



Certificate of Conformity

Certificate number: CM40186 Rev2

Certification Body:

CertMark
International
ABN: 80 111 217 568
JAS-ANZ Accreditation
No. Z4450210AK
PO Box 7144, Sippy
Downs Qld 4556
+61 (07) 5445 2199
www.CertMark.org

Certificate Holder:

Altis
TERMITE RETICULATION SYSTEM

Altis Pty Ltd
ABN: 39 050 495 399
12/547 Kessels Rd
Macgregor QLD 4109
Ph: +61(07) 3349 9274
www.altis.net.au

THIS IS TO CERTIFY THAT

Altis Termite Reticulation System

Type and/or use of product:

Termite reticulation system.

Description of product:

The Altis Termite Reticulation System is a rechargeable chemical injection system.

COMPLIES WITH THE FOLLOWING BCA PROVISIONS AND STATE OR TERRITORY VARIATION(S)

BCA 2019

	Volume One	Volume Two
Performance Requirement(s):	Not Applicable	Not Applicable
Deemed-to-Satisfy Provision(s):	B1.4(i) Termite Risk Management: Where a primary building element is subject to attack by subterranean termites	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. This certification covers the Altis Termite Reticulation System only when used with chemicals approved by the APVMA for use in Reticulation Systems. For approved chemicals please refer to the APVMA website - <http://apvma.gov.au/>.
2. Only to be installed by a licenced Pest Control Operator in accordance with relevant state and territory regulations.
3. A durable notice installed in accordance with BCA Volume One 2019: B1.4 (i)(ii), including NT variation, & BCA Volume Two 2019; Part 3.1.4.4 must be affixed in a prominent location(s) to the building, such as the meter box or the like.
4. 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.

Building classification/s:

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

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.

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.

John Thorpe - CMI

Don Grehan – Unrestricted Building Certifier

Date of issue: 17/05/2019

Date of expiry: 12/04/2021





Certificate of Conformity

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

As per page 1.

A2 Description of product

Altis Termite Reticulation System is made up of the following products:

Internal Perimeter Pre-Made

600mm x 50m Roll

- This is a 600mm wide perforated plastic sheet, fitted with two (2) runs of the dripper line fixed to the sheet.
- Each run of dripper line is spaced at 450mm apart with each run 150mm in from the outer edge.
- The roll is 50m in length.
- Suitable to form the horizontal barrier of the internal perimeter of slab and cover service penetrations for slab on ground construction.



Source: Altis Anti Termite Irrigation System - 2017 Version 5

300mm Perforated x 50m Roll

- Suitable to form the horizontal barrier of the internal perimeter of slab and cover service penetrations for slab on ground construction.
- This is a 300mm wide perforated plastic sheet, fitted with one (1) run of the dripper line fixed to the sheet.
- The dripper line is centred with this run 150mm in from the outer edge and is in a roll 50m in length.

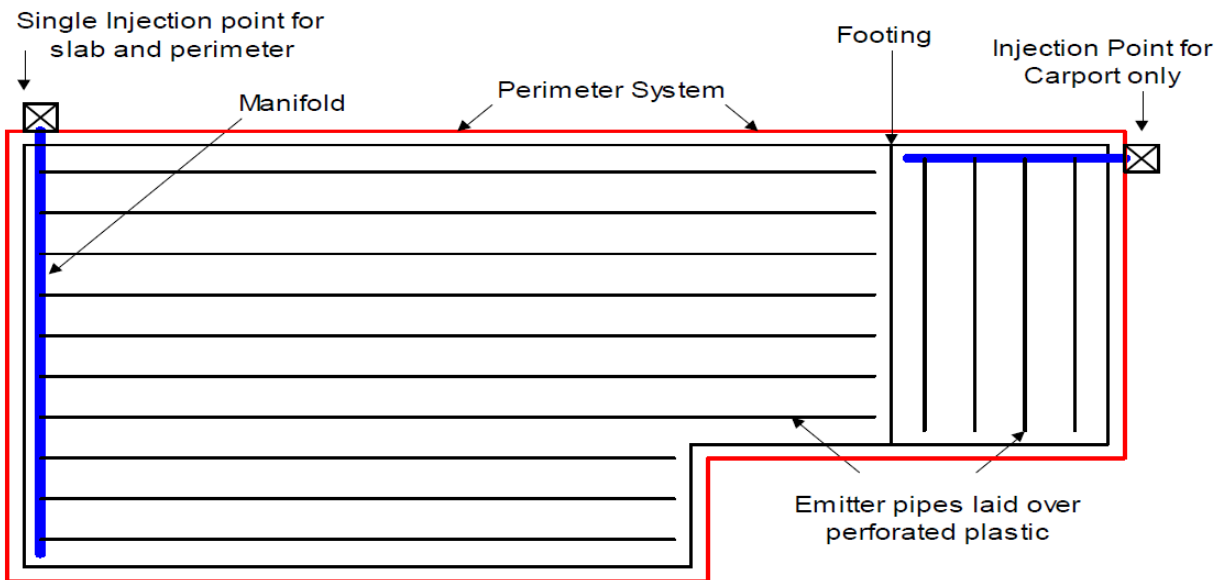


Source: Altis Anti Termite Irrigation System - 2017 Version 5

Internal Perimeter Custom Made (Full underslab installation)

2m (width) x 50m (length) Perforated Plastic & Dripper Line (Product Code 00000 & Product Code 00002)

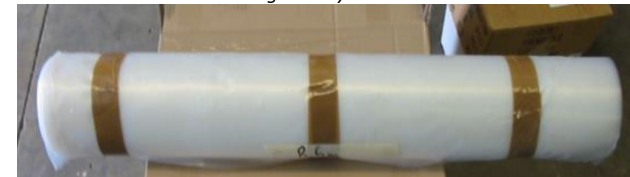
- Suitable to form the horizontal barrier of the internal perimeter and cover service penetrations for full underslab installation.
- The Certificate Holder must be contacted prior to installation.
- Flat slab with no thickenings manifold must be installed at 450mm spacing.
- Engineered slab with thickenings manifold must be installed at 300mm spacings.
- Each system must only cover a maximum of 100m².
- Pump capacity is required to be 7300L/hr for 300mm spacing or 4200L/hr for 450mm spacing.
- Calculate on 5L/m² for chemical.
- Perforated plastic must be facing down with the dripper line on the top to ensure emitters are facing downwards.



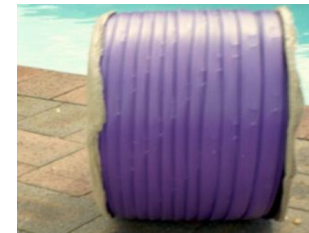
Source: Altis Anti Termite Irrigation System - 2017 Version 5



Source: Altis Anti Termite Irrigation System - 2017 Version 5



Source: Altis Anti Termite Irrigation System - 2017 Version 5



Source: Altis Anti Termite Irrigation System - 2017 Version 5

External Perimeter Pre-Made

150mm x 50m Roll

- A 150mm wide perforated sheet, fitted with one (1) run of the dripper line fixed to the sheet.
- The run of dripper line is centred 75mm in from the outer edges and is in a roll 50m in length.
- Suitable for barriers at a depth 0-100mm, using the 150mm perforated in the horizontal plane.



Source: Altis Anti Termite Irrigation System - 2017 Version 5

300mm Unperforated x 50m Roll – Dam Wall

- A 300mm wide unperforated sheet, fitted with one (1) run of the dripper line fixed to the sheet.
- The run of dripper line is 75mm in from one outer edge.
- The dripper line can be at the base if the sheet can cover the full trench or on the outer soil wall, being 75mm below the finished soil level.
- This will form a treatment area 150mm wide and to a depth of 300mm.
- Available in 50m in lengths.
- Suitable for barriers at a depth 100-300mm, using the 300mm unperforated as a dam wall.



Source: Altis Anti Termite Irrigation System - 2017 Version 5

Dripper Line Fittings

Inline joint

- Suitable fitting to join two pieces of dripper line together.
- No clips required as the blue slip lock joints provide the necessary seal.
- Sold in bags of 25.

Stop end

- Suitable fitting to put on the dripper line at the end of a run.
- No clips required as the blue slip lock joints provide the necessary seal.
- Sold in bags of 25.

90° joint

- Suitable fitting to put on the dripper line to go around 90° corners.
- No clips required as the green slip lock joints provide the necessary seal.
- Sold in bags of 25.

T joint

- Suitable fitting to link the dripper line into penetrations also can be used to go around external pipes and penetrations.
- No clips required as the green slip lock joints provide the necessary seal.
- Sold in bags of 25.

45/135 joint

- Suitable fitting to put on the dripper line to go around bay windows.
- No clips required as the green slip lock joints provide the necessary seal.
- Sold in bags of 25.

Purple Manifolds

Multi manifold single/double

- Suitable to link the system to a pump up point.
- For an external perimeter installation for up to 100Lm used for 150mm external perimeter and 300mm unperforated (dam wall) and also for 300mm economy under slab.
- Pre-assembled single/double manifold kit includes with 4 x 25mm herbie clips and a pump-up tag all in a bag.

Purple manifold complete double 600mm take off

- Suitable to link the system to a pump up point.
- For an internal perimeter installation up to 100Lm.
- Pre-assembled double manifold kit includes with 4 x 25mm herbie clips all in a bag.

Pump Up Fittings

Square pathway trap

- This is to allow the manifold pump up point to be concealed.
- This is lockable and is the recommended pathway trap.
- It comes with two (2) screws and requires an Allen Key to tighten.

Pump up tags

- This tag can be attached to the manifold to indicate the length of dripper line runs that have been installed.
- It enables the installer to ensure that the system is not under or over serviced when charging with Termiticide.

Other Items

Wall plates

- As part of the CSIRO opinion (Technical Assessment 222, Rev. May 2006) for systems installed in QLD where a concrete mowing strip is prescribed.
- Use of the wall plates allows the system to be installed without a mowing strip.
- These must be placed on each face of the perimeter of the building no more than 6 metres apart.

Remote Control Pressure Unit (RCPU) with Pressure gauge and 1 tap

- This tool is used for pumping up the Altis Reticulation System.
- It is connected to the pump-up fitting in the pathway trap.
- The tap enables you to control the pressure.
- It is recommended that you use a Flow Meter in conjunction with this fitting.

A3 Product specification

Altis Termite Reticulation System is designed to deliver APVMA approved Termiticides (in accordance with AS 3660:2014 series) with a particle size less than 100 microns, to under slab areas and to the external perimeter of structures for the purpose of deterring concealed subterranean Termite entry into buildings.

A4 Manufacturer and manufacturing plant(s)

Altis Pty Ltd
12/547 Kessels Road
Macgregor QLD 4109

A5 Installation requirements

1. The Altis Termite Reticulation System is only to be installed by Licenced installers trained and approved by Altis Pty Ltd.
2. The Altis Termite Reticulation System is only to be installed in accordance with the Installation and injection procedures for [Altis Anti Termite Irrigation System - 2017 ver 5](#).
3. Only APVMA registered chemical termiticides that comply with AS 3660.3:2014 may be used with the Altis Termite Reticulation System. These chemical products shall be used in accordance with the approved label.
4. The concrete slab must be constructed in accordance with the requirements of AS 2870-2011 Residential Slabs and footings, or AS 3660-2009 Concrete structures (Up to Amendment 2).
5. Inspections are to be undertaken annually in accordance with the Installation and Injection Procedures for Altis Anti Termite Irrigation System - 2017 ver 5.
6. A certificate of installation in accordance with AS 3660.1:2014 section A3 must be issued (see A6 for further details).

A6 Other relevant technical data

The Certificate of Installation for the Altis Termite Reticulation System must include full details of the system including the following:

1. The name of the chemical product used, the service life on the manufacturer's product label and, if applied as a liquid, the total volume used. The locations of chemical application with area, in metres squared, and perimeter and linear applications, in metres. The maximum pressure to be applied in replenishing the system, as specified by Altis, shall be prominently displayed on the Certificate of Installation, along with the volumes of Termiticides required at each fill point.
2. The date the work was completed.
3. The extent of the Altis Termite Reticulation System provided and whether a single system or integrated system has been applied.
4. A diagram to show the location of the Altis Termite Reticulation System components.
5. Altis specifications for the scope and frequency of future inspections for termite activity (see AS 3660.2:2014).
6. Any limitations to the installation of the system or the ability to maintain or inspect system components, which may have occurred due to the design or construction of the building or the requirements of the person soliciting the work.
7. Advice for maintaining the Termite Management System, where appropriate (see AS 3660.2:2014).
8. Contact details for further information on the system and the installer who performed the installation, including the name of the person responsible for that installation.
9. For concrete slabs used as part of a Termite Management System, the builder or concreter's certification of concrete slab compliance with AS 2870-2011 or AS 3600-2009. The type(s) of concrete slab used (e.g. raft, infill, formed-void, tied, etc.) and any slab inclusions present, such as heater wires or pipes and sub-slab water storages in metres.
10. Where a slab requires additional works, the number of slab penetration treatments, the number and total length of slab joints treated, in metres, and any works to discontinuities in the slabs or to the edges of slabs.
11. Details of works to suspended floor, including, minimum clearance under floor, in millimetres, minimum clearance under fixtures, in millimetres, details of grading and drainage to prevent ponding, the presence of subfloor ventilation installed in accordance with the NCC and the treatment applied to piers/stumps/pillars and similar structure.
12. Works to the building perimeter, including where systems have been applied internally or externally, and the length of perimeter treated, in metres.

APPENDIX B – EVALUATION STATEMENTS

B1 Evaluation methods

1. Termite Risk Management – A5.2(1)(d) Reports from a NATA accredited testing bodies.

B2 Reports

- a. AgriSolutions; NATA Accreditation No. 14951; Report No. ASA-11-158(a) - Analytical test on the Efficacy of the Altis Reticulation System; Dated 17/06/2012.
- b. AgriSolutions; NATA Accreditation No. 14951; Report No. ASA-11-158(b) - Analytical test on the Efficacy of the Altis Reticulation System; Dated 17/06/2012.
- c. AgriSolutions; NATA Accreditation No. 14951; Report No. ASA-11-158(c) - Analytical test on the Efficacy of the Altis Reticulation System; Dated 17/06/2012.
- d. AgriSolutions; NATA Accreditation No. 14951; Report No. ASA-11-158(d) - Analytical test on the Efficacy of the Altis Reticulation System; Dated 17/06/2012.
- e. AgriSolutions; NATA Accreditation No. 14951; Report No. ASA-11-158(e) - Analytical test on the Efficacy of the Altis Reticulation System; Dated 17/06/2012.
- f. CSIRO; Technical Assessment No.222; ALTIS standard partial anti-termite irrigation system; Dated May 2006.

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