

HUSH ACOUSTIC INFILLS



HUSH ACOUSTIC INFILLS CONSIST OF RIGID SLABS OF NON-COMBUSTIBLE MINERAL WOOL THAT HAVE BEEN FACTORY CUT TO SUIT THE UPPER PROFILE OF STRUCTURAL METAL ROOF DECKS.

Hush Acoustic Infills are designed to prevent reverberation and improve the acoustic environment in buildings with large areas of hard internal surfaces such as leisure centres, school sports halls and swimming pools.



DIMENSIONS

Hush Acoustic Infills are normally supplied 1200mm long and are factory cut to fit the relevant roof profile. Shorter lengths are available on request.

The product can be supplied un-faced although where it is used with perforated metal decks, it is normally faced on the lower three sides with black or white glass tissue. Alternatively it can be faced on all four sides to further decrease the risk of fibre migration.

FEATURES

- ✓ Supplied to suit any profiled roofing sheet
- ✓ Simple to install
- ✓ Excellent acoustic absorption
- ✓ Water repellent
- ✓ Maintenance free

STANDARDS AND PERFORMANCE

The mineral wool slabs used in the production of Hush Acoustic Infills are non-combustible to BS476: part 4: (1984).

The use of Hush Acoustic Infills can contribute towards the satisfaction of a requirement for a ceiling with Class C acoustic absorption. See Approved Document E (England & Wales) and Building Bulletin 93 (The Acoustic Design of Schools) for guidance. The Hush Infills also help achieve performance criteria within Section 5 of the Scottish Building Standards (Scotland) and Part G (Northern Ireland).



ACOUSTIC INFILL LINING PERFORATED STRUCTURAL ROOF DECK

DENSITY

Hush Acoustic Infills are available in the following grades

Light	45kg density mineral wool core
Standard	60kg density mineral wool core
Dense	80kg density mineral wool core
Fire Rated	100kg density mineral wool core

HANDLING AND INSTALLATION

Hush Acoustic Infills are normally supplied on polyethylene wrapped pallets. Protective weather hoods are included where requested.

The Infills are installed directly into the upper trough of the profiled roofing sheet. All joints should be tightly butted and, where necessary, lengths can be trimmed using a sharp knife or a finely serrated saw.

HUSH ACOUSTICS

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44 Canal Street, Bootle, Liverpool L20 8QU
Offices also based in London and Yorkshire



HUSH ACOUSTICS

SOUNDSense AIS RESILIENT BAR/RESILIENT CLIP

FIXING TO CEILINGS

The SoundSense AIS isolation bars should be fixed at 90° to the joists using the SoundSense AIS clips which are screwed to the joists. The required number of clips can be simply slid onto the bar and moved to the required position. To improve the acoustic integrity of the system a double layer of plasterboard is required; first fit 19mm plasterboard at 90° to the isolation bar network. Use the correct length of drywall screws so that they do not come into contact with the joists. This would defeat the objective of total isolation. The second layer of plasterboard should be 12.5mm Soundblock or similar, fixed in a brick bond fashion, avoiding overlapping joints with the first layer.

This board should be fixed at 150mm centres at the board end and 230mm centres in the field; again the correct length of self-drilling drywall screws should be used so as to avoid contact with the joists.

The plasterboard linings should be fitted within 5mm on the surrounding walls and ceiling so as to ensure that the system in essence truly "floating". The perimeter gap can be paper taped and filled with flexible acoustic sealant.

For a concrete soffit, a batten network should be fixed securely to the concrete at 600mm centres, the SoundSense AIS can then be fixed to these battens at 90°. The subsequent fitting is as per above.

For maximum performance a layer of Hush 5 kg Barrier Mat can be sandwiched between the plasterboard linings. Simply fix the Hush 5 kg Barrier Mat using drywall screws in the same manner as the plasterboard.

FIXING TO WALLS

The SoundSense AIS isolation bars should be fixed at 90° to the wall studding using the SoundSense AIS clips which are screwed to the studding at 900mm centres. The plasterboard linings should be fitted in the same way as for the ceiling fixing. Again for maximum performance a layer of Hush 5 kg Barrier Mat can be sandwiched between the plasterboard linings.

TECHNICAL SPECIFICATION

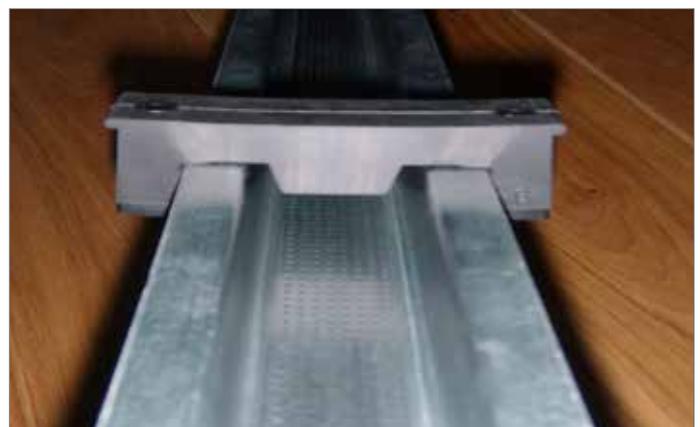
SoundSense AIS Resilient bar	L 2400mm W 65mm	D 22mm G 0.5mm	Weight 380 g/lm
SoundSense AIS Acoustic Clips	L 98mm W 25mm	D 28mm	Weight 59 g

SoundSense AIS bars are supplied in bundles of 10 wrapped in polythene.

SoundSense AIS clips are supplied in boxes of 40.

TIPS

- ✓ The isolation bars should be cut to size using tinsnips or a hacksaw.
- ✓ Make sure that no fixings connect the plasterboard linings to the joists or studding.
- ✓ Always leave a gap around the linings to de-couple the layer.
- ✓ Use the minimum number of drywall screws to fix the first plasterboard lining into the corrugated part of the resilient bar, this will help avoid hitting screw heads when fixing the second plasterboard.



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