

A SOUND REDUCTION SYSTEMS PRODUCT

**SOUNDBAR: HIGH PERFORMANCE, FLEXIBLE ACOUSTIC BARRIER DESIGNED TO REDUCE SOUND TRANSMISSION THROUGH SUSPENDED CEILING VOIDS.**

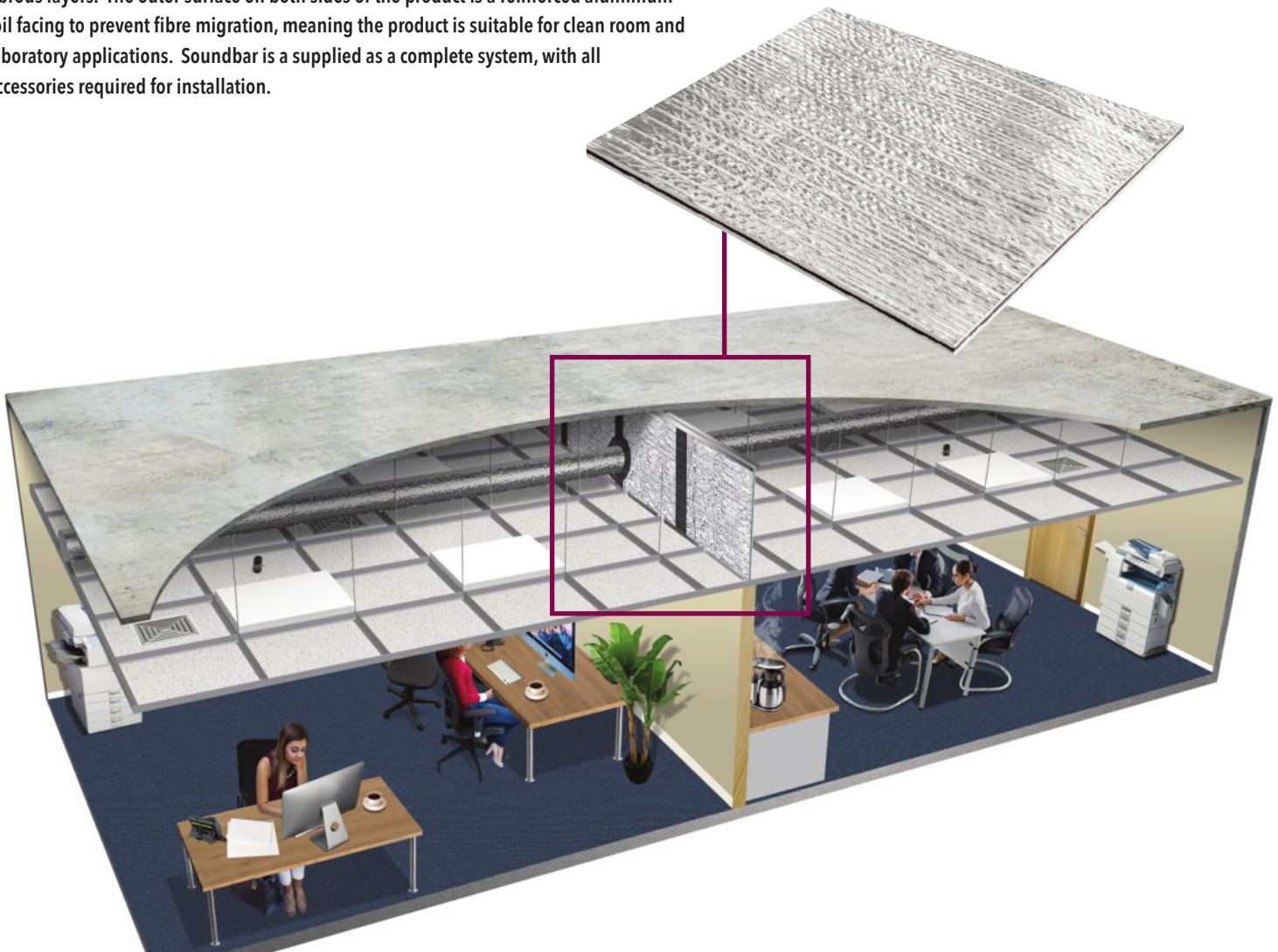
Installed from the soffit to the partition head, it is ideal where partitions are installed to the underside of a suspended ceiling. For ease and speed of installation, it can be installed from one side by one man.

Soundbar can reduce room to room noise by up to 53dB. It provides maximum speech privacy and protection against unwanted noise. Pleasant to handle and easily cut, Soundbar will readily form around services which pass through the barrier.

Soundbar is manufactured from a dense polymeric core sheet laminated between two fibrous layers. The outer surface on both sides of the product is a reinforced aluminium foil facing to prevent fibre migration, meaning the product is suitable for clean room and laboratory applications. Soundbar is supplied as a complete system, with all accessories required for installation.

**KEY BENEFITS:**

- Reduces room to room noise up to 53dB
- Easily installed from one side
- Easily cut and shaped
- Easily accommodates service penetrations
- Easily jointed
- Suitable for retrofit
- Installation causes minimal disruption
- All fixing and accessories provided

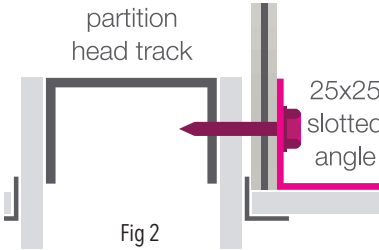
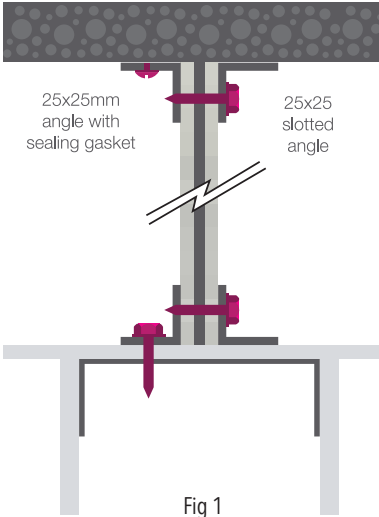


INSTALLATION - VOIDS OF 1150MM DEPTH OR LESS

Soundbar sheets and Soundbar Cover Strips should be cut to the depth of the ceiling void using a long-bladed trimming knife. All Soundbar angles, with or without seal, can be cut to length with tinsnips.

The first stage of installation is to fix the Soundbar Angle with Seal securely to the soffit, with the seal fully compressed against the soffit, and the self adhesive leg of the angle pointing downwards. The seal will ensure that any minor inconsistencies in the soffit do not present an acoustic weakness once installed.

Once the Soundbar Angle with Seal is installed, the carrier paper from the self-adhesive strip on the angles should be removed and Soundbar sheets offered up to the angle. The self-adhesive strip will temporarily hold the Soundbar sheets in place whilst clamping angles are secured through the Soundbar and into the Soundbar Angle with Seal using hex head screws at 200mm centres (see Fig 1). SRS angles are pre-drilled with holes at 200mm centres for ease of installation. There must be a fixing at a maximum of 50mm from the edge of each Soundbar sheet.



At the base, a Soundbar Clamping Angle is fixed through to the partition head. Soundbar can then be secured to this using another Soundbar Clamping Angle, fixing through as before with hex head screws at 200mm centres (see Fig 1). Alternatively, if the partition head is proud of the ceiling then it may be possible to secure the Soundbar sheets to the side of the partition head, simply by using a Soundbar Clamping Angle and hex head screws at 200mm centres.

All vertical Soundbar joints are butted together and covered with a self-adhesive Soundbar Cover Strip on one side of the barrier.

Where the Soundbar meets a perimeter wall it is necessary to ensure appropriate accessories are used to maintain the acoustic integrity of the system. In most cases, where the Soundbar sheets are butted up tightly to the perimeter wall, a bead of SRS Acoustic Sealant will be adequate.

INSTALLATION - VOIDS OF GREATER THAN 1150MM IN DEPTH

Where the ceiling void is greater in depth than 1150mm it is necessary to provide additional support for the Soundbar system. This is best done by installing supporting metal studs vertically at 560mm centres and securing the Soundbar sheets to these.

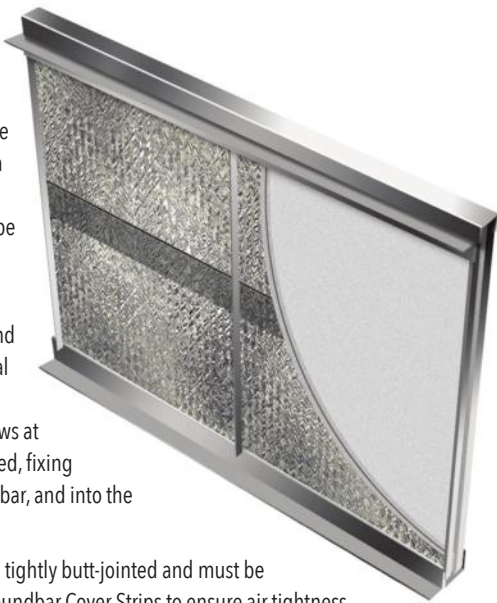
The most practical method is to install metal head track, floor track, and vertical metal C studs at 560mm centres and apply double-sided tape. The carrier paper from the double-sided tape can then be removed and the Soundbar sheets offered up to the studs.

As with the previous installation method, the self-adhesive strips will hold the Soundbar sheets in place whilst angles and mechanical fixings are used to firmly secure the product.

The Soundbar sheets should be installed in a brick-bond, staggered panel layout. Where the Soundbar sheets meet at a vertical stud, which should be every other stud, they should be overlapped by 30mm.

Soundbar Clamping angles should be used at the head and floor track, and at every vertical stud. When clamping the SoundBar SRS Hex Head Screws at 200mm centres should be used, fixing through the angle and Soundbar, and into the stud or track.

All horizontal joints should be tightly butt-jointed and must be treated with SRS SoundBar Soundbar Cover Strips to ensure air tightness.

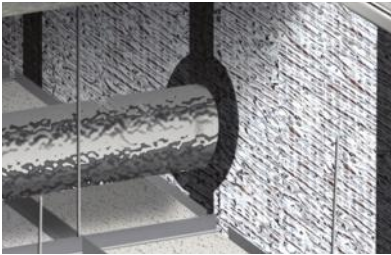
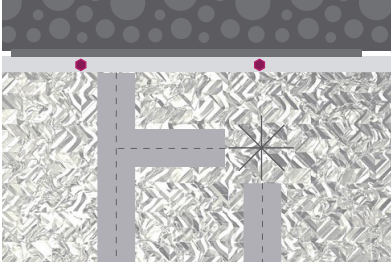


PENETRATIONS

We suggest various methods to accommodate penetrations, but site conditions will determine the best approach to adopt. In all situations, holes and gaps must be fully covered and all cut pieces should be securely fixed.

Soundbar should be cut as close as possible to the penetrating section and any holes or gaps may be sealed with Soundbar Cover Strips, which are easily cut and shaped as appropriate.

Where a single pipe or duct passes through the curtain, a star cut can be made to the same diameter as the section. A further cut is made from this to the curtain edge or base. Soundbar is then formed around the section, and a cover strip is fixed over the cut, the cut being secured at the edge. Soundbar Cover Strips are then cut and overlapped to form around then penetration. A collar can be formed out of Soundbar Cover Strips to make a seal. They are cut to 25mm wide and coiled around the penetrating section to fill any gap between the hole and the section.



ACOUSTIC DATA

SOUNDBAR
$D_{nc,w}$ (dB) 53

As tested in accordance with BS EN 20140.9 1994 (Rated according to BS5821 Part 1, 1984) Room to Room normalised weighted sound level difference ( $D_{ncw}$  53dB). Test carried out 4.11.98 test no c/98/5L/7479/1 Sound Research Laboratories Ltd, Holbrook House Sudbury Suffolk.

CUTTING:

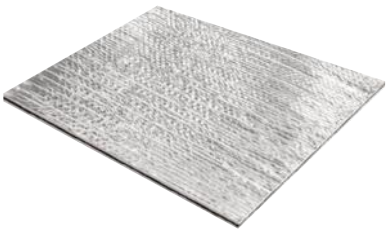
By long bladed trimming knife.

HANDLING/STORAGE:

Must be laid flat. Must be kept dry.



SOUNDBAR & ACCESSORIES



Soundbar acoustic barrier

SOUNDBAR	ROLL SIZE	THICKNESS	WEIGHT
	1150x1150mm	15mm	9kg/m <sup>2</sup>



Hex head tec screw

HEX HEAD TEC SCREW	SIZE
	25x5.5mm



Soundbar Angle with Seal

FIXING ANGLE	SIZE	THICKNESS
	3000x25mm	25mm

Self Adhesive Soundbar Cover Strips  
for sealing joints and gaps



SOUNDBAR COVER STRIPS	ROLL SIZE	THICKNESS
	1150x50mm	9mm



Pre-drilled Clamping Angle

SLOTTED CLAMPING ANGLE	SIZE	THICKNESS
	3000x25mm	25mm

SRS Angles are 0.7mm gauge steel, pre drilled at 200mm centres.



In the case of noise transfer between offices and classrooms via the suspended ceiling void, if it's not possible to install an acoustic vertical cavity barrier due to large amounts of services or the plenum is being used for air movement, SRS recommend the use of the Soundblocker system. Please contact the SRS technical department or see the separate datasheet at [www.soundreduction.co.uk](http://www.soundreduction.co.uk) for further information.



Sound Reduction Systems Ltd  
Adam Street,  
Bolton, BL3 2AP

T: +44 (0)1204 380074  
E: [info@soundreduction.co.uk](mailto:info@soundreduction.co.uk)  
F: +44 (0)1204 380957  
[www.soundreduction.co.uk](http://www.soundreduction.co.uk)

Site conditions and installation standards vary. SRS cannot take responsibility for the performance of any installed system of which SRS products are only a part, or that have been installed incorrectly. Prior to installation, it is necessary to identify and eliminate possible flanking paths that may compromise the acoustic performance of any SRS product.

