

Sisalation® SureWrap™ Roof

Self-Supporting Synthetic Roof Underlay

Application

Sisalation® SureWrap™ Roof is a fire retardant self-supporting underlay designed for use under roof cladding. The product consists of a micro-porous water resistant film laminated between two layers of non-woven spun bonded polyolefin.

Suitable for the following applications:

- Masonry tile roof cladding; and,
- Metal tile and profiled metal roof cladding; and
- Wind zones up to and including "Extra High"

Features and Benefits

- Self-supporting underlay - can be installed without support for spans up to 1200mm
- Fire retardant – will not support combustion
- Synthetic - may be exposed to rainfall during installation without affecting future durability or performance
- Vapour permeable - allowing vapour to pass through the membrane minimising the build-up of condensation
- No Shrinkage – allowing no maximum run length on installation
- BRANZ appraised – meets New Zealand Building Code requirements

Technical Data

NZBC E2/AS1 – Acceptable Solution, Table 23		
Properties	Property Performance Requirement	Results
Absorbency	≥150 g/m ²	Pass
Vapour Resistance	≤ 7 MN s/g	Pass
Water Resistance	≥ 100 mm	Pass
pH of Extract	≥ 5.5 and ≤ 8.0	Pass
Shrinkage	≤ 0.5%	0%
Mechanical	Tensile Strength (Average)	MD= 3.94 kN/m, CD= 3.66 kN/m
	Edge Tear (Average)	MD= 204 N, CD= 191N
Additional Information		
Flammability Index	Fire Retardant: < 5	
Wind load zone	Up to and including Extra High	

New Zealand Building Code (NZBC)

Sisalation® SureWrap™ Roof when used, installed and maintained in accordance with the requirements outlined in this datasheet, will meet or contribute to meeting the following provisions of the NZBC:

Clause B2: Durability

Meets or will contribute to meeting the requirement of NZBC B2.3.1 (a) 50 years and (b) 15 years

Clause E2: External Moisture

Meets or will contribute to meeting the requirements of NZBC E2/AS1 for use as a roof underlay

Clause F2: Hazardous Building Materials

Will not present a health hazard to people according to F2.3.1

The NZBC E2/AS1 does **not** include non-kraft roof underlays,

Sisalation® SureWrap™ Roof is an Alternative Solution to NZBC E2

As such the design parameters should be followed in this technical literature in conjunction with the relevant codes of practice and standards for roofing.

Installation

- Fixed and secured adequately with 6-8mm staples or 20mm large-head clouts or proprietary fastenings – Fixings must be installed at maximum 300mm centres capturing *all* edges with the fastenings
- Pulled taut and installed in a manner that prevents ponding of condensation - upper sheets lapped over lower sheets
- Clad within 7 days of installation
- Lapped by 150mm and face away from the prevailing wind – Sisalation® SureWrap™ Roof has a 150mm lap line printed along the top face
- If a lap seal is required use Window Sealing Tape (Aluband™ or Bulldog™)
- Penetrations: Underlay must fit tightly and be lap taped around penetrations
- Repairs: If torn or punctured, cover over the damaged area with additional underlay (with at least 150mm overlap) and tape. Tape small tears
- Additional support (galvanized wire netting) is required where support spans are over 1200 mm
- Sisalation® SureWrap™ is suitable for use on roof pitches of minimum 3°

When installed at

- Roof pitches ≥ 8 , Sisalation® SureWrap™ Roof may be run vertically or horizontally without support
- Roof pitches < 8 , Sisalation® SureWrap™ Roof may be run horizontally without support, if run vertically it must be supported

Sisalation® SureWrap™ Roof should not be:

- Used as a vapour barrier

Installation with LOSP treated timber

- Suitable for use with LOSP treated timber, conditional upon the solvent in LOSP treated timber having had sufficient time to evaporate

Design Considerations

For the long term performance of both synthetic and kraft underlays, condensation and moisture related issues should be considered.

Adequate ventilation can minimise or prevent the build-up of condensation by allowing moisture laden air to escape from the roof cavity before it can build to critical levels.

Factors that may increase condensation risks:

- Skillion roofs, curved roofs and residential roofs with low pitch. Concrete/clay/metal tile roofs have low risk of condensation due to the large amount of air leakage.
- Climate conditions; areas with constant high humidity levels and zones with large diurnal temperature difference

For industrial applications where high levels of moisture may be generated through a building issue, a specialised design is recommended including the use of vapour barriers and appropriate ventilation.

In all applications, an air gap of at least 25mm above insulation must be incorporated into the roof design to minimise the risk of condensation and damage to the insulation.

The NZ Metal Roof and Wall Cladding Code of Practice: Section 4.5.5 and 4.6: Ventilation should be considered at the design stage.

Specification Note

State the following: Sisalation® SureWrap™ Roof

Product Specification

Description	Product Code	Roll Size	Area	GSM
Sisalation® SureWrap™ Roof	799400	1250mm x 40.0m	50m ²	172 gsm

Storage

Sisalation® SureWrap™ Roof 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



Tasman Insulation New Zealand Limited
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Auckland,
New Zealand



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