

# Sisalation® Heavy Duty 450

## Fire Retardant Building Foil

### Application

Sisalation® Heavy Duty 450 is a fire retardant reflective foil laminate. Recommended for use in commercial and industrial buildings to provide a clean reflective, abrasion resistant interior lining in demanding applications. Suitable for use as a:

- Vapour barrier in high humidity applications (e.g. indoor pools), where the heavy duty properties help ensure the integrity of the vapour barrier is maintained compared to lower duty foils
- Self-supporting reflective interior lining for commercial and industrial, roofing and wall applications
- High strength product in windy conditions
- Facing for Building Insulation Blanket (BIB)

### 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
- 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



AS/NZS 4200.1:1994 Classification	Requirement	Performance	
Mechanical	Tensile Strength Edge Tear	MD ≥ 12.5 kN/m, CD ≥ 7.5 kN/m MD ≥ 80 N, CD ≥ 80 N	Heavy Duty
Vapour Barrier		≥ 450 MN.s/g	High
Emittance		≤ 0.03	Double Sided-Reflective
Water Barrier		> 100mm	High
Flammability		≤ 5	Low
Absorbency		< 100g/m <sup>2</sup>	Unclassified

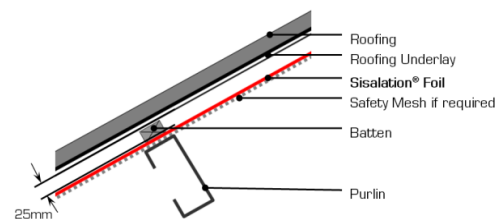
### Installation

#### General

- Sisalation® Heavy Duty 450 Fire Retardant Building Foil should be installed in accordance with AS/NZS4200.2 Installation Requirements of "Pliable Building Membranes", and the following installation and limitation details
- External cladding should be installed without delay
- When installed in conjunction with insulation, the building foil must be installed on the warm side

#### Roof Installation

- Lap upper sheets over lower sheets by no less than 150mm, to prevent moisture ingress between laps
- Where installed under metal/sheet roofing a clearance of 25mm is required between absorbent roof underlay and foil (or between bulk insulation/foil and roof underlay)



Typical Roof Installation

## Installation continued...

### Wall and Gable Installation

- Run horizontally across the frame
- Lap upper sheets over lower sheets by no less than 150mm
- Fix adequately to framing members

### Vapour Barrier Installation

- When used as a vapour barrier, penetrations through fixings, joints etc must be avoided to ensure a true vapour barrier is achieved
- Penetrations via screws, nails etc will compromise the vapour barrier, and allow moisture ingress
- Installation details are as per standard installation; however any joints must be glued and sealed with a tape over a solid backing.
- Any inner cladding should be fixed through using mastic, additional care taken at joints and corners
- A pure aluminium foil tape 0.08 - 0.1mm thick and at least 48mm wide is recommended for all joints (e.g. 3M 425 foil tape 48mm, please check with tape supplier if this is the most suitable tape for your application)

### Limitations

Sisalation® Heavy Duty 450 *must* be:

- Used behind claddings that will remain weather resistant
- Be installed and clad on the same day (recommended to prevent damaged due to weather)
- Supported if used at spans greater than 1200mm for ceilings

Sisalation® Heavy Duty 450 should *not* be:

- Allowed to contact wet mortar or concrete, or exposed to alkaline conditions
- Used in situations where it is permanently wet
- Used in place of an absorbent building underlay (i.e: residential dwellings to comply with NZBC Clause E2 requirements)

## Durability

When used, installed and maintained in accordance with the requirements outlined in this datasheet,

Sisalation® Heavy Duty 450 will meet or contribute to meeting the following provisions of the NZBC:

NZBC Clause B2: Durability Meets the requirements of NZBC B2.3.1 a) 50 years and NZBC B2.3.1 b) 15 years

## Environmental

Tasman Insulation is committed to providing environmentally sustainable products. The Sisalation® range of building foils has 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

## Specification Notes

Product required: Sisalation® Heavy Duty 450 Fire Retardant Building Foil

### Product Specification

Description	Product Code	Roll Size	Area	Nominal GSM
Sisalation® Heavy Duty 450	744503	1350mm x 30m	40.5m <sup>2</sup>	345gsm

## Storage

Sisalation® Heavy Duty 450 must be protected against damage and weather. Rolls must be stored on end, under cover in a clean, dry environment. Do not crush product

## Accreditations/Appraisals/Certification



Distributed by:  
Tasman Insulation New Zealand  
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