

# The great Aussie shed deserves great Australian insulation

**FULLY  
COMPLIANT  
TO THE BCA**

- Extra heavy duty
- Commercial grade
- Australian made
- 15 year warranty

# Why choose Bradford Polyair Unicell?



**Bradford Polyair Unicell provides an extra heavy duty sarking and high grade insulation all in the one product**

- Extra heavy duty, commercial grade insulation
- Reflects up to 95% of the sun's radiant heat
- Creates a clean, low maintenance internal finish
- Improved internal ambient light
- Provides BCA compliance and peace of mind
- Rated for use in bushfire BAL regions
- Backed by a 15 year manufacturer warranty





# Is your shed classified for fire compliance under the BCA?

Don't be misled by the insulation suppliers claiming sheds are not classified for compliance under the Building Code of Australia (BCA). Independent research commissioned by CSR has revealed that the following sheds are required to be compliant to the BCA:

SHED USE	BCA CLASSIFICATION	RELEVANT BCA CLAUSE FOR FIRE HAZARD PROPERTIES
Storage/warehousing shed	7b	Clause C1.10 of BCA Volume 1 Provides fire hazard regulations for reflective insulation materials used in class 2 to 9 buildings
Industrial shed	7b	
Mechanical work shed	8	
Live stock shed	7b	
Large farm shed	7b or 8	
Accommodation shed	3	
Commercial office shed	5	
Games room shed	1a	Clause 3.7.1.9 (a) of BCA Volume 2 Provides fire hazard regulations for reflective insulation materials used in class 1a and 10a buildings
Granny flat shed	1a	
Home business/office shed	1a	

Garden sheds are classified as a class 10a building but do not need to meet any BCA fire hazard regulations.

**From the suburban backyard workshop to the rural outbuilding, the great Australian shed plays a vital role in our day-to-day lives. So when it comes to protecting your valuable contents, you will need the right insulation for the job.**

## What valuables will be stored in your shed?

Whether your shed is used for storing a car, boat or motorbike, machinery, furniture or farming equipment you need to take adequate measures to protect these valuables from the sun's radiant heat.

## Have you considered potential future uses for your shed?

At some point in your shed's life-cycle, you might consider using it as a hobby room, workshop, home office or games room – in which case you'll need quality insulation to ensure your shed is comfortable.

## Bradford Polyair Unicell – your best choice in shed insulation

Bradford Polyair Unicell is an extra heavy duty, high grade insulation specifically designed for sheds. This commercial grade product is Australian made, fully compliant and provides a high performing radiant heat barrier and moisture barrier in one product.

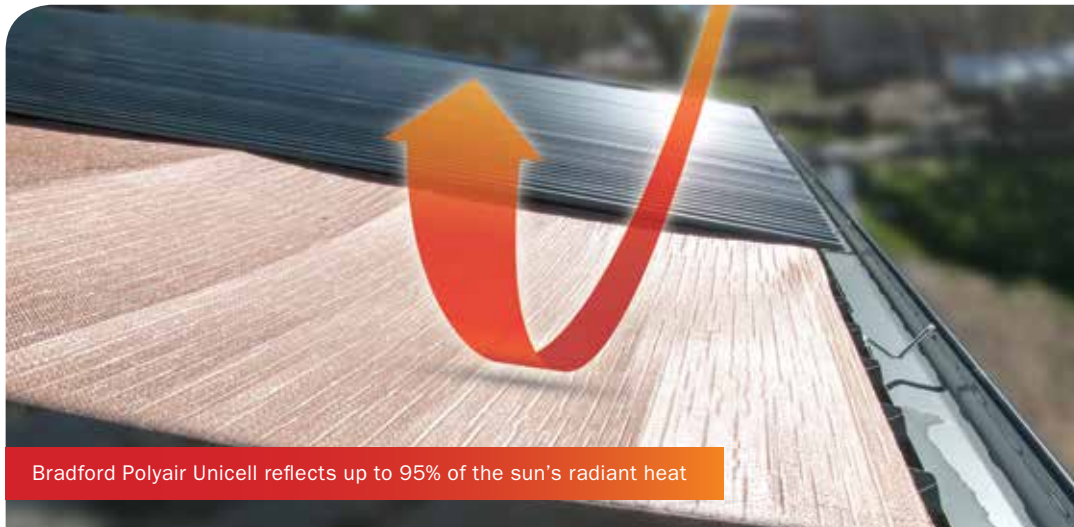
Bradford Polyair Unicell complies to all relevant Australian standards and provides the protection, security and peace of mind you need.

Remember, it's important to consider installing insulation as part of your build. Trying to fit insulation into a shed after it's built will be very complex and costly.



Choose Bradford Polyair Unicell for a quality result for your Aussie shed

# How Bradford Polyair Unicell works




The special antiglare coating significantly reduces the heat gain inside a shed by reflecting up to 95% of radiant heat flow. Bradford Polyair Unicell incorporates a 4mm thick internal cell structure that provides an engineered air cavity within the product. This cell structure reduces heat transfer from the antiglare outer foil surface to the inner silver foil surface.

## THE TESTING RESULTS FOR AUSTRALIAN STANDARDS COMPLIANCE

PROPERTY	REFERENCE	RESULT
Duty	Table 1 – AS/NZS 4200.1:1994	Extra heavy duty
Vapour barrier	ASTM E96	Medium
Emittance	AS/NZS 4201.5:1994/ASTM E408	Double-sided reflective
Material thermal resistance	ASTM C518	0.1m <sup>2</sup> K/W
Water barrier	AS/NZS 4201.4:1994	High
Absorbency	AS/NZS 4201.6:1994	Unclassified
Shrinkage	AS/NZS 4201.3:1994	<0.5%
Resistance to dry de-lamination	AS/NZS 4201.1:1994	Pass
Resistance to wet de-lamination	AS/NZS 4201.2:1994	Pass
Surface corrosion	AS/NZS 4859.1:2002	Pass
Flammability index	AS 1530.2	Low (≤5)
Early fire hazard indices	AS/NZS 1530.3	
Ignitability	AS/NZS 1530.3	0
Spread of flame	AS/NZS 1530.3	0
Heat evolved	AS/NZS 1530.3	0
Smoke developed	AS/NZS 1530.3	2


- Only 4mm thick with engineered crimped edges for neat overlaps
- Up to 54m<sup>2</sup> per roll; reduces handling, storage and transport costs
- Available in 1,350mm and 1,500mm widths
- A self adhesive strip to the edge overlap is available as an option to improve the weather seal.
- Safe to handle and easily cut to size

### INSULATION COMPLIANCE



- ✓ AS/NZS 4859.1
- ✓ AS/NZS 4200.1

### BCA FIRE COMPLIANCE



- ✓ AS 1530.2
- ✓ AS 1530.3

### BUSHFIRE BAL COMPLIANCE



- ✓ AS 3959
- ✓ AS 1530.2

### ISO 9001:2008 – QUALITY




Bradford Polyair Unicell is manufactured under the strict quality management system of ISO 9001:2008

### ISO 14001:2004 – ENVIRONMENT



The manufacturing process of Bradford Polyair Unicell is certified to ISO 14001:2004 to ensure minimum impact on the environment.

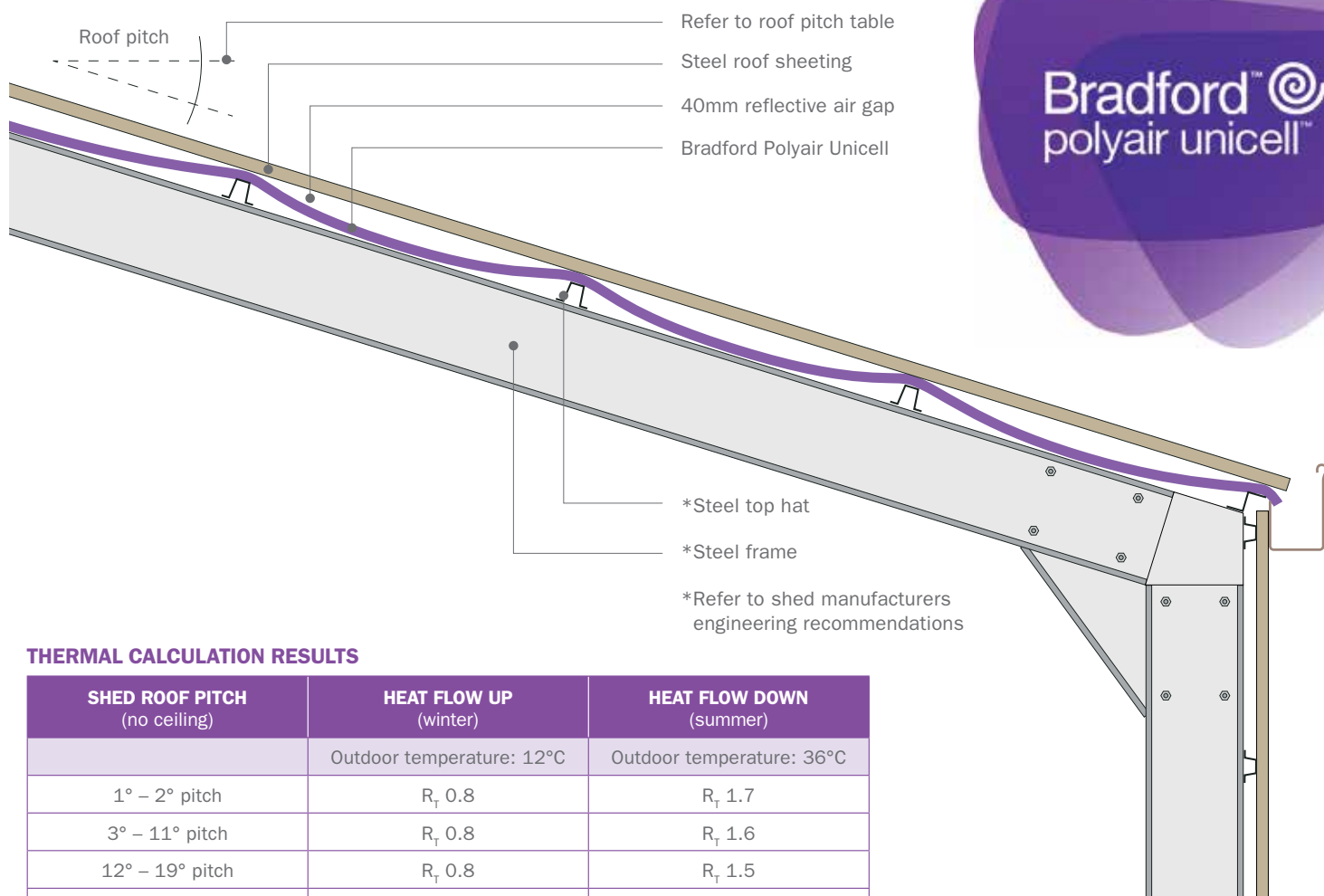
### OHSAS 18001 – HEALTH & SAFETY



Bradford Polyair Unicell is manufactured in Australia under a strict workplace health and safety management system certified to OHSAS 18001.

# Thermal performance

AS/NZS 4859.1:2002/amdt 1. Total R-Value performance for Bradford Polyair Unicell.



## THERMAL CALCULATION RESULTS

SHED ROOF PITCH (no ceiling)	HEAT FLOW UP (winter)	HEAT FLOW DOWN (summer)
	Outdoor temperature: 12°C	Outdoor temperature: 36°C
1° – 2° pitch	R <sub>T</sub> 0.8	R <sub>T</sub> 1.7
3° – 11° pitch	R <sub>T</sub> 0.8	R <sub>T</sub> 1.6
12° – 19° pitch	R <sub>T</sub> 0.8	R <sub>T</sub> 1.5
20° – 25° pitch	R <sub>T</sub> 0.8	R <sub>T</sub> 1.4

Thermal calculations are based on Australian parameters and in accordance with AS/NZS 4859.1:2002/Amdt.1. The contribution of this product towards the Total R-Value depends on installation and environmental conditions. The assembly's Total R-Value will be reduced in the event of the accumulation of dust on upward facing surfaces and in those cavities that are ventilated. For upward facing surfaces of horizontal or sloping reflective insulation in non-vented cavities where no special precautions for prevention of dust ingress have been included, the Total R-Value is calculated based on an emittance for the case of slight dust cover in accordance with AS/NZS4859.1 Paragraph K3.2(a)(ii). For calculation purposes, the air gaps are assumed as still parallel air gaps unless otherwise stated and the membrane continuous.

**Don't put your shed, contents and home at risk with inferior insulation products. Choose Bradford Polyair Unicell for your shed.** Find out more about Bradford Polyair insulation, at [bradfordshedinsulation.com.au](http://bradfordshedinsulation.com.au), or call us on **1300 850 305**.



# Bradford Polyair Unicell range

## REFLECTIVE INSULATION (RATED AS REFLECTIVE INSULATION AND SARKING)

AS/NZS 4859.1:2002/amdt 1. Section 9 – Group 1 type reflective insulation product.

Bradford™ polyair unicell™	THICKNESS (mm)	ROLL SIZE (m x mm)	m <sup>2</sup> PER ROLL (m <sup>2</sup> )	ROLL DIAMETER (mm)	ROLL WEIGHT (kg)	PRODUCT CODE
Unicell	4	40 x 1350	54	430	21	127418
Unicell – 1.5m wide	4	25 x 1500	37.5	370	15	130301
Unicell – Self adhesive	4	40 x 1350	54	430	21	130304

ACCESSORIES	WIDTH (mm)	LENGTH (m)	GRADE	REFERENCE	PRODUCT CODE
Reinforced aluminium foil tape	48	50	Premium	PPC 493	17366
	72	50	Premium	PPC 493	17369

## Australia's leading insulation company backed by an Australian icon

CSR Bradford has been leading the Australian insulation industry for over 80 years and now extends its comprehensive range of products with Bradford Polyair thermo reflective insulation.

CSR Bradford is backed by CSR, which is the name behind some of the market's most trusted and recognised building material brands such as Gyprock™ plasterboard, PGH™ bricks and pavers, Monier™ roof tiles and Viridian™ glass to name a few.

Our people are passionate about providing you with a customer service experience second to none. Their industry knowledge and technical expertise is world class, allowing them to support our customers with expert advice and the latest research data to stay at the forefront of the building industry.

So whether it's your home, office, factory or shed, CSR Bradford is the smart choice for insulation.

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



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