

Wall and Midfloor

PINK® BATTs® SILENCER® INSULATION

PRODUCT DATA SHEET

Application

Pink® Batts® Silencer® insulation is a lightweight flexible glass wool insulation product designed to:

- Provide acoustic insulation in internal walls
- Fit easily in standard wall constructions, or be easily cut to fit in non-standard constructions

Note: Pink® Batts® Silencer® is designed for use in internal walls only, where both acoustic and thermal properties are desired in an external wall we recommend the use of the Pink® Batts® Ultra® wall range.

Features and Benefits

- Absorbs sound – reduces noise transmission between rooms for a quieter more relaxing home
- Non-combustible – will not easily burn in the event of a fire
- Made from over 80% recycled glass – making sustainable use of waste
- Made in New Zealand – designed for New Zealand building conditions and reduces emissions associated with the importing of overseas manufactured product

Acoustic Properties

Pink® Batts® insulation will assist with noise control, however penetrations in walls will transmit sound readily. Superior noise control can be achieved by using Pink® Batts® insulation products in conjunction with good acoustic design.

	Application	STC ¹	IIC ²	NRC ³	Approximate R-value ⁴
Pink® Batts® Silencer® 100mm	90mm internal walls	43	N/A	1.04	R2.4
Pink® Batts® Silencer® 75mm	70mm internal wall	39	N/A	0.91	R1.9
Pink® Batts® Silencer® Midfloor	In-between floors /multiple storeys	N/A	32	1.10	R3.6

1 Testing with 10mm GIB® standard plasterboard on either side

2 Construction 200 x 50mm Joist @ 450mm, 20mm particle board, 10mm GIB® standard plasterboard, battens @ 400mm

3 Once the product is enclosed in a wall cavity NRC is irrelevant. NRC measures reverberation and absorption eg: Suitable measure for recording studio, theatre etc

4 This R-value is a calculated R-value only and is not tested to AS/NZS 4859.1 as per our Pink® Batts® thermal insulation products

Steps to a Quieter Home

Building or renovating - follow these simple steps to ensure your home has optimal noise control

1. Ensure your layout allows for different noise zones
 - Group similar rooms together
 - Quiet rooms: e.g. bedrooms and studies
 - Living Rooms: e.g. lounge, dining, home cinema, rumpus
 - Functional rooms: e.g. kitchens, laundries, bathrooms, toilets
 - Position bedrooms as far away from living areas as possible
 - Ensure bedroom and living areas are positioned away from external noise sources such as busy roads
 - Use foyers, corridors or hallways to buffer noise
2. Specify and install Pink® Batts® Silencer® in internal walls between rooms
 - Use GIB® Soundseal® and GIB® Noiseline® for additional noise control
3. Design your home to ensure penetrations and gaps in walls are minimised i.e: power outlets are not back to back.

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Between room solutions - Fill internal walls with Pink® Batts® Silencer®

Used in conjunction with GIB® Noise Control Systems, Pink® Batts® Silencer® can provide noise control for all the different zones in your home. Depending on your desired level of noise control, choose from the systems below.

Sound Control	Construction	STC
Minimum	Standard internal wall framing, no Pink® Batts® Silencer®, 10mm GIB® Standard plasterboard both sides.	Provides an STC 36 - speech can be heard.
Better Option	Standard internal wall framing, Pink® Batts® Silencer® 100mm, 10mm GIB® Standard plasterboard both sides.	Provides an STC 43 - loud speech is just audible.
Best Option	Standard internal wall framing, Pink® Batts® Silencer® 100mm, 1 layer 10mm GIB® Noiseline® one side, 2 layers GIB® Noiseline® on other side, GIB® SoundSeal® around the perimeter.	Provides an STC 47* - loud speech is heard as a light murmur only.

* The correct use of Pink® Batts® Silencer® and GIB® Noise control systems will reduce noise significantly but will not eliminate it. For more detailed information about construction options refer to GIB® Noise Control Systems Manual 2006.

Between Floor Solution - Pink® Batts® Silencer® Midfloor

Pink® Batts® Silencer® Midfloor is specifically designed to reduce noise transmission between floors. If you plan on having a hard surface such as tiles or laminate flooring on your upper level use Pink® Batts® Silencer® Midfloor in conjunction with a GIB® Noise Control System. A well designed system will reduce the level of impact sound that travels through the floor joists and into the room below. Carpets and soft floor coverings will also help reduce the sound.

External noise solution - Pink® Batts® Ultra® the ultimate in thermal and acoustic insulation for your external walls

The Pink® Batts® Ultra® range will not only provide you with great thermal insulation it can also help reduce the noise from the outside. However penetrations in walls will transmit sound readily. Superior noise control can be achieved by using Pink® Batts® Ultra® insulation products in conjunction with good acoustic design.

Tips to reduce noise entering your home

- Use Pink® Batts® Ultra® wall and ceiling products
- Minimise penetrations in walls ie: Doors, windows, plumbing etc.
- Use double glazing

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Environment

Pink® Batts® insulation is a sustainable, energy efficient product.

- Manufactured using over 80% recycled glass, making sustainable use of waste
- Energy used during the manufacture of Pink® Batts® products is offset by the energy saved by a home fully insulated with Pink® Batts® products within 3-15 months⁵
- Locally manufactured in Auckland, reducing shipping distances compared to imported products

Green Star New Zealands Credits

Green Star New Zealand is a comprehensive environmental rating system for buildings. Pink® Batts® insulation may contribute to points under Green Star. Further information is available at www.nzgbc.org.nz

⁵ (Beca Carter Hollings & Ferner Ltd, Energy Economics of Fibreglass Insulation, 2005)

Health & Safety

Product Safety

Pink® Batts® insulation is a non-hazardous, safe product.

- IARC (International Agency for Research on Cancer) classifies glass wool formulation used to manufacture Pink® Batts® products as Group 3: 'Not classifiable as to its carcinogenicity to humans'. This is the same classification as caffeine, tea, hair colouring, chlorinated drinking water, saccharin
- Pink® Batts® insulation is bio-soluble. In the unlikely event any fibres are inhaled into the lungs they will dissolve in the body fluids and be cleared from the body



Indoor Air Quality

- Pink® Batts® insulation is GREENGUARD Indoor Air Quality Certified®. Being certified for indoor air quality gives an assurance that products meet strict chemical emissions limits (including minimal levels of VOCs and Formaldehyde) to help create healthier indoor environments.



General Health

- Pink® Batts® insulation will assist in meeting the World Health Organisation recommendation for houses to be maintained at a minimum temperature of 18°C to provide a healthy and comfortable home
- A Wellington School of Medicine study found insulated houses resulted in families with fewer sick days and the economic benefit was double the initial cost of the insulation⁶

⁶ Howden-Chapman, P. et al. "Effect of insulating existing houses on health inequality: cluster randomised study in the community" British Medical Journal, 2007, p334:460

Technical Data

Properties	Result		Test/Method/Standard	Test Results
Combustibility	Non-Combustible	✓	NZS/AS 1530.1:1994	Group Number 1S
Flammability	Non-Flammable	✓	NZS/AS 1530.3:1993	
			Ignitability (Range 0-20)	= 0
			Spread of Flame Index (Range 0-10)	= 0
			Heat Evolved Index (Range 0-10)	= 0
			Smoke Developed Index (Range 0-10)	= 0-1
Corrosion	Non-Corrosive	N/A	AS/NZS 4859.1:2002-Glass wool exempt	
Moisture Absorption	Non-Hygroscopic	N/A	AS/NZS 4859.1:2002-Glass wool exempt	
Vermin Resistance	No Food Source	✓	AS/NZS 4859.1:2002-Glass wool exempt	

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New Zealand Building Code (NZBC) and Limitations

Pink® Batts® Silencer® insulation when used, installed and maintained in accordance with the requirements outlined in this datasheet will meet or contribute to meeting the following provisions of the NZBC:

- NZBC Clause B2: Durability**
Meets the requirement NZBC B2.3.1 a) 50 years and NZBC B2.3.1 b) 15 years
- NZBC Clause C1 - C6: Protection from Fire**
Contributes to meeting these requirements
- NZBC Clause F2: Hazardous Building Materials**
Meets this requirement and will not present a health hazard to people

Limitations

To meet the provisions of the NZBC as outlined in this datasheet, Pink® Batts® insulation MUST be:

- Installed and maintained in a dry protected environment
- Installed in a building where the provisions of NZBC E2 and E3 are met
- Installed to the requirements of NZS 4246:2006: Energy Efficiency-Installing Insulation in Residential Buildings

Pink® Batts® Midfloor insulation should **NOT** be crushed or folded

Installation Instructions

Correct installation with no compression, gaps or folds is critical to ensure Pink® Batts® wall and midfloor insulation performance is not compromised.

We can recommend professional installers throughout New Zealand who guarantee installation to NZS 4246:2006. Go to www.pinkbatts.co.nz or call 0800 PINK BATTs (746 522) to locate an installer in your region.

Safety:

Prior to installation check for all hazards that may cause injury. Carry out repair work without delay.

- Ensure there is adequate lighting to identify any hazards
- Treat all electrical cables as live
 - Repair damaged, exposed or hanging cables immediately
 - Be careful not to cut or expose cables and wires
- Beware of other sharp objects (protruding nails, splinters etc.), pests (bees and wasps), loose boards and pipe work

Note: Seek professional advice if you are unsure how best to isolate the hazard or have a professional installer carry out the work on your behalf.

Equipment required:

- Protective loose fitting, long sleeve clothing
- Dust mask
- Rubber faced gloves
- Rubber soled footwear
- Step ladder
- Knife and cutting board
- Safety glasses

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Installation Instructions continued...

Installation for walls and midfloor:

Use only wall products for installing in wall applications, ceiling products are not suitable.

- Ensure the product is installed dry. If the product is wet, replace it before installing
- Friction fit product between framing
- If cutting is required, cut oversize by 5-10mm to ensure a friction fit
- Ensure there are no gaps, folds or compression of product
- Fill gaps around windows and doors with off-cuts
- Do not cover vents. Insulate around vents to allow unhindered ventilation
- Fit insulation behind electrical wiring* and plumbing work. Partially cut insulation and place around wires or pipes if necessary

***CAUTION:** Electrical cables and equipment partially or completely surrounded with bulk thermal insulation may overheat and fail. This applies to wiring installed prior to 1989.

Specification Notes

State the following:

Product Required: Pink[®] Batts[®] Silencer[®] insulation and product variant

Product Specifications

	GREENGUARD IAQ CERTIFIED	PRODUCT CODE	SIZE (mm)	NOMINAL STABILISED THICKNESS* (mm)	NOMINAL TOTAL AREA PER PACK (m ²)	APPROX. COVERAGE PER PACK** (m ²)
Pink [®] Batts [®] Silencer [®] 100mm	✓	7310001	1140 x 580	100	13.2	14.9
Pink [®] Batts [®] Silencer [®] 75mm	✓	7310003	1140 x 580	75	17.2	19.5
Pink [®] Batts [®] Silencer [®] Midfloor	✓	7310051	1140 x 432	150	4.93	5.2

* Stated thicknesses are values at which stated R-values are achieved and are likely to be minimum values.

**Coverage relates to standard structure and actual coverage may vary.

Storage and Maintenance

Pink[®] Batts[®] insulation must be protected from damage and weather. Store under cover in clean dry conditions. The installed product must remain dry at all times. If the product has become wet or damp, the source of the dampness (e.g. leak in plumbing) must be repaired immediately and insulation replaced with new product.

Accreditations/Appraisals/Certifications

Tasman Insulation
New Zealand Ltd Certified QMS



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