

## Sisalation® Metal Roof HD

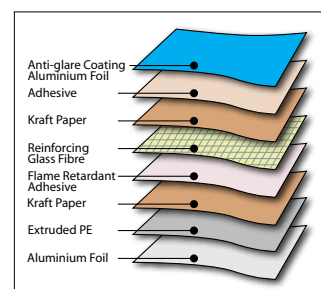
### Product description and typical applications

Sisalation® Metal Roof HD is a double sided anti-glare reflective foil laminate recommended for use in the sarking of metal roofs. Flame retardant Sisalation® Metal Roof HD is suitable for use in buildings in bushfire prone areas. Sisalation® Metal Roof HD provides an effective barrier against moisture, vapours, wind, heat and dust penetration when overlapped. Particularly when sealed with Sisalation® Vapastop® 883 self adhesive aluminium tape.

### Physical characteristics

Roll Size	Width	Length	Area	Weight
	1350mm	60m	81m <sup>2</sup>	27.8kg

Sisalation® Metal Roof HD has an outer layer of aluminium foil bonded to high density kraft paper bonded to a second foil with a heavy coating of flame retardant adhesive and reinforced with strands of fibreglass. One face is blue to reduce any problems with reflected glare during installation.



### Classifications according to AS/NZS 4200.1:1994

Duty Classification: Heavy Duty  
 Vapour Barrier: High  
 Water Barrier: High  
 Emittance of Reflective Face: 0.03  
 Emittance of Antiglare Face: 0.1  
 Flammability Index: ≤ 5 when tested in conformance with AS 1530.2.  
 Tensile Strength Machine Direction (kN/m): Min 12.5  
 Tensile Strength Lateral Direction (kN/m): Min 7.5  
 Edge Tear Resistance Machine Direction (N): Min 80  
 Edge Tear Resistance Lateral Direction (N): Min 80

### Green Star compliant

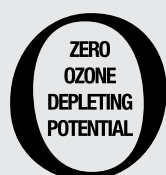
Fletcher Insulation is committed to providing environmentally sustainable products. Fletcher Insulation™ products have Zero Ozone Depleting Potential in both manufacture and composition, complying with the GreenStar Insulant ODP Emissions credit requirement. Air quality is maintained with Total Volatile Organic Compound (VOC) emissions below quantifiable levels.

### Thermal performance

Roof space	Summer	Winter
Non-ventilated	Total R1.9	Total R1.2
Ventilated	Total R2.2	Total R1.0

When used in conjunction with an airspace, Sisalation® foil products are an effective thermal insulation material because of the high reflectivity and low emissivity of its aluminium foil surfaces. Sisalation® Metal Roof Heavy Duty (453) complies with the requirements of AS/NZS4859.1. The contribution of this product to Total R-value depends on installation and environmental conditions which include the effect of dust.

Comprehensive calculations of Total R-values for typical tile roof systems is illustrated in the ICANZ Insulation Handbook which can be found at:  
[http://icanz.org.au/wp-content/uploads/2013/04/17132\\_ICANZ\\_ThermalPerformance.pdf](http://icanz.org.au/wp-content/uploads/2013/04/17132_ICANZ_ThermalPerformance.pdf)  
 or contact Fletcher Insulation National Customer Service Team 1300 654 444.



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## Installation guidance

Sisalation® foil products should be installed in accordance with AS/NZS 4200.2:1994 Pliable building membranes and underlays - Installation Requirements For Metal Roofs, Tile Roofs and Walls.

It should be installed with the antiglare face out and a 150mm overlap between runs. External cladding should be installed without delay. A minimum of 20mm air space is required adjacent to the reflective foil face to achieve the stated Total R Values.

In roof applications Sisalation® foil products should also be installed to maintain a 40mm sag when placed either over or under battens. Installing Sisalation® foil products under the battens is recommended by Fletcher Insulation as a sure way to achieve the required air space.

When being used as the vapour barrier, it is suggested that the design engineer and/or architect approve the use and placement of these material in their designs.

Foil products conduct electricity. It is important that safety is followed when installing this foil product. As a minimum have your electrician disconnect the electrical supply prior to installation to ensure that the foil is not 'LIVE'. Reconnect the electrical supply after installation with a test to confirm that the foil is not conducting electricity. Under no circumstances should this foil product be applied horizontally in residential ceiling space and under floor. Refer to the Australian / New Zealand Wiring Rules (AS/NZS 3000:2007) for more detailed information.

Important Notes: Prior to and during installation Sisalation® foil products must be kept dry and out of contact with alkaline products, cement and mortar. Sisalation® foil products are not designed to withstand weathering and external cladding should be applied without delay.

## Health and safety

There are no known health or safety risks associated with this product for applications described in this datasheet. For additional information or to request a Material Safety Data Sheet please visit [www.insulation.com.au](http://www.insulation.com.au) or contact your nearest Fletcher Insulation office.

## Bushfire Application Areas (BAL)

This product has a Flammability Index not more than 5 and therefore can be used in residential walls for BAL 12.5 to 40.

## Specification notes

Sisalation® Metal Roof HD complies with the BCA requirements for sarking type materials. It complies with the requirements of AS/NZS4200.1: 1994 for 'Pliable Building Membranes' which is the deemed to satisfy standard recognised by the BCA Volume 1 and Volume 2. It has a low flammability index (not greater than 5) in accordance with AS1530.2: 1993 which satisfies the BCA volume 2 Part 3.7.1.9 Fire Hazard Properties (Class 1 & 10 Buildings). It also satisfies BCA volume 1 Specification C1.10 Fire Hazard Properties (Class 2 to 9 Buildings), as a sarking type material in location other than fire control rooms subjected to Specification E1.8 .

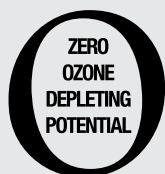
When specifying, state the following:

Application: Metal Roof Sarking

Product Name: Sisalation® Metal Roof HD.

For further information call **1300 654 444**

Email [info@insulation.com.au](mailto:info@insulation.com.au) Web [www.insulation.com.au](http://www.insulation.com.au)



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