

The future of **Insulation**

Commercial interior insulation



Fletcher[®]
Insulation

*We safely deliver extraordinary
value to our customers*

Advantages of using Fletcher Insulation™ glasswool thermal and a

There are a number of reasons why specifying and installing Fletcher Insulation™ thermal and acoustic insulation is the smart choice. It is a proven performer and enjoys consistency of manufacture, low irritation, softer and stronger fibres, providing full recovery of nominal thickness.

- The world has become a hotter and noisier place. Australia's extreme climate has created a demand for building designers to maximise the thermal and acoustic performance of their structures to improve conditions for people in their homes and workplaces. Especially at work, a more comfortable and quieter environment leads to increased productivity and reduced stress.
- With the right understanding of how insulation can be used, building designs can create operating efficiencies by increasing equipment life, reducing the capacity of air conditioning plants and increasing productivity of workers through comfort and acoustics.
- Insulated property, plant and equipment reduces the demand on power leading to lower energy usage and costs. In short, building with insulation is building sustainability.
- Importantly, many buildings are required by the National Construction Code (NCC) to use non-combustible materials in wall systems. The suitability of building materials and structures is determined by testing to AS1530.1 – Combustibility test for materials.
- In Australia, glasswool is one of the few insulation products that meets the non-combustibility requirements of AS1530.1. Information on the types of buildings that require non-combustible materials are available from Fletcher Insulation or by referring to the BCA.
- Fletcher Insulation™ glasswool products are manufactured from FBS-1 Glasswool Bio-Soluble Insulation®, which is classified as non-hazardous according to the criteria of the Australian Safety and Compensation Council (formerly NOHSC). Approved Criteria for Classifying Hazardous Substances (NOHSC: 1008) 3rd Edition. Fletcher Insulation™ glasswool is safe to use, refer to our Material Safety Data Sheet (MSDS).



 NON-COMBUSTIBLE						
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* Above logos apply to glasswool products manufactured by Fletcher Insulation.

Acoustic insulation

Insulation and energy efficiency

Fletcher Insulation is committed to providing environmentally sustainable products. Fletcher Insulation™ products have Zero Ozone depleting potential in both manufacture and composition, complying with the Green Star Insulant ODP Emissions credit requirement. Air quality is maintained with total Volatile Organic Compound (VOC) emissions below quantifiable levels.

- Insulation reduces energy usage saving you money
- A one-time cost for a lifetime of savings
- Efficient use of energy reduces pollution
- The more insulation we use - the less energy we use.

Pink® Partition products are produced from renewable resources and approximately 80% recycled glass using a world leading manufacturing process. That means glasswool insulation saves hundreds of times more energy than it takes to produce it.

Approved by unions

In April 2003, to reflect the latest medical and scientific facts, the Industry Code of Practice for the Safe Use of Rockwool & Glasswool Insulation was ratified between insulation manufacturers and a range of unions here in Australia including the CFMEU, CEPU, EPU, and AMWU.

This Code provides advice and guidance for the safe use of Rockwool and Glasswool insulation for our Australian building sites. The Code makes provision for additional, suitable measures to eliminate health risks to workers. A full copy of the code can be found and downloaded from the association website www.icanz.com.au.



Glasswool is the most widely used insulation in Australia and worldwide. It can be installed with absolute confidence and the significant advantages of thermal, acoustic and fire performance can be fully utilised.

Achieving BCA sound insulation provisions

The changes to the BCA sound provisions apply to all buildings in class 1,2,3 and 9c and are designed to increase protection from airborne sound for walls and floors separating sole occupancy units.

Typical class 1 building – Townhouses + terrace homes
+ detached dwellings

Typical class 2 building – Apartments + flats

Typical class 3 building – Hotels, motels and boarding houses

Typical class 9c building – Aged care facilities

The BCA has comprehensive 'deemed to satisfy' insulation systems covering most building types - both commercial and residential. BCA 'deemed to satisfy' insulation systems provide impact sound insulation for noise transfer between rooms, floors separating dwellings and sound protection for water supply pipes, ductwork and storm water pipes.

Fletcher Insulation has a solution for every provision. For further information contact our Sales Team on 1300 65 44 44.

The Pink® Partition family

Pink® Partition products deliver excellent thermal and acoustic performance for commercial applications. They are specifically designed to be free standing for quick installation in steel stud framing for multi-residential applications.

Pink® Partition 11 Thermal and Acoustic Insulation

Thickness mm	Declared Material R-value	Available Sizes mm x mm	Application
50	R1.2	1200 x 450 1200 x 600 2700 x 450 2700 x 600	Pink® Partition 11 insulation is the cost effective choice for reducing noise transfer between rooms. It provides a proven solution to achieving a minimum Rw45 wall – required by the BCA for aged care homes.
75	R1.8		
90	R2.1		

Pink® Partition 14 Thermal and Acoustic Insulation

Thickness mm	Declared Material R-value	Available Sizes mm x mm	Application
50	R1.3	1200 x 450 1200 x 600 2700 x 450 2700 x 600	Pink® Partition 14 insulation is designed to give assurance of effective sound absorption and for reducing noise transfer between rooms such as hospital rooms, commercial offices, and classrooms.
75	R1.9		
90	R2.2		

Pink® Partition 24 Thermal and Acoustic Insulation

Thickness mm	Declared Material R-value	Available Sizes mm x mm	Application
25	R0.7	2700 x 600	Pink® Partition 24 insulation delivers excellent thermal and acoustic performance for commercial applications where steel stud construction is used. It is ideal for installation in wall systems and as an acoustic ceiling overlay. The high thermal performance enables wall systems to easily comply to BCA Part J total R-value requirements for concrete tilt panel wall construction that is often used for shopping centres, factories, offices and high rise residential buildings.
38	R1.1	2700 x 600	
50	R1.4	1200 x 450 1200 x 600 2700 x 600	
64	R1.8	2700 x 600	
75	R2.1	1200 x 450 1200 x 600	
90	R2.5	1200 x 450 1200 x 600	
100	R2.8	1200 x 450 1200 x 600	

Pink® Partition 32 Thermal and Acoustic Insulation

Thickness mm	Declared Material R-value	Available Sizes mm x mm	Application
50	R1.5	1200 x 450 1200 x 600	Pink® Partition 32 insulation offers superior sound reduction properties particularly in multi-residential and commercial buildings. Pink® Partition 32 insulation is an effective solution for reducing room to room noise transfer. It also offers excellent thermal values, increasing the comfort of the building occupants and reducing energy use.
75	R2.2		
90	R2.7		
100	R3.0		

Pink® Partition 96 Acoustic Insulation

Thickness mm	Available Sizes mm x mm	Application
25	2400 x 1200 3000 x 1200	Pink® Partition 96 insulation provides excellent room to room sound control. This product is suitable for use in sports venues, auditoriums and cafes to name a few.

Pink® Partition 168 Acoustic Insulation

Thickness mm	Available Sizes mm x mm	Application
13mm	1200 x 914	Pink® Partition 168 insulation is the ultimate in controlling room to room sound transmission in offices, classrooms, medical centres and apartments; it significantly reduces noise transfer when used in steel or timber stud walls. It is typically fixed to partition studs under the plasterboard and thus acts as an isolating medium.

Using Insul Sound insulation prediction software, Fletcher Insulation is able to rapidly compare the noise transmission loss for different types of wall construction including concrete, brick, timber and steel with various types of wall linings and insulation infill to find out the optimum acoustic performance.

Pink® Partition thermal and acoustic insulation

Pink® Partition 11 acoustic insulation

Pink® Partition 11 insulation batts are manufactured from glasswool bonded with thermosetting resin, providing proven acoustic and thermal performance. The product contains an inherent strengthened skin on the surface which improves its handling qualities. Pink® Partition 11 insulation batts are light weight and easy to cut and install in walls and partitions, particularly those with steel studs. They are manufactured to give superior sound absorption and sound control at an economical cost. Excessive noise can have a detrimental effect on health and the efficiency of the workforce. Noise transmitted through a partition wall system can be greatly reduced when Pink® Partition 11 insulation batts are installed.

They are ideal for use in walls and partitions where sound control and improved thermal performance is required. They achieve superior results to polyester insulation. Pink® Partition 11 insulation batts are designed to be a full height, free-standing insulation in steel stud partitions in commercial buildings. The sizes enable quick friction fitting between studs at both 450mm and 600mm centres.

Pink® Partition 14 acoustic insulation

Pink® Partition 14 insulation batts are ideal for installation in metal and timber stud wall systems and as an infill between upper floors and ceilings. The BCA 2012 Volume One (class 2 to class 9 Buildings) Part F5 sets out minimum requirements for sound transmission and insulation for walls separating sole-occupancy units.

BCA Acoustic Requirements	Pink® Partition 14 System Solution
Class 2 or 3 buildings: Walls between units must have an $R_w + C_{tr}$ not less than 50.	Two rows of Pink® Partition 14 batts installed in two rows of 64mm steel stud (double stud/discontinuous construction) with an air gap not less than 60mm between the rows of studs, and one layer of 13mm fire-rated plasterboard on one outside face and two layers on the other.
Class 9c aged care building: Walls between units must have an R_w not less than 45.	Pink® Partition 14 batts 50mm thick installed in a 64mm steel stud wall system with one layer of 13mm fire-rated plasterboard on one side and two layers on the other.

Pink® Partition 24 acoustic insulation

Pink® Partition 24 insulation delivers high thermal and acoustic performance. It is ideal for installation in metal stud wall systems, as an infill in upper floors and ceilings and in furring channels for concrete tilt-up wall construction. Typical applications include ceilings and partitions in schools, churches, shopping centres, factories or offices where the range of sizes enables extremely cost effective installations with a minimum of cutting and joining.

Pink® Partition 32 acoustic insulation

Pink® Partition 32 insulation batts are a premium sound control product for cavity infills, overlays and for use as sound absorbing materials for home theatres and in architectural acoustic applications such as partitions, screens and baffles.

Pink® Partition 32 insulation batts are designed to provide solutions to 'problem' acoustic applications which cannot be satisfied by using more routine acoustic products.

Pink® Partition 32 insulation batts are available in a range of thicknesses from 50mm to 100mm. Each thickness has its own particular combination of sound absorption characteristics and thermal performance.

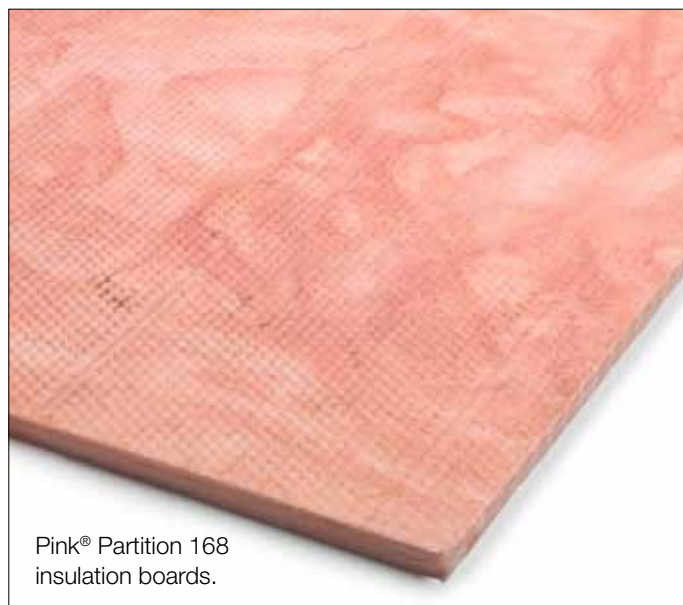
Pink® Partition 96 acoustic insulation

Pink® Partition 96 insulation boards are high density compressed glasswool boards with excellent acoustic properties. They are sanded on one side for a smooth aesthetic finish when covered by material. Pink® Partition 96 insulation boards are suitable as sound absorption panels at sports venues, auditoriums, cafes and restaurants.

Pink® Partition 168 acoustic insulation

Pink® Partition 168 insulation boards are ideal for the control of room to room sound transmission in offices, classrooms, medical rooms, apartments or homes. They provide a barrier against unwanted sound.

Pink® Partition 168 insulation boards are typically fixed to partition studs under the plasterboard and thus act as an isolating medium. They can also be used in concrete floor systems and framed ceilings to create a barrier to sound transmission between floors. Pink® Partition 168 insulation boards can be used to reduce noise between upper and lower floors. It can significantly reduce the transmission of impact sound when installed between the floor membrane and the concrete floor.



Pink® Partition 168 insulation boards.

Pink® NoiseSTOP insulation with a Durasorb® material facing

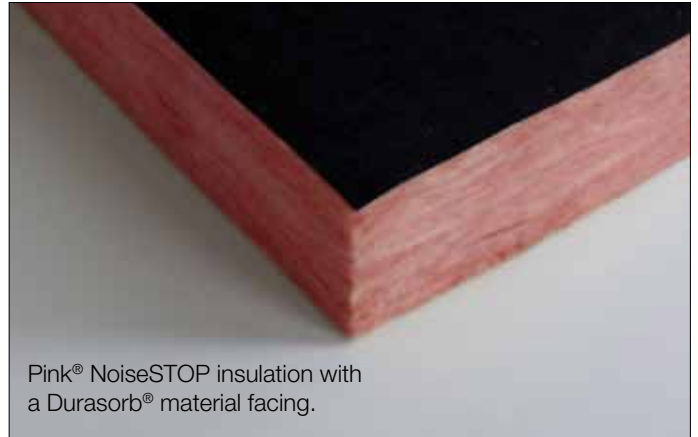
Pink® NoiseSTOP insulation is a high performance thermal and acoustic covering panel for walls and ceilings. A Durasorb® material facing is applied to one side of the panel to produce an aesthetically pleasing decorative finish. Pink® NoiseSTOP insulation creates a comfortable thermal and acoustic environment. It is ideal for theatre applications as well as offices and shops with exposed ceilings.

Fletcher Insulation® also has a range of solutions available to suit applications with perforated wall or ceiling linings. For further information contact our Sales Team on 1300 65 44 44.

Acoustic Performance of Pink® NoiseSTOP insulation with a Durasorb® material facing

Thickness (mm)	Noise Reduction Coefficient (NRC)*	Declared Material R-value	Available sizes (mm x mm)
25	-	R0.8	2400 x 1200
			2400 x 1500
38	0.95	R1.2	2400 x 1200
			2400 x 1500
50	1.10	R1.5	2400 x 1200
			2400 x 1500
75	1.10	R2.3	2400 x 1200
			2400 x 1500

*Above NRC values are based on testing conducted in accordance with AS ISO 354 – 2006.



Pink® NoiseSTOP insulation with a Durasorb® material facing.



Pink® SonoMatt Blanket® insulation

Pink® SonoMatt Blanket® insulation is an effective solution for ceiling overlays and for use as sound absorbing materials in architectural acoustic applications such as partitions, screens and baffles. It is designed to provide solutions to 'problem' acoustic applications which cannot be satisfied by using more routine acoustic products. Pink® SonoMatt Blanket® insulation is available in a range of thicknesses (from 55mm to 130mm). The range of thicknesses and acoustic performance available suit a wide spectrum of applications.

Pink® SonoMatt Blanket® insulation incorporates a black non-woven acoustic facing achieving a smooth black finish whilst providing excellent acoustic absorption.

Acoustic Performance of Pink® SonoMatt Blanket® insulation

Thickness (mm)	Noise Reduction Coefficient (NRC)*	Declared Material R-value	Available sizes (m x mm)
55	0.60	R1.3	20 x 1200
75	0.75	R1.8	15 x 1200
100	0.95	R2.5	15 x 1200
130	1.00	R3.0	10 x 1200

*Above NRC values were predicted by a third party. The predictions are based on flow resistivity results tested in accordance with ASTM Standard C522-033

Pink® Thermal Slab insulation

Pink® Thermal Slab insulation has been specifically developed for underslab insulation applications where thermal properties are pivotal in controlling the temperature fluctuations of a concrete roof or floor. It provides acoustic control and energy efficiency. These products are available in a silver foil or white foil finish.

Fletcher Insulation also has a range of solutions available to suit applications with perforated wall or ceiling linings. For further information contact our Sales Team on 1300 65 44 44.

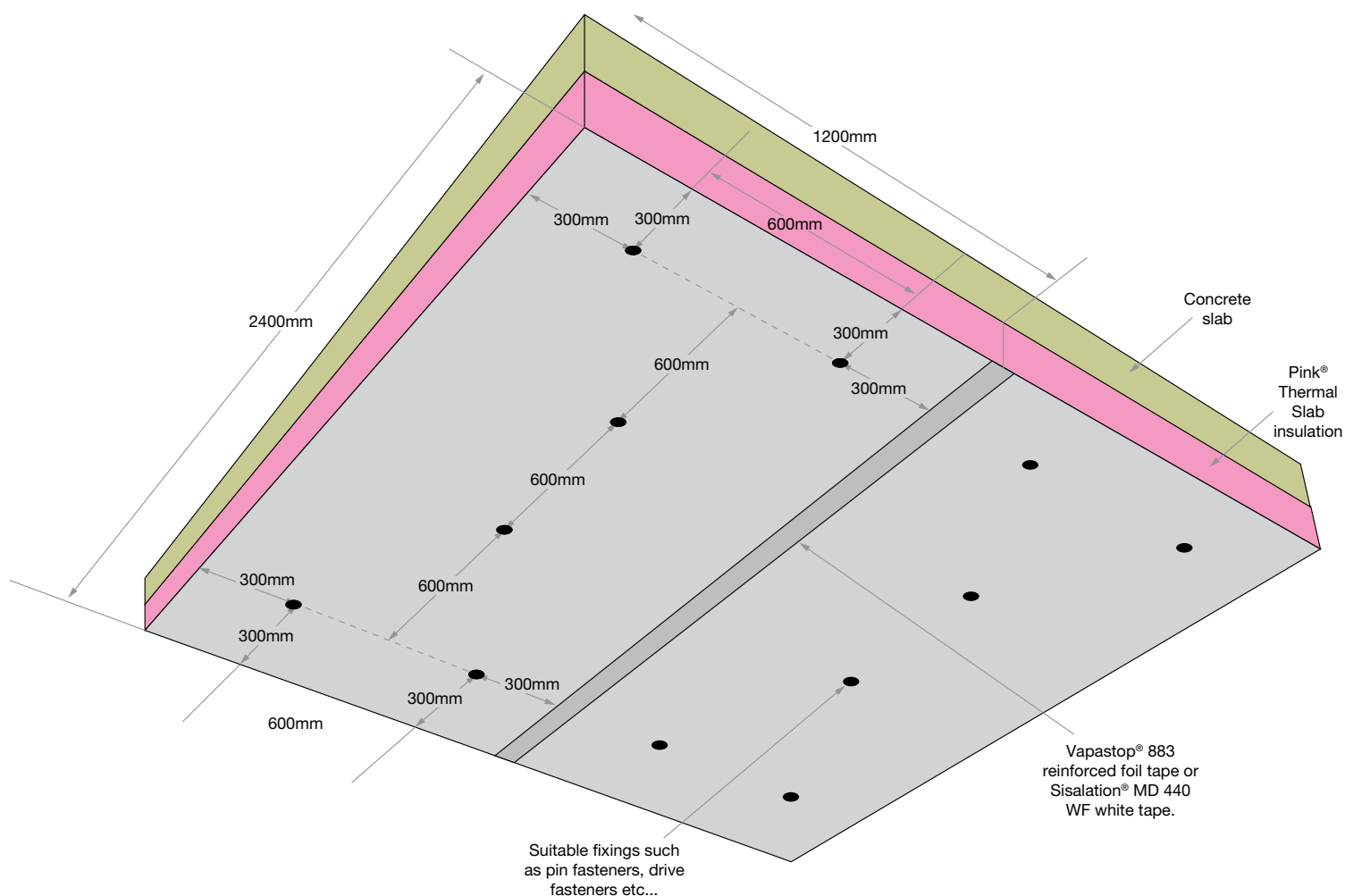
Acoustic Performance of Pink® Thermal Slab insulation faced with White Medium Duty Sisalation® foil

Thickness (mm)	Noise Reduction Coefficient (NRC)*	Declared Material R-value	Available sizes (mm x mm)
50	0.75	R1.5	2400 x 1200
75	0.70	R2.3	2400 x 1200
100	0.65	R3.0	2400 x 1200

*Above NRC values are based on testing conducted in accordance with AS ISO 354 – 2006.

Installation Guidelines

- Pink® Thermal Slab insulation is to be fixed to the underside of concrete slab using suitable fixings such as pin fasteners, drive fasteners etc... Select the appropriate pin length to prevent compressing the insulation.
- Fixing points to be determined in accordance with fastener load limits and the weight of the insulation.
- Ensure the glasswool face is in continuous contact with the concrete slab
- No exposed glasswool fibres should be present. Services, joints and the like to be taped and sealed accordingly. For Pink® Thermal Slab with a silver foil facing, use Vapastop® 883 Reinforced Foil Tape. For Pink® Thermal Slab with a white foil facing, use Sisalation® MD 440 WF tape.
- Seal around any penetrations using the foil tape.



Minimum number of fixing points illustrated above.

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NEED HELP?

CALL OUR NATIONAL CUSTOMER SERVICE TEAM: 1300 654 444

Additional assistance on Total R-values can also be found in the ICANZ Insulation Handbook at www.icanz.org.au

Fletcher
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