

PhonoWall®

Product Datasheet

PhonoWall® — high-performance acoustic wall lining

PhonoWall® is a high-performance acoustic wall-lining system engineered to significantly reduce airborne sound transmission through both new and existing masonry walls.

System options

PhonoWall® 24: Acoustic-rated plasterboard bonded to a heavy mass layer with a resilient polyethylene (PE) foam interlayer for effective control of mid- to high-frequency noise.

PhonoWall® 27 Pro: As above, with an **additional** heavy mass layer separated by the resilient interlayer to further improve performance, including enhanced attenuation at lower (bass) frequencies.

PhonoWall® 27 FD60 Max: As per the 27 Pro build-up, but incorporating **fire-rated plasterboard** to achieve **FD60** for commercial approvals, laminated to the acoustic build-up.

Space-saving installation

Fixed **directly to the wall**, no timber battens or resilient bars required, minimising loss of room space. The **slim design** makes PhonoWall® ideal for existing properties where space is at a premium, as well as new builds with lightweight blockwork. Installed with **80 mm hammer-in fixings**; once fixed, the surface can be **decorated immediately**.

Applications and compliance

Suitable for refurbishing existing masonry walls and for converting them into partition or separating walls between dwellings. An easy to fit, slimline solution for domestic and commercial projects requiring improved sound insulation **without compromising space**.

Designed to **comply with Part E** of the Building Regulations.



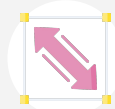
Image of PhonoWall® 27 Pro

PART E - PCT SOLUTION

Key Features



100% recycled resilient layer



Low profile build for minimal space loss



Direct to wall solution



Excellent airborne sound reduction



Quick and easy to install



Sourced and manufactured in the UK

Acoustic Ratings For:

MW

TS

MC

TC

Direct-to-wall acoustic upgrade.
High performance, versatile acoustic isolation system.



SpecifiedBy



MADE IN
BRITAIN



ISO 9001
2015
CERTIFIED

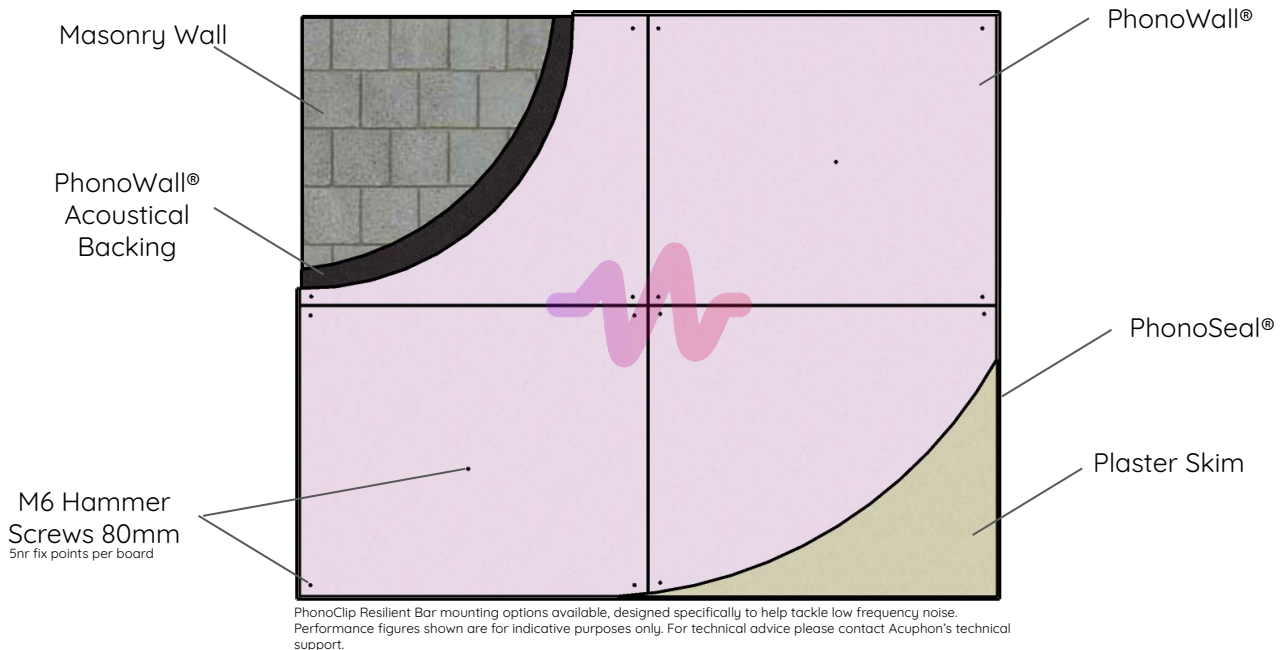


PhonoWall® Slimline Wall Soundproofing Solution .

Product	Airborne	Impact	Weight	Weight/m ²	Pallet Quantity
PhonoWall® 24 1200 x 1200 x 24mm	54dB	N/A	21.4kg	14.86kg	50
PhonoWall® 27 Pro 1200 x 1200 x 27mm	59dB	N/A	29.4kg	20.41kg	50
PhonoWall® FD60 Max 1200 x 1200 x 27mm	59dB	N/A	29.4kg	20.41kg	50

Values quoted are typical and based on the treatment being installed correctly and pre-completion tested (PCT). Performance figures shown are for indicative purposes only. For technical advice please contact Acuphon's technical support.

Acoustic Ratings For:



Application

PhonoWall® — direct-to-wall acoustic upgrade

PhonoWall® is a direct-to-partition and masonry wall solution for new or existing walls that require acoustic improvement to **comply with Part E** of the Building Regulations. When installed, PhonoWall® significantly reduces **airborne sound** transmission.

Fixing and finishing

- Typically fixed to blockwork, brickwork or partitions using **M6 × 80mm metal hammer-in anchors** or **plasterboard screws** (as appropriate to the substrate).
- Joints should be **taped and jointed** or the surface **skimmed** prior to decoration.

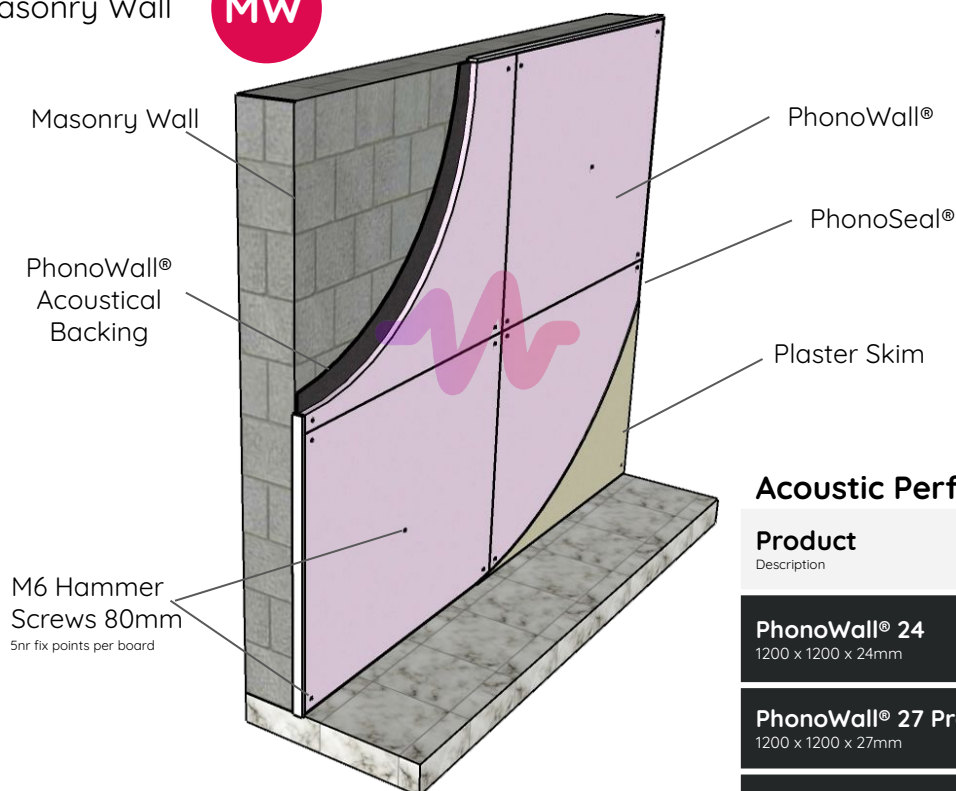
Flanking floors

Floors connected to the separating wall can carry both airborne and impact sound into adjacent spaces (above, below or next door). It is essential to remedy potential gaps and junctions to prevent flanking paths. For project-specific junction details and to achieve the best performance from your PhonoWall® system, please contact the **Acuphon** technical team using the details below.



PhonoWall® Applications and their Typical Acoustic Performance.

Masonry Wall

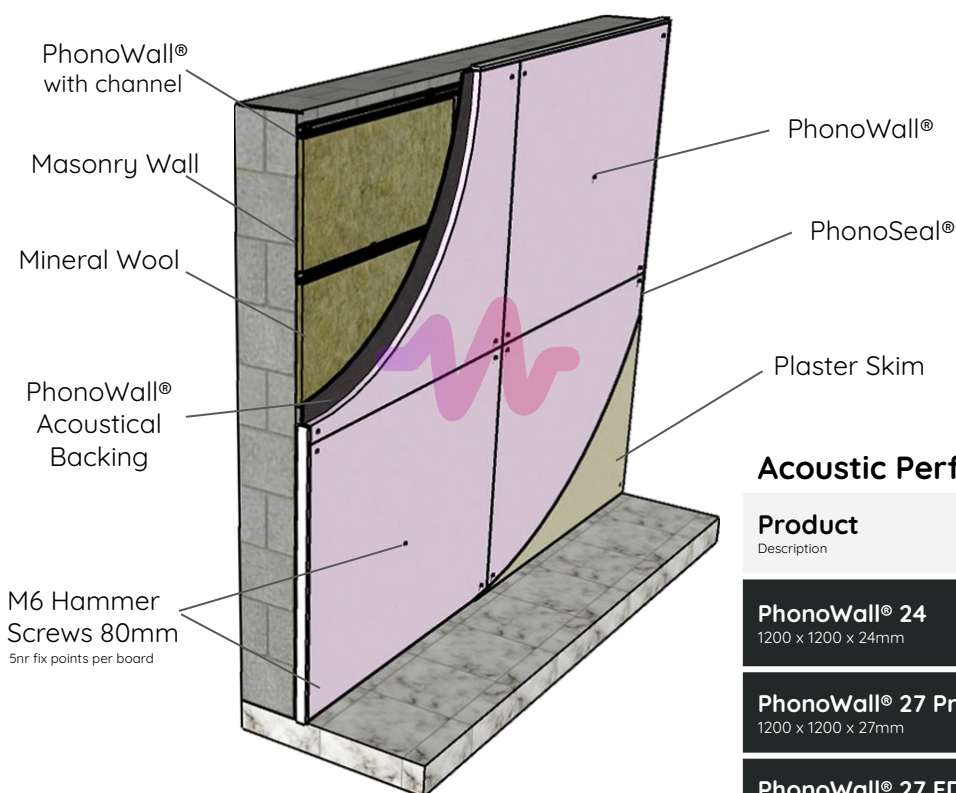
MW

Acoustic Performance

Product Description	DnT,w Weighted airborne value	DnT,w + Ctr Weighted airborne value + Ctr
PhonoWall® 24 1200 x 1200 x 24mm	50dB	43dB
PhonoWall® 27 Pro 1200 x 1200 x 27mm	53dB	46dB
PhonoWall® 27 FD60 Max 1200 x 1200 x 27mm	53dB	46dB

Results based on PhonoWall being installed directly to masonry blockwork (as shown) and all flanking paths removed. Performance figures shown are for indicative purposes only. For technical advice please contact Acuphon's technical support.

Masonry Wall with PhonoClip®

MC

Acoustic Performance

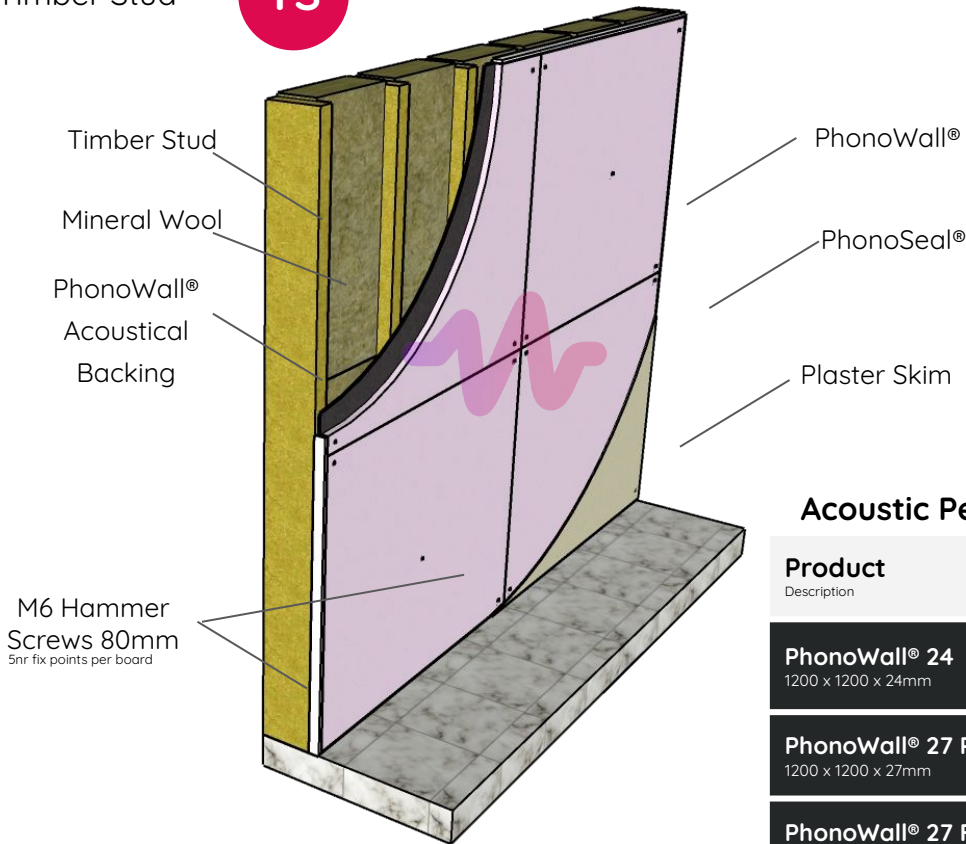
Product Description	DnT,w Weighted airborne value	DnT,w + Ctr Weighted airborne value + Ctr
PhonoWall® 24 1200 x 1200 x 24mm	53dB	46dB
PhonoWall® 27 Pro 1200 x 1200 x 27mm	56dB	49dB
PhonoWall® 27 FD60 Max 1200 x 1200 x 27mm	56dB	49dB

Results based on PhonoWall being installed directly to masonry blockwork (as shown) and all flanking paths removed. Performance figures shown are for indicative purposes only. For technical advice please contact Acuphon's technical support.



PhonoWall® Applications and their Typical Acoustic Performance.

Timber Stud

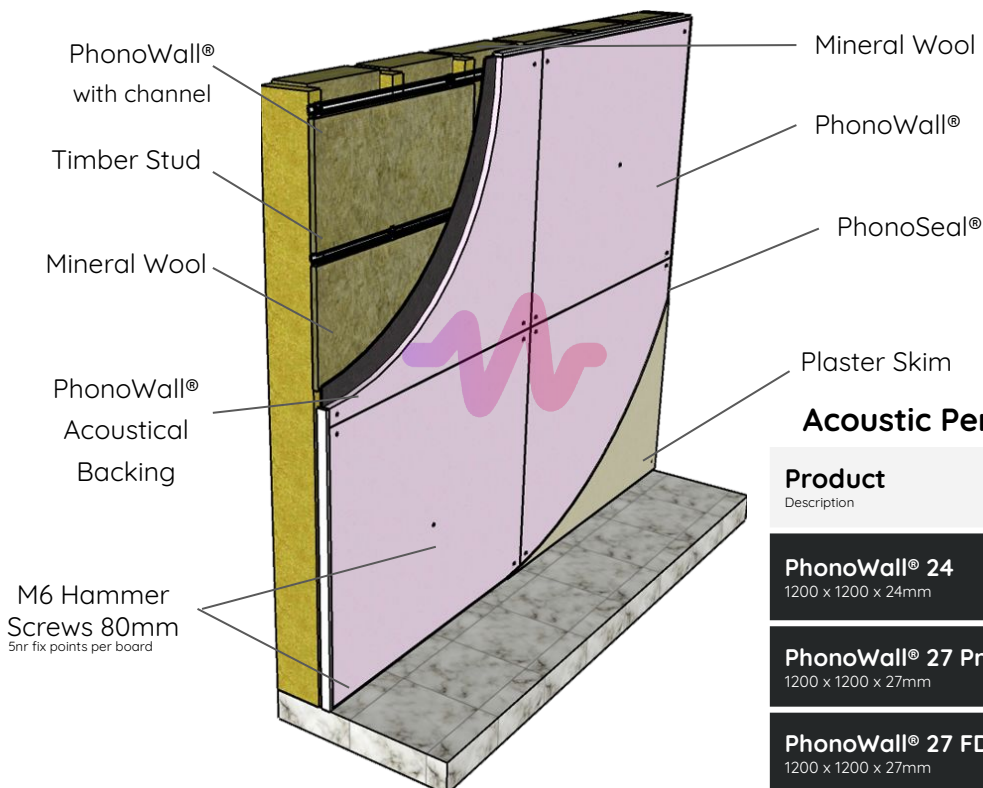
TS

Acoustic Performance

Product Description	DnT,w Weighted airborne value	DnT,w + Ctr Weighted airborne value + Ctr
PhonoWall® 24 1200 x 1200 x 24mm	51dB	46dB
PhonoWall® 27 Pro 1200 x 1200 x 27mm	56dB	51dB
PhonoWall® 27 FD60 Max 1200 x 1200 x 27mm	56dB	51dB

Results based on PhonoWall being installed directly to timber studs (as shown) and all flanking paths removed. Performance figures shown are for indicative purposes only. For technical advice please contact Acuphon's technical support.

Timber Stud with PhonoClip®

TC

Acoustic Performance

Product Description	DnT,w Weighted airborne value	DnT,w + Ctr Weighted airborne value + Ctr
PhonoWall® 24 1200 x 1200 x 24mm	54dB	49dB
PhonoWall® 27 Pro 1200 x 1200 x 27mm	59dB	54dB
PhonoWall® 27 FD60 Max 1200 x 1200 x 27mm	59dB	54dB

Results based on PhonoWall being installed on to a PhonoClip resilient bar system attached to timber studs (as shown) and all flanking paths removed. Performance figures shown are for indicative purposes only. For technical advice please contact Acuphon's technical support.



Fire Performance

PhonoWall® features 15mm high density Acoustic & Fire rated plasterboard achieving FD60.

Installation Guide

1. Prior to the installation of the PhonoWall® lining system, the buildings roof and the windows must be in place.
2. Remove existing skirting, cornice & coving, sockets or switches. Ensure the surface of the wall is flat and free of debris.
3. Position the PhonoWall® up to the wall, with the pink board facing out to ensure a flat and stable position.
4. Support the PhonoWall® acoustic wall lining board firmly against the wall whilst drilling 5x M6 holes, through the panel and into the block/brick wall, 200mm in and down from each corner and 1 to the centre.
5. Using a hammer, insert the 5 Phono M6 x 80mm Metal Nailing fixings through the panel into the block/brick behind to a depth where the head of the fixing slightly indents into the pink board flush with the surface.
6. Continue installing the PhonoWall® acoustic wall lining panels in a brick fashion until the separating/party wall is completely covered ensuring minimal spaces/gaps between the abutted joints.
7. Apply the PhonoSeal intumescent, acoustic mastic to all abutted joints and perimeter joints between floors, walls and ceilings.
8. Apply jointing tape to all board joints, apply finishing plaster ready for decoration.
9. Electrical Sockets/Switches: In areas which contain electrical sockets/switches ensure cables are brought through to the front of the PhonoWall® acoustic wall lining board using a small hole. Using the PhonoSeal intumescent, acoustic mastic seal the hole around the cable, install suitable electrical boxes for plasterboard walls, install Phono intumescent, acoustic putty pads (data sheet and installation guides available) to the boxes, connect cables and affix switch/socket facia plate.
10. Cornice & Coving: Install cornice and coving in accordance with the manufacturer's instruction.
11. Skirting Boards: Install skirting boards in the usual manner used with plasterboard partitions and according to manufacturer's instruction.
12. For project specific guidance and help with installation, use the contact details to speak to our team today.

You may also require:



PhonoStrip® SAB



PhonoClip®



Scrim Tape



PhonoSeal®



PhonoBond®



PhonoClip® Resilient
Bar