

TECHNICAL DATA SHEET

SISALATION®

METAL ROOF MD (433), METAL ROOF HD (453)



Product description and typical applications

Sisalation® Metal Roof is a strong, reinforced pliable building membrane designed for use as sarking under residential and commercial metal roofs, and can be installed over or under battens. The sophisticated membrane comprises of 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. This specification lends Sisalation® Metal Roof as the product of choice in metal roof applications as the foil-paper composition reduces the level of noise generated in metal roofs (otherwise known as “noisy roof syndrome”), thereby improving the acoustic ambience of the home. The inclusion of a coloured anti-glare coating reduces the incidence of reflected glare during installation.

The proprietary design and manufacturing techniques employed in the development of Sisalation® Metal Roof sarking accounts for its remarkable strength.

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 skin against moisture, vapour, wind, heat and dust penetration. The tough barrier protects the building frame by minimising the amount of rain and dust wind blows into the roof.

Additionally, Sisalation® Metal Roof sarking contributes to the thermal performance of building systems. When installed adjacent to a minimum 20mm air-space, its reflective surface provides increased thermal performance and contributes to the overall energy efficiency of a building.

With a Flammability Index of ≤ 5 in accordance with AS 1530.2:1993, Sisalation® Metal Roof is suitable for use in Bushfire Areas with a Bushfire Attack Level (BAL) of 0 - 40 in accordance with AS 3959-2009.



Physical characteristics

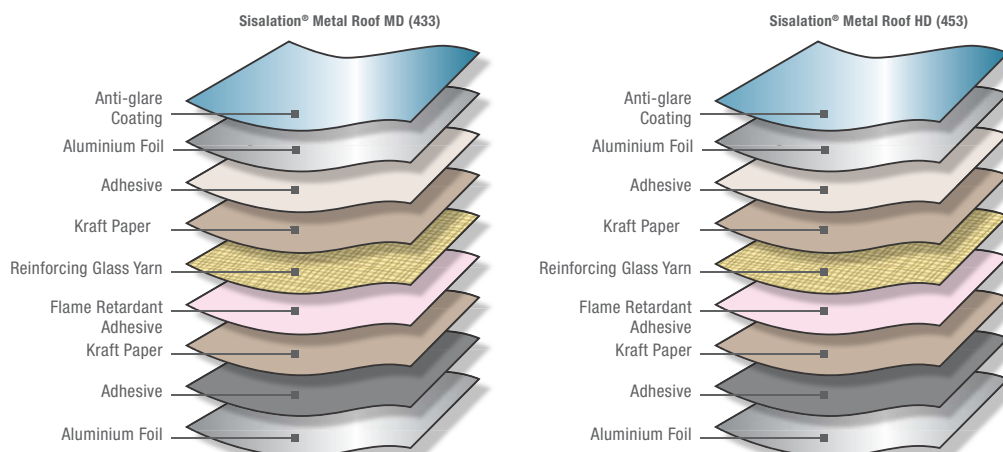
Product	Width mm	Length m	Area per roll m ²	Weight per roll kg	Product code
Metal Roof MD (433)	1350	30	40.50	14.40	951282
	1350	60	81.00	28.70	951260
Metal Roof HD (453)	1350	60	81.00	27.80	952260



*In accordance with AS 3959-2009 Construction of Buildings, Alterations and Additions in Bushfire Prone Areas

Product composition

Sisalation® is a renowned building products brand that has pioneered the Australian industry for decades dating back to WWII. Years of experience, engineering and innovation enable Fletcher Insulation to supply a range of reflective foil composites specially designed to deliver optimum performance for each application.



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Technical specifications

Sisalation® Metal Roof products achieve the following classifications in accordance AS/NZS 4200.1:1994:

	Sisalation® Metal Roof MD (433)	Sisalation® Metal Roof HD (453)
Duty rating	Medium	Heavy
Vapour barrier	High	High
Water barrier	High	High
Emittance of reflective face	0.03	0.03
Emittance of anti-glare face	0.10	0.10
Flammability index (in accordance with AS 1530.2)	≤5	≤5
Tensile strength - machine direction (kN/m)	Min. 9.5	Min. 12.5
Tensile strength - lateral direction (kN/m)	Min. 6.0	Min. 7.5
Edge tear resistance - machine direction (N)	Min. 65	Min. 80
Edge tear resistance - lateral direction (N)	Min. 65	Min. 80

Compliance

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

- AS/NZS4200.1: 1994 for 'Pliable Building Membranes'.
- Deemed to Satisfy Standard - recognised by NCC Volumes 1 and 2.
- Achieves a low Flammability Index (≤5) in accordance with AS1530.2:1993.
- NCC Volume 2 Part 3.7.1.9 Fire Hazard Properties (Class 1 & 10 Buildings).
- NCC Volume 1 Specification C1.10 Fire Hazard Properties (Class 2 to 9 Buildings). Suitable for use as a sarking type material in locations other than fire control rooms subject to Specification E1.8.

Bushfire Attack Level (BAL)

Roof Application	BAL LOW - 40*
*In accordance with AS 3959-2009 "Construction of Buildings, Alterations and Additions in Bushfire Prone Areas".	

Thermal performance

The thermal performance of Sisalation® pliable building membranes vary with application, orientation and installation method. For complete Total R-value guidance visit www.insulation.com.au/fletcherspecpro

Important notes

- Sisalation® pliable building membrane products must be kept dry 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 4200.2:1994 "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 projects design requirements.

Green Star compliant

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 ODP-free insulation while also ensuring that no harmful levels of Volatile Organic Compounds (VOC's) are released. This allows the incorporation of environmentally preferable insulation whilst also maintaining indoor air quality.

Specification notes

The metal roof sarking shall be Fletcher Insulation Sisalation® Metal Roof _____ (specify MD 433 or HD 453) incorporating two foil-paper laminates that are reinforced to reduce noise in metal roofs.

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