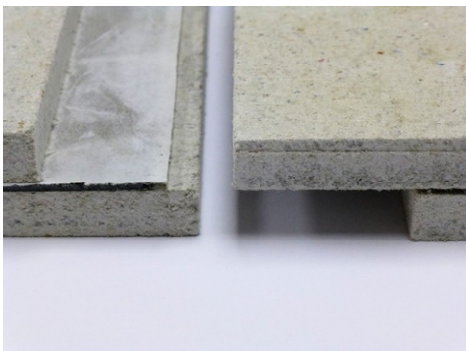




SilentWall

SilentWall has been designed to provide additional performance compared to the more traditional plasterboard products available on the market through the use mass density gypsum fibreboard either side of a further mass loaded vinyl barrier designed to physically decouple the 2 layers of fibreboard.

SilentWall are supplied with overlap joints to ensure correct fitting is made easier and also includes self-adhesive to the joints to ensure a positive fit.



Key Features and Benefit

- Can be used to meet Approved Document E
- Only 22mm thick
- Can be used on walls and ceilings
- Self-adhesive jointing strips to the overlap joints
- Ideal for conversion and new build
- Used to reduce airborne and impact noise

Applications

- Schools
- Airports
- Sports stadia
- Multi-purpose arenas
- Recording studios
- Theatres
- Workshops
- Control rooms
- Plant rooms
- Factories

Colour and Finish

SilentWall is supplied in white paper backed gypsum fibreboard with a black vinyl mass layer between the fibreboard.

Moisture Resistance

SilentWall is manufactured from a gypsum fibreboard and should be fitted in conjunction with the manufacturer's recommendations.

Operating Temperature

Suitable for use at normal building temperatures.

Dimensions and Weight

Board Size: 1200mm x 600mm x 22mm
Weight Per Board: 20.5kg (28.45kg/m²)

Acoustic Performance

Walls

Tested as a typical timber stud partition with SilentWall system to one side and 2 x plasterboard layers on the other

Airborne $D_{nT,w}$ (dB)	$D_{nT,w} +$ C_{tr} (dB)
54	45

Ceilings

Typical timber joist construction

Airborne $D_{nT,w}$ (dB)	$D_{nT,w} +$ C_{tr} (dB)	Airborne $L_{nT,w}$ (dB)
54	45	61

Fire Performance

Ceilings

Fire Tested to BS476: Part 21:1987

Load Bearing Capacity: 90 minutes

Integrity: 90 minutes

Insulation: 90 minutes

Technical Advice

Highly qualified building and acoustic consultants are available to offer assistance and advice to clients, architects and contractors on all aspects of noise control to ensure design specifications and acoustic performance requirements are achieved. They can also undertake noise surveys and provide details of anticipated reverberation times pre and post installation.

Packaging, Handling and Storage

SilentWall should be stored flat, under cover in a dry, well-ventilated area protected from dirt and dust.

Application and Fixing - Ceilings

When applied correctly SilentWall will improve sound insulation to meet Approved Document E and achieve a 90 minute fire rating.

1. Friction fit 100mm thick Reduc SoundSlab between joists
2. Fit heavy-duty resilient bars to the underside of the joists at 300mm centres
3. SilentWall boards fixed to the resilient bars using 32mm self-drilling screws
4. Boards fitted in a brick bond pattern, with staggered joints and no gaps and using the self-adhesive tape pre-fitted to the boards
5. Trim overlap joint of each board where it meets a wall
6. Fill all perimeter edges with an acoustic mastic seal to prevent sound transmission through these areas
7. Use the same filler to treat any gaps between boards as well
8. Before skimming fit an additional layer of 12.5mm plasterboard to the underside ensuring this is fixed back direct to the resilient bars

Application and Fixing - Walls

1. Build stud work wall in line with standard practices
2. Fit Plasterboard to one side using conventional practices
3. Fit resilient bars to the stud work on other side
4. Fit SilentWall panels in brick bond pattern ensuring screws are only used through the overlap area of the boards. Screws must only go directly into the resilient bar.
5. Trim edges that run flush with ceilings, floors or walls and fill any gaps using an acoustic rated mastic

The information contained in this data sheet is believed to be correct at the date of publication. The information is based on our general experience and is given in good faith but because of the many factors outside our knowledge and control which may affect the product no warranty is given or is to be implied with respect to such information. H&H Acoustic Technologies Ltd reserves the right to alter or amend the specification of their products without notice as their policy is one of constant improvement.