



THERMA

WRAP

4 MM



TECHNICAL DATA SHEET & TEST REPORT SUMMARY

General Description

THERMAWRAP 4 is manufactured from a closed cell foam core, with a low emissivity antiglare backing and bright aluminium foil surface.

Application

THERMAWRAP 4 is suitable for a variety of residential, rural and light commercial applications. It can be used successfully in the following applications:

- Insulation of metal roofs
- Insulation of tile roofs
- Insulation of external walls behind lightweight claddings

Product Specification

Code	Th.	W	L	M ²	Φ	Wt.	R-Value
Therm4	4mm	1.5m	22.25m	33	430mm	10kg	0.13

Common Thermal Value Applications – In Accordance with AS/NZS 4859.1:2002 (Amdt 1:2006)

Installed Application	Summer RT Value	Winter RT Value
Pitched Metal Roof 22° with Flat Plasterboard Attic Ceiling	2.44	1.55
Pitched Metal Roof 1°- 5° with no Ceiling	1.69	0.83
Metal Cladding, 25mm Batten, 90mm Frame and 10mm Plaster Lining	1.63	1.90



THERMA[®] WRAP⁴MM

Australian Standards Compliance and NCC

The National Construction Code of Australia requires all insulation products to meet strict Australian Standards. All Polyon insulation products meet these standards and offer the following properties.

Testing	Standard Clause	Standard	Unit	Acceptance Limits	ThermaWrap 4 mm
Resistance to Dry Delamination	5 (a)	AS/NZS 4201.1	-	Pass	Pass
Resistance to Wet Delamination	5 (b)	AS/NZS 4201.2	-	Pass	Pass
Shrinkage	5 (c)	AS/NZS 4201.3	%	≤ 0.5	0.20
Bursting Strength	6.14	AS2001.2.19	N	NA	554
Resistance to Water Penetration	6.40	AS/NZS 4201.4	-	High	High (Pass)
Flammability Index	6.50	AS 1530.2	Index	1 ≤ 5	1
Surface Water Absorbency	6.60	AS/NZS 4201.6	g/m ²	Unclassified	77.6 (Unclassified)
Flammability Index	-	AS/NZS 1530.3	Index	a) Ignitability index (0-20)	a) 0
				b) Spread of Flame Index (0-10)	b) 0
				c) Heat Evolved Index (0-10)	c) 0
				d) Smoke Developed Index (0-10)	d) 1
Steady State Thermal Transmission Properties by mean of Heat Flow Apparatus (R-Value)	-	ASTMC518-2010	m ² K/W	-	0.13
Folding Endurance					
MD	4 (d)	AS 1301.423	Index	-	2.20 (Pass)
CD					1.80 (Pass)
Tensile Strength					
MD	6.12	AS 1301.448	KN/m	-	10.00
CD					8.30
Edge tear Resistance					
MD	6.13	AS 4200.1.1994	N	-	473
CD					380
Resistance to Water Vapour Transmission	6.20	ASTM E96 Procedure B (water method)	µg/NS	-	0.0116
Emissivity					
Silver face	6.30	AS/NZS 4201.5	Index	-	0.03
Blue antiglare face					0.07

Storage & Handling Information

THERMAWRAP 4 should be used for the purpose for which it is intended ie. as a Reflective Insulation and Vapour Barrier. After delivery it should be stored in a dry place, free from rain or the elements. The material is not designed to be left exposed to direct sunlight or the weather for an extended period of time. During the construction process, whilst quite durable the material should be covered by roof or wall cladding as soon as possible. Alkaline products such as wet concrete may cause damage to the material and contact with these products and this insulation, should be avoided.

Health & Safety

THERMAWRAP 4 is a safe and easy to use product provided you adhere to some basic safety considerations.

- Wear suitable PPE to protect you from reflected UV radiation and the sun. This may include sunglasses or tinted lenses.
- As a product with both an Aluminium Surface and Backing, this product may conduct electricity. As such care should be taken to ensure the material and any associated fixings that may conduct electricity do not come into contact with electrical wiring during installation or use.

