Certificate of Conformity

Certification Body:

CertMark International
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Certificate Holder:

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Certificate number: CM40275

THIS IS TO CERTIFY THAT

Termguard Termite Management System

Type and/or use of product:

Termite Management System.

Description of product:

A reticulation system delivering APVMA registered bifenthrin termiticide available in the following configurations:

- Termguard Ultimate Underslab and Perimeter System.
- Termguard Perimeter and Penetrations Retreatment System.
- Termguard Perimeter Retreatment and Armoured Shield System.
- Termguard Perimeter and Penetrations Retreatment System (with sub-cavity system). Refer A1 & A2.

COMPLIES WITH THE FOLLOWING BCA PROVISIONS AND STATE OR TERRITORY VARIATION(S) **BCA 2019 (Amdt 1)**

	Volume One	Volume Two
Performance Requirement(s):	Not Applicable	Not Applicable
Deemed-to-Satisfy Provision(s):	B1.4(i) Termite Risk Management	3.1.4.3(b)(i), (ii) Termite Management Systems
State or territory variation(s):	NT B1.4(i)	QLD 3.1.4.3

SUBJECT TO THE FOLLOWING LIMITATIONS AND CONDITIONS AND THE PRODUCT TECHNICAL DATA IN APPENDIX A AND EVALUATION STATEMENTS IN APPENDIX B

Limitations and conditions:

1. The Termguard Termite Management System is to be installed by licensed installers, trained and approved by Termguard Pty Ltd.
2. The Termguard Termite Management System is to be installed in accordance with the Termguard Technical Manual Edition 15 - Feb 2021.
3. Only APVMA approved Termiticides to be used in conjunction with the Termguard Termite Management System.
4. The Termguard Termite Management System is not to be installed in the wall sub-cavity of buildings.
5. Penetrations of a different size to the preformed Termguard Armoured Shield Collars are to be protected using the Termguard Penetration Reticulation configuration, installed as described in the Termguard Technical Manual Edition 15 - Feb 2021.
6. The Termguard Armoured Shield Collars are to be installed to the penetration pipes that they protect as described in the Termguard Technical Manual Edition 15 - Feb 2021.

Building classification/s:

Class 1,2,3,4,5,6,7,8,9 & 10

Richard Donarski - CMI

Don Grehan – Unrestricted Building Certifier

Date of issue: 27/05/2022

Date of expiry: 27/05/2025

7. 50 years design life established via service life predictions in accordance with Section 5 of AS 3660.3:2014 and due to the system being easily and readily accessible for replenishment.
8. The concrete slab must be constructed in accordance with the requirements of AS 2870-2011 Residential slabs and footings or AS 3600:2018 -Concrete Structures (as amended up to and including Amendment 2).
9. Prior to any installation the soil type is to be established that the slab will be constructed on
10. On reactive soil sites (H, or E) the import of soil is required to a minimum depth of 50mm to enable the Termite Management agents' dispersion. See Manual.
11. The sand/soil used for the system under the slab does not need to be washed sand but must have a grading the following specification 95-100% passing 6.7mm and 0-10% passing 75 µm.
12. A minimum thickness of 150mm of sand/soil is required as part of the Termite Management System.
13. High pressure, pulse type pumps are not suitable for use with Termguard Systems.
14. Inspections are undertaken annually in accordance with the Termguard Technical Manual Edition 15 - Feb 2021 to determine that no bridging or breaching of the Termite Management System has occurred.
15. The use of the certified product/system is subject to these Limitations and Conditions and must be read in conjunction with the Scope of Certification below.

Scope of certification: The CodeMark Scheme is a building product certification scheme. The rules of the Scheme are available at the ABCB website www.abcb.gov.au. This Certificate of Conformity is to confirm that the relevant requirements of the Building Code of Australia (BCA) as claimed against have been met. The responsibility for the product performance and its fitness for the intended use remain with the Certificate Holder. The certification is not transferrable to a manufacturer not listed on Appendix A of this certificate.

Only criteria as identified within this Certificate of Conformity can be used for CodeMark certification claims. Where other claims are made in a client's Installation Manual, Website or other documents that are outside the criteria on this Certificate of Conformity, such criteria cannot be used or claimed to meet the requirements of this CodeMark certification.

The NCC defines a Performance Solution as one that complies with the Performance Requirements by means other than a Deemed-to-Satisfy Solution. A Building Solution that relies on a CodeMark Certificate of Conformity that certifies a product against the Performance Requirements cannot be considered as Deemed-to-Satisfy Solution.

This Certificate of Conformity may only relate to a part of a Performance Solution. In these circumstances other evidence of suitability is needed to demonstrate that the relevant Performance Requirements have been met. The relevant provisions of the Governing Requirements in Part A of the NCC will also need to be satisfied.

This Certificate of Conformity is issued based on the evidence of compliance as detailed herein. Any deviation from the specifications contained in this Certificate of Conformity is outside of this document's scope and the installation of the certified product will not be covered by this Certificate of Conformity. This may result in the product being classified as a non-conforming building product.

Disclaimer: The Scheme Owner, Scheme Administrator and Scheme Accreditation Body do not make any representations, warranties or guarantees, and accept no legal liability whatsoever arising from or connected to, the accuracy, reliability, currency or completeness of any material contained within this certificate; and the Scheme Owner, Scheme Administrator and Scheme Accreditation Body disclaim 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 product(s) referred to in this certificate.

When using the CodeMark logo in relation to or on the product/system, the Certificate Holder makes a declaration of compliance with the Scope of Certification and confirms that the product is identical to the product certified herein. In issuing this Certificate of Conformity, CertMark International has relied on the experience and expertise of external bodies (laboratories and technical experts).

Nothing in this document should be construed as a warranty or guarantee by CMI, and the only applicable warranties will be those provided by the Certificate Holder.

APPENDIX A – PRODUCT TECHNICAL DATA

A1 Type and intended use of product

The Termguard Perimeter and Penetration Retreatment System offers a means of initial and re-application of an APVMA registered bifenthrin termiticide to the home or buildings perimeter slab edge and all slab penetrations (e.g. plumbing, electrical) and control / construction joints.

Termguard Ultimate Underslab and Perimeter System – used in any of the following situations:

A reticulation system for the replenishment of a chemical termite management system that is installed wholly beneath concrete slab-on-ground including rafts and infill slabs, and around building perimeters and into which is injected a termiticide; as a termite management system in conjunction with the requirements - concrete slabs as detailed in Australian Standards AS 3660.1-2014, AS 3660.3-2014, AS 3600-2018 and AS 2870-2011.

Termguard Perimeter and Penetrations Retreatment System – used in any of the following situations:

A reticulation system for the replenishment of a chemical termite management system for use with concrete slab-on-ground (both monolithic and infill slabs) for protection of the slab perimeter and around slab penetrations by injection of a termiticide; as a termite management system in conjunction with the requirements - concrete slabs as detailed in Australian Standards AS 3660.1-2014, AS 3660.3-2014, AS 3600-2018 and AS 2870-2011.

Termguard Perimeter Retreatment and Armoured Shield System – used in any of the following situations:

A subterranean termite management system comprising of reticulation system for the replenishment as a chemical termite management system and armoured shields as a physical termite management system for use with concrete slab-on-ground (both monolithic slabs and infill slabs) for protection around the perimeter and around slab penetrations; as a termite management system in conjunction with the requirements - concrete slabs as detailed in Australian Standards AS 3660.1–2014, AS 3660.3-2014, AS 3600-2018 and AS 2870 - 2011.

Termguard Perimeter and Penetrations Retreatment System (with sub-cavity system) – used in any of the following situations:

Reticulation system for the replenishment as a chemical termite management system for use with concrete slab-on-ground (both monolithic and infill slabs) for protection of the slab perimeter, to wall cavities of either cavity brick or brick veneer construction, or with infill and footing slabs, and around slab penetrations by injection of termiticide; as a termite management system in conjunction with the requirements - concrete slabs as detailed to Australian Standards AS 3660.1–2014, AS 3660.3-2014, AS 3600-2018 and AS 2870-2011.

A2 Description of product

The Termguard Termite Management System consists of the following varied components:

Component	Description	Component	Description
Manifold	40mm Diameter uPVC line that runs from the outside of the structure that feeds the internal 20mm drilled lines.	*Child Proof Trap*	Rigid plastic enclosures with an inset screw-secured lid that is set into the ground or pathway adjacent to the building. It houses the injection connector for the Termguard System. NOTE: Only Termguard Licensees are issued with the removal tool.
Crossover Fittings	20mm uPVC fittings shaped in a "+" which directs the Termiticide into the Ring lines and Penetration Loops through reducers.	*Permecover*	GeoFabric non-woven mat used as a filter for the perimeter that withholds termiticide in the area required.
Reducing Tee	A fitting which joins to the manifold using a 40mm tee, the other two arms of the reducing tee are 20mm to accept the drilled or un-drilled pipes.	*Loops*	20mm perforated pipe manufactured into a loop to encircle each/all slab penetrations.
Reducers	Fit into the side arms of the Crossover Fittings, and Tee's reducing the 40mm fitting down to the 20mm diameter of the Ring lines.	*Penetration Box*	20mm perforated pipe manufactured into a box to encircle each/all slab penetrations.
Un-drilled Pipe	20mm uPVC pipe, which carries Termiticide from the Manifold to all critical areas of the sub-floor pad and perimeter. This pipe is not perforated and is green in colour.	*Drilled uPVC Pipes*	All pipe work is labelled with applicable information. Class 15 – Australian Standard AS 1477:2017 or equivalent.
Elbows	90^0 and 45^0 fittings in uPVC of 40mm or 20mm, used to re-direct either the Manifold or the internal lines.	*Fittings*	Class 18 - Australian Standard AS 1477:2017 or equivalent.
Non-Return Valve	A one-way valve fitted onto the injection point end of any System. This is designed to ensure fluid flow is in one direction only and eliminates back flow. An arrow indicates direction of flow.	*Glue*	High-pressure solvent cement approved by Termguard and complying with – Australian Standard AS/NZS 3879:2011 or equivalent.
Filler Point Connector	A 20mm or 40mm Male cam lock fitting used to provide the connection between the treatment hose and the Manifold.	*Armoured Shield Collars*	Heavy duty UPVC
Pump System	Pump required is a fire fighter pump, either the Onga 350 series or the Davey model 93106, which will deliver high volume at a low pressure.	*Grid System*	20mm Drilled Pipe that services penetrations of the slab.

A3 Product specification

The Termguard System is designed to deliver APVMA registered termiticides in accordance with AS 3660.1:2014.

A4 Manufacturer and manufacturing plant(s)

Termguard Pty Ltd
Unit 9, 145 Arthur Street
Homebush West NSW 2140.

A5 Installation requirements

The Termguard Termite Management System is to be installed in accordance with the Termguard Technical Manual Edition 15 - Feb 2021.

A6 Other relevant technical data

No other relevant technical data.

APPENDIX B – EVALUATION STATEMENTS

B1 Evaluation methods

1. Termite Management Provisions A5.2(1)(e). Reports from Appropriately Qualified Persons.

B2 Reports

1. CSIRO Building Products & Systems; Technical Assessment 198; TermGuard Ultimate; Revalidated; Dated: 05/2006.
2. CSIRO Building Products & Systems; Technical Assessment 212; TermGuard Perimeter & Pen; Revalidated; Dated 05/2006.
3. CSIRO Building Products & Systems; Technical Assessment 230; TermGuard Perimeter Retreatment and Armoured Shields Systems; Revalidated; Dated 05/2006.
4. CSIRO Building Products & Systems; Technical Assessment 263; TermGuard Retreatment; Revalidated; Dated 05/2006.
5. Mr Christopher E Langley; Report Deemed-To-Satisfy Termguard Reticulation Termite Management Systems Report Compliance as 3660.1:2014 & AS 3660.3:2014; Dated 30/12/2020.
6. Dr. J.R.J. French; Report evidence for comparison between Australian Standards AS 3660.1-2014 and AS 3660.3-2014; Dated November 2016.

The Certificate Holder has chosen not to make the above evidence of compliance publicly available, due to the documents being considered commercial in confidence.