

# sound choices

Home acoustics don't get a great deal of attention — until noise becomes an issue! Soundblock® Solutions explains the fundamentals for your acoustic and soundproofing needs

The reasons for wanting soundproofing are many and varied. Young families make a racket, teenage music can become a headache or you may want to keep your bathroom noises private. Whatever your problem, Soundblock is equipped to help your home become your sanctuary.

The basics of soundproofing require both density and isolation for acoustic materials to be most effective. Ideally, installation of acoustic materials is planned before construction or renovation. This allows for changes in depths and heights that will occur.

You can insulate your walls, ceilings, floors, windows or doors to prevent sound from travelling. These products will provide you with a more comfortable environment and, if combined appropriately, the results can be astounding.

## WALLS AND CEILINGS

Your requirements will vary depending on the type of noise you are trying to control. If you live in a terrace or apartment and have common walls, the BB2A system is recommended. However, if you wish to isolate sound — such as in a home theatre or media room — you'll be better off selecting the Studiozone system. The difference in construction can be seen in the illustrations.



Soundblock provides a solution called Barrierboard, which, on its own or together with acoustic polyester insulation, can bring a wall rating up with just a single layer rather than laying two layers of other soundboards. The BB6A also incorporates the second requirement of acoustics: isolation. The wall in this case is built with discontinuous construction, which will stop the transfer of structural and airborne noise for a quieter result. Barrierboard can also be retrofitted onto existing walls with great effect.

Later down the track, acoustic foam tiles can be installed to ceilings, or fabric-covered panels fixed to walls, to improve the echo in rooms or open spaces by absorbing sound.

## FLOORS

Floor soundproofing will also vary greatly depending on your subfloor and, of course, the type of flooring you are planning to install. If you want to stop noise travelling to the level below, there are several different products available that will isolate the floors based on density and at what stage of construction they are utilised.

## WINDOWS — DOUBLE GLAZING

Secondary windows require density and isolation with a gap of ideally 100mm from the glass of the primary window to the glass/acrylic of the secondary window. A primary window alone will not necessarily be enough, even with laminated glass.

Depending on the type of window and noise issue you have, Soundblock can install either an acrylic magnetic window or a Soundout laminated glass aluminium extruded window. This will reduce perceived noise levels by about 70 per cent.

## DOORS

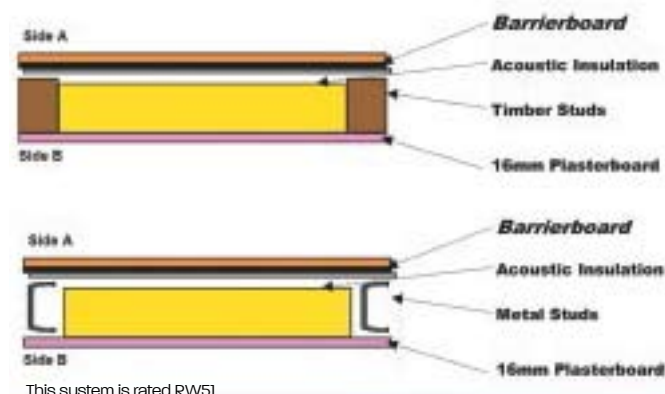
Solid-core doors are essential; acoustic seals can be added to bring it up to Rw30. Acoustic doors are available but require thicker door jambs, so plan that in advance if you want performance of Rw34 up to Rw48.

## SOUNDBLOCK SOLUTIONS

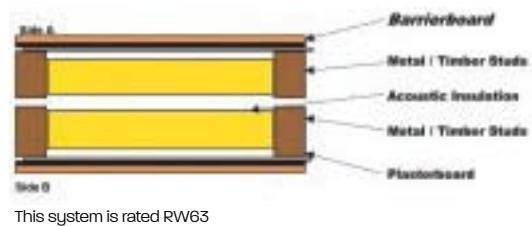
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### Configuration: *Barrierboard / Single Studs / Plasterboard*



### Configuration: *Barrierboard / Double Studs / Plasterboard*



Applications: Rehearsal and recording studios