

Certificate no: CMNZ70053

Version: 2

Original issue date: 21 April 2020

Version date: 18 March 2024

## 1. Certificate Holder Details



NEWTON  
SYSTEMS

### Newton Systems Limited

101 Mount Eden Road, Mount Eden, Auckland, 1024

New Zealand

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www.newtonsystems.co.nz

## 2. Product Certification Body

### Bureau Veritas Australia Pty Ltd

11/500 Collins Street

Melbourne VIC 3000 Australia

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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

## Newton System 500

### 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 Newton System 500 is comprised of wall and floor water & Vapour proof dimpled sheet membranes, meshed for direct finishes or unmeshed. The system incorporates PVC Basedrain, Floordrain & Baseboard channels to intercept and divert free water that ingresses into a below ground structure.

### 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. [Delete if not applicable]

The Newton System 500® is an internal water management solution that once installed to walls and floors, protects against moisture vapour, isolates damp surfaces from internal finishes and manages free water that might enter the internal space of a below ground structure, managing and directing the water to a sump from which it can be pumped, or a gravity fed system to be removed away from the property. The Newton system can be installed as a remedial standalone system or within a new build.

### 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.

**Clause B2 Durability:** B2.3.1 (a), B 2.3.2 (a)

**Clause E2 External Moisture:** E2.3.3, E2.3.5, E2.3.7

**Clause F2 Hazardous Building Materials:** 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 Newton System 500 shall be designed, installed and maintained as specified in the Installation Guide – CDM Systems 500 – cavity drain waterproofing systems – Revision 10.3 – 1<sup>st</sup> Feb 2024.
2. All Installers shall be approved and trained by Newton Systems Limited, and hold a current annual certificate issued by Newton Systems Limited.
3. The Newton System 500 shall be used as part of a cavity drain waterproofing or damp proofing system that isolates dampness and manages water away from a building. Water that is managed shall drain naturally using gravity, or diverted to a sump and mechanically pumped, the pump system shall operate automatically or controlled by a panel and provide an alert to building occupants in the event it becomes overwhelmed or failure to operate correctly. Battery backup systems shall be added to provide continual power in the event of a power cut.
4. The management of internal moisture, and the effects of possible condensation, shall be specifically considered by designers. Designers shall consider appropriate techniques for managing the safe egress of moisture vapour (such as control of the internal environment or use of a vapour control layer on the warm side of the insulation), and in particular the effect of moisture on any material in contact with materials below the local dew-point.
5. The Newton System 500 shall be designed by a waterproofing specialist who shall provide a signed declaration for inclusion with any application for building consent that all design conditions of this CodeMark certificate have been met.

## 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

How the performance requirements in the Building Code were met for each of the provisions. Where used as part of a system, the specific contribution to compliance.

B2 Durability - By testing and comparison with Verification Method B2/VM1

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

F2 Hazardous building materials - By comparison with the performance requirements of Building Code 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 (Amendment 12), 28 November 2019
2. Acceptable Solutions and Verification Methods For New Zealand Building Code Clause E2 External moisture 3rd edition (Amendment 10), 5 November 2020
3. BBA Certificate 94/3010 (Product Sheet 1) Newton Membrane Systems Newton 508 and Newton 508R, 9 December 2021
4. Installation Guide – CDM Systems – cavity drain waterproofing systems – Revision: 10.2- 1<sup>st</sup> July 2023 – NZ
5. BBA Certificate 22/6357 (Product Sheet 1) – Newton CDM System – Newton CDM 503 – 5<sup>th</sup> October 2022
6. BBA Certificate 22/6357 (Product Sheet 2) – Newton CDM System – Newton CDM 503 Mesh – 5<sup>th</sup> October 2022
7. BBA Certificate 22/6357 (Product Sheet 3) – Newton CDM System – Newton CDM 508 – 5<sup>th</sup> October 2022
8. BBA Certificate 22/6357 (Product Sheet 4) – Newton CDM System – Newton CDM 508 Mesh – 5<sup>th</sup> October 2022
9. BBA Certificate 94/3010 (Product Sheet 8) – Newton Waterproofing Systems – Newton 508 Eco Floor – 9<sup>th</sup> December 2021
10. BBA Certificate 94/3010 (Product Sheet 9) – Newton Waterproofing Systems – Newton 520 Eco – 9<sup>th</sup> December 2021

## 10. Supporting Information About Description (Optional)

Any supporting information for section 3.

The main system components are:

- Newton® 503, 508, 508R, 508 eco and 520 eco - Cavity Drain Membranes
- Newton® 503 and 508 meshed and 508 Xtf Fire Rated, 503 D-Mat - Cavity Drain Membranes
- Newton® Waterseal tape and Overtape
- Newton® Waterseal rope
- Newton® Basedrain, Floordrain and Baseboard system components:(other ancillary components are specified in the Installation Guide - Newton System 500 (Cavity Drain Waterproofing System) Rev 10.3 – 1st October 2023 - NZ

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

Any supporting information for section 4.

Further details regarding the use of the system can be found in the Installation Guide – CDM Systems 500 – cavity drain waterproofing systems – Revision 10.3 – 1<sup>st</sup> Feb 2024, and relevant Technical Data Sheet (TDS)

Additional product testing data such as compressive loading, pull of testing etc. can be obtained upon request.



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

Any supporting information for section 6.

N/A

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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