

PRODUCT DESIGN

Pink® Batts® Silencer®, Mid Floor Handy Pack and 75mm are lightweight glass wool materials having excellent acoustic properties when used as described. The products have good thermal properties also.

Pink® Batts® Silencer® Board is a heavyweight glass wool material having excellent acoustic properties when used as described.

The Pink® Batts® Silencer® products are grey in colour to assist specifier on site identification.

The Pink® Batts® Silencer® range are manufactured in plants with ISO 9000 series registration. The manufacturing process is continually quality controlled to produce product to an assured high standard.

APPLICATIONS

The Pink® Batts® Silencer® range of products are designed to be used individually for better control to a variety of acoustic problems. They may also be used in combination to give superior noise reduction in more demanding environments. (See overleaf for the specific application details.)

Increased cavity absorption, absorptent linings to enclosures and reduced structure borne vibration can all be addressed with the correct Pink® Batts® Silencer® product.

ENVIRONMENTAL

The manufacture of Pink® Batts® Silencer® product involves a process which uses up to 60% recycled glass.



NOISE CONTROL	SIZE	THICKNESS	PIECES	AREA PER BALE	THERMAL CONDUCTIVITY	R VALUE m ² °C/W	NRC
Pink® Batts® Silencer®	1140x580	100	20	13.2	.0395 W/m	2.38	1.04
Pink® Batts® Silencer® HandyPack	580x432	100	20	5.0	.0395 W/m	2.38	1.04
Pink® Batts® Silencer® Mid Floor	1400x432	150	10	4.9		3.9	1.10
Pink® Batts® Silencer® 75mm	1140x580	75	26	17.2			
Pink® Batts® Silencer® Board	900x1200	11	20	21.6	n/a	n/a	.42

NEW ZEALAND BUILDING CODE (NZBC, B2, F2, G6)

The Pink® Batts® Silencer® range will satisfy the requirements of NZBC Clause B2.3(b) (50 years), for durability when used in dry, protected construction cavities. The Pink® Batts® Silencer® range will meet the relevant requirements of NZBC F2 Hazardous Building Materials and G6 Airborne & Impact Sound.

ACOUSTIC PERFORMANCE

The Pink® Batts® Silencer® range of products have tested absorptency results which are noted later in this data. Careful fitting of these products will contribute to the successful acoustic performance of the total system.

It must be noted however any structure's acoustic performance will be greatly reduced by any penetrations or openings through it. This therefore makes acoustic treatment to exterior walls with doors and windows particularly difficult. (Also see Special Notes page 4)

Refer to the manufacturer for further information.



DESCRIPTION

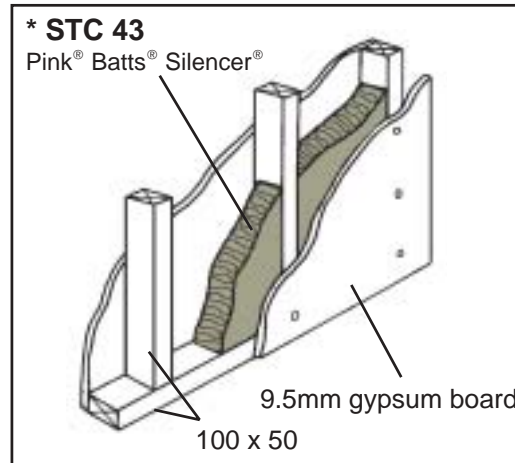
Pink® Batts® Silencer® can be placed in the cavity of standard stud walls. When correctly installed it will increase the sound barrier properties of the wall by reducing the reverberation of sound resonating within the cavity.

Pink® Batts® Silencer® may also be used as a cavity absorber between floors to reduce the transmission of airborne sound.

Sound Absorption Coefficients

	Frequency (Hz)						
	125	250	500	1000	2000	4000	NRC
100mm	0.50	0.85	1.10	1.10	1.10	1.10	1.04

* For test results and structure details, contact Insulation New Zealand (Test No: T927/7)

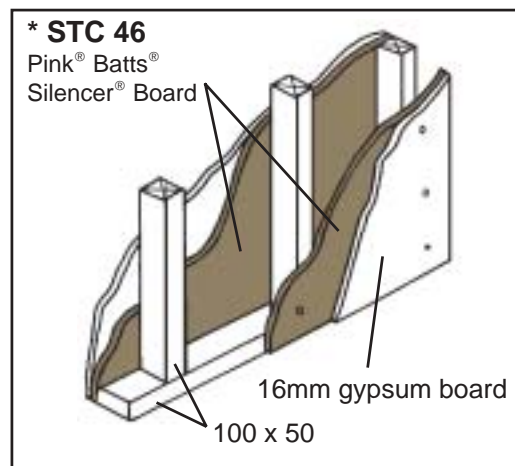


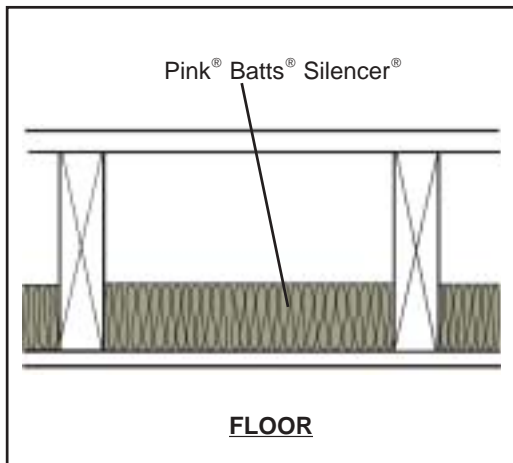
Pink® Batts® Silencer® Board is a firm board product most often used as substrate behind gypsum board. When used in this situation the construction acts not only to reduce cavity resonance but also to reduce structure borne vibration to a minimum.

Sound Absorption Coefficients

	Frequency (Hz)						
	125	250	500	1000	2000	4000	NRC
11mm	0.18	0.10	0.26	0.59	0.72	0.81	0.42

* For test results and structure details, contact Insulation New Zealand (Test No: 1.2.1.2.4.2)



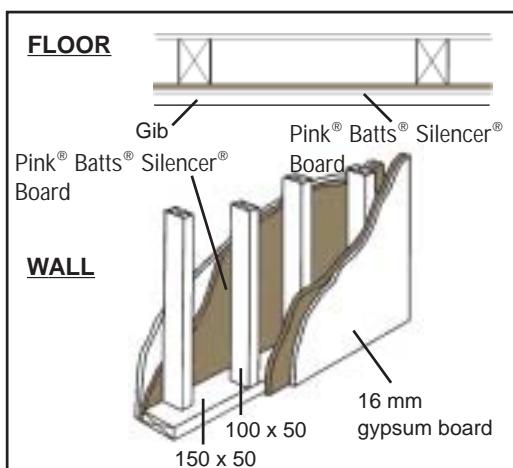


INSTALLATION

PINK BATTSS® SILENCER® INSTALLATION WALL

1. Fix wall board to one side of the stud.
2. Fill the cavity with Pink® Batts® Silencer® which is 100mm thick. (will fit 100 x 50mm framing) For 75 x 50mm framing Pink® Batts® Silencer® 75mm is more suitable.
3. Construction methods do not allow for perfect spacings of studs. Pink® Batts® Silencer® must be trimmed to suit the stud spacings. Offcuts can be used to fill any gaps.
4. Complete the wall by installing the remaining linings.

FLOOR Install in a similar manner in lower floor ceilings, noting underlay and carpet will help reduce impact noise levels. If ceiling linings can be suspended, the introduction of a gap between joists and linings will contribute to reducing sound transmission paths through the structure to the lower living areas.



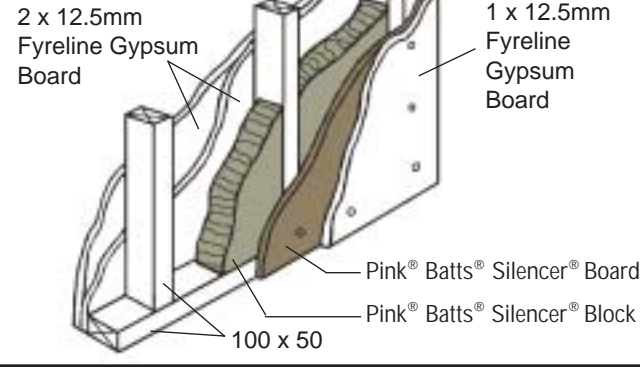
PINK BATTSS® SILENCER® BOARD INSTALLATION WALL

1. Stagger vertical joints.
2. Fix Pink® Batts® Silencer® Board with minimum number of clouts, driven home carefully so as to ensure that the head remains flush with the surface. Alternatively use 20mm staples at 600mm centres for a temporary fix. (Permanent fixing will be achieved with screw fixing of the gib lining.)
3. Fix gypsum board as normal, taking care not to compress the Pink® Batts® Silencer® Board at nailing points. Screw fixing is considered a better method to control possible compression of Pink® Batts® Silencer® Board product and therefore an even flat finish to linings. For best results and ease of fixing 12.5mm gib or thicker is recommended.

4. Alternate construction methods and expected results can be discussed with Tasman Insulation on 0800 802 287

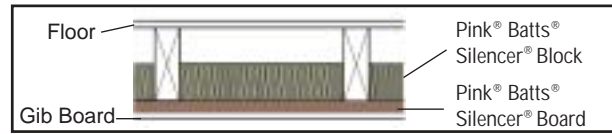
FLOOR Install in a similar manner in lower floor ceilings, thus introducing a less rigid layer between joists and linings. This will improve impact noise performance and give absorpency.

*** STC 52**



* See Marshall Day Associates Report No. 97276 RB

PINK® BATTS® SILENCER® IN COMBINATION



Using a combination of Pink® Batts® Silencer® a superior overall acoustic system can be achieved. Pink® Batts® Silencer® will absorb resonance and reverberation passing through the cavity. Pink® Batts® Silencer® Board will assist to improve cavity absorption but will also reduce structure (framing) borne vibration, limiting sound transmitted through the structure. The combination will therefore treat two types of noise transference. For installation see details for individual Pink® Batts® Silencer® on previous page.

GENERAL (SPECIAL NOTES)

Compression of product is not recommended as absorpency performance will be reduced.

Any gaps left by careless installation of product or structural components will allow pathways for sound to pass through, reducing the systems overall acoustic performance.

Splitting wall or floor structures into separate components i.e. staggered or double studs will interrupt noise transmission paths and will help improve acoustic performance.

The effectiveness of structures will be completely lost if penetrations are made from one side to the other and not sealed i.e. electrical or plumbing fittings.

Back to back power points should also be avoided. If walls have not been started it is recommended that the bottom plate be placed on a sealing strip to reduce leakage. The first and last studs should also be treated this way if they butt up to a side wall.

Associated Information.

"A Guide to Home Soundproofing" 2000 Booklet

FIRE RESISTANCE

Pink® Batts® Silencer® products are designed for use at ambient temperatures and should not be used in conditions where the temperature exceeds 120°C. Where flues or other similar heat emitting items pass through the insulation layer a 150mm venting gap should be left between that item and insulation. Glass Wool will not burn nor support combustion.

Early Fire Hazard

To A.S. 1530 Part 3 1976

Ignitability Index	(0-20)	0
Spread of Flame Index	(0-10)	0
Heat Evolved Index	(0-10)	0
Smoke Developed Index	(0-10)	0

BENEFITS

Pink® Batts® Silencer® provides excellent acoustic control to create quieter working and living environments.

Acoustical. Excellent absorption characteristics with NRC figures ranging from 0.42 - 1.10 depending on the product chosen.

Thermal. Although primarily used as an acoustical material, Pink® Batts® Silencer® (excluding P.B.S. Board) have corollary benefits in that they are good thermal insulation.

Identification. The dark colour of the product allows specifiers to easily identify the product and guard against substitutes being used.

Stability. The product is dimensional stable and is not affected by building movement.

Fire. The product is non combustibile as per AS 1530 part 1.

Low Installed Cost. The product is quickly fixed without special tools.

HEALTH & SAFETY

Exposure Limits. The New Zealand Workplace Exposure Standard for glasswool insulation is:

1 respirable fibre per ml and 5 mg/m³ inspirable dust (refer OSH WES Booklet, 1992).

It is anticipated that airborne respirable fibre levels will rarely exceed 0.2 f/ml in most user applications.

FIRST AID

Dust from this product may cause temporary irritation during installation.

Eyes. Flush with flowing water for at least 15 minutes and if symptoms persist seek immediate medical attention.

Skin. Wash with mild soap and running water. Use a washcloth if necessary to help remove fibres and particles.

Inhaled. If symptoms of irritation, remove to fresh air.

Swallowed. Give water to drink

Information for doctor. Treat symptomatically.



A Fletcher Building Company

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* This brochure supersedes all previous brochures. * Tasman Insulation New Zealand retain the right to change products and specifications without prior notification. If a specification is critical to the end use, please consult Tasman Insulation New Zealand. * All product dimensions are subject to normal manufacturing tolerances. * This information is provided without prejudice to Tasman Insulation New Zealand standard terms and conditions of sale.