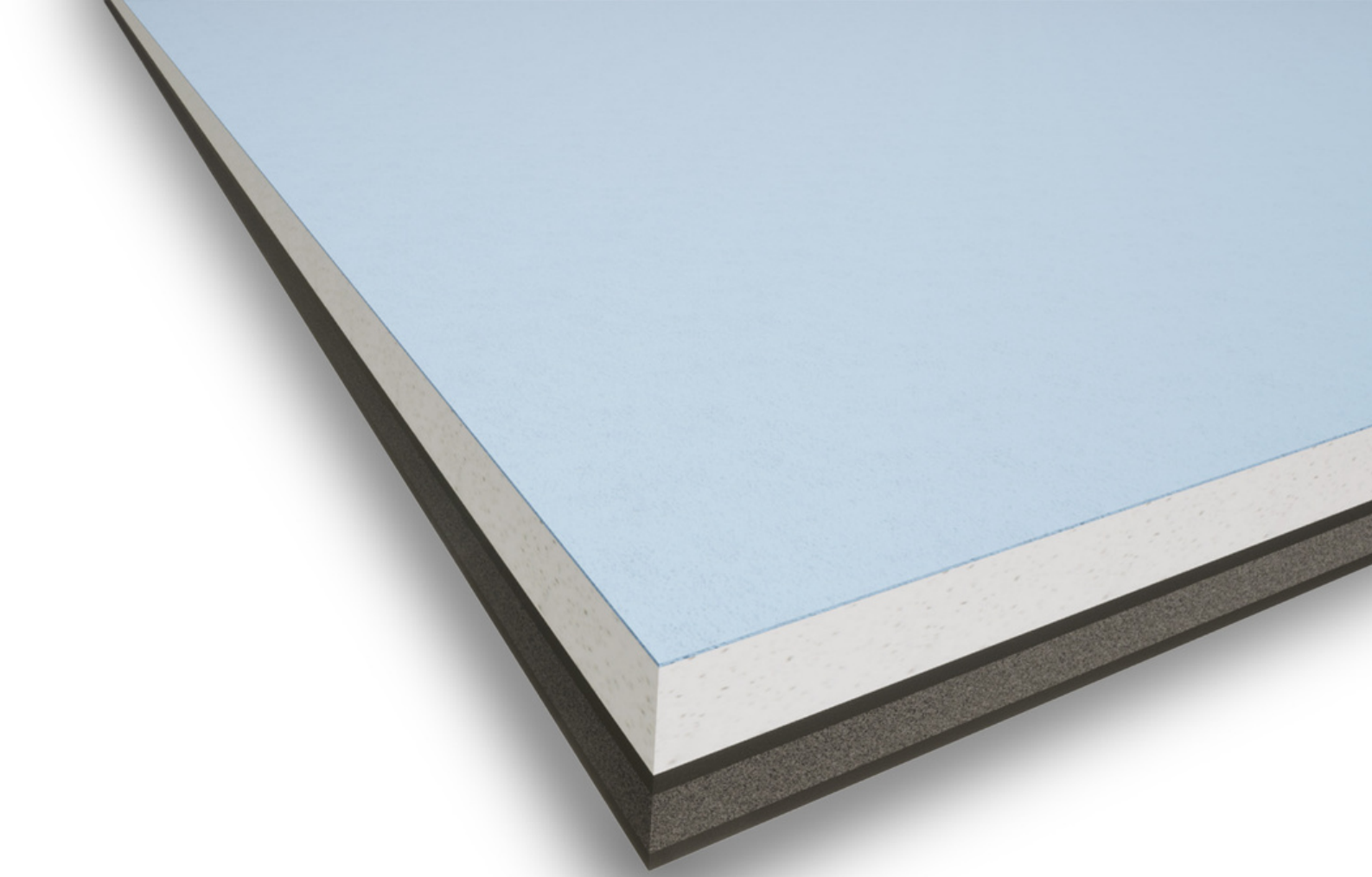


PRO SOUND™

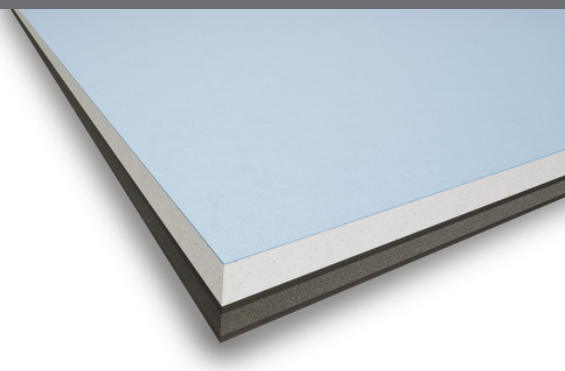
SoundBoard 4

Wall Installation Guide & Product Overview

the soundproofing store

www.soundproofingstore.co.uk
sales@soundproofingstore.co.uk
01423 206208

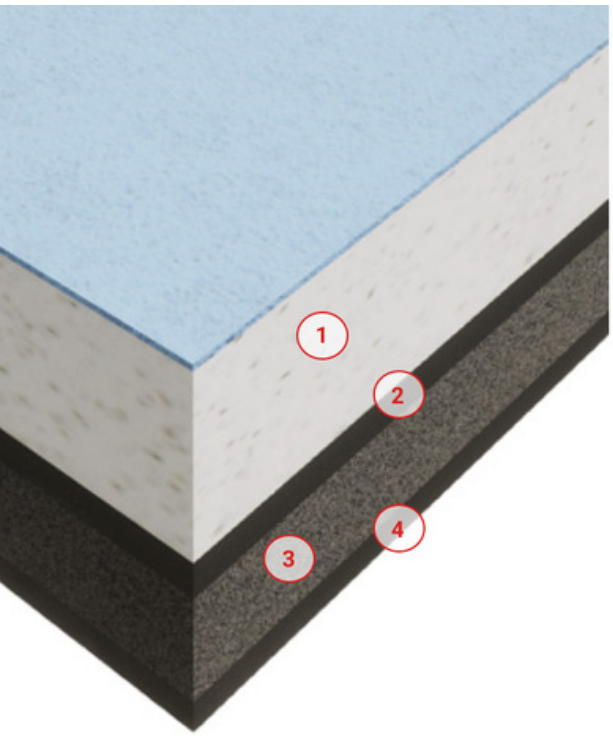
Overview



The SoundBoard 4 is an unrivalled direct to wall soundproofing panel designed to increase the mass of solid walls.
Effective on stud walls, or low quality brick walls helping to create peace and quiet within your home.
At an incredibly thin 30mm the SoundBoard 4 offers a perfect solution when space constraints from door frames or windows limit the use of other systems.

Why Use SoundBoard 4

- **Excellent choice for existing low mass structures** - improve the soundproofing capabilities of your wall to achieve peace, quiet and privacy within your own home
- **Straightforward DIY installation** - saving you time and money, without the need of extra labour costs
- **Saves you space** - when space is an absolute premium, achieve the best result you can with the space you have
- **Fast delivery lead times** - 3 - 5 working days



Features

4 layers of Soundproofing materials:

1. 15mm Acoustic Plasterboard - heavier and more dense than standard plasterboard. Adds more mass to the wall to help block airborne noise. The same final finish as standard plasterboard for final decoration

2. 3mm Mass Loaded Vinyl - high mass acoustic barrier to help block airborne noise

3. 9mm Closed Cell Foam - dampens sound energy and vibrations

4. 3mm Mass Loaded Vinyl - a second layer of high mass to further block airborne noise

ProSound SoundBoard 4
Wall Performance

SoundBoard 4 (Performance on 100mm brick wall)	Airborne Performance (Higher dB figure the better)
SoundBoard 4 fitted to 100mm brick wall	**43dB** (DnT,w)
Untreated 100mm brick wall	**38dB** (DnT,w)

With airborne noise a higher value equals a better performance

Airborne sound improvement after SoundBoard 4 was fitted	**5dB**

SoundBoard 4 (Performance on 100mm stud partition wall)	Airborne Performance (Higher dB figure the better)
SoundBoard 4 fitted to 100mm stud partition	**52dB** (DnT,w)
Untreated 100mm stud partition*	**35dB** (DnT,w)

With airborne noise a higher value equals a better performance

*12.5mm standard plasterboard, 100mm timber stud frame and 12.5mm standard plasterboard

Airborne sound improvement after SoundBoard 4 was fitted	**17dB**

For context 10dB improvement is generally perceived by the human ear to being a halving of noise.

For further information on decibels **CLICK HERE**

For more performance data and building regulation compliance please **CLICK HERE**

Specification

- **Size:** 1200mm x 1200mm x 30mm (1.44m^2)
- **Weight:** 41kg (28.50kg per m^2)

Thermal Conductivity:

- **Plasterboard:** 0.25 W/mK
- **MLV:** 0.037 W/mK
- **9mm Closed Cell Foam:** 0.039 W/mK

Thermal Resistance:

- **Plasterboard 15mm:** 0.060m^2 K/W
- **MLV:** 0.095 m^2 K/W
- **9mm Closed Cell Foam:** 0.23 m^2 K/W

Fire:

- **Plasterboard:** EN13501-1: A2-s1, d0
- **MLV:** Surface spread of flame is tested to ISO 3795 and FMVSS 302 - Self Extinguishing
- **9mm Closed Cell Foam:** FMVSS 302

System Components

- Hammerfix Screws (80mm x 6mm) Pack of 100
- Acoustic Sealant 900ml
- Jumbo 900ml Applicator Gun
- Scrim Tape
- 5mm Packers / Spacers

Please Note: The boards are heavy and we recommend two people for installation

Cutting

The SoundBoard 4 should be cut using a circular saw or jigsaw fitted with a fine toothed blade. This is to ensure a straight cut and smooth finish. A straight edge cutting guide is recommended too.

Installation Instructions

The below installation instructions are for when fitting the SoundBoard 4 to solid masonry walls i.e. Brick, blockwork and concrete.

For instructions on fitting the SoundBoard 4 on to an existing timber stud frame please see pages **8 - 10**

Solid Brick Wall Installation Instructions

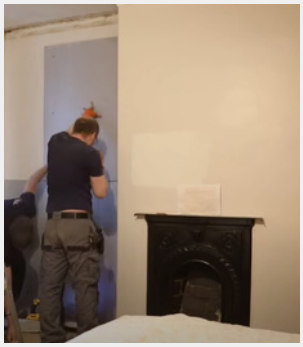
1. Remove all skirting and coving.

Dot and dab plasterboard should also be removed from the wall being treated and cut away on returning side walls by 35mm.

2. Make sure the wall is flat, clean and that all dust is wiped away.

3. SoundBoard 4 is supplied in standard sheets (1.2m x 1.2m) which are fixed directly to the wall.

The installation should start in the bottom left or righthand corner. Cuts should be planned out prior to fitting. Each section of SoundBoard 4 should have a minimum length and width of 200mm.



4. Offer your first board to the wall making sure it sits square **leaving a 5mm gap around the perimeter edge of the wall, floor and ceiling.** You may need to scribe the boards to follow the curvature of your surrounding walls, floor and ceiling to maintain the 5mm gap.

Use 5mm packers to lift the board off the floor and to isolate the board from surrounding surfaces.

5. While holding the boards in position drill 9 80mm depth holes through the SoundBoard 4 into the wall behind.
Insert the Hammerfix fixings into the holes. The Hammerfix should push in easily and the nylon plug section should be flush with the face of the board.
Hammer or screw the fixing in place until the screw head is also flush with the board.

6. Once the first board is in position, apply the second board butting up tightly to the previous board and continue.

7. Start the second row from where the first ended to give the boards a staggered joint. Follow the same procedure until the wall is completed. Ensuring the first board is flush and square will make the rest of the installation easier.

8. The 5mm gap around the perimeter of the whole wall is then filled with Acoustic Sealant ensuring maximum performance of the SoundBoard 4.

It is best practice to apply sealant over all joins in the boards. Use a putty knife to smooth off.

9. The SoundBoard 4 is then ready for standard plasterboard finishing.
A plaster skim finish is most common but heavy duty backing paper can also be used.

Plug Sockets

Address light switches and plug sockets with either Acoustic Putty Pads or the use of surfaced mounted plug sockets.

Installation Instructions

The below installation instructions are for when fitting the SoundBoard 4 to existing stud frame walls.

For instructions on fitting the SoundBoard 4 to an existing solid masonry wall please see pages **5 - 7**

Stud Partition Wall Installation Instructions

1. Remove all skirting and coving.

Note: If installing acoustic mineral wool then remove existing plasterboard and fit mineral wool in between existing stud work. Replace plasterboard layer and note stud location for fixing SoundBoard 4. Then proceed to step 2.

If you have dot and dab plasterboard fitted on the returning side walls this should be cut away by 35mm.

2. Make sure the wall is flat, clean and that all dust is wiped away. Fill any gaps in existing plasterboard with acoustic sealant.

3. Use a stud locator to ascertain where the timber studs are. The soundboard must be fixed into the studs of the wall to ensure a solid fixing using suitable length dry wall screws. Mark stud locations on floor / ceiling prior to fitting.

The installation should start in the bottom left or righthand corner. The edges of the boards that are meeting each other should finish on the centre of a stud.

4. Offer your first board to the wall making sure it sits square **leaving a 5mm gap around the perimeter edge of the wall, floor and ceiling.** You may need to scribe the boards to follow the curvature of your surrounding walls, floor and ceiling to maintain the 5mm gap.

Use 5mm packers to lift the board off the floor and to isolate the board from surrounding surfaces.

5. While holding the boards in position use suitable length drywall screws to fix the board into the stud work. Screws should go into the stud at least 25mm. We recommend a screw every 200 - 300mm on each vertical stud. The screw head should be flush with board when screwed in place.

Tip: Use a chalk line or draw a line on the face of the board between the stud markers you did earlier. This will indicate where the screws need to be put.

6. Once the first board is in position, apply the second board butting up tightly to the previous board and continue.

The edges of the boards that are meeting each other should finish on the centre of a stud.

7. Start the second row from where the first ended to give the boards a staggered joint. Follow the same procedure until the wall is completed. Ensuring the first board is flush and square will make the rest of the installation easier.

8. The 5mm gap around the perimeter of the whole wall is then filled with Acoustic Sealant ensuring maximum performance of the SoundBoard.

It is best practice to apply sealant over all joins in the boards. Use a putty knife to smooth off.

9. The SoundBoard 4 is then ready for standard plasterboard finishing.
A plaster skim finish is most common but heavy duty backing paper can also be used.

Plug Sockets

Address light switches and plug sockets with either Acoustic Putty Pads or the use of surfaced mounted plug sockets

Important Notes

- SoundBoard 4 should be stored flat
- For installations and applications not listed, please contact The Soundproofing Store for guidance
- The boards weigh 41kg each and will need two people to lift them
- As these boards will add a great deal of weight to your wall, you may wish to check with a structural engineer to ensure compatibility
- SoundBoard 4 is a handmade laminated product and has a tolerance of 2-3mm
- If you are employing fitters, it's recommended they are booked after materials have been delivered
- The mass loaded vinyl layer may emit a small odour when installed. This will dissipate in time and ventilating the room for 24 hours after fitting is recommended

PROSOUND™

SoundBoard 4

Exclusively available through The Soundproofing Store