

Sisalation® Residential Multi Purpose ExHD

Product description and typical applications

Sisalation® Residential Multi Purpose ExHD is made up of outer layers of aluminium foil bonded to Extra Heavy Duty weave, bonded together with a heavy coating of flame retardant adhesive. The weave face is blue to reduce any problems with reflected glare during installation. Sisalation® Residential Multi Purpose ExHD is an Extra Heavy Duty reflective foil laminate specifically developed for use in the sarking of residential metal roofs, tile roof and as a wall wrap. Flame retardant Sisalation® Residential Multi Purpose ExHD is suitable for use in buildings in bushfire prone areas. When used in conjunction with an airspace it is an effective thermal insulation material because of the high reflectivity and low emissivity of its aluminium foil surface. It also provides an effective barrier against moisture, vapours, wind, heat and dust penetration when overlapped and sealed with Sisalation® Vapastop® 883 self adhesive aluminium tape.

Thermal performance

Sisalation® Residential Multi Purpose ExHD 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.

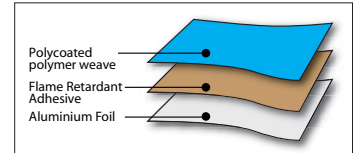
Physical characteristics

Roll Size	Width	Length	Area	Weight
	1350mm	60m	81m ²	19kg
	1350mm	30m	40.5m ²	9.7kg
	1500mm	30m	45m ²	10.6kg

Other roll sizes available on application.

Classifications according to AS/NZS 4200.11:1994

Duty Classification: Extra Heavy
 Vapour Barrier: Medium
 Emittance: Reflective
 Water Barrier: High
 Flammability Index: Low (≤ 5)
 Tensile Strength Machine Direction (kN/m): Min 13.0
 Tensile Strength Lateral Direction (kN/m): Min 10.5
 Edge Tear Resistance Machine Direction (N): Min 90
 Edge Tear Resistance Lateral Direction (N): Min 90



Chemical properties

Do not allow contact with wet mortar or concrete: alkalis' attack aluminium foil.

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.



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 because polymer weave backed products can shrink. Installing Sisalation® foil products under the battens is recommended by Fletcher Insulation as a sure way to achieve the required air space.

In wall applications start at a corner, line up the bottom of the wall wrap with the base of the timber bottom plate, cut at a height so the wall wrap slightly overlaps the window by approximately 50mm. Roll the Sisalation® foil products out to the far end of the subsequent window and affix. Ensure the Sisalation® foil products are cut slightly oversized. Fix the Sisalation® foil products at approximately 150mm to 200mm centres on every stud. Install the next run of wall wrap with a 150mm overlap.

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 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 FZ and for roofs BAL 12.5 to 40.

Specification notes

Sisalation® Residential Multi-Purpose ExHD 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 volume1 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:

Product Name: Sisalation® Residential Multi Purpose ExHD

Duty: Extra Heavy Duty

Application: Residential Metal Roof, tiled roof or wall wrap.

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