

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

Effective water and vapour barrier under metal roofs

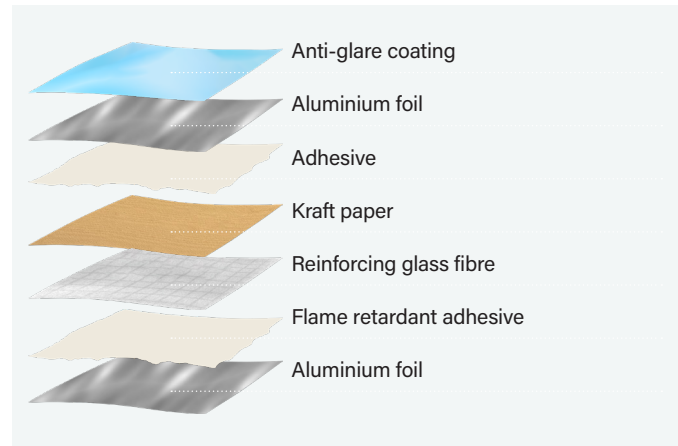
Description

Sisalation® Metal Roof comprises an outer layer of aluminium foil bonded to a high density kraft paper. This is then bonded to an additional layer of foil using a heavy coating of flame-retardant adhesive. The laminate is reinforced with strands of yarn to deliver exceptional strength. The inclusion of a coloured anti-glare coating reduces the incidence of reflected glare during installation.

Application

Sisalation® Metal Roof is recommended for use as a sarking in commercial and residential metal roof applications in climate zone 1–8, where free span does not exceed 900mm unsupported or is 1200mm or less, supported. Sisalation® Metal Roof is also suitable in residential and commercial wall applications when a higher duty wall membrane is required. Sisalation® Metal Roof sarking assists in minimising draughts which enables bulk insulation to perform more effectively. Additionally, when overlapped and sealed with Vapastop® 883 aluminium foil tape, Sisalation® Metal Roof sarking provides an effective secondary layer of protection against moisture, vapour, wind, heat and dust penetration. The tough barrier protects the building frame by minimising the amount of rain, dust and wind blowing into the roof.

Product composition MD (433) and HD (453)



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 that product is fit for purpose.

Product data

Product	Width mm	Length m	Area per roll m ²	Weight per roll kg	Old product code	New product code
Sisalation® Metal Roof MD (433)	1350	30	40.50	6.33	951282	4005546
	1350	60	81.00	12.40	951260	4005545
Sisalation® Metal Roof HD (453)	1350	60	81.00	14.02	952260	4005429

Physical properties

Property	Test method/Standard	Test Result MD (433)	Test Result HD (453)	Unit	
Duty Classification	AS4200	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/m ²	
Emittance	Anti-glare face	AS/NZS 4201.5	IR Non-reflective (0.35)	IR Non-reflective (0.35)	
	Silver side		IR Reflective (0.03)	IR Reflective (0.03)	
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/NZS 1530.2	≤ 5 (Low)

Compliance

Sisalation® Metal Roof (MD 433 and HD 453) products comply with the National Construction Code (NCC) for sarking type materials and satisfy the following requirements:

- AS 4200.1 for 'Pliable Building Membranes' Deemed to Satisfy Standard, recognised by NCC Volumes 1 and 2.
- NCC 2022 Volume 1 Non-Combustible building elements C2D10 (6,f) Sarking-type materials that do not exceed 1mm in thickness and have a Flammability Index not greater than 5. NCC 2019 Volume 2 General Concession – Non-Combustible Materials H3D2 (2,a) Sarking-type materials that do not exceed 1mm in thickness and have a Flammability Index not greater than 5.
- Suitable for use in bushfire areas with a Bushfire Attack Level (BAL) Low-40 (Roof) in accordance with AS 3959.

Health and safety

Sisalation® Metal Roof 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 SUIS 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.

General notes

- Sisalation® pliable building membrane products must be kept dry, 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 membrane products are not designed to withstand weathering hence the external cladding should be applied without delay.
- Sisalation® pliable building membrane products shall be installed in accordance with AS/NZS 4200.2 'Pliable Building Membranes and Underlays – Installation Requirements for Metal Roofs, Tile Roofs and Walls'. Additional guidelines are available for download via www.insulation.com.au or by contacting Fletcher Insulation on 1300 654 444.
- Building Designer to consider the suitability of this product based on the project's design requirements.
- Permastop® Building Blanket is recommended in buildings that are at greater risk of condensation.

Associated tapes

Vapastop® 883 Reinforced Foil Tape 50m rolls in widths (mm) 24, 48, 63, 75, 96, 120, 144.

Complementary products

- Pink® Batts: Wall
- Pink® Batts: Soundbreak
- Pink® Batts: Ceiling
- Vapastop® 883 Reinforced Foil Tape

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).

© Fletcher Insulation Pty Limited 2024. Fletcher Insulation reserves the right to change product specifications without prior notification. Information in this publication and otherwise supplied to users as to the subject product is based on our general experience and is given in good faith, but because of the many particular factors which are outside our knowledge and control and affect the use of products, no warranty is given or is to be implied with respect to either such information or the product itself, in particular the suitability of the product for any particular purpose. The purchaser should independently determine the suitability of the product for the intended application. The colour PINK, Pink® and Pink® Batts are registered trademarks of Owens Corning used under licence by Fletcher Insulation. FBS-1 Glasswool Bio-Soluble Insulation® is a registered trademark of ICANZ. Unless otherwise stated all ™ and ® are trademarks and registered trademarks of Fletcher Insulation Pty Limited ABN 72 001 175 355. FTDS4_Revision_8_Issue Date 15012024.