



Ametalin

Performance insulation for a greener world

ThermalLiner™ HandyPack

Product Code: TB4-9

Roof and wall shed insulation

For use in DIY applications in your home and shed



ThermalLiner™ HandyPack is an Extra Heavy Duty three-in-one reflective insulation, Thermal Break and Class 1 Vapour Barrier. Designed to manage heat gain and heat loss, ThermalLiner™ HandyPack offers superior thermal performance to conventional insulation, and reduces thermal bridging and conductivity between building elements providing year round thermal comfort in your home or shed. Supplied as a smaller roll size, it is ideal and easy to handle for small DIY applications such as garages, tilt or panel lift garage doors, pet houses and more.

- > Extra Heavy Duty
- > **Flexible R0.11 reflective foam insulation liner**
- > **Ideal size for DIY home sheds and home improvements**
- > Radiant barrier for RV's & camping accessories
- > Fibre-free and non-allergic

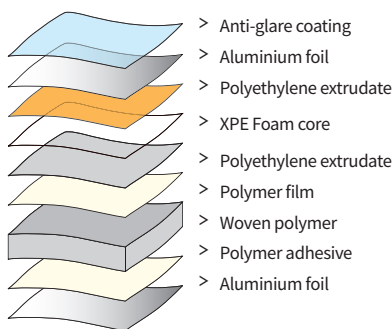
Application

Install ThermalLiner™ HandyPack facing an air space on either side for increased reflective R-value. ThermalLiner™ HandyPack reduces the need for additional wall insulation and increases overall thermal performance of the building system.

Construction

ThermalLiner™ HandyPack consists of a 4 mm core of chemically cross-linked, closed-cell high-density XPE foam laminated with strong polymer weave and aluminium foil, one side with an innovative low-glare, high IR reflection ink technology for ease of installation.

Ametalin utilises Advanced Laminating Technology; the polymer adhesive remains tacky indefinitely and provides superior resistance to heat, fire and delamination.



Declared Total System R-Values

Shed Roof

5° pitched with no ceiling

Winter **R_t 0.82**

Summer **R_t 1.86**

Shed Wall

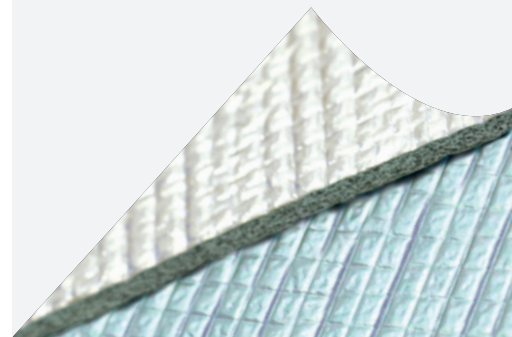
No lining

Winter **R_t 0.95**

Summer **R_t 0.91**

R-values apply to typical conditions for mainland Australian capital cities and have been calculated by an independent consulting engineer in accordance with AS/NZS 4859.1:2018. For detailed design of building systems, seek advice based on actual site conditions from a qualified licensed engineer.

The contribution of this product to the total system R-value depends on installation and environmental conditions.



Material Properties and Classifications

ThermalLiner™ HandyPack classifications in accordance with AS 4200.1:2017

Criteria	Reference	Result	Requirement
Flammability Index	AS 1530.2-1993	Low ≤ 5	High (> 5) / Low (≤ 5)
Material Thermal Resistance	ASTM C518	0.11 m ² .K/W	Value
Tensile Strength Machine Direction	AS 1301.448s-91	15.9 kN/m	Min 13.0 kN/m
Tensile Strength Lateral Direction	AS 1301.448s-91	14.6 kN/m	Min 10.5 kN/m
Edge Tear Machine Direction	TAPPI T 470 om-89	666 N	Min 90 N
Edge Tear Lateral Direction	TAPPI T 470 om-89	606 N	Min 90 N
Vapour Control	ASTM E96	Class 1 Vapour Barrier	Class 1 to 4
Vapour Permeance	ASTM E96	0.001 µg/N.s	Value
Water Control	AS/NZS 4201.4:1994	Water Barrier	Classification
Air Control	AS/NZS 4200.1:2017	Air Barrier	Classification
Resistance to Dry Delamination	AS/NZS 4201.1:1994	Pass	Pass
Resistance to Wet Delamination	AS/NZS 4201.2:1994	Pass	Pass
Shrinkage (Repeated wetting & drying)	AS/NZS 4201.3:1994	0.0%	< 0.5%
Electrical Conductivity	AS/NZS 4200.1:2017	Electrically Conductive	Classification
Emittance Value	AS/NZS 4201.5:1994	Anti-glare side: 0.05, Foil side: 0.03	Value
Emittance Classification	AS/NZS 4200.1:2017	IR Reflective, IR Reflective	Classification
Emittance Category	AS/NZS 4200.1:2017	RR	Category
Emittance Category	AS/NZS 4200.1:2017	NN	Category

CAUTION: ELECTRICALLY CONDUCTIVE MEMBRANES CAN CREATE A HAZARD WHEN CONTACTING LIVE CONDUCTORS

NCC Compliant

ThermalLiner™ Handy Pack complies with AS/NZS 4859.1:2018 and AS 4200.1:2017, and therefore meets all of the requirements of the National Construction Code of Australia for insulation, pliable building membranes and sarking-type materials.

Fire Performance

Combustibility

Not deemed combustible

Tested in accordance with AS 1530.1-1994 *Methods for fire tests on building materials, components and structures Part 1: Combustibility test for materials*. Could we add test report reference.

Flammability Index

Low (≤5)

Tested in accordance with AS 1530.2-1993 - *Methods for fire tests on building materials, components and structures Part 2: Test for flammability of materials*.

Bushfire Attack Levels

Complies with AS3959-2009 *Construction of buildings in bushfire-prone areas* for use in wall and roof systems BAL – LOW to BAL – FZ.

Handling and Storage

Store this product in a clean dry place in the pack provided.

Dimensions

1500 mm x 30 m (45 m²)

Specification Notes

When specifying, state the following:

Product Name: VapourTech™ Non-Combustible

The pliable building membrane to be installed shall be Ametalin VapourTech™ Non-Combustible building membrane and shall be installed in accordance with AS 4200.2: 2017 *Pliable Building Membranes and Underlays, Part 2: Installation*.

Combustibility: Not deemed combustible

Flammability Classification: Low (≤5)

Fire Hazard Assessment: Group 1

Vapour Permeance: 1.5767 ug/N.s

Water Vapour Transmission: 191.32 g/m²•24hr

Vapour Resistance: 0.634 MN•s/g

Vapour Control Classification: Class 4 Vapour Permeable

Air Control Classification: Air Barrier

Water Control Classification: Water Barrier

Emittance Classification: IR Non-Reflective, IR Non-reflective

Duty Classification: Extra Heavy

Complete details available on our website:

<https://www.ametalin.com/tools/how-to-specify/>

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Durability may be affected by environmental factors, including chemical and airborne pollutants, if used in industrial or farm buildings.

Australian designed for Australian conditions. Ametalin 9-11 Playford Crescent, Salisbury North S 5108 T: +61 8 8285 6955 F: +61 8 8285 5911 E: info@ametalin.com

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