

Ventilation for a healthier home

Homes with wooden floors supported by piers can suffer from poor sub-floor air circulation. Stale or damp sub-floor air can encourage termite action and mould and fungal growth which can trigger allergies and respiratory problems. It can also cause stale and musty odours which permeate into living areas.

To improve sub-floor air quality and reduce humidity levels beneath the floor, Edmonds have developed the ecoFAN. ecoFAN features a DC motor driven fan, installed within an aluminium powder coated frame.

This high efficiency fan draws only 6.5W and yet extracts an amazing 4,000 litres of sub-floor air each minute to be replaced by clean, fresh, external air sucked through wall grilles placed opposite the ecoFAN.



Energy costs to run an ecoFAN continuously are comfortably less than \$10 per annum.

Installation

The ecoFAN is designed for easy installation. Simply remove one full brick and part of the adjacent bricks above and below to fit the unit. A 12v adaptor is provided for connection to a standard power point, no electrician is required.

In a very damp sub-floor, additional drainage may also be required.

The Optimo™ range

The Optimo™ product range has been designed to suit all climates and standard joist spacings.

Material R-Value	Nominal Thickness [mm]	Nominal Width [mm]	Nominal Length [mm]
R2.0	75	410	1500
R2.0	75	560	1500
R2.5	95	410	1500
R2.5	95	560	1500
Optimo™ straps			
	1	20	190
Optimo™ saddles			
For R2.0	1	45.2	55
For R2.5	1	45.2	70

Optimo™ straps are available in bags of 100 and boxes of 250.



For further information refer to the material safety data sheet for this product which is available on our website www.bradfordinsulation.com.au

Bradford Insulation

55 Stennett Road
Ingleburn NSW 2565, Australia
Phone (02) 9765 7100 or 1300 850 305
Fax (02) 9765 7029

Bradford™
for smarter environments

Bradford™
optimo™ sub-floor

The optimum in sub-floor insulation



Rising energy costs got you floored?



If you have an older home, installing ceiling insulation is a great way to improve your comfort and energy efficiency but your floor could be letting you down.

Homes with well-insulated ceilings and walls could still be losing as much as 15% of their heating and cooling energy use through the floor, costing you money and increasing your greenhouse gas emissions.

Bradford Optimo™ has been specifically developed to increase the comfort, energy efficiency and safety of homes with suspended timber floors.

Bradford Optimo™ is a rigid high density insulation manufactured from rockwool for excellent thermal, acoustic and fire resistance properties.

Designed to fit snugly between the joists and supported with custom designed aluminium straps or plastic saddles, Optimo™ is a simple to install solution.

Enjoy all the benefits of Optimo™

- Reduces heat transfer through suspended floors
- Helps stop draughts through timber floors
- Reduces external noise entering through the sub-floor
- Helps achieve 6 Star energy rating and meet VEET requirements

Thermal comfort

A polished timber floor can look warm and inviting - but looks can be deceiving.

With an uninsulated suspended floor, your flooring material is the only thing between you and the outside air, so it's not hard to imagine how heat can be lost and how draughts can enter your home through the floorboards.

Installing Bradford Optimo™ is like slipping on a thick pair of socks - it stops the cold entering your home and keeps your toes warm. By stopping draughts it will also help prevent the chills spreading through your home.



Keeping noise outside your home

Sound can enter your home anywhere that air is able to, so external noise can be transferred through your floor. Rockwool has long been regarded by architects and builders as the industry standard for acoustic insulation making Optimo™ an excellent sound absorber.

In fact Bradford Optimo™ can reduce sound transmission through the floor by up to 6dB. A 3dB reduction in sound transmission is recognised as delivering a significant reduction in audible noise within your home. Not only will Optimo™ help reduce noise entering your home from outside it will also dampen the sound of foot traffic on timber floors.

Breathe easy

Bradford is the only approved insulation partner of the National Asthma Council Australia Sensitive Choice program. Bradford Optimo™ is suitable for use in the homes of asthma and allergy sufferers and it doesn't provide a food source for insects or vermin.



Enhanced fire resistance

Rockwool is the most popular insulation for fire protection in buildings. It doesn't burn or contribute to the spread of flame which could save vital minutes in the event of a fire.

Performance you can trust

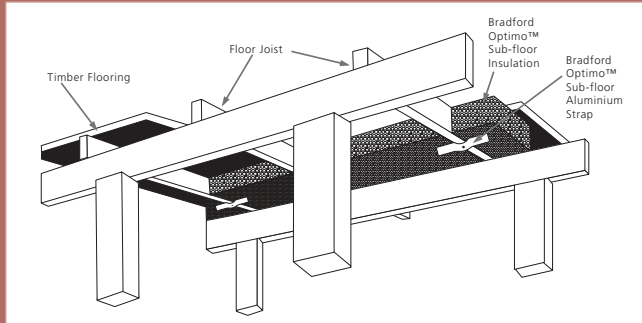
Bradford Optimo™ is manufactured under ISO 9001 Quality Systems and complies with AS4859.1 "Materials for the Thermal Insulation of Buildings". This is your assurance it will provide the level of performance stated on the pack.

Established over 75 years ago, Bradford Insulation is Australia's most experienced insulation company. This experience, combined with our world class manufacturing technology, is your guarantee of quality and performance, all backed by CSR, Australia's leading building materials company.

Simple to install

Tools Required:-

- Tape measure
- Paslode Duo-Fast CNP 50 Coil Nailer (Part No. D40020) with round head galvanised 25-50mm 'D' nails or equivalent OR
- Bosch GSR 10.8 V-Li2 Professional Cordless Drill Driver and No.6 16mm galvanised screws
- Sharp long bladed, holstered knife
- Torch or lamp



Installing Optimo™ in existing floors

Bradford Optimo™ is simple to install beneath an existing suspended timber floor

- Take enough packs into the sub-floor area for the whole job, where possible. As access and workspace can be restricted 2 people may be required for installation.
- Use 410mm width segments for 450mm joist centres and 560mm width segments for 600mm joist centres.
- Start fitting insulation from the furthest point from the sub-floor access.
- Fix the Optimo™ aluminium strap* to the timber joists every 500mm and swivel so the strap runs parallel to the joist to leave access to the cavity free to install the insulation. For non-standard joist spacings additional straps may be required.



- Friction fit Bradford Optimo™ segments to fit tightly between the joists and press in place to ensure there are no gaps between insulation and joists, or abutting edges of insulation.



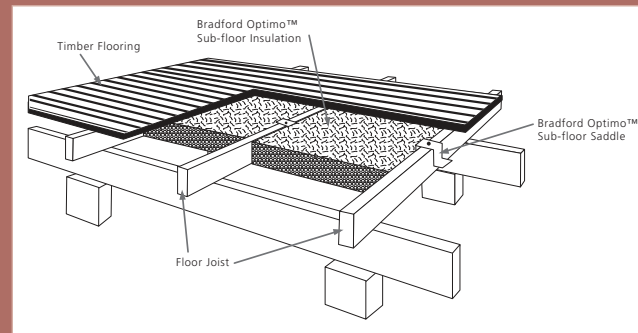
- If the batt is too tight, trim the edge to 5mm over the width of the space before inserting.
- If the batt is too loose, slice a piece off the edge of another batt to use as a packer.
- Swivel the Optimo™ aluminium strap* 90 degrees so the strap extends into the floor cavity between the joists. Bend the Optimo™ aluminium strap upwards to support the underside of the insulation.



- Take care not to block ventilation openings

* Patent pending.

Installing Optimo™ in new floors

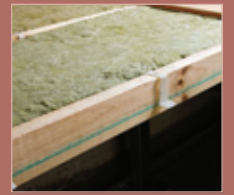


Bradford Optimo™ segments are most easily installed from above before the floor is installed.

- Place Optimo™ saddle across joist every 500mm and fasten into place using a nail screw or staple.



- Fit segments tightly between joists so they are resting on the feet of the Optimo™ saddle, but do not compress the segments



- Do not leave any gaps between segments
- Flooring can be installed once the insulation is in place
- Do not block ventilation openings

Electric cables and services

- If any electrical wiring will be covered by insulation, seek advice from an electrician.
- Electric cables and equipment partially or completely surrounded with bulk thermal insulation may overheat and fail.
- If services such as electrical cables or plumbing pipes run along joists, bend the Optimo™ strap into an L-shape, at 90°, and fix to the side of the joist, to avoid contact with wiring or pipes.

