

Sisalation® Metal Roof MD (433) and HD (453) Sarking

Effective water and vapour barrier under metal roofs

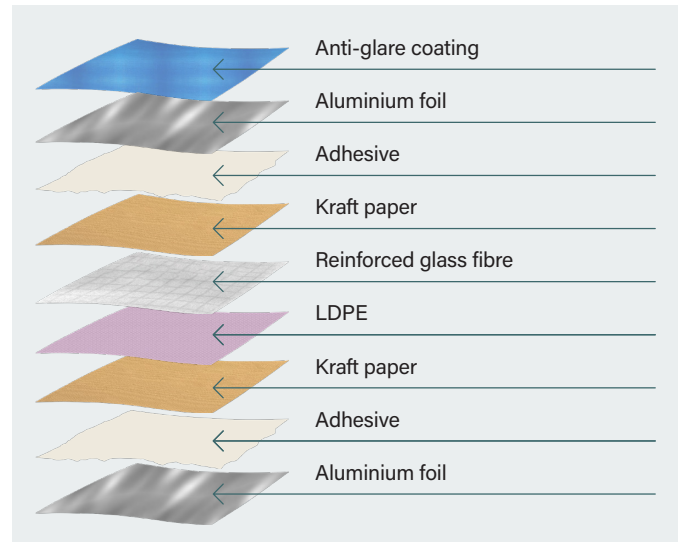
Description

Sisalation® Metal Roof MD (433) and HD (453) comprises of outer layers of aluminum foil bonded to a high density kraft paper. The laminate is reinforced with strands of yarn and bonded with LDPE extrudate. The inclusion of a coloured anti-glare coating reduces the incidence of reflected glare during installation.

Application

Sisalation® Metal Roof MD (433) and HD (453) are Class 2 Vapour barriers and Water barriers for use in residential and commercial metal roofs applications, subject to the product limitations outlined below.

Product composition



Features and benefits

Acts as a water barrier under metal roofs	→	Secondary barrier to protect roof from leakage or condensation that may form on underside of metal roof.
Provides R-value from reflective surface	→	Helps reduce energy costs for building.
Suitable for BAL Low-40 applications	→	Can be used in most bush fire prone regions.
Comprehensive product warranty	→	Peace of mind.

Product data

Product	Width mm	Length m	Area per roll m ²	Weight per roll kg	Product code
Sisalation® Metal Roof MD (433)	1350	30	40.50	6.51	4021421
	1350	60	81.00	12.43	4021390
Sisalation® Metal Roof HD (453)	1350	60	81.00	14.86	4021547

Physical properties

Property		Test method/ Standard	Test Result MD (433)	Test Result HD (453)	Unit
Duty Classification		AS 4200.1	Medium Duty	Heavy Duty	
Edge Tear	Machine	TAPPI T470	≥ 65	≥ 80	N
	Lateral		≥ 65	≥ 80	N
Tensile Strength	Machine	AS 1301.448s	≥ 9.5	≥ 12.5	kN/m
	Lateral		≥ 6.0	≥ 7.5	kN/m
Water Control		AS/NZS 4201.4	Water barrier	Water barrier	
Vapour Control		AS/NZS 4200.1	Class 2 Vapour barrier	Class 2 Vapour barrier	
Vapour Permeance		ASTM E96	< 0.1429	< 0.1429	µg/N.s
Air Control		ISO 5636-5	Air barrier (≥ 0.1)	Air barrier (≥ 0.1)	MNs/m³
Emittance	Anti-glare face	AS/NZS 4201.5	IR Non-reflective (0.35)	IR Non-reflective (0.35)	
	Silver side		IR Reflective (≤0.05)	IR Reflective (≤0.05)	
Resistance to dry delamination		AS/NZS 4201.1	PASS	PASS	
Resistance to wet delamination		AS/NZS 4201.2	PASS	PASS	
Shrinkage		AS/NZS 4201.3	≤ 0.5	≤ 0.5	%
Electrical Conductivity		AS/NZS 3100	Electrically conductive	Electrically conductive	
Nominal Thickness			< 1.0	< 1.0	mm

Fire hazard properties

Sisalation® Metal Roof MD (433) and Sisalation® Metal Roof HD (453) exhibits the following characteristics when tested in accordance with the following standards:

Property	Test method/standard	Result
Flammability Index	AS 1530.2	≤ 5 (Low)

Product limitations

- **Important: Do Not Modify This Product:** Compliance with the evidence of suitability data referenced in this document is only achieved by the product or configuration listed.
- This product does not have a Group Number in accordance with AS 5637.1 (NCC 2022 Volume 1 S7C4, NCC 2025 Volume 1 S7C4) and is not suitable as an exposed internal wall and ceiling lining where a group number is required.
- This product is not suitable for applications where the cladding manufacturer specifies a vapour permeable membrane.
- This product is a Class 2 Vapour barrier and is not suitable where a pliable building membrane or sarking-type material is required in:
- Climate zones 4–8 per NCC 2022 Volume 1 F8D3 and ABCB Housing Provisions Standard 2022 10.8.1
 - No cavity applications in climate zone 3 and all construction in climate zone 4–8 per NCC Volume 1 F8D3 & ABCB Housing Provisions 2025 10.8.1.
 - No cavity applications in climate zone 1 and all construction in climate zone 3–8 per NCC Volume 1 F8D3 & ABCB Housing Provisions 2025 10.8.1.
- This products is not designed to withstand prolonged weathering – exterior cladding should be installed within 8 weeks in a wall application, or 2 weeks in a roof application. Products exposed for longer than these periods will not be covered by the Product Warranty.

- Not suitable as a replacement for safety mesh or as a fall arrest system.
- This product is not suitable for use within 500m of a saltwater body in unenclosed, ventilated space.
- Additional mechanical fasteners may be required for product exposed to adverse weather conditions. Product must be inspected for damage and repaired/replaced prior to cladding being installed.

Compliance

NCC 2022

Sisalation® Metal Roof MD (433) and HD (453), when specified and installed correctly, meets the following compliances:

- Meets the requirements of NCC 2022 Volume 1 F3D3 as a sarking-type material complying with AS 4200.1.
- Meets the requirements of NCC 2022 Volume 1 F8D3(1)(a) & Housing Provisions 10.8.1(1)(a) through compliance with AS 4200.1.
- When tested to AS/NZS 1530.2 this product does not exceed the 'Flammability index' as required by NCC 2022 Volume 1, S7C7 for Sarking-Type materials: In other locations.
- The product meets the NCC 2025 non-combustible material concession for sarking-type materials under Volume One Clause C2D10(6)(f) and Volume Two Clause H3D2(1)(f), as it does not exceed 1 mm in thickness and has a Flammability Index not greater than 5.
- Suitable for use in bushfire areas with a Bushfire Attack Level (BAL) Low-FZ (wall) or Low-40 (roof) in accordance with AS 3959.

NCC 2025

Sisalation® Metal Roof MD (433) and HD (453), when specified and installed correctly, meets the following compliances:

- Meets the requirements of NCC 2025 Volume 1 F1D13 as a sarking-type material complying with AS 4200.1.
- Meets the requirements of NCC 2025 Volume 1 F8D3(1)(a) & Housing Provisions 10.8.1(1)(a) through compliance with AS 4200.1.
- When tested to AS/NZS 1530.2 this product does not exceed the 'Flammability index' as required by NCC 2025 Volume 1, S7C7 for Sarking-Type materials: In other locations.
- The product meets the NCC 2025 non-combustible material concession for sarking-type materials under Volume One Clause C2D10(6)(f) and Volume Two Clause H3D2(1)(f), as it does not exceed 1 mm in thickness and has a Flammability Index not greater than 5.
- Suitable for use in bushfire areas with a Bushfire Attack Level (BAL) Low-FZ (wall) or Low-40 (roof) in accordance with AS 3959.

Health and safety

Sisalation® Metal Roof MD (433) and HD (453) contains no substances which at their given concentration, are hazardous to health. Sisalation® Metal Roof contains aluminum foil and can conduct electricity. To avoid electrocution, care should be taken to ensure products do not come in contact with electrical wiring during installation or use. Refer to the SUI for more information.

Environmental properties

Fletcher Insulation avoids the use of Ozone Depleting Potential (ODP) substances in the manufacture or composition of its FBS-1 Glasswool Bio-Soluble Insulation® and Sisalation® reflective foil products. The use of Sisalation® pliable building membranes guarantees the use of zero ODP insulation while also ensuring that no harmful levels of Volatile Organic Compounds (VOCs) are released. This allows the incorporation of environmentally preferable insulation whilst also maintaining indoor air quality.

Maintenance and conditions of use

- Use of pressure cleaners or mineral based cleaners must not be used on the foil facing product.
- Where Sisalation® Pliable Building Membranes can be inspected, ensure any tears are repaired with appropriate tape, such as Vapastop® 883 Foil Tape.
- When storing, ensure product is protected from all physical damage at all times. Avoid storing product packaging under UV light (direct sunlight) for extended periods.
- Sisalation® Pliable Building Membranes products must be kept dry at all times, out of contact with direct sunlight and out of contact with alkaline products, cement and mortar as well as corrosive environments such as chlorine.
- Sisalation® Pliable Building Membranes products are not designed to withstand weathering hence the external cladding should be applied without delay.

- Products exposed to harsh weather conditions prior to cladding must be inspected for damage and repaired or replaced to ensure compliance with the Product Warranty.
- Sisalation® Pliable Building Membranes shall be installed in accordance with AS 4200.2
- Building Designer to consider the suitability of this product based on the projects design requirements.

Technical specification

When specifying, please state the following:

The metal roof sarking shall be Fletcher Insulation Sisalation® Metal Roof _____ (specify MD 433 or HD 453).

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