

ThermalFlex™ 4

Roof and Wall Insulation

Commercial, residential and shed reflective insulation

- Insulation, Vapour Barrier & Radiant Barrier
- Extra Heavy Duty for strength & durability
- Low flammability to suit bushfire-prone areas
- R0.11 flexible insulation to help prevent condensation
- Antiglare coating for installation safety



Product Description

ThermalFlex™ 4 is a high performance reflective insulation, vapour barrier and radiant barrier.

ThermalFlex™ 4 consists of cross linked, closed cell foam core for improved thermal performance. On each side of this foam core there are layers of reflective foil, one side with an antiglare and the inside reflective face which provides a high quality finish, particularly for shed applications. ThermalFlex™ 4 is also a fibre free insulation and non-allergenic.

Application

ThermalFlex™ 4 is rated Extra Heavy Duty and is strong and durable, making it perfectly suited for use in roof, wall and floor applications. ThermalFlex™ 4 is ideal for use in residential homes, commercial buildings and domestic sheds, and will improve the energy efficiency and comfort of these buildings. ThermalFlex™ 4 also assists in reducing thermal bridging and minimising condensation along with providing high thermal performance as a radiant barrier.

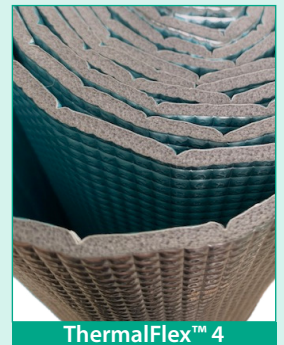
ThermalFlex™ 4 is easy to install and is manufactured at 1500 mm wide for maximising coverage and faster installation.

Key Benefits

- ▶ Insulation, vapour barrier and radiant barrier, reflecting up to 95% of radiant heat.
- ▶ Extra Heavy Duty for strength, durability and maximum tear resistance.
- ▶ Reduces thermal bridging while minimising condensation in roof spaces as a water barrier.
- ▶ Achieves low flammability results when tested to AS/NZS 1530.2.
- ▶ Suitable for bushfire-prone areas and use in construction requirements with BALs of LOW – FZ.
- ▶ Antiglare coating on the outer layer for installation safety and high quality foil finish on the inside.

Roll Sizes

- ▶ 1500 mm x 20 m (30m²) - Product Code TF4-30.
- ▶ 1500 mm x 30 m (45m²) - Product Code TF4-45.



ThermalFlex™ 4



Summary of Testing Results

Flammability Index	AS/NZS 1530.2	≤5 (Low)
Nominal Thickness		4.0 mm
Material Thermal Resistance	AS/NZS 4859.1	R0.11 m²K/W
Vapour Classification	ASTM E96	Class 2 Vapour Barrier
Vapour Permeability	ASTM E96	<0.142 µg/N.s
Water Control	AS/NZS 4201.4	Water Barrier
Duty	AS/NZS 4200.1	Extra Heavy Duty
Tensile Strength Machine Direction	AS 1301.448s	≥ 13.0 kN/m
Tensile Strength Lateral Direction	AS 1301.448s	≥ 10.5 kN/m
Edge Tear Machine Direction	TAPPI T470	≥ 90
Edge Tear Lateral Direction	TAPPI T470	≥ 90
Resistance to Dry Delamination	AS/NZS 4201.1	Pass
Resistance to Wet Delamination	AS/NZS 4201.2	Pass
Shrinkage	AS/NZS 4201.3	≤0.5%
Emittance Value	AS/NZS 4201.5	Outward Facing: >0.05 to ≤0.15 Inward Facing: ≤0.05
Emittance Classification	AS/NZS 4200.1	Outward Facing: IR Semi-Reflective Inward Facing: IR Reflective
Electrical Conductivity		Electrically Conductive

National Construction Code (NCC) Compliance

ThermalFlex™ 4 complies with the National Construction Code (NCC) for pliable building membranes and sarking type materials and satisfies the following requirements:

Thermal Properties:

- ▶ Complies with AS/NZS 4859.1, and meets the requirements of NCC 2022 Volume 1 J4D3(1) and NCC 2022 Volume 2 ABCB Housing provisions 13.2.2(1).

Fire Hazard Properties and Bushfire Attack Levels (BAL):

- ▶ Complies with AS 3959 for Construction of Buildings in Bushfire-Prone Areas, and is suitable for use in all BALs including regions with a Bushfire Attack Level (BAL) LOW – FZ. ThermalFlex™ 4 meets these construction requirements by having a flammability index ≤5.

Material Performance Properties:

- ▶ Meets the requirements of the NCC 2022 Volume 1 F3D3 for sarking-type material through compliance with AS/NZS 4200.1.

Specification Notes

When specifying, state the following:

Product Name: Reflex Insulation® ThermalFlex™ 4

The insulation to be installed shall be Reflex Insulation® ThermalFlex™ 4 and shall be installed in accordance with AS 4200.2.

The product must have the following properties:

- ▶ Duty Classification: Extra Heavy Duty
- ▶ Material Value: R0.11
- ▶ Flammability Classification: Low (≤5)
- ▶ Vapour Barrier Classification: Class 2
- ▶ Vapour Permeability: 0.142 ug/N.s or less
- ▶ Water Control Classification: Water Barrier

Storage and Handling

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

Prior to and during installation this product must be kept dry and out of contact with alkaline products, cement and mortar.

Distributed by:



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