

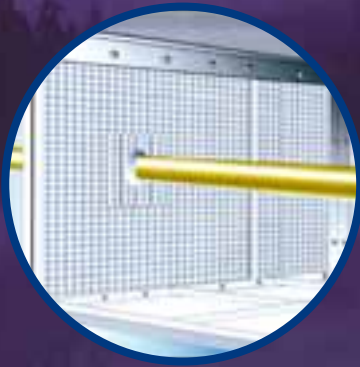
# sound reduction systems for commercial, educational and industrial environments

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Acoustic Barrier



## Introduction

Soundbar is a 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 or walls 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 and shaped, it will readily form around services which pass through the barrier.

Soundbar is formed with a dense core bonded between two fibrous layers. The outer surface has a reinforced aluminium facing. It is supplied as a system with all accessories for installation.



## The Benefits

- Very high room to room sound insulation
- Easily installed from one side
- Easily cut and shaped
- Easily accommodates service penetrations
- Easily jointed
- Suitable for retrofit
- Installation causes minimum disruption
- All fixing and accessories provided

## Alternative Solutions

**Soundblocker** - page 4

**Soundstop** - page 10

## Installation

The Soundbar system provides all the accessories required to form a properly sealed acoustic curtain within the ceiling void. It is fixed to the soffit and walls by means of a steel angle. The angle has a foam sealing gasket which compresses against the soffit. The downward leg of the angle presents a self adhesive surface that temporarily holds the Soundbar in place, while a plain angle is used to clamp the material.

It hangs as a curtain to the partition or wall head where it is secured by the same means.

The vertical joints are butted together and covered with a self adhesive cover strip. This makes for easy and quick installation.

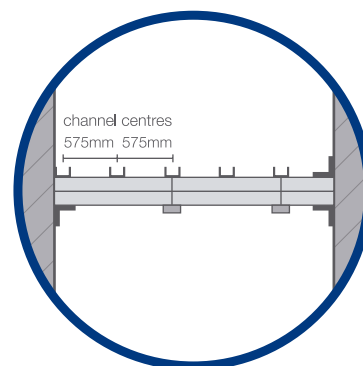
Offcuts can be re-used as part of the curtain or to make good gaps caused by accommodating services or other penetrations.

The top fixing angle is securely fixed to the soffit fully compressing the gasket seal. The Soundbar curtain is fixed to the downward leg. The leg has a self adhesive surface which holds the curtain for ease of installation. It is secured by a slotted clamping angle which is fixed with tec screws at a maximum of 200mm centres. (There must be a fixing at a maximum of 50mm from the edge of the curtain.) At the base a clamping angle is fixed through to the partition head. The curtain is secured to this by a clamping angle, cut to fit and compressed against the ceiling grid with all joints treated with a cover strip.

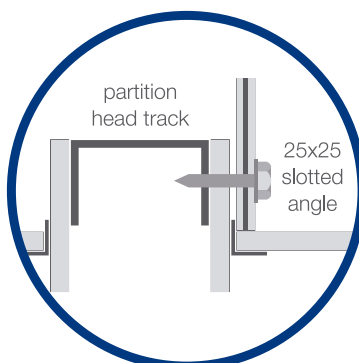
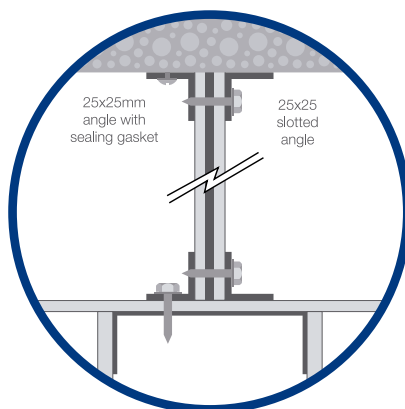
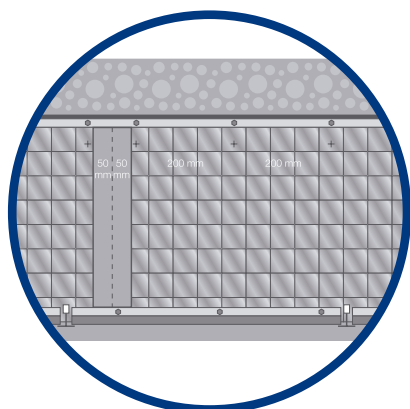
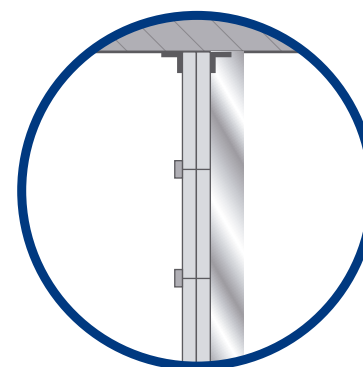
## Large voids

Where a void exceeds 1200mm in depth, supporting channel section is required to be installed at 575mm centres. The Soundbar is then fixed to this and the cover strip is applied to both vertical and horizontal joints.

### PLAN SECTION



### CROSS SECTION

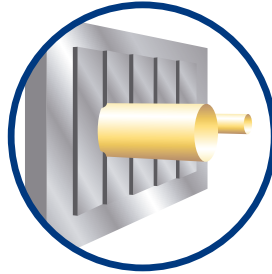


Soundbar is fixed from the soffit to the partition head. The angle can be fixed through the ceiling tile or direct onto the partition head.

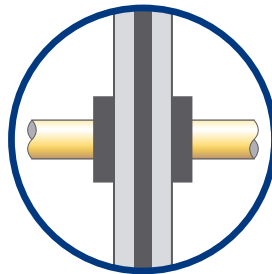
## Penetrations

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.

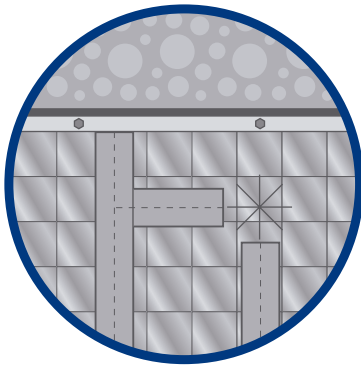
Soundbar should be cut as close as possible to the penetrating section and any holes or gaps may be sealed with cover strips, which are easy cut and shaped as appropriate.



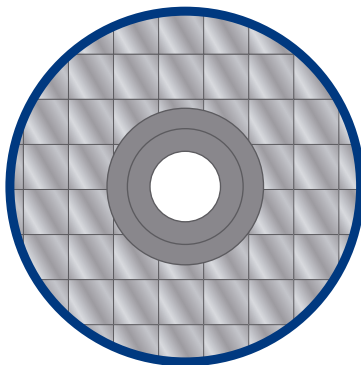
Cover strips cut and overlapped to form around a penetration.



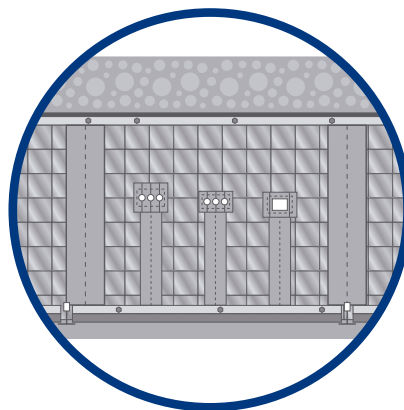
A collar can be formed out of cover strips to make a seal. They are cut to 25mm wide and coiled around the penetrating section to fill any gap between the hole and the section.



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.



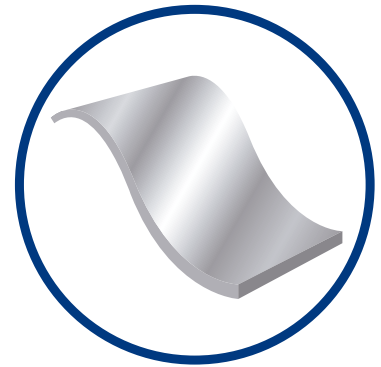
Soundbar is then formed around the section, and a cover strip is fixed over the cut, the cut being secured at the edge.



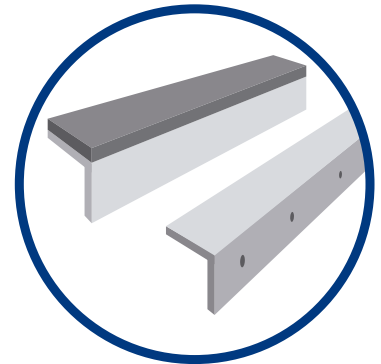
Where a number of services pass through close together, a square hole can be cut, covering the combined area of the penetrations. A cut is made from this to the bottom edge and the curtain is formed around the penetrations.

Cover strips are cut to cover the hole, these are applied by building up and overlapping to form a good seal.

## Soundbar Acoustic Barrier Kit



Soundbar flexible acoustic barrier.



Fixing Angle with sealing gasket. Pre-drilled Clamping Angle.



Hex head tec Screw.



Self Adhesive cover strips for sealing joints and gaps.

## Specifications

Size 1150 x 1150mm x 15mm  
Soundbar 53

Fire Rating BS476 Part 6 Class 0  
BS476 Part 7 Class 1

Weight 9 kgm<sup>2</sup>

Cutting By long bladed trimming knife.

### Cover Strips

Size 1150 x 50 x 9mm

### Fixing Angle

Size 3000 x 25 x 25

### Slotted Clamping Angle

Size 3000 x 25 x 25

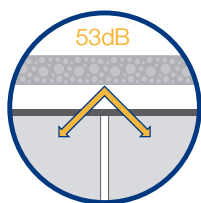
SRS Angles are 0.7mm gauge steel, pre drilled at 200mm centres.

### Hex head tec screw

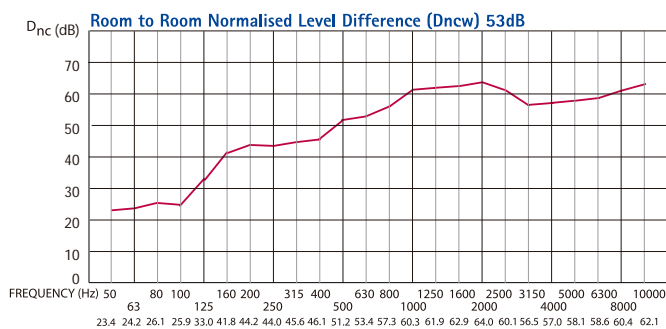
25 x 5.5mm - 5/16 AF

### Handling/Storage

Must be laid flat. Must be kept dry.



Room to room ( $D_{ncw}$ )



## Acoustic performance

As tested in accordance with BSEN 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.