

SisalTuff™ 456

Multi-Purpose Extra Heavy Duty

Product description and typical applications

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. SisalTuff™ Multi-Purpose Extra Heavy Duty (456) 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 SisalTuff™ 456 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

SisalTuff™ Multi-Purpose Extra Heavy Duty (456) 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.

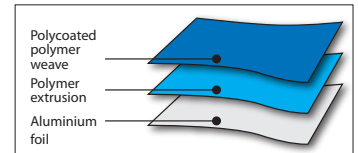
Physical characteristics

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 4200.1

Duty Classification:	Extra Heavy
Vapour Barrier:	Medium
Emittance:	Reflective
Water Barrier:	High
Flammability Index:	Low (≤5)
Nominal Weight:	237gsm
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.

SISALTUFF™

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We safely deliver extraordinary
value to our customers

Installation

SisalTuff™ Multi-Purpose Extra Heavy Duty (456) should be installed in accordance with AS/NZS4200.2: 1994 for the Installation Requirements for "Pliable Building Membranes". External cladding should be installed without delay. SisalTuff™ in roofs must be installed with a sag of 40mm between rafters. To achieve the stated Total R-values a minimum air space of 40mm is required adjacent to each reflective foil face. We recommend that all products in the Sisalation® Metal Roof End Use Category™ should be installed under the battens.

In wall applications Sisaltuff should be installed with a 150mm overlap between runs. External cladding should be installed without delay. Aluminium foil is susceptible to alkali attack and therefore should not come into contact with wet concrete or mortar.

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.sisalation.com.au or contact your nearest Fletcher Insulation™ office.

Specification notes

SisalTuff™ Multi-Purpose Extra Heavy Duty (456) satisfies the BCA requirements for sarking type materials. It complies with the requirements of AS/NZS4200.1: 1994 for "Pliable Building Membranes" which is deemed to satisfy manual recognised by the BCA Part 3.5 Roof and Wall Cladding. It has a low flammability index (not greater than 5) in accordance with AS1530.2: 1993 which satisfies the BCA Part 3.7.1 Fire Hazard Properties (Class 1 & 10 Buildings). It also satisfies BCA Specification C1.10 2(a) Fire Hazard Properties (Class 2 to 9 Buildings), as a sarking type material.

When specifying, state the following:

Product Name: SisalTuff™ Multi-Purpose Extra Heavy Duty (456)

Duty: Extra Heavy Duty

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



CERTIFIED QUALITY
MANAGEMENT SYSTEM
ISO 9001



Freecall SALES **1300 65 44 44** Technical Services **1800 000 878**

Email info@insulation.com.au Web www.insulation.com.au

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Sisalation®

Multi-Purpose Light Duty (438)

Product description and typical applications

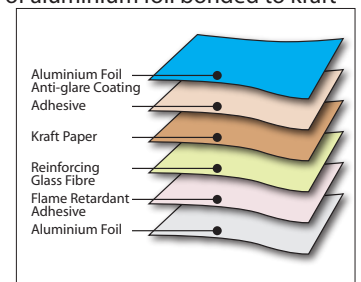
Sisalation® Multi-Purpose Light Duty (438) is a single sided anti-glare reflective foil laminate that can be used under suspended timber joists, to wrap brick veneer wall frames, and also under metal deck roofing. Flame retardant Sisalation is suitable for use in buildings in bushfire prone areas. Sisalation 438 provides an effective barrier against moisture, vapours, wind, heat and dust penetration when overlapped.

Physical characteristics

Roll Size	Width	Length	Area	Weight
	1350mm	60m	81m ²	19.77kg

Sisalation Multi-Purpose Light Duty (439) has an outer layer of aluminium foil bonded to kraft paper bonded to a second foil with a coating of flame retardant adhesive and reinforced with strands of fibreglass. One face is blue to reduce any problems with reflected glare during installation.

Duty Classification:	Light 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.	
Nominal Weight:	244gsm
Tensile Strength Machine Direction (kN/m):	Min 7.5
Tensile Strength Lateral Direction (kN/m):	Min 4.5
Edge Tear Resistance Machine Direction (N):	Min 45
Edge Tear Resistance Lateral Direction (N):	Min 45



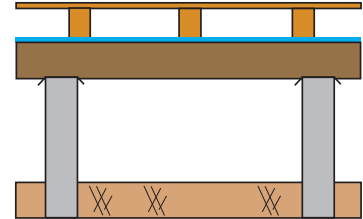
Green Star compliant

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

Suspended Timber Floor	Summer	Winter	<i>Sisalation installed over bearers, under floor joists. Can be retro-fitted</i>
Enclosed subfloor	Total R1.4	Total R2.5	
Ventilated subfloor	Total R0.7	Total R1.2	

When used in conjunction with an airspace, Sisalation is an effective thermal insulation material because of the high reflectivity and low emissivity of its aluminium foil surfaces. Sisalation Multi-Purpose Light Duty (438) 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 building systems are illustrated in the ICANZ Insulation Handbook which can be found at: www.icanz.org.au>PublicationsandReports>InsulationHandbook or contact Fletcher Insulation Technical Services 1800 000 878.

Installation

Sisalation Multi-Purpose Light Duty (438) should be installed in accordance with AS/NZS4200.2 for the Installation Requirements for "Pliable Building Membranes". It should be installed with a 150mm overlap between runs. External cladding should be installed without delay. To achieve the stated Total R-values a minimum air space of 40mm is required adjacent to each reflective foil face. We recommend that all products in the Sisalation Metal Roof End Use Category™ should be installed with a sag of 40mm when installed over battens. Installing Sisalation under the battens is a sure way to achieve the required air space.

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.sisalation.com.au or contact your nearest Fletcher Insulation office.

Specification notes

Sisalation Multi-Purpose Light Duty (438) satisfies 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 Part 3.5 Roof and Wall Cladding. It has a low flammability index (not greater than 5) in accordance with AS1530.2: 1993 which satisfies the BCA Part 3.7.1 Fire Hazard Properties (Class 1 & 10 Buildings). It also satisfies BCA Specification C1.10.2(a) Fire Hazard Properties (Class 2 to 9 Buildings), as a sarking type material.

When specifying, state the following:

Product Name - Sisalation Multi-Purpose Light Duty (438)

Application - Metal Roof, Wall Wrap, Suspended Floor

Sisalation Multi-Purpose Light Duty (438) shall be installed in the nominated application.

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CERTIFIED SAFETY
MANAGEMENT SYSTEM
AS/NZS 4801



CERTIFIED QUALITY
MANAGEMENT SYSTEM
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Sisalation®

Multi-Purpose Light Duty (439)

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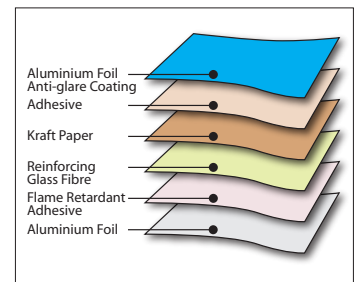
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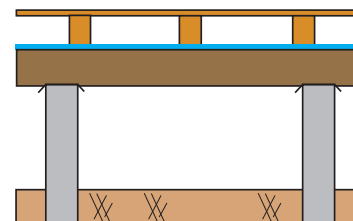
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CERTIFIED SAFETY
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