

Certificate no: CMNZ70182

Version: 0

Original issue date: 07 August 2025

Version date: 07 August 2025

## 1. Certificate Holder Details



**Alco Waterproofing Solutions Ltd**  
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## 2. Product Certification Body

**Bureau Veritas Australia Pty Ltd**  
11/500 Collins Street  
Melbourne VIC 3000 Australia  
product.certification@bureauveritas.com  
Ph: 1800 855 190  
www.bureauveritas.com.au

**Complaints:** The complaints process for this certificate can be found here:  
[www.bureauveritas.com.au/your-feedback](http://www.bureauveritas.com.au/your-feedback)

Sam Guindi – Bureau Veritas Product Certification Manager



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# Product Certificate

## Volclay® Waterproofing System

### 3. Description of Building Method or Product

Name of the product or method in Aotearoa New Zealand, including any brand names used. Description of what it is and the components that make up any system and its physical attributes including the materials and make-up of the product, where applicable. Matters that should be taken into account in the use or application of the building method or product can be found in item 6. Conditions and Limitations of Use. Continuation of description can be found in item 10 – Supporting Information about Description. [Delete if not applicable]. The building method's or building product's catalogue or model identification number or numbers or other unique identifiers that might be used to identify the building product or building method

The Volclay® Waterproofing System consists of a Voltex® Membrane and ancillary products (refer to section 10) that uses sodium bentonite as the principle waterproofing component.

The Volclay® Waterproofing System a waterproofing membrane approximately 6.5 mm thick consisting of two polypropylene geotextiles, one woven and one non-woven, enclosing granular sodium bentonite at a minimum weight of 4.8 kg/m<sup>2</sup>.

### 4. Intended use of Building Method or Product

Intended use of the building method or product as described in the product manual and other instructional materials. A statement of the function or purpose of the building method or product. Continuation of intended use can be found in item 11 – Supporting Information about Intended use.

The Volclay® Waterproofing System is used as a waterproofing membrane below ground to protect basements and other underground structures against water penetration and water vapour transmission from the ground.

### 5. New Zealand Building Code Provisions

The performance clauses of the New Zealand Building Code that are relevant to the intended use and with which the building method or product complies or contributes to (where used as part of a system).

How the building method or product complies or contributes can be found in item 8. Basis for Certification. Any qualifications on the extent of that compliance can be found in item 6. Conditions and limitations of use.

**B2 Durability:** Performance Clauses B2.3.1 (a), B2.3.2

**E2 External moisture:** Performance Clauses E2.3.3, E2.3.7

**F2 Hazardous building materials:** Performance Clauses F2.3.1



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## 6. Conditions and Limitations of Use

The building method or product's use is to be in accordance with the installation instructions and requirements against which the building method or product was assessed.

Conditions or limitations of conformity for the performance requirements the building method or product is compliant with, including any requirements for people with the qualifications and skills to install or use the building method or product, any known or demonstrated situations where the building method or product should not be used. A statement as to whether there are any matters that should be taken into account in the use or application of the building product or building method and, if so, what those matters are.

1. The Volclay® Waterproofing System is certified
  - a) for use as:
    - i. an external waterproof tanking membrane to in-situ concrete, precast concrete and concrete masonry basement constructions subject to hydrostatic pressures of up to 2 bar (20 metres); and,
  - b) where ground water conductivity does not exceed 2,500 µS/cm.
2. The Volclay® Waterproofing System shall:
  - a) be installed in accordance with the Allco Volclay® Tanking Details and Install Guide V3, July 2024, and
  - b) be used adequately confined and protected against damage during construction and in service; and
  - c) be backfilled as soon as possible after placing the membrane, with backfill material free from builder's debris and angular aggregate and compacted to a minimum 85% modified Proctor.

## 7. Health and Safety Information

Health, safety, and well-being declarations associated with installation, maintenance, and use of the building method or product, and their specific editions and dates necessary to ensure the performance requirements of clauses F1 to F9 of the Building Code can be met.

The compliance with any manufacturer's installation instructions, maintenance, OH & S Statements, MSDS's and other Health and Safety declarations will provide the necessary Health and Safety Information pertaining to the product.

## 8. Basis for Certification

B2 Durability - By comparison with Verification Method B2/VM1

E2 External moisture - By testing and comparison with Acceptable Solution E2/AS1

F2 Hazardous building materials - By testing and comparison with the performance requirements of Clause F2.3.1



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## 9. Supporting Documentation for Certification

Reference to any acceptable solutions, verification methods, New Zealand Standards, or other compliance pathways referenced against each individual performance requirement the building method or product is compliant with, and their specific version and date. Reference to documents describing tests and evaluations and any other documents relied on for certification or used to prove compliance, including their full title, specific version and date.

1. Acceptable Solutions and Verification Methods for New Zealand Building Code Clause B2 Durability Second edition (Amendment 12), 28 November 2019.
2. Verification Methods E2/VM1 and Acceptable Solutions E2/AS1, E2/AS2 and E2/AS3 for New Zealand Building Code Clause E2 External Moisture Third edition (Amendment 10), 5 November 2020.
3. Voltex® Safety Data Sheet, May 2022.
4. BRANZ Appraisal No. 507 [2019] Volclay® Waterproofing System, 7 March 2024.
5. BBA Agrément Certificate 86/1650 Voltex® Bentonite Waterproofing System for Structures, 7 July 2022.
6. Allco Volclay® Tanking Details and Install Guide V3, July 2024.

## 10. Supporting Information About Description (Optional)

Any supporting information for section 3.

The Allco Volclay® Waterproofing System includes of the following components:

- Voltex® Membrane is manufactured from two geotextile membranes which are needle punched together and contain a minimum of 4.8 kg/m<sup>2</sup> of granular sodium bentonite. Voltex® membrane is supplied in 1.1 m wide x 5 m long and 1.6 m wide x 40 m long rolls.
- Voltex® DS Membrane manufactured from two geotextile membranes which are needle punched together and contain minimum of 4.8 kg/m<sup>2</sup> of granular sodium bentonite with an HDPE liner integrally bonded to one of the woven geotextile sides. Voltex® DS membrane is supplied in 1.6 m wide x 40 m long rolls.
- Voltex® SWR Membrane is manufactured from two geotextile membranes which are needle punched together and contain minimum of 4.8 kg/m<sup>2</sup> of granular sodium bentonite. The membrane bonds to poured concrete to form an integral seal and is used in areas of higher water contamination (refer to Paragraph 12.2). The Voltex® SWR membrane is supplied in 1.6 m wide x 40 m long rolls.
- Swelltite® Membrane is made up of a blend of sodium bentonite and butyl rubber integrally bonded to a geomembrane liner. It is used primarily for waterproofing foundation walls and plaza roof decks. The Swelltite® membrane is supplied in a 1 m wide x 10.4 m long roll.
- Waterstop RX® is a flexible strip waterstop manufactured from 75% sodium bentonite and 25% butyl rubber. It is primarily designed to stop water infiltration through both vertical and horizontal concrete construction joints, junctions between new and existing construction, irregular surfaces and around wall penetrations such as plumbing and electrical conduits. It is supplied in 10.2 m and 6.1 m long rolls.
- Cetseal is a multi-purpose, single-component polyether moisture cure sealant/adhesive. It is supplied in 290 ml cartridges.
- Bentoseal® is a trowel-grade sodium bentonite compound used as detailing mastic around penetrations and corner transitions. It is supplied in 3 US Gallon pails.



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- Aquadrain® is a prefabricated drainage composite consisting of a heavy filter fabric adhered to a high strength plastic drainage core. It is supplied in 1.2 m wide x 15.6 m long rolls.
- Water stoppage is granular Volclay® bentonite used to detail areas that may require additional Volclay® protection. It is supplied in 25 kg bags.
- Allco Seamtape is a tacky butyl cloth tape used to seam sealing and jointing of membranes. It is supplied in 80 mm x 20 m long rolls.
- Cetcoat is a one-part polymer-modified, cement-based system used to detail ground level terminations. It is supplied in 18 kg units and is coloured grey.

### 11. Supporting Information About Intended Use (Optional)

Any supporting information for section 4.

N/A

### 12. Supporting Information About Conditions and Limitations of Use (Optional)

Any supporting information for section 6.

Advice should be sought from Allco Waterproofing Solutions for the following situations which are outside the scope of this certification:

- a) where the groundwater conductivity exceeds 2,500  $\mu\text{S}/\text{cm}$ , or
- b) the use of Voltex® SWR membrane which may be suitable for soil conductivity up to a maximum of 10,000  $\mu\text{S}/\text{cm}$  (1,000  $\text{mS}/\text{m}$ )

All CodeMark certificates that are current must be registered with MBIE. MBIE maintains a register of valid product certificates. [Please find the register here.](#)

If the certificate is not listed on this register or it appears as (SUSPENDED), it is not a valid CodeMark certificate and does not have to be accepted by a building consent authority as establishing compliance with the New Zealand Building Code.



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