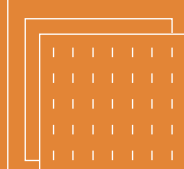
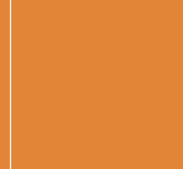
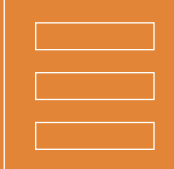
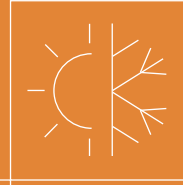
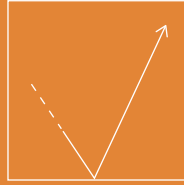


Fletcher Insulation
Building Better, Together

Aged Care Facilities

Building Healthier Living Spaces, Together





Fletcher Insulation supports Australia's leading architects and builders in the design of sustainable, healthy and positive learning environments.

It's said that a society that cares for its most vulnerable members is a true measure of its worth.

Constructing healthy, human-centred buildings for people in care supports their quality of life, dignity, and rights as individuals.

Designing for thermal comfort is especially important as older people find it difficult to cope with temperature extremes.

Well-insulated buildings also offer excellent noise control and create a peaceful living environment.

Many residential aged care facilities struggle to manage operating and maintenance costs and environmental emissions. Long-lasting, sustainable insulation solutions help contain energy demand through passive cooling and warming.

Fletcher Insulation develops industry-leading insulation solutions. Our technical and service teams support architects and specifiers in designing best-practice aged care facilities.

Creating sustainable, healthy, and comfortable environments for all older Australians in care

'High quality' aged care services always put older people first. That's the finding of the 2022 Royal Commission into Aged Care Quality and Safety.¹

As our population ages, there's even more demand for aged care facilities that better support the health of older Australians. Fletcher Insulation works with architects and specifiers to create energy-efficient and liveable aged care environments.

Our range of sustainable insulation materials – in walls and ceilings, under floors and roofs, around building services and HVAC – help designers create more comfortable places for people to live and work.

How a building can impact the quality of life of aged care residents

The quality of indoor thermal and acoustic comfort directly impacts the health and welfare of older people living in care facilities.

- A UK study established that an older person's thermal perception of the environment is 'blunted' due to the 'biological consequences of ageing on thermogenesis and decline in thermosensitivity.'²
- The study also found that people with dementia feel temperature more acutely, making them vulnerable to extremes of cold and heat. Their situation is made more difficult as they are often unable to communicate their needs to care home staff.
- Lack of mobility can also mean that many residents cannot adjust their thermal or acoustic environment.³
- Audiology Australia promotes good acoustic design for individuals with dementia. Their research reveals that people with dementia are particularly sensitive to their acoustic environment, and over- or under-exposure to noise can cause confusion, agitation, and aggression.⁴

At Fletcher Insulation, we'll help you specify the best insulation materials for use in your residential aged care projects.

Our aim is to support better design of aged care facilities by:

- Providing an optimum environment in which people can live
- Creating a healthier indoor environment for all residents and staff
- Reducing energy usage to control costs and environmental impact
- Enabling higher Green-Star ratings and WELL certification
- Ensuring safe, fire-resistant construction systems



A holistic approach to creating healthy living environments

Better building design improves the quality of life for older people in aged care. Our integrated approach to building insulation encompasses acoustics, indoor thermal comfort, air quality, and fire safety solutions



A supportive acoustic environment

The ability to hear declines as we age. Speech understanding is particularly affected, impacting our ability to communicate with others.⁵

Minimising external noise and indoor reverberations creates a better hearing environment for elderly residents in aged care.

For people with dementia or other chronic impairments, the auditory environment can positively or negatively affect their mood. By creating a positive acoustic environment that allows for better communication, aged care residents may feel less isolated and less anxious.⁶

Designing for comfort incorporates sound insulation in the building envelope and between rooms. Insulation helps to absorb unwanted sounds, improve speech intelligibility, and reduce disturbing operational noise.

Fletcher Insulation designs products that create a comfortable acoustic environment to support the health and wellbeing of residents in aged care facilities.



Controlling indoor thermal comfort, air quality and building condensation

Providing residents with safe, high-quality care is fundamental in aged care facilities.

As global temperatures rise due to climate change, older people are more vulnerable⁵ to heat extremes.

- Their bodies are generally less efficient at dealing with temperature changes due to chronic illness and the effect of medications.
- This decrease in their ability to regulate thermal conditions is exacerbated by mobility issues and their inability to change their immediate environment easily.
- Spending most of their time indoors in an environment that's not thermally comfortable or lacking in healthy indoor air quality, can lead to a decline in people's physical and mental health.

Providing a comfortable and thermally efficient indoor environment for aged care residents supports their health and wellbeing. It also helps contain energy costs and avoids excessive emissions caused by inefficient heating or cooling systems.

Fletcher Insulation provides product solutions that optimise thermal comfort, condensation control, and indoor air quality in aged care facilities.





Protecting people and buildings from fire

Great building design is fire safe. It uses passive fire protection strategies to prevent a fire from starting and to slow its progress. They're essential to protect property and people.

This is critical in aged care facilities, where people have limited mobility and physical and mental impairment.

Insulation in cladding, floors, ceilings, roofs, and around HVAC is integral to effective fire safety control.

Ensuring National Construction Code NCC 2022 compliance is non-negotiable. But building owners also need to consider standards and minimum requirements imposed by insurers.

Choosing insulation that fails to fit these specifications could mean higher insurance premiums.

Specifying insulation that's made of sustainable, non-combustible, fire-resistant materials is fundamentally smart design.

Fletcher Insulation's range of fire-resistant insulation products are designed to keep people and buildings safe.

Fletcher Insulation's glasswool products are deemed non-combustible when tested to AS 1530.1, offering compliance for use in external cladding and internal partition applications, and providing peace of mind.



For the good of the planet

Fletcher Insulation's commitment to sustainability and protecting the environment does not begin and end with supplying energy-efficient products.

It starts with our manufacturing processes.

We are working to reduce the carbon footprint of the built environment by:

- making insulation with zero Ozone Depletion Potential (ODP),
- ensuring our insulation products support healthy indoor air quality – our products contain no harmful levels of Volatile Organic Compounds (VOCs).
- using recycled materials in our manufacturing process wherever possible. About 80% of the glass used in our glasswool insulation is recycled – by transforming a waste product, we avoid further landfill pollution.



Around 80% of the glass used in our glasswool insulation production is recycled.



Building envelope applications

A high-performance building envelope is the cornerstone of an energy efficient building. It also creates a quieter, fire-safe, and more thermally comfortable environment for people to live and work in.

To develop the best insulation solutions, we take a holistic approach. We consider a broad range of performance parameters including energy efficiency, thermal comfort, acoustic comfort, fire resistance, indoor air quality, condensation management, thermal bridging, air tightness, and durability.

Roofing

Effective roof insulation will help reduce noise disturbance and provide a protective thermal, condensation control, and fire-resistant layer.

Fletcher Insulation has a comprehensive range of insulation solutions to meet the most demanding performance requirements for different types of residential aged care buildings. For metal roofing, we recommend the Permastop® range of building blankets.

- Made from up to 80% recycled materials, Permastop® products offer outstanding thermal and acoustic properties.
- Not only do they reduce heat transfer, but they also minimise internal reverberation and intrusive external noise, such as rain on a metal roof.
- Permastop® also minimises the risk of condensation forming under metal roof cladding.

To reduce thermal bridging, we recommend using Roof Razor® combined with Permastop®. Roof Razor allows full recovery of the insulation blanket between the safety wire mesh and metal cladding. By combining these products, you'll achieve optimum thermal performance, plus your building will meet or exceed NCC requirements.

Your best choice for aged care buildings with concrete roofs is Pink® Thermal Slab.

- With exceptional thermal and acoustic absorption properties, Pink® Thermal Slab drives energy efficiency and helps control noise and temperature fluctuations common to concrete roofs.
- It also provides excellent fire performance for ceiling lining applications, achieving an AS 5637.1 Group 1 NCC fire classification.
- Further, Pink Thermal Slab holds CodeMark certification for thermal performance, ensuring confidence and certainty with the issue of a Certificate of Conformity. This certificate serves as evidence of meeting the suitability requirements outlined in the National Construction Code (NCC).
- In concrete structures where aesthetics is not critical, we recommend the Permastop® range for a more economical choice. This product delivers on energy efficiency, containing costs, and keeping buildings cooler in summer and warmer in colder climates.

Fletcher Insulation has a comprehensive range of insulation solutions to meet the most demanding performance requirements for all types of residential aged care buildings.

Specifying products from the Fletcher Insulation range will not only help protect your building from structural damage down the track. You'll be creating more comfortable living spaces where people live and thrive.



External walls

Excessive noise disturbance has a negative effect on the physical and mental health of older people in care homes, especially for people with dementia.

Incorporating universal hearing-friendly design principles in the design of aged care buildings is essential for people's wellbeing and their ability to communicate easily.

As well as meeting the principles of good acoustic design, external wall insulation helps manage energy efficiency, regulate indoor thermal conditions, and meet fire performance regulations.

With its outstanding, high-performance acoustic capabilities, we recommend our Pink® Partition range of glasswool insulation. It offers proven non-combustibility and excellent thermal and acoustic performance. Plus, it's available in a comprehensive range of R-values, densities, and thicknesses.

All Fletcher Insulation glasswool insulation suitable for external walls is CodeMark certified for thermal performance.

Sisalation® Vapawrap® Vapour Permeable Residential Wall Wrap offers protection from the elements. An effective water vapour permeable membrane, it's designed to minimise draughts and the risk of condensation, enabling bulk insulation to perform more effectively.



FletcherSpec^{pro}

When selecting the ideal insulation products for your design, we recommend using the FletcherSpec Pro® design specification tool. It quickly calculates Total System R-values to meet all National Construction Code (Section J) requirements. With outstanding data integrity and calculation accuracy, this handy tool is kept up-to-date with the latest NCC criteria, giving architects and specifiers complete confidence when specifying insulation products.



Download FletcherSpec Pro® at the App Store.

Fitout applications

Insulation in internal walls, floors, and ceilings supports the acoustic and thermal comfort of residents, staff, and visitors. Durable and energy efficient, we've designed our range of fitout solutions to deliver exceptional performance under varying environmental conditions.

Ceilings, partitions, services and plant rooms

Fletcher Insulation's ceiling and partition wall insulation range offers outstanding fire protection and thermal and acoustic performance.

Pink Partition® is Australian made with up to 80% recycled content. It's ideal for creating a comfortable and safe environment in aged care buildings.

- Like all Fletcher Insulation glasswool insulation products, Pink Partition is non-combustible. Not only does it protect lives, but it helps reduce the damage should a fire break out.
- Pink Partition insulation provides excellent thermal insulation properties, with R-values ranging from R1.2 to R3.0. Keeping buildings cooler in summer and warmer in winter helps meet the thermal comfort needs of everyone living and working in age care homes.
- With its superior acoustic properties, Pink Partition insulation reduces background noise and sound transmission between residents' rooms and between floors, helping to maintain a more tranquil living environment.
- Holds CodeMark certification for thermal performance, ensuring confidence and certainty with the issue of a Certificate of Conformity. This certificate serves as evidence of meeting the suitability requirements outlined in the National Construction Code (NCC).



- In partition and ceiling applications where a higher density acoustic insulation over 32kg is required, Rockwool Safe 'n' Silent Pro is recommended. Rockwool Safe 'n' Silent Pro is a range of stone wool insulation used for interior applications where superior thermal and acoustical performances as well as fire resistance are required. Always consult your acoustic engineer &/or our technical team to determine the most suitable solution for your specific application.

Aged care buildings accommodate services for residential, healthcare, office, and commercial kitchen and laundry applications.

- Acting as a noise barrier and a noise absorber, Soundlag 4525C is an excellent insulation product for reducing noise break-out from pipes, valves, fan housings, and ductwork.
- Pink Partition insulation is ideal for insulating concrete or stud walls. It's an effective noise barrier and a noise absorber in plant and machinery rooms.
- In similar environments, we recommend Pink® Thermal Slab. Pink® Thermal Slab is fire-safe and controls noise levels and temperature fluctuations in concrete roofs, floors, and walls.

Fletcher Insulation helps architects and specifiers deliver optimised thermal and acoustic performance within the aged care building envelope.



Made in Australia from up to 80% recycled content, the Pink® Partition range is designed to meet AAAC recommendations – from low to high ratings. It's another example of how Fletcher Insulation provides architects and specifiers with the products they need to deliver optimum acoustic performance in all aged care environments.

Thickness mm	Density kg/m³	Material R-value	Sound Absorption Coefficients at Frequencies (Hz) of:									NRC	αw
			100	125	250	500	1000	2000	3150	4000	5000		
50	11	R1.2	0.15	0.16	0.63	0.88	0.98	0.99	1.00	1.01	1.06	0.85	0.85 (H)
50	14	R1.3	0.14	0.12	0.59	0.86	1.00	1.02	1.02	0.99	1.04	0.85	0.85 (H)
50	24	R1.4	0.16	0.17	0.69	1.02	1.09	1.03	1.07	1.04	1.06	0.95	0.95
50	32	R1.5	0.08	0.16	0.66	1.04	1.10	1.02	1.03	1.05	1.03	0.95	1.00
75	11	R1.8	0.26	0.27	0.91	0.99	1.04	1.00	1.06	1.05	1.11	1.00	1.00
75	14	R1.9	0.24	0.24	0.91	1.01	1.03	1.00	1.08	1.03	1.06	1.00	1.00
75	32	R2.2	0.18	0.32	0.98	1.10	1.08	1.05	1.07	1.06	1.09	1.05	1.00
90	24	R2.5	0.36	0.43	1.16	1.11	1.05	1.07	1.04	1.07	1.06	1.10	1.00
90	32	R2.7	0.32	0.58	1.14	1.05	1.05	0.99	1.05	1.04	1.03	1.05	1.00
110	11	R2.5	0.40	0.42	1.08	1.10	1.02	1.09	1.09	1.06	1.06	1.05	1.00

HVAC

The importance of having well-functioning Heating, Ventilation and Air Conditioning (HVAC) systems within an aged care facility cannot be overstated.

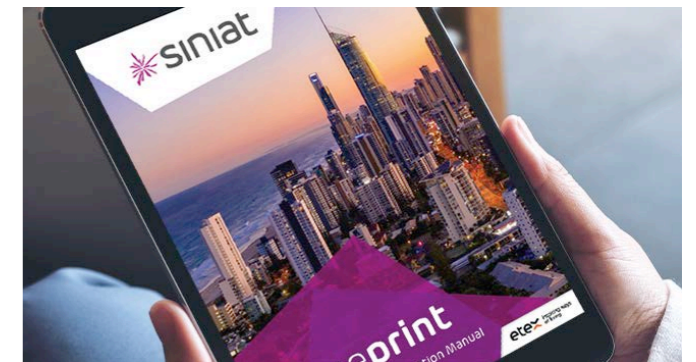
Effective HVAC helps maintain safe, comfortable conditions for residents often confined indoors and unable to regulate their temperature or sound environment independently.

The thermal properties of Fletcher Insulation's HVAC insulation products offer both efficient temperature control and safe indoor air quality.

And with heating and cooling accounting for 30% of the total energy consumption and 44% of the electricity use in aged care facilities⁷, more efficient HVAC also means containing maintenance outlays and minimising emissions and energy costs.

Our sound attenuation products complete our holistic systems approach by dampening HVAC system noise.

Non-combustible and safe to use, our insulation for HVAC is flexible, lightweight, and strong, making it ideal for specifying in aged care settings.



SINIAT

When choosing building insulation materials, designers can rely on the Siniat systems, certified using insulation products by Fletcher Insulation. The Siniat range of selection tools are robust, save time and effort and include:

- **Siniat Blueprint** a handy technical manual for lightweight steel and timber frame construction; includes complete wall and ceiling insulation solutions for commercial and multi-residential projects.
- **Siniat System Selector** is an online tool that enables selection of the most appropriate and cost-effective wall and ceiling systems.
- **Siniat's library of BIM and CAD files** for all types of systems. Handy to confirm which Fletcher Insulation product is best to use in your design.

Low rise aged care

Fitout: ceilings & partitions
Pink® Partition



Roofing—concrete
Pink® Thermal Slab



Building envelope: external walls
Pink® Partition with
Sisalation® Building Membranes



Building envelope: roofing—metal cladding
Permastop® Building Blanket with Roof Razor®



Fitout: hvac services
FI32 Semi Rigid



**Fitout: between floors
and underslabs**
Pink® Thermal Slab



High rise aged care

Fitout: HVAC services
FI32 Semi Rigid



Fitout: suspended ceiling
Pink® Partition



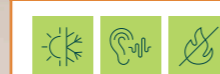
Building envelope: roofing—concrete
Pink® Thermal Slab



Fitout: between floors and underslabs
Pink® Thermal Slab



Fitout: ceilings & partitions
Pink® Partition



Building envelope: external walls
Pink® Partition



Selecting Fletcher Insulation products for aged care buildings

Product selection	Product description	Roofing	External walls	Internal walls	Ceilings, partitions and services	Slabs and soffits	HVAC
Roof Razor®	An insulation spacer specifically designed for metal roof construction. It sits between the roof structure and the external cladding, creating a space for insulation to recover to its full nominal thickness, reducing thermal bridging. Roof Razor is a spacer solution to meet the Section J requirement of the National Construction Code (NCC) where insulation must maintain its position and thickness between purlins forming a continuous thermal barrier.	✓					
Roof Safety Mesh	Roof Safety Mesh keeps the insulation blanket in place, provides fall protection for roofing installers and offers long-term fall protection for maintenance and repair workers. Complies with the requirements of Australian Standard AS/NZS 4389 for safety mesh and with all Australian State and Territory Codes of Practice (Safe Work on Roofs Part 1: Commercial and Industrial Buildings).	✓					
Pink® Building Blanket (unfaced)	Suitable for use in metal roof and wall applications, Pink Building Blanket is commonly installed in conjunction with a Sisalation® facing foil membrane which works to minimise the risk of condensation. Pink Building Blanket provides the added benefit of being an effective sound absorber and is thereby an excellent solution for the acoustic treatment of metal clad buildings.	✓	✓		✓		
Permastop® Building Blanket	Suitable for use in metal roof applications, as well as under slab concrete soffit applications. Provides effective thermal and acoustic performance by reducing heat transfer and minimising the internal reverberation and flow of unwanted nuisance noise generated from adjacent buildings/rooms and/or the external environment. Additionally, Permastop Building Blanket aids in minimising the risk of condensation that can form with metal cladding.	✓				✓	
Permastop® Tropic Building Blanket	Specifically designed for use in Australia's hot and humid tropical regions to provide increased condensation protection to buildings. In these regions, it is customary to install the vapour barrier on the upper side of the building blanket which faces the roof sheet. This ensures the vapour barrier is installed on the warm side of the building to provide greater protection against the risk of condensation.	✓					
Pink® Partition	Designed for use in commercial metal framed partitions, wall systems and ceilings, Pink Partition insulation delivers exceptional thermal and acoustic performance, contributing to the effective construction of comfortable, energy efficient commercial buildings. It is typically used in partition walls of low and high rise buildings and commercial fit-out education projects such as schools and universities where acoustic control is essential. Pink Partition may also be used as a ceiling overlay for enhanced thermal and acoustic performance. The range encompasses multiple densities, thicknesses and dimensions to suit commercial steel framed studs and to satisfy a broad spectrum of building requirements. Specification and installation of Australian made Pink Partition insulation enables designers and builders to satisfy National Construction Code (NCC) requirements pertaining to Energy Efficiency, Sound Insulation Provisions and Fire Resistance Performance.		✓	✓	✓		
Pink® SonoMatt Blanket®	Suitable for applications such as partitions, screens and baffles. The black tissue facing makes it ideal for installation behind perforated linings to improve the overall acoustic properties of the internal lining. In addition to providing exceptional acoustic performance, Pink SonoMatt Blanket provides the added benefit of thermal insulation and increases the overall Total R-value of a building envelope, thus improving the energy efficiency of a building. This allows architects and specifiers to satisfy both thermal and acoustic design requirements with the specification and installation of a single product.				✓		
Rockwool Safe 'n' Silent Pro	Suitable for use in both metal stud partition and ceiling applications in hospitals, cinemas, schools, offices and multi residential buildings where a very high level of acoustic performance is required. Made of volcanic stone, a safe and sustainable material that continues to perform throughout the lifetime of the building. It is designed and manufactured to achieve excellent acoustic insulation performance in all types of plasterboard partition walls.		✓	✓	✓		



Selecting Fletcher Insulation products for aged care buildings

Product selection	Product description	Roofing	External walls	Internal walls	Ceilings, partitions and services	Slabs and soffits	HVAC
Pink® Thermal Slab	Suitable for use in commercial under slab soffit applications where thermal and acoustic properties are pivotal in controlling noise levels and temperature fluctuations of concrete roofs, floors and walls. Pink Thermal Slab provides excellent fire performance for ceiling lining applications achieving a AS 5637.1 Group 1 NCC fire classification, and delivers excellent thermal performance, which in turn improves the energy efficiency of a building. It also provides the added benefit of exceptional acoustic absorption, which allows architects, specifiers and builders to satisfy both thermal and acoustic design requirements through the specification and installation of a single product.					✓	
FI32 Semi-Rigid	The medium density specification of FI32 boards and blanket (32kg) provides excellent thermal properties and NRC acoustic values making it suitable for internal and external walls, and roofing systems where a high degree of acoustic performance is required. Available in both roll or board form to allow for greater design flexibility in commercial building applications including HVAC ducting applications. Also suitable for insulating storage tanks, process vessels, appliance cabinets, electrostatic precipitators, plant rooms and for use in the manufacture of acoustic baffles.		✓	✓		✓	✓
FI48 Rigid Board	The higher density specification of FI48 boards (48kg) provides greater thermal properties and NRC acoustic values making it suitable for internal and external walls, and roofing systems where the highest degree of acoustic performance is required for the building's design. Also suitable for HVAC ducting applications, insulating storage tanks, process vessels, appliance cabinets, plant rooms and for use in the manufacture of acoustic baffles.		✓	✓			✓
Sisalation® Foam Cell Multipurpose	Designed for use in wall and roof applications, Sisalation Foam Cell Multipurpose is an extra heavy duty 3-in-1 multipurpose sarking solution: insulation + thermal break + vapour barrier with a Group 2 fire hazard property rating. Ideal for use in NCC Building Classifications 2 to 9, it can reduce up to 95% of the sun's radiant heat, minimises the risk of condensation and acts as an effective water and vapour barrier when installed according to AS/NZS 4200.2.	✓	✓				
Sisalation® Metal Roof MD (433) and HD (453)	Suitable for use as a vapour and water barrier sarking solution in commercial and residential metal roof and wall applications, where the metal roof span does not exceed 900mm unsupported or is 1200mm or less supported. Designed to provide an effective approach to managing condensation in the roof space by creating a vapour barrier and assist in minimising draughts, enabling bulk insulation to perform more effectively. Additionally, they provide an effective secondary skin against moisture, vapour, wind, heat and dust penetration.	✓	✓				
Sisalation® Vapawrap™ Vapour Permeable Metal Roof	Suitable for use as a vapour permeable roof sarking solution in commercial and residential metal roof applications in Australia's colder climate zones, where the metal roof span does not exceed 900mm unsupported or is 1200mm or less supported. Provides an effective approach to managing condensation in the roof space by allowing the controlled escape of moisture from within the building. It also restricts the ingress of liquid water and dust from the outside environment and assists in minimising draughts, enabling bulk insulation to perform more effectively.	✓	✓				
Sisalation® Vapawrap™ Vapour Permeable Residential Wall Wrap	Suitable for use as a vapour permeable wall wrap solution in low rise commercial and residential applications in Australia's colder climate zones. Designed for walls and gable applications in brick veneer and behind fibre cement cladding. Provides an effective approach to managing condensation in walls by allowing for moisture vapour inside the structure to escape, and assists in minimising draughts, enabling bulk insulation to perform more effectively.		✓				
Sisalation® Tuff Wrap™ Wall Wrap (497)	Suitable for use as a vapour and water barrier wall wrap solution in commercial and residential brick veneer wall applications. Designed to act as a barrier that helps prevent water vapour from entering the building, as well as restricting the ingress of liquid water and dust from the outside environment, and assisting in minimising draughts for more effective bulk insulation performance.		✓				
Quadzero Loaded Vinyl Barrier	A foil faced flexible acoustic barrier highly suitable for inside cavities or over lightweight wall, ceiling and floor constructions. Ideal for auditorium theatres, partitions and meeting rooms.				✓		✓



Compliant building performance

Fletcher Insulation conducts extensive research and product testing ensuring all our products and solutions are compliant with the latest standards and building code requirements.



Fire

Safety is paramount in building design, with the reduction of fire hazards and prevention of spread of fire considered critically important for designers of education buildings, especially considering the risk of evacuating residents and staff in the event of a fire.

Our specialists will advise you on passive fire prevention requirements for roofs, external wall construction, internal wall systems and HVAC services, including:

- **AS 1530.1** Combustibility (NCC 2022 Vol 1 C2D10)
- **AS 1530.2** Flammability of materials (NCC 2022 Vol 1 C2D10, C2D11 & Specification 7)
- **AS/NZS 1530.3** Fire Hazard Properties (NCC 2022 Vol 1 C2D11 & Specification 7)
- **AS 5637.1** Fire hazard properties (Group No) for wall and ceiling lining materials (NCC 2022 Vol 1 C2D11 & Specification 7)
- **AS 3959** Bushfire Construction up to BAL-FZ

Our products and solutions are compliant to the above relevant standards and safe for use in external cladding and internal partition applications, offering peace of mind and permitting architects to express design freedom in selecting cladding and partition materials.



Thermal performance

It is well established that thermal comfort contributes enormously to the wellbeing of building occupants, which is most critical in aged care environments. With the breadth of climate zones across Australia we make sure your design works whether in the extreme heat, extreme cold, or somewhere in between.

We also offer advice on NCC Class 9b thermal compliance, upgrade specifications and for general installation to deliver healthier and more sustainable outcomes.

Our Bulk Insulation products comply with:

- **AS/NZS 4859.1** Materials for the thermal insulation of buildings
- **AS 3999** Thermal Insulation of dwellings – Bulk insulation – Installation requirements
- **AS 4254** Part 1 and Part 2 Ductwork for air-handling systems in buildings
- **AS 4508** Thermal resistance of insulation for ductwork used in building air-conditioning
- **NCC 2022 Vol 1** Part J1.1-J1.3, J1.5-J1.6, and J5.5

Building membranes/wraps specification and installation compliance with:

- **AS/NZS 4200.1** Pliable building membranes and underlays – materials
- **AS 4200.2** Pliable building membranes and underlays – Installation requirements
- **NCC 2022 Vol 1** F3D3



Acoustics

Aged care environments have their own set of demands when it comes to the acoustic treatment of walls, ceilings, and services. Our solutions deliver peaceful environs for residents and staff.

Our products assist in reducing airborne sound through ductwork, and wall and floor construction, in accordance with:

- **AS/NZS ISO717.1** Acoustics – Rating of sound insulation in buildings and of building elements
- **AS/ISO 11654** Acoustics – Rating of sound absorption – Materials and systems
- Project specific high-performance acoustics

Our high density acoustic insulation helps target broad spectrum frequency bands for all round acoustic attenuation in:

- Specialised dementia units
- Open dining area or recreation environments
- HVAC ductwork



Condensation and moisture management

With the vast contrasts in climates and myriad construction systems available, specifying the correct material layers can be very challenging.

We help identify which systems work best in different climates to avoid interstitial condensation – leaving the worry and specification details to us.

We can assist in compliance with:

- **AS/NZS 4200.1** Pliable building membranes and underlays – materials
- **AS 4200.2** Pliable building membranes and underlays – Installation requirements
- Moisture control membranes tested to **ASTM-E96** (Vapour control) and compliant with **AS 4201.4** (Water control)
- **NCC 2022 Vol 1** Part F8D3
- Project specific humidity control

Our membranes and insulation solutions can be tailored for vapour permeable or vapour barrier construction, with nominated air control layers and air-tight tapes, so you don't have to worry about matching project specific climatic and/or humidity control requirements.

Compliance and design assistance



Fletcher Insulation is an active member of the Green Building Council of Australia (GBCA), exceeding 10 years of recognition for our commitment to providing energy efficient insulation and acoustic solutions to the residential, commercial and HVAC markets.

As a long-term member of the GBCA, we are upholding our commitment to providing products for a sustainable



built environment. As a GBCA member it enables us to contribute our technical and commercial expertise to the development of new Green Star rating tools and obtain access to all Green Star information. This information includes project directories, technical guidelines to support and/or assist our customers with Green Star project submissions and example submissions. The benefit to architects



and specifiers, is that they can meet and raise the Green Star rating of their building projects by incorporating our range of Fletcher Insulation products.

WELL is the leading tool for advancing health and well-being in buildings globally. Fletcher Insulation can provide you with advice and solutions to help you deliver improved results in the areas of air quality, thermal comfort and sound.



CodeMark Certificate of Conformity 30006



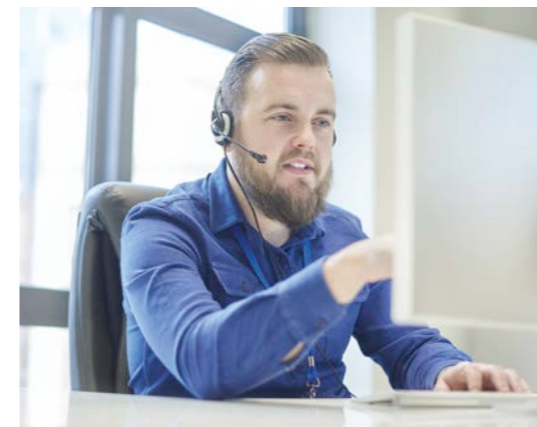
Fletcher Insulation has a comprehensive range of glasswool products that are CodeMark certified for thermal performance. This product certification is designed to provide confidence and certainty to regulatory authorities and the

market through the issue of a Certificate of Conformity. It is one of several options available for meeting the 'evidence of suitability' requirements of the National Construction Code (NCC). Importantly, our CodeMark 30006 certification:

- proves the listed products meet the evidence of suitability requirements of the NCC

- ensure they are capable of performing as intended
- streamline the building consent and inspection process

Further, they are listed on the Joint Accreditation System of Australia and New Zealand (JAS-ANZ) register.



Technical support

Fletcher Insulation's Technical Service is an invaluable resource for architects and specifiers. Our insulation experts understand what's needed to satisfy a diverse range of building applications, including the complex requirements of the aged care and health sectors. Providing the right advice when you need it, our technical service team has quality solutions to help solve your building insulation challenges.

Contact Fletcher Insulation on 1300 654 444 or email technical@insulation.com.au



FletcherSpec Pro® is a Fletcher Insulation app developed to overcome many traditional issues architects and builders face when specifying insulation. The app provides a near complete support structure, guiding users through the entire insulation specification process.

FletcherSpec Pro® delivers centralisation of the multitude of tasks associated with typical System R-value calculations including but not limited to; determining the relevant climate zone, referencing applicable energy efficiency requirements, considering solar absorption values of roof cladding and selecting the correct insulation products for the application. This drastically minimises the need to manually cross reference inconsistent or out-dated handbooks, technical data sheets and so on. Instead, users simply answer a series of targeted questions which the app uses to determine relevant energy efficiency requirements as outlined in the National Construction Code Deemed to Satisfy provisions. The app then progresses to calculate the Total R-value of the design based on the inputs entered by the user.

Technical Data Sheets and Installation Guidelines

Visit insulation.com.au to discover the excellent array of technical information available to download, whether you need to get into the product details yourself, or reassure the project team that our products are compliant, and safe and easy to install.



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