

Three layer Synthetic roof underlay. Vapour permeable, absorbent with a non porous TEEE membrane

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Level of assurance needed to demonstrate NZ Building Code Compliance

Supporting documentation should include technical information by manufacturer and either a BRANZ or independent Appraisal or CodeMark



Pro Clima confirms that this minimum level of assurance has been met or exceeded by the following:

BRANZ Appraisal

[855](#)



Technical Statement

Product Description

Mento 3000 is a high performance three layer synthetic roof underlay, BRANZ Appraised (Appraisal No 855) for use as per E2/AS1, or under the 'Pro Clima method' with counter battens and purlins above the underlay. Mento 3000 is fire retardant, and self supporting out to 1200mm. When using the Pro Clima method of installation, a roof sarking is required for solid support of the underlay, when the roof pitch is below 10 degrees.

The Product consists of a non-porous but diffusion open TEEE film sandwiched between two layers of polypropylene microfibre fleece which protect the film from damage and UV radiation. The top layer of fleece is coloured Black with Product branding and lap marking in white. As the product is non-porous, the 'tenting effect' does not occur, meaning insulation can be installed up against the underside. Mento 3000 can be exposed to the NZ UV and elements for 90 days before the roofing is installed.

Scope of use

SOLITEX MENTO® 3000 has been appraised for use as a self supporting roof underlay on buildings within the following scope:

the scope limitations of NZBC Acceptable Solution E2/AS1, Paragraph 1.1 for timber framed buildings or,

- the scope limitations of NASH Building Envelope Solutions, Paragraph 1.1 for steel framed buildings, and

- with masonry tile roof cladding; and,

- with metal tile and profiled metal roof cladding; and,

- situated in NZS 3604 Wind Zones up to, and including, Extra High.

SOLITEX MENTO® 3000 has also been appraised for use in gable ends where an air barrier is required.

New Zealand Building Code (NZBC)

The product will, if employed in accordance with the supplier's installation and maintenance requirements, assist with meeting the following provisions of the building code:

- **Clause B2 Durability:** Performance B2.3.1(a), B2.3.1(b)
- **Clause E2 External moisture:** Performance E2.3.2
- **Clause F2 Hazardous building materials:** Performance F2.3.1

Notes

The product has a Flammability index of <5, so can therefore be classed as fire retardant.

Evidence

The product meets the requirements set out in the following documents, or relevant parts of cited standards within the documents:

Vapour classification: Class 4 (Permeable) as per AS/NZS 4200.1-2017

Moisture vapour transmission resistance: (MVTR†) 0.459 MNs/g as per ASTM E96 Method B

Resistance to water penetration (water control): 10,000 mm EN 20811

Pass (> 100 mm) NZS 2295; AS/NZS 4201.4-1994

Surface water absorbency: > 150 g/m2 as per AS/NZS 4201.6-1994

Flammability index: < 5 as per AS 1530.2-1993

masterspec partner

Company Contact Details



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Edge tear: MD / CD± 263 / 208 N as per TAPPI T470

Tensile strength: MD / CD±5.1 / 3.7 kN/m as per AS 1301.448s-1991

Electrical conductivity: Electrically non-conductive as per AS/NZS 4200.1-2017

Supporting Evidence

The product has and can make available the following additional evidence to support the above statements:



BRANZ Appraisal
855

Use in Service History

- Schools
- Apartments
- Residential
- Kianga Ora
- Hospitals
- Commercial
- Industrial
- Passive House

Product Criteria

Design requirements

SOLITEX MENTO® 3000 is intended for use as an alternative to conventional kraft paper roof underlays, which are fixed over timber or steel-framed roofs in order to limit the entry of wind into the roof cavity, and to assist in the moisture management of the roof cladding system.

The material also provides a degree of temporary weather protection during early construction. However, the product will not make the roof weathertight and some wetting of the underlying structure is always possible before the roof cladding is installed. Hence, the entire building must be closed-in and made weatherproof before moisture sensitive materials such as ceiling linings and insulation materials are installed.

SOLITEX MENTO® 3000 must not be exposed to the weather or ultraviolet (UV) light for a total of more than 90 days before being covered by the roof cladding,

SOLITEX MENTO® 3000 is suitable for use under roof cladding's on buildings as a roof underlay, in accordance with NBC Acceptable Solution E2/AS1, Table 23.

SOLITEX MENTO® 3000 is suitable for use at roof pitches less than 8° (minimum 3°). When used at pitches less than 8°, SOLITEX MENTO® 3000 must be installed horizontally. At pitches greater than 8°, SOLITEX MENTO® 3000 can be installed vertically or horizontally. SOLITEX MENTO® 3000 must span no greater than 1,200 mm in one direction.

Installation requirements

Pro Clima (Nz) Ltd offers an optional installation method where the SOLITEX MENTO® 3000 is separated from the roofing to provide additional ventilation to the roof space. This method requires that SOLITEX MENTO® 3000 is installed horizontally and that the underlay is fixed direct to the top of the rafter or truss and is secured with a minimum 20 mm thick counter batten fixed directly over the rafter/truss.

For roof pitches 15° or less, Pro Clima [NZ] Ltd recommends that SOLITEX MENTO® 3000 'connect' is used. On laps where a connection with the integrated sealing tape system is not possible, the lap should be connected with DUPLEX double-sided tape and the overlap taped with TESCON EXTORA® Sealing Tape.

For roof pitches 10° or less, Pro Clima [NZ] Ltd recommends that the roof underlay is laid on sarking and that TESCON® NAIDECK tape is fixed between the counter battens and the roof underlay.

Maintenance requirements

Provided it is not exposed to the weather or UV light for a total of more than 90 days, and provided the roof cladding is maintained in accordance with the cladding manufacturer's instructions and the roof cladding remains weather resistant, SOLITEX MENTO® 3000 is expected to have a serviceable life equal to that of the roof cladding.

Warrantees

The Pro Clima Warranty Agreement applies to SOLITEX MENTO® 3000 as per other Pro Clima products used in the construction.

The Warranty period for products shall begin at the time of the sale of the product to the first customer by Pro Clima NZ Ltd, and shall end six years after this time.

The warranty period shall extend to ten years after the time of the sale of the product to the first customer by Pro Clima NZ Ltd if installation of the products is carried out solely in combination with Pro Clima standard products, insofar as products for the relevant application are available as part of the Pro Clima system.

Please contact Pro Clima NZ on 0800 PROCLIMA or welcome@proclima.co.nz for more information on the terms and conditions of the Warranty

Company Product Information

Relationships



Member of New Zealand Green Building Council

International Living Future Institute PRC-0005

Videos

[Leaky building 2.0 Skillion Roof - Part 1](#)

[Skillion Roof - Part 2 INTELLO Intelligent Air Bar](#)

[pro clima MENTO® Roof Weather Resistive Barrier](#)



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