

Bradford™   
optimo™ underfloor

# The ultimate in underfloor insulation



**Australians understand the benefits of insulation. By resisting the flow of heat through a building's envelope, insulation reduces heat gain in summer and heat loss in winter – making homes more comfortable to live in and reducing their reliance on heating and cooling.**

Most Australian homes have ceiling insulation and new homes now also include wall insulation which is installed at the time of construction. However, for homes with suspended floors, it is one element of the envelope that may not be insulated and this can contribute to as much as 20% of heat loss in winter. Bradford's Optimo Underfloor insulation is the solution, allowing you to address this neglected area and maximise your home's comfort and energy efficiency.

## Thermal comfort

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

Without insulation, your flooring material is the only thing between you and the elements. Heat can be lost and draughts can enter through the floorboards making your home cold and uncomfortable.

Bradford Optimo provides a barrier to reduce heat loss and cold draughts entering through gaps in the flooring.

Bradford Optimo is available in a choice of R-Values and batt widths to suit most homes in Australia.



## Acoustically superior

Sound can enter your home anywhere that air can, so external noise can also be transferred through a suspended timber floor. Bradford Optimo is an excellent sound absorber. Not only will it help reduce noise entering your home from outside, it will also dampen the sound of foot traffic and give timber floors a more solid feel.

Testing undertaken by CSR and Acoustic Logic shows the superior acoustic performance of Bradford Optimo at reducing transmission noise. The systems tested (shown below) all used standard 19mm Yellow Tongue particleboard flooring on timber joists and installation for all insulation products was as per manufacturers recommendation.

NO INSULATION	KINGSPAN AIR CELL PERMAFLOOR	EXPOL UNDERFLOOR INSULATION	BRADFORD OPTIMO R2.1 (75mm)	BRADFORD OPTIMO R2.5 (90mm)
Rw 26	Rw 26	Rw 28	Rw 34	Rw 35

The results speak for themselves – if reducing sound transmission through flooring is important then Bradford Optimo is the best insulation down under.

### What is RW?

The Weighted Sound Reduction Index (Rw) rates an acoustic insulation effectiveness. Increasing the Rw number by one translates to a reduction of approximately 1dB in noise level. The higher the Rw number the better a sound insulator the product will be.

### BRADFORD OPTIMO

- Reduces heat transfer through suspended floors
- Helps reduce draughts entering through timber floors
- Reduces floor reverberation for a more solid feel
- Reduces external noise entering through subfloor
- Helps achieve 6 Star energy rating and meet VEET requirements





# Optimo easy DIY

Optimo has made it easy to Do It Yourself with the choice of aluminium Optimo straps or innovative Optimo StayFast™ system for a secure fit under the floor.

## INSTALLING OPTIMO UNDERFLOOR UNDER AN EXISTING FLOOR

### BEFORE YOU BEGIN INSTALLING OPTIMO

#### TOOLS NEEDED

- Tape measure
- Hammer and nails or cordless drill and self-tapping screws (straps only)
- Retractable knife
- Torch
- Eye protection
- Disposable dust mask
- Long sleeve shirt



Switch off power at the fuse box. Measure your floor joist spaces. Usually 450mm centres or 600mm centres. For 450mm centres use 415mm wide batts. For 600mm centres use 565mm wide batts. Trim batts with knife if too wide.



Take enough packs into the underfloor area for the whole job where possible. Start fitting insulation from the furthest point from the underfloor access.

**Note:** As access and workspace can be restricted 2 people may be required for installation.

### INSTALLING OPTIMO USING STRAPS



**STEP 1**  
Fix the Optimo straps to the timber joists every 500mm swivelling them so they run parallel to the joist to leave access to the cavity free to install the insulation. Either a hammer and nails or drill and self-tapping screws can be used.



**STEP 2**  
Friction fit Optimo batts tightly between the joists and press in place to ensure there are no gaps between the insulation, underside of floor and joists, or abutting edges (ends) of insulation.

**Note:** 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.



**STEP 3**  
Swivel the Optimo strap 90° so the strap extends into the floor cavity between the joists and bend the strap upwards to support the insulation then tighten the fixing of the strap.

**Note:** Take care not to block ventilation openings. Do not leave any gaps between batts.

### INSTALLING OPTIMO USING OPTIMO STAYFAST™



**STEP 1**  
Friction fit Optimo batts tightly between the joists, as per instructions above in **Installing Optimo using straps - Step 2**.



**STEP 2**  
Remove adhesive backing from Optimo StayFast™ bracket.



**STEP 3**  
Position Optimo StayFast™ bracket on the side of joist, aligning the bottom of the bracket with the bottom of the joist as shown. Apply pressure to adhere.



**STEP 4**  
Space StayFast™ brackets 300mm in from each end of the Optimo batt which gives 2 brackets per side per batt.

# Performance you can trust

Bradford Optimo is a proven performer and has been installed in thousands of homes across Australia. It is manufactured under ISO 9002 Quality Systems and complies with AS/NZS4859.1 'Materials for the Thermal Insulation of Buildings'. This ensures it will provide the level of performance you deserve.



Established over 80 years ago, CSR Bradford is Australia's most experienced insulation company. Proudly made in Australia, our experience, combined with world class manufacturing technology, is your guarantee of quality and performance.

## Breathe easy

CSR Bradford is the only approved insulation partner of the National Asthma Council Australia and Asthma Foundation New Zealand Sensitive Choice® program. Bradford Optimo is suitable for use in the homes of asthma and allergy sufferers.



## The Bradford Optimo range

Designed to suit most joist spacings. R2.5 is recommended for colder climates.

### OPTIMO UNDERFLOOR

R-VALUE	THICKNESS (mm)	SIZE (mm)	PIECES PER PACK	m <sup>2</sup> PER PACK	COVERAGE m <sup>2</sup>	PRODUCT CODE
R2.1	75	1160 x 415	8	3.9	4.3	122432
R2.1	75	1160 x 565	8	5.2	5.7	122433
R2.5	90	1160 x 415	8	3.9	4.3	114650
R2.5	90	1160 x 565	8	5.2	5.7	114692

### OPTIMO STRAPS



PIECES PER BOX	COVERAGE PER BOX (m <sup>2</sup> )		PRODUCT CODE
250	1160 x 415	53	95295
	1160 x 565	75	

### OPTIMO STAYFAST™



PIECES PER BOX	COVERAGE PER BOX (m <sup>2</sup> )		PRODUCT CODE
250	1160 x 415	33	153301
	1160 x 565	46	

For further information call **1300 850 305** or visit [csrbradford.com.au](http://csrbradford.com.au)



CSR Bradford Locked Bag 1345 North Ryde BC NSW 1670  
[csrbradford.com.au](http://csrbradford.com.au)



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