

PRO)))SOUND™

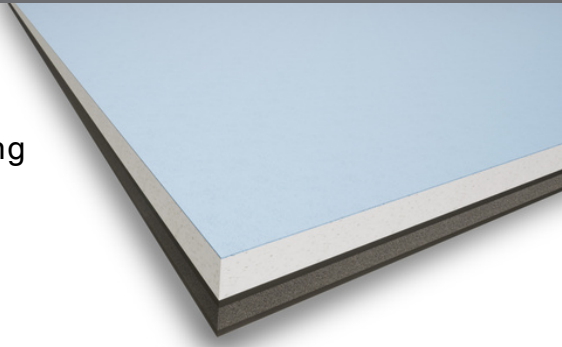
SoundBoard 4

Timber Joist Ceiling Installation
Guide & Product Overview

Overview

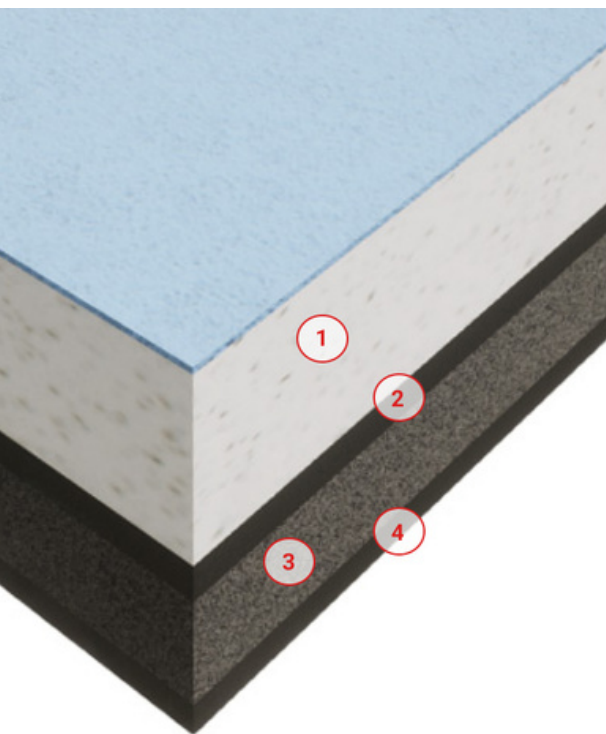
The SoundBoard 4 is an incredibly slim (30mm) direct to ceiling soundproofing panel designed to reduce unwanted airborne noise, helping to create peace and quiet within your home.

Different layers of mass are cleverly combined in one easy to install product which helps to improve the soundproofing capabilities of timber joist ceilings.



Why Use SoundBoard 4

- **Excellent choice for airborne noise** - improve the soundproofing capabilities of your ceiling 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

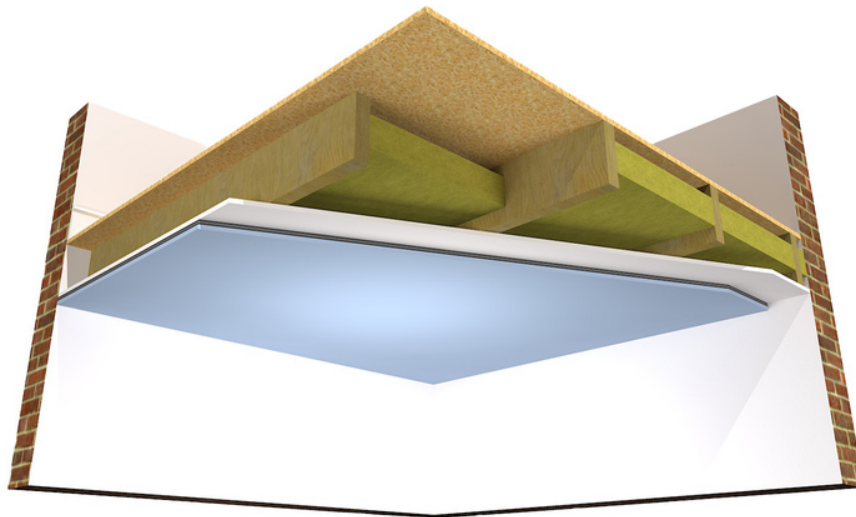


Features

4 layers of Soundproofing materials:

1. 15mm Acoustic Plasterboard - heavier and more dense than standard plasterboard. Adds more mass to the ceiling 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 mild vibrations
4. 3mm Mass Loaded Vinyl - a second layer of high mass to further block airborne noise

ProSound SoundBoard 4
Timber Ceiling Performance



| SoundBoard 4 (Performance on timber joisted ceiling) | Airborne Performance (Higher dB figure the better) | Impact Performance (Lower dB figure the better) |
|--------------------------------------------------------------------------|--------------------------------------------------------------|-----------------------------------------------------------|
| SoundBoard 4 fitted to timber joist ceiling (With 100mm mineral wool) | 49dB (DnT,w) | 74dB (L'nT,w) |
| Untreated timber joisted ceiling performance * (Before SoundBoard 4) | 38dB (DnT,w) | 82dB (L'nT,w) |

**Timber joist structure with one layer of 18mm T&G chipboard directly fixed as structural floor and 12.5mm plasterboard directly fixed as ceiling

For more performance data and building regulation compliance please [CLICK HERE](#)

Performance Explained

| | |
|----------------------------------------------------------|-------------|
| Airborne sound improvement after SoundBoard 4 was fitted | 11dB |
| Impact sound improvement after SoundBoard 4 was fitted | 8dB |

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

For Impact noise issues we recommend the ReductoClip Ceiling System be used

For further information on decibels [CLICK HERE](#)

Specification

- **Size:** 1200mm x 1200mm x 30mm (1.44m²)
- **Weight:** 41kg (28.50kg per m²)

Thermal Conductivity:

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

Thermal Resistance:

- **Plasterboard 15mm:** 0.060m² K/W
- **MLV:** 0.095 m² K/W
- **9mm Closed Cell Foam:** 0.23 m² 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

- 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 directly to a **timber joist ceiling**.

1. Remove all coving from the current ceiling.

If installing acoustic mineral wool then remove existing plasterboard and fit mineral wool in between existing joists. Replace plasterboard layer and note ceiling joist location for fixing SoundBoard 4.

Dot and dab plasterboard fitted on any walls should be cut away and down from the ceiling by 35mm. (This is to ensure new ceiling layers meet up with the solid walls)



2. Make sure the ceiling 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 joists are. The soundboard must be fixed into the joists of the ceiling to ensure a solid fixing. Mark joist locations on side walls prior to fitting.

The installation should start in the corner of the ceiling. The edges of the boards that are meeting each other should finish on the centre of a ceiling joist



4. Offer your first board to the ceiling making sure it sits square **leaving a 5mm gap around the perimeter edge of the ceiling where the board meets a wall.** 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 isolate the board from surrounding surfaces.

Tip: We recommend using a plasterboard lifter as the materials are very heavy.



5. While holding the boards in position use suitable length drywall screws to fix the board into the timber joist. Screws should go into the joist at least 35mm. We recommend a screw every 200 - 300mm on each joist. The screw head should be flush with the board when screwed into place.

Tip: Use a chalk line or draw a line on the face of the existing plasterboard board between the 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.

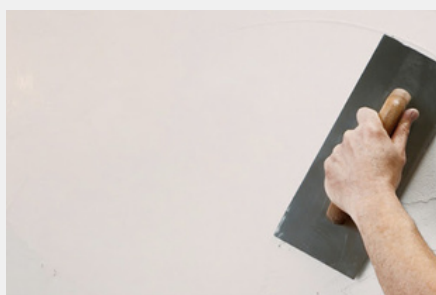
The edges of the boards that are meeting each other should finish on the centre of a joist.



7. Start the second row from where the first ended to give the boards a staggered joint. Follow the same procedure until the ceiling 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 ceiling is then filled with Acoustic Sealant ensuring maximum performance of the SoundBoard.

It is best practice to apply sealant over all joints 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.

Light Fixings

We recommend using surface mounted lights or single pendant type lighting. This is to minimise the amount of holes you are creating through the mass layers of the soundproofing.

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 ceiling, 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

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SoundBoard 4

Exclusively available through The Soundproofing Store