

CERTIFICATE OF CONFORMITY

This product Certificate is issued under Section 269 of the Building Act 2004 for:

Solitex Extasana Wall Underlay



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| Product Description |
| Solitex Extasana Wall Underlay is a flexible synthetic wall underlay for use under direct fixed and non-direct fixed wall cladding on timber and steel framed buildings. The product consists of a non-porous water-resistant film laminated between two layers of non-woven spun-bonded polypropylene and is coloured blue on the top surface and grey on the bottom surface. |
| Product purpose and use |
| <p>Solitex Extasana Wall Underlay has been assessed for use as a flexible wall underlay on timber framed or steel framed buildings within the following scope:</p> <ul style="list-style-type: none"> the scope limitations of NZBC Acceptable Solution E2/AS1 (AMENDMENT 7 – JANUARY 2017), Paragraph 1.1 with regards to building height and floor plan area; and, with absorbent and non-absorbent wall claddings either directly fixed to frame or installed over an 18 mm minimum drained cavity; or, with masonry veneer in accordance with NZBC Acceptable Solution E2/AS1 (AMENDMENT 7 – JANUARY 2017); and, situated in NZS 3604:2011 Wind Zones up to, and including 'Very High'. <p>Solitex Extasana Wall Underlay has been assessed for use as a flexible wall underlay over rigid wall underlays on timber framed or steel framed buildings within the following scope:</p> <ul style="list-style-type: none"> the scope limitations of NZBC Acceptable Solution E2/AS1 (AMENDMENT 7 – JANUARY 2017), Paragraph 1.1 with regards to building height and floor plan area; and, with absorbent and non-absorbent wall claddings installed over an 18 mm minimum drained cavity; and, with masonry veneer in accordance with NZBC Acceptable Solution E2/AS1 (AMENDMENT 7 – JANUARY 2017); and, situated in NZS 3604:2011 Wind Zones up to and including 'Extra High' |
| Certificate holder |
| <p>Pro Clima NZ Limited 7 Daly St, Lower Hutt 5010, New Zealand Tel: 0800 776 254, www.proclima.co.nz</p> |

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|--|------------------------------------|---------------|-------------|-------------------------------|--------------------|
| CodeMark Certification Body | | 11/10/2012 | 12/10/2018 | 14/01/2022 | GM-CM30032-RevE |
| Global-Mark Pty Ltd, Suite 4.07, 32 Delhi Road, North Ryde NSW 2113, Australia www.Global-Mark.com.au | Herve Michoux Managing Director | Date of issue | Last update | Date of next re-certification | Certificate Number |

The purpose of construction site audits is to confirm the practicability of installing the product; and to confirm the appropriateness and accuracy of installation instructions. In issuing this certificate, Global-Mark has relied on the independent expert and/or laboratory advise or reports. This certificate is issued by Global-Mark Pty Limited, an independent certification body accredited by the product certification accreditation body (JAS-ANZ) appointed by the Chief Executive of the Ministry of Business Innovation and Employment under the Building Act 2004. The Ministry of Business Innovation and Employment does not in any way warrant, guarantee, or represent that the building method or product the subject of this certificate conforms with the New Zealand Building Code, nor accept any liability arising out of the use of the building method or product. The Ministry of Business Innovation and Employment disclaims, to the extent permitted by law, all liability (including negligence) for claims of losses, expenses, damages, and costs arising as a result of the use of the building method(s) or product(s) referred to in this certificate. This Certificate may only be reproduced in its entirety.

It is advised to check that this Certificate of Conformity is currently valid and not withdrawn, suspended or superseded by a later issue by referring to the Ministry of Business Innovation and Employment website, <http://www.mbie.govt.nz/>
 New Zealand Building Code (NZBC) references the Building Code in force at the time of issuing the product certificate.

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Compliance with the New Zealand Building Code (NZBC):

Solitex Extasana Wall Underlay, if used, designed, installed and maintained in accordance with the statements and conditions of the Installation Guide and this Certificate, will meet, or contribute to meeting the following provisions of the NZBC:

- **Clause B2 DURABILITY:** Performance B2.3.1(a), not less than 50 years, B2.3.1(b), 15 years and B2.3.2. Solitex Extasana Wall Underlay meets these requirements.
- **Clause C3 FIRE AFFECTING AREAS BEYOND THE FIRE SOURCE:** Performance C3.4(c) Solitex Extasana Wall Underlay meets these requirements.
- **Clause E2 EXTERNAL MOISTURE:** Performance E2.3.2. When used as part of the cladding system, Solitex Extasana Wall Underlay will contribute to meeting this requirement.
- **Clause F2 HAZARDOUS BUILDING MATERIALS:** Performance F2.3.1. Solitex Extasana Wall Underlay meets this requirement and will not present a health hazard to people.

Subject to the following conditions and limitations:

Design Conditions:

Product specification and incorporation of the Solitex Extasana Wall Underlay into the building design shall be carried out by a designer / architect / engineer or a building professional who:

- Is qualified to design the buildings covered under the 'Scope' of use of this product.
- Has ready access to the relevant technical specifications, NZBC, Standards, details and other information related to the installation method, including the current version of the Pro Clima NZ Limited Installation Guide for Solitex Extasana as noted within this Certificate.

Note: Directly fixed cladding on steel frame may require a thermal break for the wall system to comply with E3 and H1

Design Information

Timber and Steel Framing

1. Studs must be provided at maximum 600 mm centres. Dwangs must be fitted flush between the studs at maximum 1200 mm centres.

General

2. Solitex Extasana Wall Underlay is intended for use as an alternative to conventional building papers which are fixed over timber or steel framed walls in order to limit the entry of wind into building cavities, and to act as a secondary barrier to wind-driven rain.
3. The material also provides a degree of temporary weather protection during early construction. However, the product will not make the building weathertight and some wetting of the underlying structure is always possible before the building is closed in. Hence, the building must be closed-in and made weatherproof before moisture sensitive materials such as wall or ceiling linings and insulation materials are installed.
4. Solitex Extasana Wall Underlay must not be exposed to the weather or ultra violet light for a total of more than 90 days before being covered by the wall cladding.
5. Solitex Extasana Wall Underlay is suitable for use under wall claddings as a wall underlay as called up in NZBC Acceptable Solution E2/AS1 (AMENDMENT 7 – JANUARY 2017), Table 23 on timber framed buildings. Solitex Extasana Wall Underlay is suitable for use as an absorbent synthetic wall underlay (type W4) as called up in NZS 2295:2006, Table 2.4. Refer to Table 1.

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Table 1: NZBC E2/AS1 (AMENDMENT 7 – JANUARY 2017) Table 23 Requirements

| NZBC E2/AS1 (AMENDMENT 7 – JANUARY 2017) Table 23 Wall Underlay Properties | Property Performance Requirement | Actual Property Performance |
|---|---|---|
| Absorbency | $\geq 100 \text{ g/m}^2$ | Pass |
| Vapour Resistance | $\leq 7 \text{ MN s/g}$ | Pass |
| Water Resistance | $\geq 20 \text{ mm}$ | Pass |
| pH of Extract | ≥ 5.5 and ≤ 8 | Pass |
| Shrinkage | $\leq 0.5\%$ | Pass |
| Mechanical | Edge tear and tensile strength: Machine direction $\geq 150 \text{ N}$ Cross direction $\geq 100 \text{ N}$ Tensile strength (Average aged): Machine direction $\geq 3 \text{ kN/m}$ Cross direction $\geq 1 \text{ kN/m}$ | Edge tear and tensile strength: Machine direction = 234 N Cross direction = 171 N Tensile strength (Average aged): Machine direction = 4.57 kN/m Cross direction = 3.32 kN/m |
| Air Barrier | Air resistance: $\geq 0.1 \text{ MN s/m}^3$ | Pass. |
| Flammability index | ≤ 5 | Pass |

6. In cavity installations where the cavity battens are installed at greater than 450 mm centres, the wall underlay must be supported between the battens to prevent the underlay bulging into the cavity space when bulk insulation is installed in the wall frame cavity in accordance with the requirements of NZBC Acceptable Solution E2/AS1 (AMENDMENT 7 – JANUARY 2017), Paragraph 9.1.8.5.

Structure

7. Solitex Extasana Wall Underlay is suitable for use in all Wind Zones of NZS 3604:2011 up to, and including, 'Very High' when used as a stand-alone flexible wall underlay, and all Wind Zones of NZS 3604:2011 up to, and including, 'Extra High' when used as an overlay for rigid wall underlays.

Durability

8. Solitex Extasana Wall Underlay meets code compliance with NZBC Clause B2.3.1 (a), not less than 50 years for wall underlays used where the cladding durability requirement or expected serviceable life is not less than 50 years, e.g. behind masonry veneer, and code compliance with NZBC Clause B2.3.1 (b), 15 years for wall underlays used where the cladding durability requirement is 15 years.

Serviceable Life

9. Provided it is not exposed to the weather or ultra-violet light for a total of more than 90 days, and provided the exterior cladding is maintained in accordance with the cladding manufacturer's instructions and the cladding remains weather resistant, Solitex Extasana Wall Underlay is expected to have a serviceable life equal to that of the cladding.

Control of Internal Fire and Smoke Spread

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10. Solitex Extasana Wall Underlay has an AS 1530. 2:1993 (including Amendment 1) Flammability Index of ≤ 5 and therefore meets the requirements of NZBC Acceptable Solutions C/AS2 to C/AS6, Paragraph 4.17.8 (b), for the surface finish requirements of suspended flexible fabric used as an underlay to exterior cladding that is exposed to view in occupied spaces. It may therefore be used with no restrictions in all buildings

Prevention of Fire Occurring

11. Solitex Extasana Wall Underlay must be separated from fireplaces, heating appliances, HVAC, flues and chimneys in accordance with the requirements of Part 7 of NZBC Acceptable Solutions C/AS2, C/AS3, C/AS4, C/AS5, C/AS6 and C/AS7 (all AMENDMENT 4 – 01 JANUARY 2017) for the protection of combustible materials.

External Moisture

12. Solitex Extasana Wall Underlay must be used behind claddings that meet the requirements of the NZBC, such as those covered by NZBC Acceptable Solution E2/AS1 (AMENDMENT 7 – JANUARY 2017), or claddings covered by a valid Codemark certification.
13. Solitex Extasana Wall Underlay can be added as a second layer over head flashings in accordance with the requirements of NZBC Acceptable Solution E2/AS1 (AMENDMENT 7 – JANUARY 2017), Paragraph 9.1.10.3.
14. Solitex Extasana Wall Underlay, when installed in accordance with the Solitex Extasana Wall Underlay Installation Guide, titled 'Pro Clima Solitex Extasana Wall Protection Membrane, Version 2018-06 ID DIG-147' and the CodeMark Certificate will assist in the total cladding systems compliance with NZBC Clause E2.

Product Installation Information

1. Installation shall always be carried out by:
- A Licensed Building Practitioner (LBP) with experience in wall underlay installation; or,
 - A person with experience in wall underlay installation being supervised by an LBP.
2. The LBP shall also:
- Comply with all of the relevant technical information related to the products use including information contained within the Solitex Extasana Wall Underlay Installation Guide, titled 'Pro Clima Solitex Extasana Wall Protection Membrane, Version 2018-06 ID DIG-147', and the CodeMark Certificate; and,
 - Upon completion of the installation, the LBP shall complete and sign the Pro Clima (NZ) Ltd Certificate of Installation and provide it to the head contractor.

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