

AIS Ultra Cav

Reflective Cavity Wall Insulation

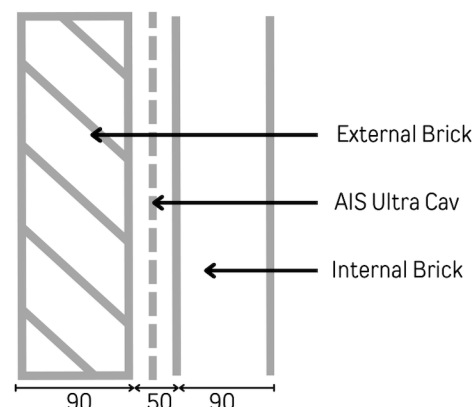


Overview:

Unlock the ultimate protection against Australia's scorching heat and biting cold with **AIS Ultra Cav** Reflective Cavity Wall Insulation.

Crafted to perfection in **Australia**, for West Australian cavity brick homes, this innovation harnesses the power of reflective technology, deflecting up to 97% of radiant heat.

Elevate your home towards a **NatHERS 7 Star** efficiency with **AIS Ultra Cav** Reflective foil insulation.



Thermal Performance:

When considered for use as part of a NatHERS Energy Assessment, the **AIS Ultra Cav** should be nominated as a *Reflective Insulation (with air gap)*, using the emissivity and material R-value noted in the product properties table.

Double Brick Total R-Value

Winter	Summer
Rt1.8m²K/W	Rt1.8m²K/W



Fire Performance:

Flammability Index ≤ 5

Tested in accordance with AS 1530.2-1993. Complies with the requirements for use in BAL-Low to BAL-40 as per AS 3959-2018 *Construction of Buildings in Bushfire-prone Areas*.



NCC Compliant:

AIS Ultra Cav complies with AS/NZS 4859.1:2018 and AS/NZS 4200.1:2017, therefore meets the requirements of the NCC for sarking-type materials.



Made in Australia:

AIS Ultra Cav is proudly manufactured in Australia under strict Quality Control & Management systems.



Material Properties:

Criteria	Test Reference	Result	
Flammability Index	AS 1530.2-1993	5	
Nominal Thickness	-	4mm	
Material R-value (at 23°C)	ASTM C518-2017	R0.12 m²K/W	
Emittance Classification	AS/NZS 4201.5-1994	Silver Side	Anti-glare Side
		IR Reflective (e 0.05)	IR Semi-Reflective (e 0.08)
Emittance Category	AS/NZS 4200.1:2017	RS	
Resistance to Dry Delamination	AS/NZS 4201.1-1994	Pass	
Resistance to Wet Delamination	AS/NZS 4201.2-1994	Pass	
Shrinkage	AS/NZS 4201.3-1994	<0.5%	
Edge Tear Resistance	AS/NZS 4200.1-2017 - clause 5.3.2.3	Extra Heavy	
Burst Strength	AS/NZS 4200.1-2017 - clause 5.3.2.4	Light Wall	
Water Vapour Control	ASTM E96/E96M - 2022	Class 2	
Water Control	AS/NZS 4201.4:1994	Water Barrier	
Surface Corrosion	AS/NZS 4859.1:2018 Appendix E	Pass	
Electrical Conductivity	AS/NZS 4200.1:2017 - clause 5.3.1.2	Electrically Conductive	

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Application Overview:

The installation of **AIS Ultra Cav** should be in accordance with the applicable clauses from Australian Standard AS 3999 and AS/NZS 4200.2 unless otherwise specified.

Installation Process:

- Build one leaf of masonry to a sufficient height for the installation of one roll width of **AIS Ultra Cav**,
- Roll out horizontally with the anti-glare surface facing the installer.
- Position spacers against the masonry to achieve the optimum thermal performance.
- The cavity air gap should be maintained as per the system design, or not less than 20 mm.
- All joints must be lapped not less than 50 mm jointed and taped.
- Ensure that upper sheets lap over lower sheets to shed water to the outside face of the **AIS Ultra Cav**.
- Neatly cut the membrane to allow wall ties to penetrate through, ensuring proper support.
- Support the membrane on brick wall ties and use spacers to maintain the calculated air gap.

Handling & Storage:


Store this product undercover in a clean, dry place in its protective packaging out of contact with alkaline products, cement and mortar. Stand rolls on end during storage.

Dimensions:

 30 m²

 4 mm nominal

 1350 mm (wide)

 22.25 m (long)

 6 kg

