

ShieldFlex® HD

Wall Wrap & Roof Sarking

Commercial and residential reflective insulation

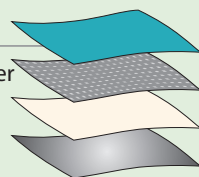
- Class 2 Vapour Barrier
- Low Flammability
- Water Barrier
- Durable Multi Layer Construction



Product Description

ShieldFlex® HD is a flexible heavy duty wall wrap and roof sarking, that is a Class 2 Vapour Barrier and highly resistant to water transfer.

Manufactured with a highly reflective aluminium foil on one side and laminated using a fire-resistant polymer adhesive to a woven polymer and UV-stabilised polymer film, ShieldFlex® HD is perfectly suited for both commercial and residential buildings for a second layer of protection against moisture, wind and dust while minimising condensation risk.



- ▶ Antiglare polymer coating
- ▶ Woven polymer fabric
- ▶ Adhesive
- ▶ Aluminium foil

Key Benefits

- ▶ Class 2 Vapour Barrier and a Water Barrier in compliance with AS/NZS 4200.1.
- ▶ 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.
- ▶ UV resistant and extremely durable.

Application

ShieldFlex® HD is designed for use in residential and commercial roofs in all Australian Climate Zones, and behind wall systems in Australian Climate Zone 1.

ShieldFlex® HD may also be used as a facing foil for bulk insulation blanket, providing the temperatures when processing the product do not exceed 80°C.



Roll Sizes

- ▶ 1350 mm x 30 m (40.5m²) - Product Code SFHD-40.
- ▶ 1350 mm x 60 m (81m²) - Product Code SFHD-81.
- ▶ 1500 mm x 30 m (45m²) - Product Code SFHD-45.
- ▶ 1500 mm x 60 m (90m²) - Product Code SFHD-90.



Summary of Testing Results

Flammability Index	AS/NZS 1530.2	≤5 (Low)
Thickness		<1.0 mm
Vapour Classification	ASTM E96	Class 2 Vapour Barrier
Vapour Permeability	ASTM E96	<0.1429 µg/N.s
Water Control	AS/NZS 4201.4	Water Barrier
Duty	AS/NZS 4200.1	Heavy Duty
Edge Tear Machine Direction	TAPPI T470	≥ 80 N
Edge Tear Lateral Direction	TAPPI T470	≥ 80 N
Tensile Strength Machine Direction	AS 1301.448s	≥ 12.5 kN/m
Tensile Strength Lateral Direction	AS 1301.448s	≥ 7.5 kN/m
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: 0.9 Inward Facing: 0.03
Emittance Classification	AS/NZS 4200.1	Outward Facing: IR Non-Reflective Inward Facing: IR Reflective
Electrical Conductivity		Electrically Conductive

National Construction Code (NCC) Compliance

ShieldFlex® HD complies with the National Construction Code (NCC) for pliable building membranes and sarking type materials and satisfies the following requirements:

Condensation Management:

- Complies with AS 4200.1 for pliable building membranes, and therefore meets the requirements of NCC 2022 Volume 1 F8D3 Condensation Management and NCC 2022 Volume 2 ABCB Housing provisions 10.8.1.

Non-Combustible Sarking-Type Material Exemption:

- ShieldFlex® HD has a Flammability Index ≤5 and does not exceed 1 mm in thickness, and therefore may be used in accordance with the non-combustible sarking-type material exemption stated in NCC 2022 Volume 1 C2D10 (6)(f) and NCC 2022 Volume 2 H3D2 (1)(f).

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. ShieldFlex® HD meets these construction requirements by having a flammability index ≤5.

Specification Notes

When specifying, state the following:

Product Name: Reflex Insulation® ShieldFlex® HD

The pliable building membrane to be installed shall be Reflex Insulation® ShieldFlex® HD and shall be installed in accordance with AS 4200.2. The product must have the following properties:

- Duty Classification: Heavy Duty or greater
- Flammability Classification: Low (≤5)
- Vapour Permeability Classification: Class 2
- Vapour Permeability: 0.1429 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:



Reflex Insulation Pty Ltd
Phone: **1300 720 185**
Email: **info@reflexinsulation.com.au**
www.reflexinsulation.com.au