

Pictorial Guide to Soundproof a Stud Wall

1.



Existing stud wall to be soundproofed. Wall comprises uprights at 600mm centres without noggins

2.



Insert Acoustic Mineral Wool into all of the wall between the timber studs

3.



Fix Resilient Bars across the timber stud with the fixing flange on the bottom edge as shown. The bottom and top rails should have the ribbed section fitted clear of the top and bottom plates

4.



Install Resilient Bars at 600mm centres from floor to ceiling

5.



Mark the position of the bars and uprights to help locate them when screwing on the plasterboard. Plasterboard should be screwed to the Resilient Bars with self-drilling screws taking care to avoid hitting the timber stud – **do not screw into the timber stud!**

6.



Screw on first layer of acoustic plasterboard with a small gap around the edges of the floor, walls and ceiling using spacers at floor level as shown

7.



Ensure there is a small gap of up to 3mm around the edges next to floor, wall and ceiling and continue fixing the boards until all of the wall has been covered

8.



Spray equivalent section of wall for soundproofing mat and also the soundproofing mat with special aerosol adhesive

9.



Immediately stick the soundproofing mat onto the glued section of wall ensuring there are no air bubbles and continue until the entire wall has been covered with joints butted to one another. Do not leave overnight but fix the second layer of plasterboard as soon as the mats have been glued on.

10.



Fix second layer of acoustic plasterboard maintaining the small gap between the floor, walls and ceiling using spacers as necessary. Use the marks previously made to help position the screws and ensure they do not come into contact with the timber frame. Tape and finish off the joints

11.



Holes allowing for electrical wiring should be sealed with Acoustic Sealant

12.



Seal all gaps and holes with Acoustic Sealant and tool smooth ready for decorating when cured

13.



Refit skirting boards by either gluing or screwing. If screwing ensure screws go through to the Resilient Bar and miss the timber framing. Ensure there is a small gap between the floor and corner joints that can be sealed with Acoustic Sealant. Fit surface mounted electrical fittings and the sound insulated wall is finished except for decorating

For a more detailed installation guide please see the Resilient Bar page on our website.