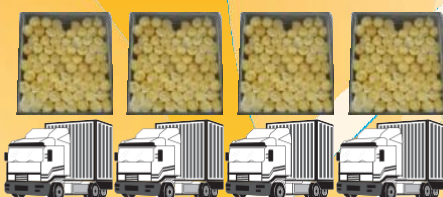
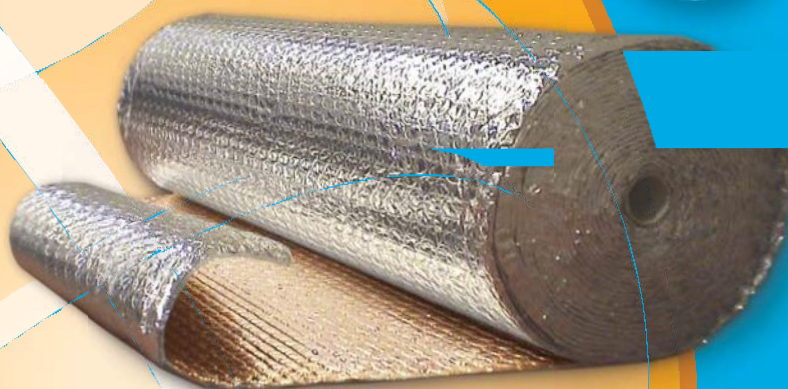


polynumTM big



OR



Specification

Product	PolynumTM Big
Thickness	8mm
	30m² Roll
Roll Dimensions	1.35m x 22.25m
Roll Diameter	500mm
Roll Weight	10kg

Technical Specification

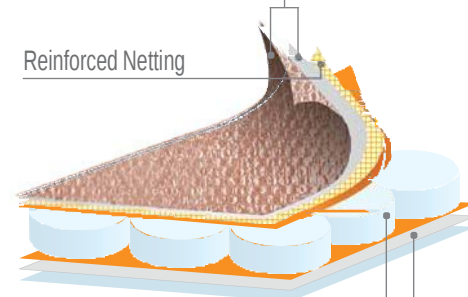
Properties	Results	Test Method
Basic Characteristics		
Side 1; Reflective Performance (Copper)	95% (E=0.05)	ASTM-E408
Side 2; Reflective Performance (Silver)	97% (E=0.03)	ASTM-E408
Material Thermal Resistance	0.17m ² K/W	ASTM C 518
Vapour Transmission	0.018 perms	ASTM E96 method A
Product Stability		
Dry Delamination	PASS	AS/NZS 4201.1 Method 1
Wet Delamination	PASS	AS/NZS 4859.1 Appendix 1
Surface Corrosion	PASS	AS/NZS 4859.1 Appendix 1
Tensile Strength	9.7kg / cm ²	AS 1301.488s-1991
Fungal Growth	Nil	ASTM C 1338
Thermal Stability	< 0.30	ASTM D 1204
Product Safety		
Fire - BCA Classification	Group 1	AS/NZS 3837:1998
Fire - Flammability Index	< 5	AS/NZS 1530.2
Fire - Ignitability Index	0	AS/NZS 1530.3
Fire - Spread of Flame Index	0	AS/NZS 1530.3
Fire - Heat Evolved Index	0	AS/NZS 1530.3
Fire - Smoke Developed Index	0-1	AS/NZS 1530.3
Thermal Performance		
R-Value Calculations	James Fricker	AS/NZS 4859.1/Amdt 1 2006

- Special high performance copper color antiglare with an optional reinforcing net for extra strength
- Advanced high R-Value performance reflecting up to 97% of radiant heat flow
- Significantly lowers the use of energy in buildings. Help to achieve 6 star rating in residential buildings
- Delivers easy, cost effective BCA Section J solutions for roofs, ceilings, walls and floors
- Safe to handle, quick and easy installation, competitively priced, 15 year commercial warranty
- Water proof, not affected by moisture, no fungi or bacterial growth and fibre free
- Glue free manufacturing process, avoiding ozone depleting substances,
- certified by Ecospecifier
- Exceptional fire safety qualities including safe fire retardant additives and non dripping technology
- Exceeds Building Code of Australia certification benchmarks and mandatory Australian Standards

Structure of insulation

High Pure Low-E Copper Color Aluminium Foil Facing

Reinforced Netting



Thermally Insulating Big Air-Bubble Layer High Purity Low-E Aluminium Facing

Fire-Retardant formulated

Polynum products are designed and manufactured under control of a Quality Management System, which meets the requirements of ISO 9001 : 2008 as certified by:



The information contained in this Technical Data Sheet is the result of extensive laboratory testing performed on our products during standard production. The values given here are typical average values and are believed to be correct to the best of our knowledge, but users should not rely on them absolutely and must confirm their validity and suitability in each particular case. **POLYNUM C.L.P. INSULATION LTD.** makes no guarantee of result.



Product Description

Polynum™ incorporates a special 18 microns Aluminium foil with **Big**

Low-E copper color antiglare on a reinforcing net for extra strength. It combines a unique **8mm** layered inner core of fire retardant polyethylene bubble film with a second low-E reflective aluminium foil layer.

The external copper antiglare surface reflects 95% of radiant heat, the internal silver surface reflects 97% and the big **8mm** bubbles core prevents heat flow transferring from one surface to the next. **Polynum™** high thermal performance against heat flow provides an excellent energy efficient solution that's easy to install and cost effective.

Polynum™ comply with mandatory Australian Standards and Building Code of Australia certification benchmarks. **Polynum™** products have been certified by Ecospecifier and are engineered to comply with the ABGR and Green Star Rating Scheme.



Thermal Performance

Outdoor temperature	12 °C	36 °C
Roof Systems	Heat Flow UP	Heat Flow DOWN
Metal Roof (commercial roof) 1 to 5 pitch, naturally ventilated, flat ceiling	R _T 1.36	R _T 4.30
Metal Roof (combo with R2.5 ceiling batts) 22 pitch, naturally ventilated, flat ceiling	R _T 3.93	R _T 5.16
Metal Roof 22 pitch, naturally ventilated, flat ceiling	R _T 1.25	R _T 2.70
Tiled Roof 22 pitch, naturally ventilated, flat ceiling	R _T 1.08	R _T 2.23
Metal Roof (Warehouse/Shed) 1 to 5 pitch, no ceiling	R _T 0.90	R _T 1.9-2.6
Concrete Roof with Ceiling Wall Systems	Heat Flow OUT	Heat Flow IN
Brick Veneer Wall With internal lining	R _T 2.17	R _T 1.90
Brick Cavity Wall With internal lining (cavity application)	R _T 2.42	R _T 2.16
Floor Systems	Heat Flow DOWN	Heat Flow UP
Framed Floor With subfloor perimeter enclosed	R _T 3.65	R _T 2.10

The contribution of **Polynum™** products to a Total R-Value depends on the installation and environmental conditions. The values shown are Total R-Values for the building system, calculated using Reflect 3 computer software validated by James M Fricker M.IEAust M.AIRAH CPEng and are based on installed product service in accordance with AS/NZS 4859.1:2002/Amdt 1 2006. Refer to the **Polynum™** products tech manual for further details. The information in this brochure is believed to be true at the time of publication. **Polynum™** C.L.P reserves the right to change specifications without notice, and have no obligation or liability for the persons misrepresenting or misusing this information in any manner whatsoever.



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A true STAR!