BAFFLE BLOCK®

INTER-OFFICE SOUND CONTROL SYSTEMS

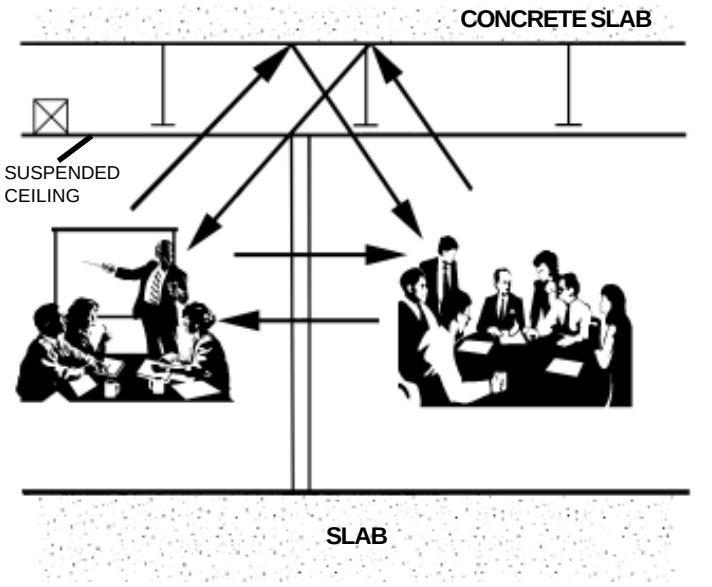
Effective and simple sound control systems for new and existing buildings

AUTEX INSULATION

Putting the Pleasure back into Insulation

Controlling Noise Transmission

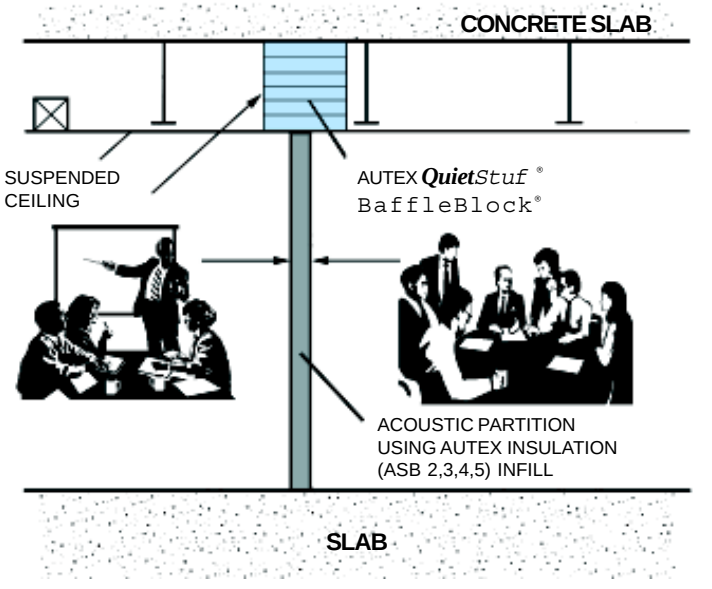
SOUND TRANSMISSION WITHOUT INSULATION



Disrupted meetings, poor concentration, lack of creativity and low productivity

Improved privacy, reduced stress, higher motivation levels

SOUND CONTROL WITH AUTEX INSULATION



It's a proven fact that high levels of noise in an office or other work area can severely impact on the productivity and well-being of occupants. Office areas featuring suspended ceilings can particularly suffer through transmission of noise through the ceiling cavities. Control of this noise between offices and other rooms is critical in many situations to ensure a productive and stress free environment. Autex Insulation has developed ceiling baffle systems that can dramatically reduce sound transmission between rooms. These systems have been designed to allow for easy installation in both new and existing buildings. In new buildings they should be designed and installed in conjunction with a partition system incorporating Autex Sound Blanket (ASB) infill to minimise sound transmission through walls.

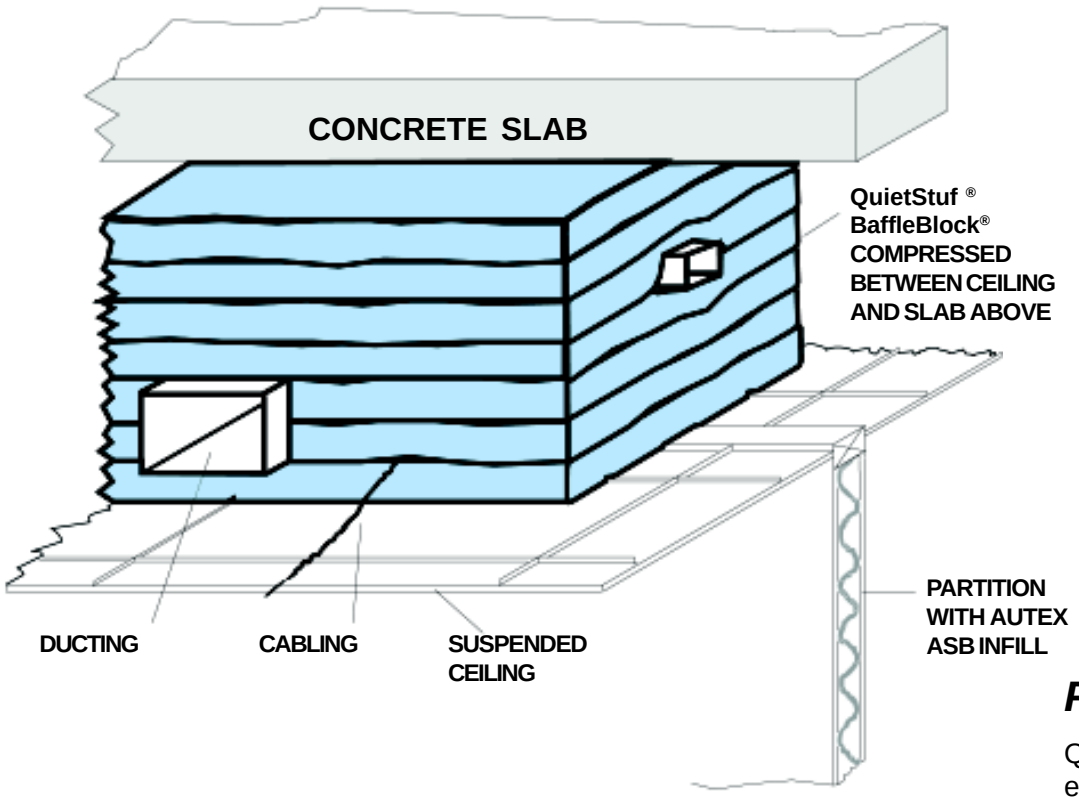
This brochure gives practical advice on controlling inter-office noise transmission with the installation of an QuietStuf® BaffleBlock®.

QuietStuf® BaffleBlock® can provide STC improvements on its own right of between 16 to 20 points dependant on installation particulars and system used. Where a specific improvement is required an acoustic consultant or specialist installer should be consulted.

QuietStuf® BaffleBlock® also provides dramatic sound dampening in ceiling cavities through the provision of a highly sound absorbent block. This also reduces ambient noise levels in offices especially where ceiling cavities are of a high volume and must be left relatively open for return air systems. In these circumstances, reverberation times are substantially reduced, improving the ambience of the working environment.

QuietStuf® BaffleBlock® is easy to install, even in existing buildings. Individual layers are rolled out and moulded around inter-office service systems, such as ducting and wiring. QuietStuf® BaffleBlock® tears straight across the width of the roll allowing for quick installation with a minimum of tools, and because it's QuietStuf® there is no irritation or need for protective equipment.

So easy to install in existing or new buildings



Beware of Substitution

The performance and design of QuietStuf® BaffleBlock® has been engineered to supply a proven tested sound control system. Manufactured under ISO 9002, independently tested and installed only by approved installers, ensures you can be completely confident that the required acoustic results are achieved.

It is very important to ensure branded QuietStuf® BaffleBlock® is specified and installed. Any deviation from use of branded BaffleBlock® product can significantly compromise performance.

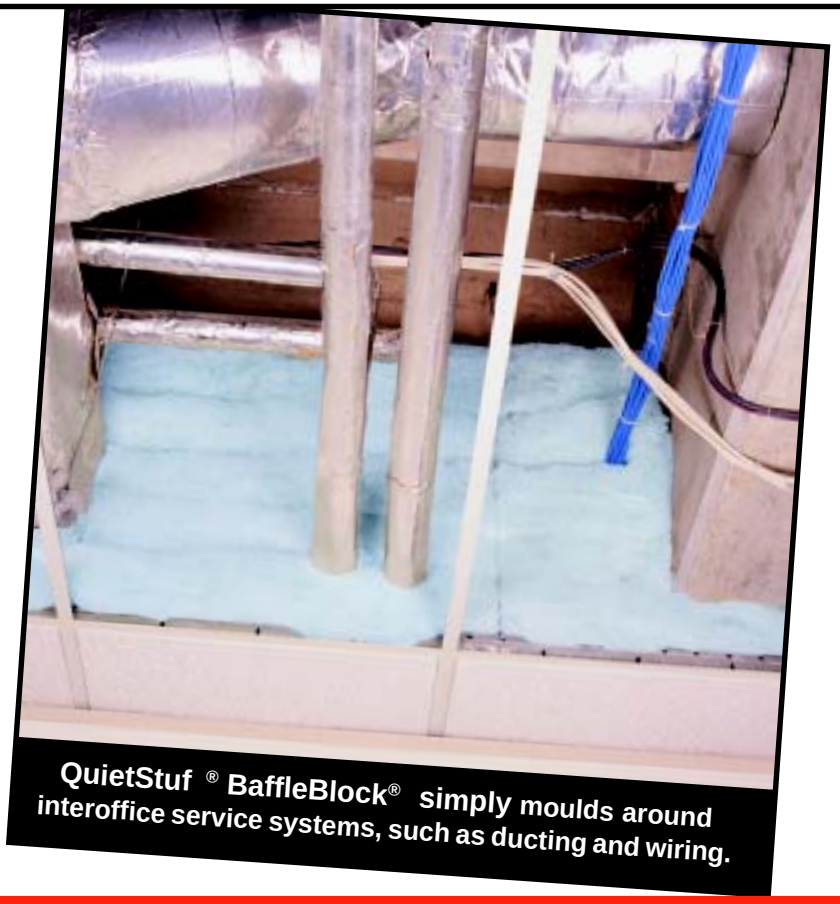
Fire Safety

QuietStuf® BaffleBlock® is self extinguishing and will not support combustion. Full conformance to Australian and New Zealand Building Codes.

PERFORMANCE Total Ceiling Path Transmission*	
1. QuietStuf ® BaffleBlock®	STC 46
2. QuietStuf ® BaffleBlock® (compressed 30%)	STC 50

* STC values supplied above are part of the total system, assuming typical mineral fibre ceiling

Indices as per AS1530 Part 3	
Ignitability	0
Spread of flame	0
Heat Evolved	0
Smoke Developed	3



QuietStuf ® BaffleBlock® simply moulds around interoffice service systems, such as ducting and wiring.

Pack Sizes

Autex QuietStuf® BaffleBlock® is supplied in the following pack sizes:

- 600mm wide rolls
- Roll length 8.33m
- Nominal thickness 100mm
- 2 Rolls per pack
- 10m² per pack

Odourless, Fire resistant, Fully recyclable

SYSTEM SPECIFICATIONS AND INSTALLATION GUIDELINES

In tests conducted by Marshall Day Associates (Acoustic Consultants), QuietStuf® BaffleBlock® on its own right reduced ceiling path transmission by 16 STC points. When compressed by a factor of 30 percent this increased to 20 points.

- Ceiling path transmission without QuietStuf® BaffleBlock® is typically 30 STC with mineral fibre ceiling tiles. Application of QuietStuf® BaffleBlock® at minimum compression will supply an STC on its own right of 16 STC points therefore ceiling path STC will be 46 (STC 50 with 30 percent compression of QuietStuf® BaffleBlock®).

- QuietStuf® BaffleBlock® must be installed with at least enough compression to ensure stack stability and a snug fit to all surfaces including slab, roof or floor above. No gaps to be allowed through the width of the QuietStuf® BaffleBlock®. Small pieces should be used to plug and fill around any ducting, services or structural components.

- Higher improvement results can be achieved by increasing compression of the block to an average of 30 percent. This will typically increase improvement figures to around 20 STC points on its own right. Higher results can be achieved by installing double baffles or custom designed units.

- Where an exact or particular improvement is required an acoustic engineer should be consulted.

- The QuietStuf® BaffleBlock® may be installed to a height of 1 metre without specialist design considerations. Over this height specialist design may be required to ensure stack stability and reduction of weight transfer to ceiling grid or panel. Maximum load recommendations of grid or tile manufacturer must not be exceeded.

- Care must be taken when installing QuietStuf® BaffleBlock® into a roof space also acting as an active return system for air conditioning. In these circumstances, individual areas may not be fully enclosed or isolated, effectively blocking air circulation. Where high performance systems have been installed the air conditioning installer should be consulted to ensure no loss of effective air movement.

- During installation, it is important to protect existing ceiling tiles and grid system from damage and marking. Existing services, ducting, supports, sprinkler and fire control and detection devices must be not affected by the installation of QuietStuf® BaffleBlock®.

- QuietStuf® BaffleBlock® when installed in accordance with the manufacturers recommendations will satisfy the requirements of the 50 year durability clause of NZBC B2.3b as well as NZB3 E3 internal moisture and F2 Hazardous building materials.

- QuietStuf® BaffleBlock® is resistant to vermin and insect attack as well as being classified as non absorbent for moisture (0.03%).

- When tested in accordance with NZS4222 QuietStuf® BaffleBlock® is classified as noncorrosive.

- Due to the technical nature of QuietStuf® BaffleBlock®, Autex will only warrant installations carried out by an approved QuietStuf® BaffleBlock® installer, call 0800 2 $A^2U^8T^8E^3X^9$ for your nearest approved installer.

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www.autex.com.au

Melbourne:
Ph: (03) 9457 6700 Fax: (03) 9457 1020
Email: enquiries@autex.com.au

Sydney:
Ph: (02) 9756 3122 Fax: (02) 9756 3165
Email: enquiries@autex.com.au

Perth:
Ph: (08) 9355 1911 Fax: (08) 9355 1032
Email: enquiries@autex.com.au

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