

Sisalation® Multipurpose EHD (456)

Vapour and water barrier sarking

Description

Sisalation® Multipurpose EHD (456) is a flexible, vapour and water barrier designed as a second skin for residential and commercial wall and roofing applications. This product is a polyweave foil membrane with an antiglare face designed to minimise glare experienced during installation.

Application

Sisalation® Multipurpose EHD (456) is designed for use as a pliable building membrane in applications such as brick veneer walls, tile roofs (with the exception of slate) and residential and commercial metal roofs. Sisalation® Multipurpose products are specifically designed for external wall applications in climate zones 1–3 and in suitable roofing applications in all climate zones.

When overlapped and sealed with Vapastop® 883 Reinforced Foil Tape, Sisalation® Multipurpose products provide a tough secondary skin for vapour and moisture control and act as a wind, heat and dust barrier. This effective barrier also protects the building frame by minimising the amount of rain and dust that penetrates.

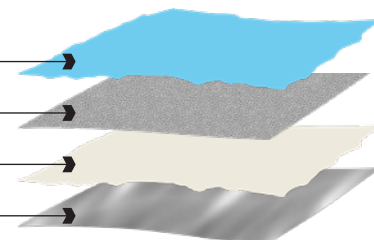
Product composition

Polymer coating

Polymer fabric

Polymer adhesive

Aluminium foil



Product Limitations

- This product does not have a group number in accordance with AS 5637.1 and is not suitable as an exposed internal wall or ceiling lining.
- This product is not designed for extended exposure and cladding shall be applied within 8 weeks on a wall and 2 weeks for a roof from install.
- This product is not suitable for wall applications where a vapour permeable, pliable building membrane is required per NCC Volume 1 & 2 or where the cladding manufacturer specifies a vapour permeable membrane.
- 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.

Features and benefits

Extra Heavy Duty product	→	Suitable for use in both residential and commercial projects.
Vapour and water barrier	→	Provides a second skin of protection from water ingress to the building.
Anti-glare face	→	Reduces glare during installation.

Product data

Width mm	Length m	Area per roll m ²	Weight per roll kg	Old product code	New product code
1350	30	40.50	4.66	352330	4006736
1350	60	81.00	9.32	352360	4006738
1500	30	45.00	5.12	352331	4006737

Physical properties

Property	Test method/Standard	Test result	Unit
Duty Classification	AS/NZS 4200.1	Extra Heavy Duty	
Tensile Strength	Machine	AS 1301.448s	≥ 13.0
	Lateral		≥ 10.5
Edge Tear	Machine	TAPPI T470	≥ 90
	Lateral		≥ 90
Vapour Control	ASTM E96	Class 1 Vapour Barrier	
Water Control	AS/NZS 4201.4	Water Barrier	
Emittance	Anti-glare face	AS/NZS 4201.5	IR Non-reflective (0.9)
	Silver side		IR Reflective (0.03)
Resistance to Dry Delamination	AS/NZS 4201.1	PASS	
Resistance to Wet Delamination	AS/NZS 4201.2	PASS	
Shrinkage	AS/NZS 4201.3	≤ 0.5	%
Electrical Conductivity	AS/NZS 3100	Electrically Conductive	
Nominal Thickness		< 1.0	mm

Fire hazard properties

Sisalation® Multipurpose EHD (456) 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

NCC 2019

Sisalation® Multipurpose EHD (456) 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 2019 Volume 1 Non-Combustible building elements C1.9(e) (vi) 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 3.7.1.1 (f) Sarking-type materials that do not exceed 1mm in thickness and have a Flammability Index not greater than 5.
- When tested to AS/NZS 1530.2 this product does not exceed the 'Flammability index' as required by NCC 2019 Volume 1, Specification C1.10 Clause 7 for Sarking-Type materials: In other locations.
- 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 2022

- AS 4200.1 for 'Pliable Building Membranes' Deemed to Satisfy Standard, recognised by NCC Volumes 1 and 2.
- Product meets non-combustible exemption for sarking type material outlined in 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 2022 Volume 2 General Concession – Non-Combustible Materials H3D2(1) (f) Sarking-type materials that do not exceed 1mm in thickness and have a Flammability Index not greater than 5.
- 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.
- Suitable for use in bushfire areas with a Bushfire Attack Level (BAL) Low-FZ (wall) or Low-40 (roof) in accordance with AS 3959.

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.

Important 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 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 projects design requirements.

Maintenance and conditions of use

- Use of pressure cleaners or mineral based cleaners must not be used on the facing product.
- Where Insulation can be inspected, ensure any tears are repaired with appropriate tape as highlighted in the product's installation guidelines.
- When storing, ensure product is protected from physical damage. Avoid storing product packaging under UV light (direct sunlight) for extended periods.

Health and safety

There are no known health or safety risks associated with this product for applications described in this datasheet.

Sisalation® Multipurpose EHD (456) contains aluminium foil and can conduct electricity. To avoid electrocution, care should be taken to ensure products do not come into contact with electrical wiring during installation or use. For additional information or to request a Safety Use Information Sheet please visit www.insulation.com.au or contact your Fletcher Insulation Representative.

Technical specification

When specifying, please state the following:

The material shall be Fletcher Insulation Sisalation® Multipurpose EHD (456).

Installation instructions

For the correct installation method, follow the Installation Guidelines available from insulation.com.au

© 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 Intellectual Capital, LLC 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. FTDS7_Revision_9_ Issue date 22082024.