

Sisalation® Heavy Duty (450) & Sisalation® Heavy Duty Antiglare (453)

Application

Sisalation® Heavy Duty (450) is a fire retardant double-sided reflective foil laminate. Sisalation® Heavy Duty Antiglare (453) is identical but with an antiglare coating, designed to reduce glare and reflection during installation.

Both products are recommended for use in residential, commercial and industrial applications as a –

- Thermal insulating material
- Vapour barrier in the sarking of walls
- Vapour barrier for all roof types
- Vapour barrier in the lining and lagging of exposed air-conditioning ducts, pipes and vessels
- Facing for building insulation blankets for metal deck roofing
- Facing for building insulation blankets underpinned in concrete slab roofs
- Barrier against moisture, water vapour, wind, heat and dust penetration when overlapped and sealed with a tape such as Vapastop® 883

Features and Benefits

- Heavy duty to provide superior edge tear resistance to prevent ripping during installation
- Self-supporting high strength product that can be installed on spans up to 1200mm without support
- Antiglare coating to reduce glare and reflection for safer installation conditions (Sisalation® Heavy Duty Antiglare (453) only)
- Faced on both sides with Albar® to provide scuff resistance and prevent damage to surfaces during construction
- High density two-way fibreglass reinforcement for greater strength
- Fire retardant and will not support combustion or the spread of flames
- Highly reflective to enhance lighting conditions
- Low emissivity to limit heat loss
- Manufactured with pure aluminium foil to provide an effective barrier against vapour

Technical Data



Physical Property Classifications in Accordance with AS/NZS4200.1			
Characteristics	Results	Characteristics	Results
Duty Classification:	Heavy	Resistance to Dry Delamination:	Pass
Vapour Barrier:	High (≥ 450 MN s/g)	Resistance to Wet Delamination:	Pass
Emittance (Al Face):	Reflective (≤ 0.05)	Shrinkage:	Pass
Emittance (Antiglare):	Internal Test (≤ 0.1)	Folding Endurance:	Pass
Water Barrier:	High	Tensile Strength (kN/m):	M.D.: ≥ 12.5 C.D.: ≥ 7.5
Flammability Index:	Low (≤ 5)	Edge Tear Resistance (N):	≥ 80

The physical properties of Sisalation® (450) and (453) have been tested by independent accredited laboratories. The nominal results are typically representative of performance. Test reports are available on request.



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 during manufacture is maintained with total Volatile Organic Compound (VOC) emissions below quantifiable levels.

Thermal Performance

When used in conjunction with an airspace, Sisalation® is an effective thermal insulation material due to the high reflectivity and low emissivity of its aluminium foil surfaces. 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 roof systems are illustrated in the ICANZ Insulation Handbook which can be found at [www.icanz.org.au>PublicationsandReports>InsulationHandbook](http://www.icanz.org.au/PublicationsandReports/InsulationHandbook) or contact Fletcher Insulation Export Office.

Installation

Sisalation® Heavy Duty (450) and (453) should be installed in accordance with AS/NZS4200.2 Installation Requirements for Pliable Building Membranes. Install with a 150mm overlap between runs, with each higher run lapping over the layer below. The product must be installed in such a way to prevent water from pooling.

Sisalation® Heavy Duty (450) and (453) may be installed across spans up to 1200mm without the need of a supporting mesh. Install external cladding without delay.

To be effective as a thermal insulator there must be a minimum air gap of 40mm adjacent to at least one reflective foil face. Installing Sisalation® Heavy Duty (450) and (453) under the battens is an effective method to achieve the required air space.

Aluminium foil is susceptible to alkali attack and therefore should not come in contact with wet concrete.

When specifying, state the following:

Product Name: Sisalation® Heavy Duty (450) or Sisalation® Heavy Duty Antiglare (453)
"Product Name" shall be installed under the battens as a thermal insulation, vapour barrier and sarking.

Standard Roll Size

1.35m x 30m (40.5m²)

Note: Fletcher Insulation Pty Ltd 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 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.

Manufactured in Australia by Fletcher Insulation Pty Ltd. under an ISO9001 Certified Quality Management System

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