

PhonoWall®

Product Datasheet

PhonoWall® is a high performance acoustic wall lining system engineered to significantly reduce airborne sound transmission through new and existing masonry walls. The PhonoWall® 21 features 12.5mm plasterboard and the PhonoWall® 27 features 15mm high density Acoustic & Fire rated plasterboard achieving FD60 for commercial approval laminated to an acoustical layer.

PhonoWall® is designed to be installed directly to the walls, the system does not require timber battens or resilient bars, significantly reducing its impact on room space. The slim design, makes the PhonoWall® ideal for existing properties where space is a premium, or new builds featuring lightweight block walls. Once installed using 80mm hammer fixings the PhonoWall® can be decorated immediately.

PhonoWall® is also suitable for the refurbishment of existing masonry walls that are to be converted into partition or separating walls between dwellings. The easy to fit, slimline wall lining system is an ideal solution for domestic and commercial properties that require improved soundproofing without compromising space. Complies with **Part E** of Building Regulations.

High performance, versatile acoustic isolation system.

Acoustic Ratings For:



Image of PhonoWall® 27 Max

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

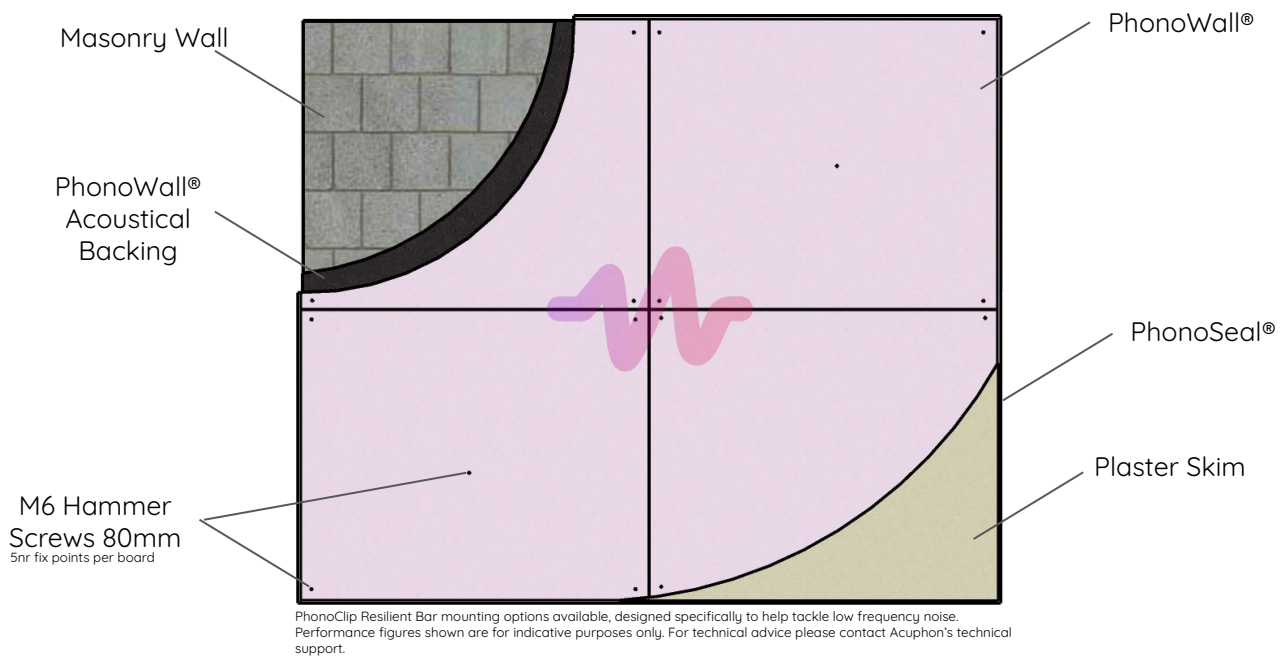
Sourced and manufactured in the UK

Product	Airborne	Impact	Weight	Weight/m ²	Pallet Quantity
PhonoWall® 21 1200 x 1000 x 21mm	56dB	N/A	20.72kg	17.27kg	50
PhonoWall® 27 Max 1200 x 1000 x 27mm	62dB	N/A	26.72kg	22.27kg	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.



PhonoWall® Slimline Wall Soundproofing Solution .



Application

PhonoWall® is a direct to partition and masonry wall solution, suitable for new or existing walls that require acoustic improvement to comply with Part E building regulations. The PhonoWall® system is typically fixed with M6 X 80mm metal hammer inserts or drywall screws to new, existing block, brick walls and partitions. The system should be taped and jointed or plaster finished for decoration. When installed the PhonoWall® will significantly reduce airborne noise transmission.

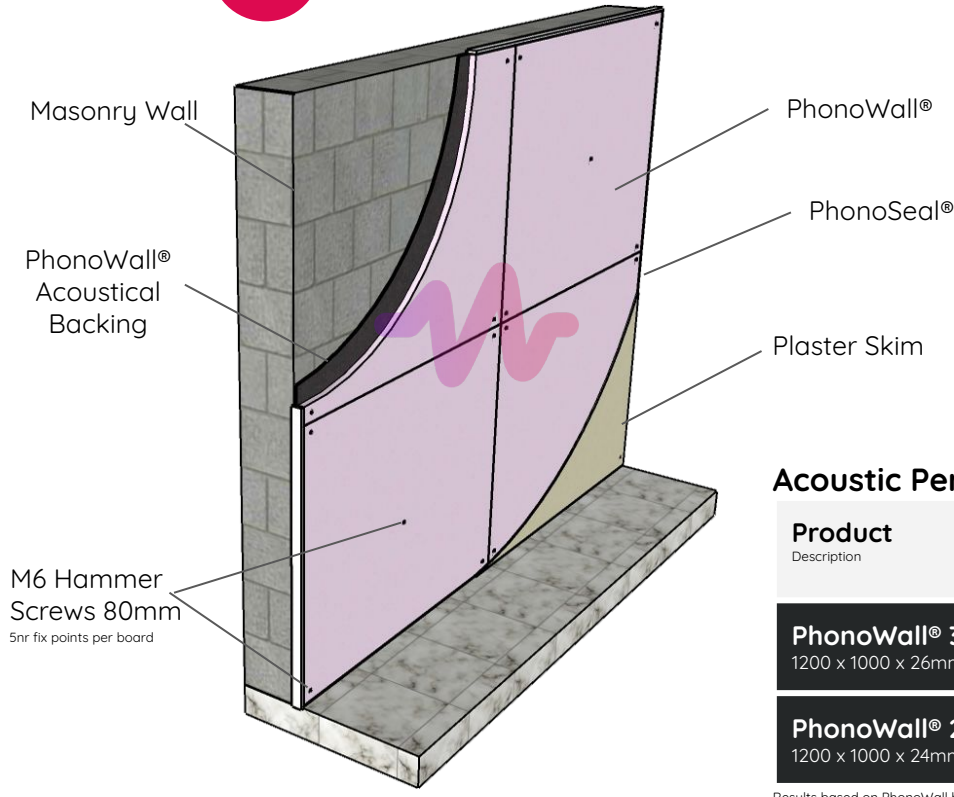
Flanking Floors

Floors connected to the separating wall can carry both airborne and impact sound to the rooms above, below or adjacent, making it essential potential gaps and junctions are remedied. For additional information about potential junctions in your installation and to get 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

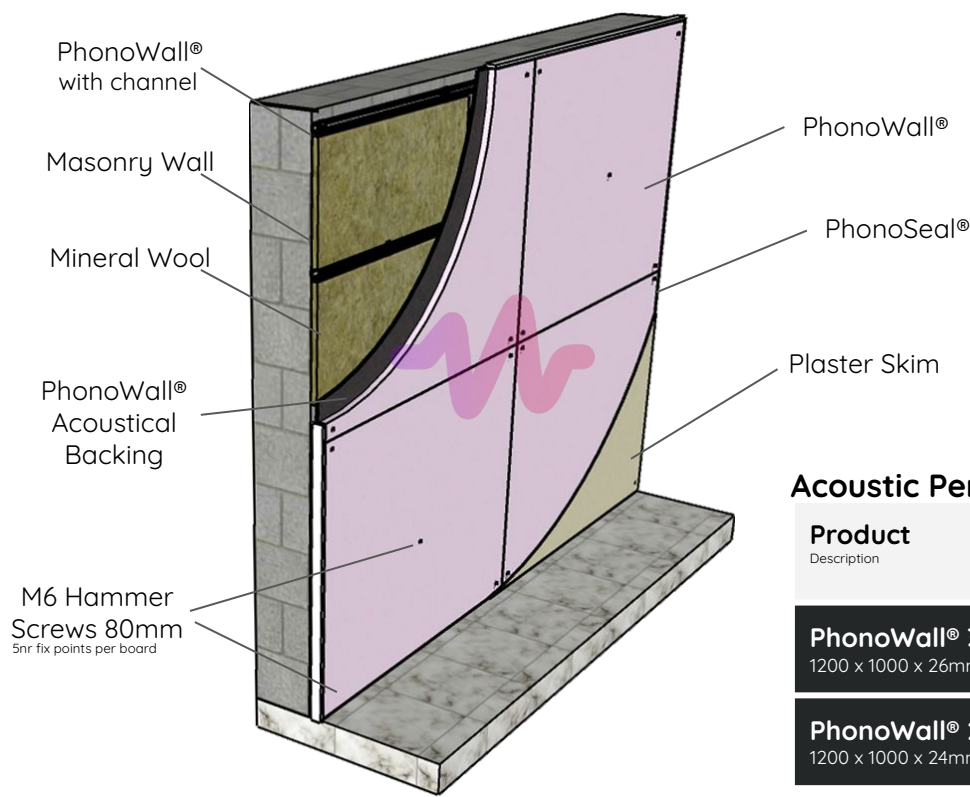


Acoustic Performance

Product Description	DnT,w Weighted airborne value	DnT,w + Ctr Weighted airborne value + Ctr
PhonoWall® 30 Max 1200 x 1000 x 26mm	60dB	53dB
PhonoWall® 24 1200 x 1000 x 24mm	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®



Acoustic Performance

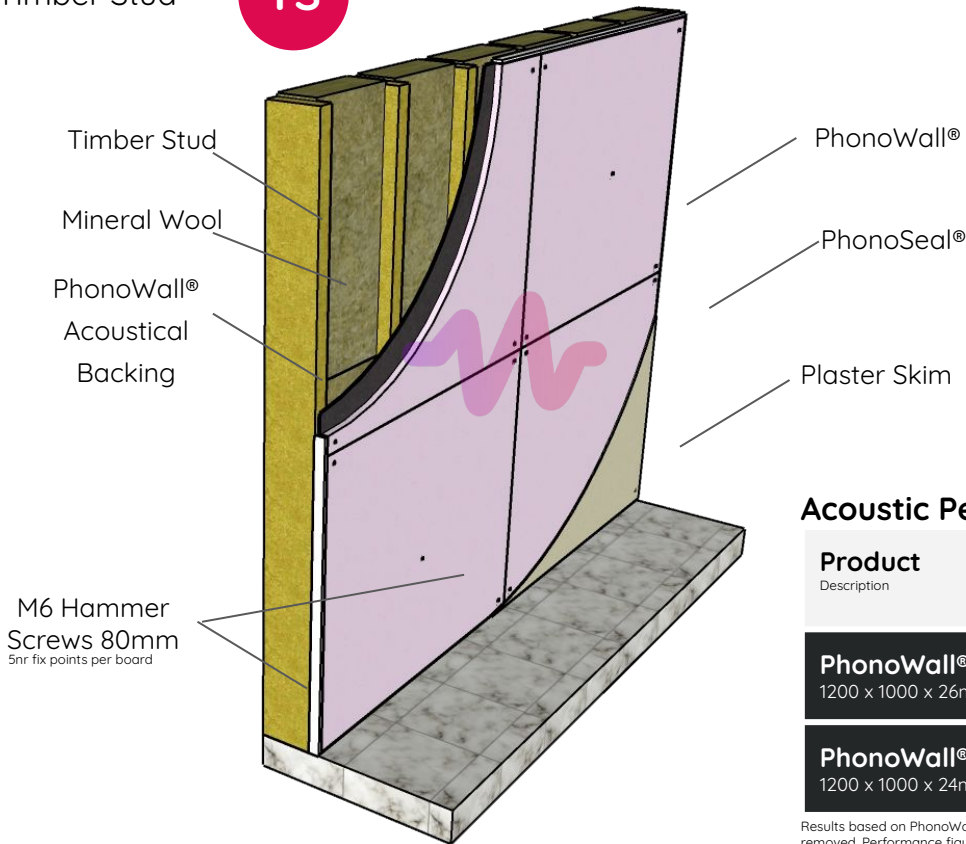
Product Description	DnT,w Weighted airborne value	DnT,w + Ctr Weighted airborne value + Ctr
PhonoWall® 30 Max 1200 x 1000 x 26mm	63dB	56dB
PhonoWall® 24 1200 x 1000 x 24mm	56dB	49dB

Results based on PhonoWall being installed on to a PhonoClip resilient bar system attached to 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

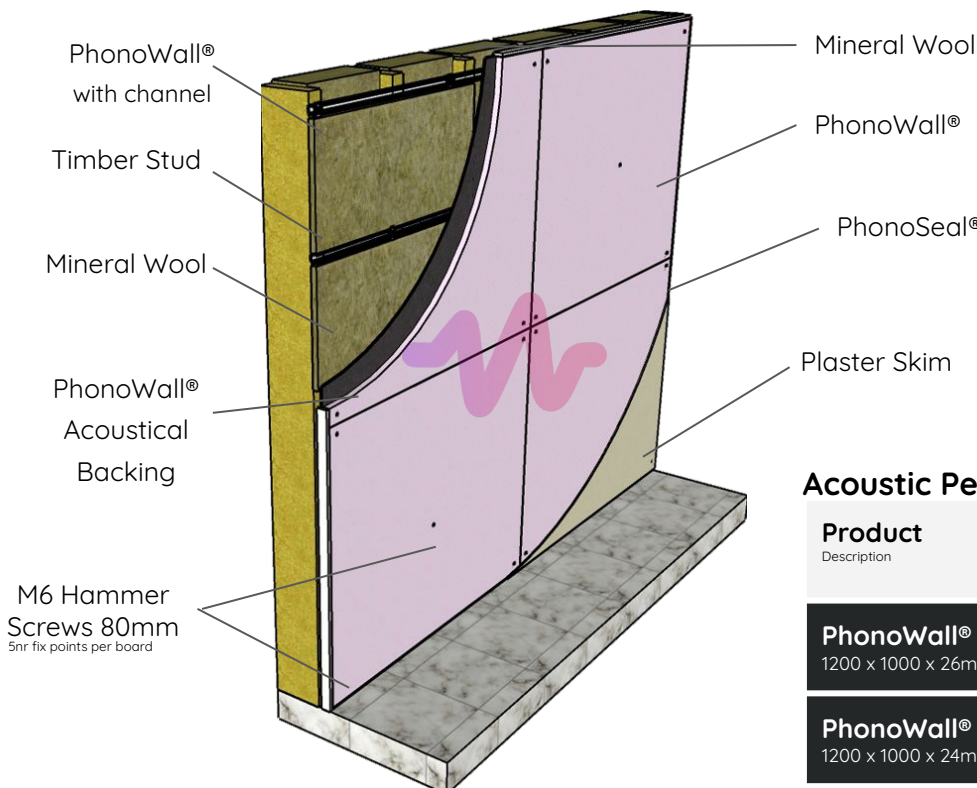


Acoustic Performance

Product Description	DnT,w Weighted airborne value	DnT,w + Ctr Weighted airborne value + Ctr
PhonoWall® 30 Max 1200 x 1000 x 26mm	56dB	51dB
PhonoWall® 24 1200 x 1000 x 24mm	51dB	46dB

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®



Acoustic Performance

Product Description	DnT,w Weighted airborne value	DnT,w + Ctr Weighted airborne value + Ctr
PhonoWall® 30 Max 1200 x 1000 x 26mm	59dB	54dB
PhonoWall® 24 1200 x 1000 x 24mm	54dB	49dB

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