



FOILBOARD®

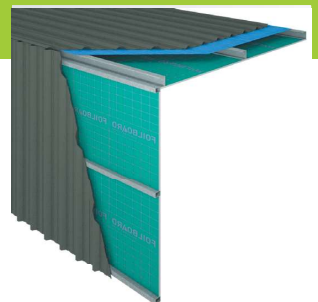
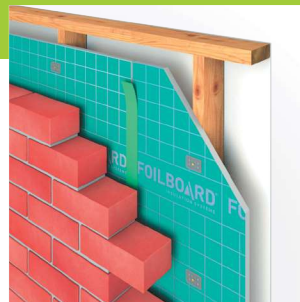
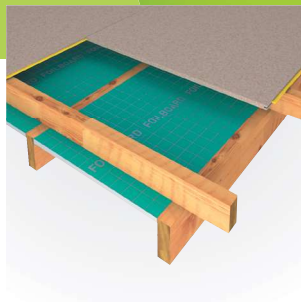
INSULATION SYSTEMS

It's the smarter way to insulate

- ✓ Commercial
- ✓ Residential
- ✓ Retail/DIY

Foilboard® GREEN

Information and Design Guide



RIGID INSULATION PANEL FOR SHEDS, FLOORS, WALLS AND CEILINGS.

Certified to Australian Standards

Foilboard® GREEN rigid insulation panel is proudly available nationwide through a network of insulation providers, hardware & timber merchants, wholesale stockists and distributors.

PERTH

BRISBANE

ADELAIDE

SYDNEY

MELBOURNE



It's the rigid insulation panel for under your floors, in your walls, in your roof and even to line your man-caves & sheds.

Manufactured in Australia from a fire retardant expanded polystyrene core (FR-EPS) with pure aluminium foil directly laminated to both sides, creating a SUPERIOR INSULANT, THERMAL BREAK and NON-PERMEABLE MOISTURE BARRIER.

Foilboard® GREEN has been engineered and designed to ensure a quick and easy installation of a non-itchy, fibre free rigid insulation panel that will provide continuous thermal performance for the life of the building.



It's the smarter way to insulate.

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The Foilboard® Difference

Foilboard® Australia backs its Foilboard® GREEN with a 25 year performance guarantee.

Manufactured to Australian Standards, the Foilboard® GREEN rigid insulation panel is the premium insulation product in its market, both in manufactured quality and product performance and that is why it is backed by a 25 year performance guarantee.

This durable rigid panel is specifically designed to achieve exceptionally high thermal values with the use of the reflective airspaces, making it the ideal product. Unlike traditional bulk insulation and blankets, Foilboard® GREEN rigid panel will not shrink, sag or droop, ensuring that the building performs to its optimal thermal performance, to year 25 and beyond.

Foilboard® GREEN performance Guarantee*

- ✓ Will maintain the same thermal performance (R value) for the life of panel.
- ✓ Will not sag
- ✓ Will not delaminate



Did you know a 4% void in insulated BATTs as a result of sagging, improper installation or stapling can increase heat loss by 15-50% **

*Foilboard® guarantee is only applicable when product is installed in accordance to manufacturer installation guide.

**Information provided is independently sourced from the (ASHRAE) Fundamentals Handbook

Applications



Want to find a supplier of Foilboard® products?

www.foilboard.com.au/storelocator



Want to find the right product for your application?

www.foilboard.com.au/productselector

Commercial Applications

Comm 1

Brick / Concrete Wall Lining (Single Reflective or Dual Airspace)



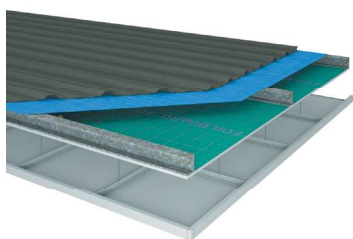
Incorporating Foilboard® GREEN rigid insulation panel into a standard 150mm concrete precast system, you can dramatically increase the thermal performance of the wall from an R0.3_i to R2.8_i.

Foilboard® Insulation Panel will not sag and leave uninsulated pockets that can reduce R Values. Once fixed in place, it will maintain complete coverage around the building and as it covers the frame, there can be no loss of effectiveness via thermal bridging through the frame.

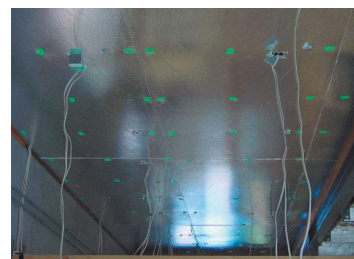


Comm 2

Suspended Ceiling Insulation

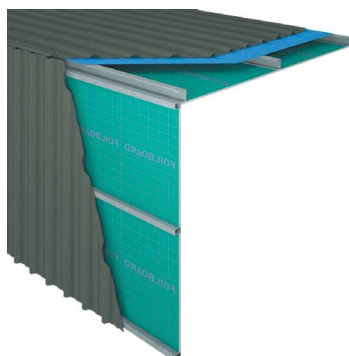


Incorporating Foilboard® GREEN into a suspended ceiling increases the thermal performance of the roof structure and with its slimline design, it can fit in almost any cavity size. The versatility of the panel also means that the product can be fixed at varying heights, ensuring maximum effectiveness.



Comm 3

Commercial Purlin Fix, Shed & Garages - Vertical and Raked



Ideally used in factories, sheds and alike, the Foilboard® panel is quickly and easily installed through the use of Foilboard® fasteners and accessories.



R_t - R-values displayed are "total system R-values". Estimated calculation is provided is based on the use of the Foilboard® GREEN rigid insulation panel and to be used as a guide only. Under no circumstances can this calculation be used as a reliable measurement for your specific R-Value requirements due to varying air-spaces, thermal bridging and other assumed building elements.

Where applicable, Foilboard® GREEN should be installed per the National Construction Code (NCC) and applicable state building legislations.

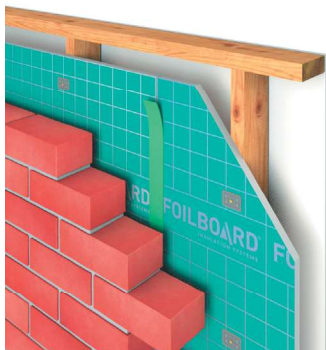


Need an installation guide? www.foilboard.com.au/installation

Residential Applications

Resi 1

Brick Veneer Lining – (timber / steel frame)

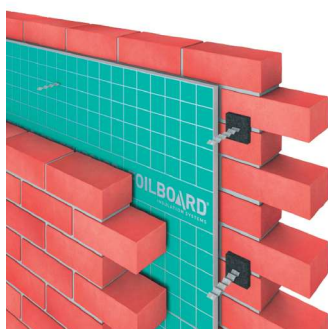


By fixing the Foilboard® GREEN rigid panel to the exterior of the studwork, you can ensure a continuity of thermal value, creating an “esky” effect around the home. With the added benefit of achieving “lock-up” stage sooner, allowing for a quicker build time.



Resi 2

Double Brick Cavity Insulation



Designed to fit within the standard space of the double brick cavity, Foilboard® GREEN rigid panel optimises the airspace within the structure without the need to re-engineer or redesign the cavity wall system.

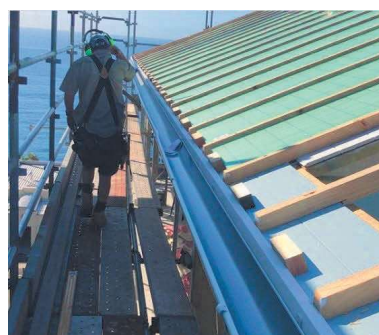


Resi 3

Skillion / Cathedral Roof Insulation



Where space is of a premium, Foilboard® GREEN rigid panel works perfectly within skillion and cathedral roof spaces.



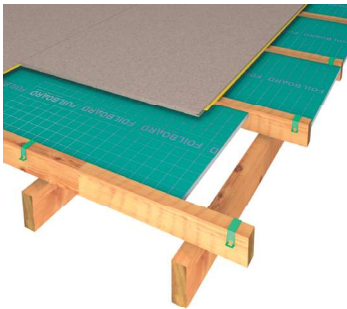
Superior Thermal Performance



Where applicable, Foilboard® GREEN should be installed per the National Construction Code (NCC) and applicable state building legislations.

Resi 4

Underfloor Insulation – Floor Saddles

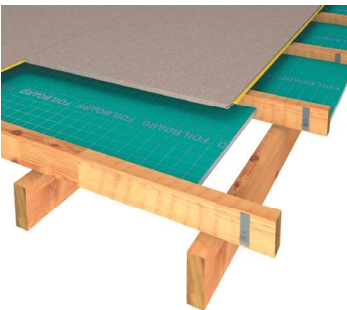


Through the utilisation of the Foilboard® Floor Saddles, Foilboard® GREEN rigid panel can be installed quickly and easily into the sub-floor before laying timber / particle board flooring.



Resi 5

Underfloor Insulation – Flexifit



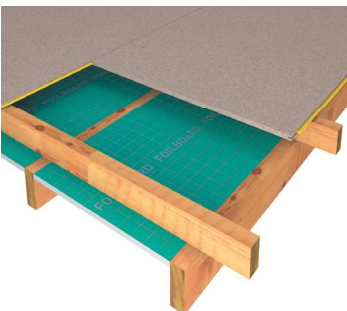
With the use of the Foilboard® Flexi-fast fastener, Foilboard® GREEN rigid panel is perfect for increasing R Values in new flooring systems or retrofitting to existing flooring systems.

Foilboard® GREEN is light weight, easy to cut and manoeuvre into place, making it the perfect underfloor insulation.

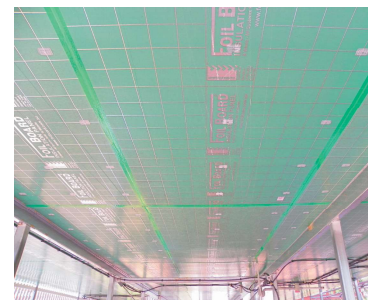


Resi 6

Underfloor Insulation – Retrofit



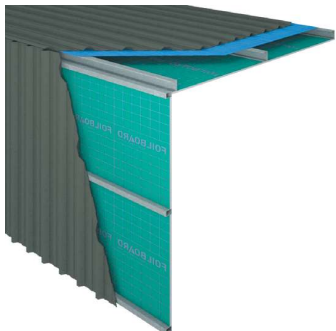
For larger sub-floor areas or for the quickest and very effective underfloor installation method, the Foilboard® GREEN rigid panel can be fixed directly to the underside of the joist, giving the maximum thermal benefit.



Where applicable, Foilboard® GREEN should be installed per the National Construction Code (NCC) and applicable state building legislations.

DIY 1

Sheds & Garages

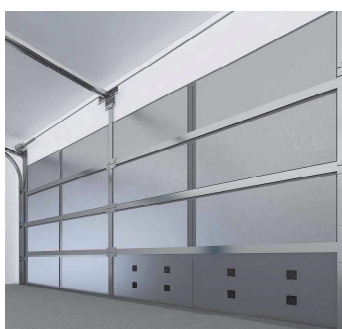


Foilboard® is a leading shed insulation for all existing and new sheds. It will keep your shed, garden shed, workshop, office or garage cooler in the summer and warmer in the winter, making it more comfortable and convenient for all your shed activities.



DIY 2

Garage Doors

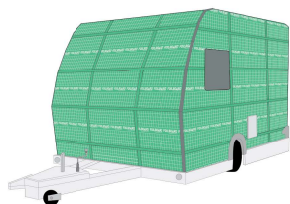


By installing Foilboard® Insulation on a panel lift garage door, it will reduce the radiant heat entering your garage and decrease energy costs of the home. Insulating the garage door will improve the comfort of the garage, so it can be used as an additional living or workspace.



DIY 3

Caravans & Motorhomes



Foilboard is ideal for use in Van and Motorhome Conversions. It is easy to handle, won't absorb moisture and has a radiant heat barrier that aids in preventing radiant heat from entering your vehicle. It is perfect for use in the walls and the roof.



DIY 4

Shipping Containers



Foilboard® insulation will provide superior thermal resistance for the ceiling, walls and floor. Foilboard® is retrofitted inside the shipping container to the ceiling, walls and floor to create a complete thermal and moisture barrier to withstand the external elements.



Where applicable, Foilboard® GREEN should be installed per the National Construction Code (NCC) and applicable state building legislations.



Need an installation guide? www.foilboard.com.au/installation

A better product improves your performance

Unlike traditional bulk insulation and insulated batts, Foilboard® GREEN's slimline profile makes for an ideal thermal break & vapour barrier, and with its superior thermal performance, it ensures a continuous "esky" effect to the building year round.

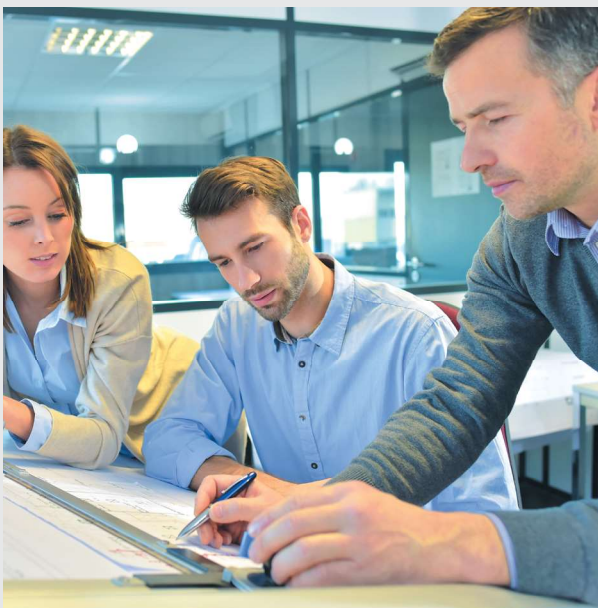


Slimline Design

Foilboard® GREEN

- ✓ Manufactured to AUSTRALIAN STANDARDS
- ✓ BCA Compliant
- ✓ Fire retardant
- ✓ Does not require the use of protective clothing or safety gear whilst installing
- ✓ Formaldehyde free
- ✓ CFC & HCFC free
- ✓ Has Zero Volatile Organic Compounds (VOC's)
- ✓ Has no harmful carcinogens
- ✓ No dangerous fibrous airborne particles
- ✓ Achieves high R-values without the need for re-engineering the building's design
- ✓ Installed without thermal bridging
- ✓ Lightweight and fast to install
- ✓ Impervious to moisture
- ✓ 100% Australian Made
- ✓ 100% Australian Owned

FOILBOARD® DESIGN AND TECHNICAL SERVICE



Having an unrivalled technical department, Foilboard® Insulation Systems offers this valuable resource to aid in the design and construction stages of every project. From commercial projects, to the humble renovation or D.I.Y. project.

Foilboard® Australia provides:

- ✓ DESIGN ASSISTANCE
- ✓ INSTALLATION GUIDANCE
- ✓ TECHNICAL DATA
- ✓ THERMAL CALCULATIONS

Ensuring the optimal performance of the Foilboard® GREEN Rigid Panel.

Foilboard® Australia is the only manufacturer in the industry to supply fully certified thermal calculations to support the product within the specific application.

Technical Data



- ✓ ZERO ozone depleting substances (CFC HCFC Free)
- ✓ ZERO Volatile Organic Compounds (VOC's)
- ✓ Vapour Transmission rate - Nil
- ✓ Emittance is E0.03
- ✓ Reflectivity is 97 (reflective face)

Foilboard® GREEN Tests

Thermal Performance	AS/NZS 4859.1
Surface Corrosion and Wet Delamination	AS/NZS 4859.1 APPENDIX E
Thermal Resistance	ASTM-C 518
Emittance	ASTM-E 408-71
Ignitability	AS 1530.3
Flame Spread	AS 1530.3
Heat Evolution	AS 1530.3
Smoke Development	AS 1530.3
Rigid Cellular Substrate	AS 1366.3
Nominal Density	AS 1366.3
Cone Calorimeter	AS/NZS 3837
Vapour Transmission	AS 2498.5
Dry Delamination	AS/NZS 4201.1
Shrinkage	AS/NZS 4201.3
Wet Barrier	AS/NZS 4201.4



Foilboard® GREEN Material R-Values

Foilboard® GREEN 10	R 0.26 *
Foilboard® GREEN 15	R 0.39 *
Foilboard® GREEN 20	R 0.52 *
Foilboard® GREEN 25	R 0.65 *
Foilboard® GREEN 30	R 0.78 *
Foilboard® GREEN 40	R 1.05 *
Foilboard® GREEN 50	R 1.30 *

***Foilboard Material R-Values does not take into account the 97% of radiant heat that has been reflected away from the heat source. Foilboard Insulation thermal efficiency needs to take into account the reflective airspace to provide a comparative R-Value with other types insulation.**

As Total system R-Value takes into account reflective airspaces this will provide the most accurate measurement of the R-Value for your specific project.

Contact our technical team, should you need assistance with determining a total system R Value.

Where applicable, Foilboard® GREEN should be installed per the National Construction Code (NCC) and applicable state building legislations.

Foilboard® and the Environment

Designed with sustainability in mind, Foilboard® Insulation Panel will last the life of the building. It is one of very few products on the market that creates a true thermal break, meaning the long term benefits of Foilboard® Insulation Panel far outweigh any other insulation material. The material's ability to create a more consistent ambient temperature means you are not reliant on inefficient artificial heating and cooling. This reduces energy use and the production of greenhouse gases creating a more sustainable future for all and saves you money.

There are no Volatile Organic Compounds (VOC's), nor are any CFC's used in the manufacture of the Expanded Polystyrene (EPS). The pure aluminium that is directly laminated to both sides of the Foilboard® Insulation Panel is also 100% recyclable.

Foilboard® GREEN rigid insulation panel ensures optimum performance by creating a thermal barrier around your building or home – reducing your energy consumption costs and carbon footprint making for a healthier, greener environment.

Designed, tested and manufactured in Australia for over 25 years, Foilboard® GREEN rigid insulation panel was the first panel of its kind in the Australian market.



- ✓ **BCA Compliant**
- ✓ **Environmentally Safe**
- ✓ **No harmful “itchy” fibres**
- ✓ **Fire Retardant Rigid Panel**
- ✓ **Excellent acoustic properties**
- ✓ **Lightweight & durable**



It's the smarter way to insulate

www.foilboard.com.au

For all enquiries, please call 1800 354 717

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 **Find a supplier:**

foilboard.com.au/storelocator

 **Product Selector:**

foilboard.com.au/productselector

FOILBOARD® STATE WAREHOUSES:

QUEENSLAND

120 Fox Rd
Acacia Ridge QLD 4110

NEW SOUTH WALES

Unit 3, 1/7 Smeaton Grange Rd
Smeaton Grange NSW 2567

WESTERN AUSTRALIA

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Welshpool WA 6106