

A STATEMENT OF COMPLIANCE ON PROTECTANT™ TERMITE BARRIER SYSTEM - January 2020.

STATEMENT PREPARED FOR THE WHITE ANT COMPANY PTY. LTD.

Prepared by

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*Technical consultancy on varied Deemed-to-Satisfy termite management systems and Alternative Solutions for termite management systems to meet the performance requirements under the NCC-(National Construction Code) and Australian Standards.

*Technical consultancy for new termite management systems in compliance for Certificate of Conformity under the Code Mark Accreditation Scheme.

* Technical consultancy for compliant termite management system/s for the QBCC-(Queensland Building & Construction Commission) to new building work, Commercial & Residential.

23rd January 2020

1.0 EXECUTIVE SUMMARY

- 1.1 In the manufacture of the geotextile material employed in the White Ant Co / Protectant™ Termite Barrier System (herein referred as a System) there is a solvent based format. It is my understanding the polymer is impregnated with the termiticide Bifenthrin at 5.2 g/kg that repels and kills termites and has a current AVPMA registration, issued in 2007.
- 1.2 The System incorporates a geotextile that has been manufactured without variation to the strict guidelines of Quality Control, Chain of Custody, Stock Control, and Installation Manual Guide 2013 version 1.2 revised in 2018 and meets the requirements of Code Mark Accreditation, having a current Certificate of Conformity.
- 1.3 I have reviewed and appraised the System as to whether this system including components of the system complies with the NCC (National Construction Code) as a performance based Alternative Solution and to requirements of the relevant Australian Standards. In my opinion, this system does comply with NCC and Standards and meets the Performance Requirements.

2.0 STANDARDS and NCC COMPLIANCE

- 2.1 The performance requirements under NCC (National Construction Code) - 2019, BCA Volume One and Volume Two and the requirements under the relevant Australian Standards are met for the following reasons:-
 - (a) Installation procedures in the System Installation Guide 2013 v1.2 and reviewed 2018 were clear, precise, addressed components of the system and complied with Australian Standard AS 3660.1-2014 Termite management, Part 1: New building work in Section 5 - Sheet Materials.
 - (b) Complied with Australian Standard AS 3660.2-2017 Termite management Part 2: In and around existing buildings and structures - Guidelines in Section 5 - Termite Management Actions.
 - (c) Complied with Australian Standard AS 3660.3-2014 Termite management Part 3: Assessment criteria for termite management systems in Section 4.2 - Resistant sheet materials and Section 5 - Test method for chemical termite management systems, Part 5.5 - Treated sheet, through bio-assay Laboratory Testing and Department of Primary Industry Field Trial Testing data.
 - (d) Complied with Australian Standard AS 2870-1996 Residential slabs and footings – Construction and AS 3600 Concrete Structures for installation to slab joints, penetrations, and perimeter where slab edge exposure is concealed and beneath whole of slab, slab joints, penetrations, in-filled slab perimeter joints respectively.

- (e) The System described in the Installation Manual - Guide 2013 version 1.2 revised in 2018 and installed under the conditions listed therein will satisfy the NCC-2019, BCA Volume one and Volume Two requirements in section *Evidence of Suitability* which provides a Declaration of System Design Life and meets the performance requirements P2.1.1 (in Qld P2.1.3), 3.1.4.2 (in Qld 3.1.4.2), (in N.T. 3.1.4.2 (b)(v)) and 3.1.4.3 (in Qld 3.1.4.3).
- (f) The System includes provision for the use of Unplasticized poly(vinyl chloride) – (PVC) having a minimum thickness of 1 mm and a minimum hardness shore D 80 (*instantaneous*) as a termite resistant material for slab penetration protection and perimeter protection application (cast-in method and in-filled slab), being a component of the System as a penetration collar.
- (g) A previous CSIRO (Accredited Testing Laboratory) Appraisal - Technical Assessment 321 dated October 2005 stated that the System does comply with the above mentioned Standards (see (a), (b), (c)), laboratory and filed evaluations showed efficacy of this System in preventing subterranean termites breaching this physical/chemical termite barrier.
- (h) The Queensland Department of Primary Industries field evaluation of the System as a physical/chemical termite barrier to prevent subterranean termite breaching commenced in Townsville on October 2006. On inspection in November 2007 non-breaching of the termite barrier was confirmed by the absence of termites and/or mud packing on the feeder material enclosed by the test barrier (see B. C. Peters and C. J. Fitzgerald - 2007, inspection report - 12 months). The field trial results are valid then and remain valid today.

The System was tested in laboratory and field bio-assays against subterranean termite species *Coptotermes acinaciformis* and *Mastotermes darwiniensis*. The non-breaching of the System proves the effectiveness of the System in preventing subterranean termite breaching of installations.

- (i) The AVPMA (Australian Pesticides and Veterinary Medicines Authority) have issued a permit (Number Per 9952, 7th September 2007) registering the use of Bifenthrin as the active ingredient in the following products:-

- (1) Protectant TM Wall Sheet,
- (2) Protectant Tm Termite Barrier,
- (3) Primer Coat AD-TR-SOL-RED,
- (4) Adhesive coat AD-ULETH-TR NTH

These products are manufactured under license. Bifenthrin in the System at 5.2g/kg is toxic against subterranean termite species *Coptotermes acinaciformis* and *Mastotermes darwiniensis*.

- (j) The impregnated active ingredient (bifenthrin) that repels and kills termites is in fixed format, solvent based within the geotextile material, where it cannot be leached out by physical processes, such as washing; or by natural phenomena, such as rain.
- (k) The System's Installation Guidelines including inspections are clear and comprehensive and emphasize that only Accredited Installers employed by the White Ant Company Pty Ltd are permitted to install the system.
- (l) Diagrams throughout the System's Installation Guidelines are clear and precise, as are the instructions for checking equipment.
- (m) Currently the System has a Code Mark International Certificate of Conformity (Number CM40036 Rev1) and the purpose of this Statement of Compliance is to present updated information pertaining to the System.

3.0 DOCUMENTS RELIED UPON

- 3.1 All material referred to in this Statement except Australian Standards are located readily in the Documents section of The White Ant Company Pty Ltd website; www.protectantpestmanagement.com
- 3.2 NCC - 2019, BCA Volume One and Volume Two.
- 3.3 Australian Standard AS 3660.1-2014, Termite management Part 1: New building work.
- 3.4 Australian Standard AS 3660.2-2017, Termite management Part 2: In and around existing buildings - Structures.
- 3.5 Australian Standard AS 3660.3-2014, Termite management Part 3: Assessment criteria for termite management systems.
- 3.6 Australian Standard AS 3600 series, Concrete structures.
- 3.7 Australian Standard AS 2870-1996, Residential slab and footings – Guidelines.
- 3.8 Alfa Test Pty Ltd, a Study into Adhesive Properties of the System.
- 3.9 Agri Solutions Australia, a Study into the Leaching Properties of the System components in water.
- 3.10 DPI full report Field Evaluation at Townsville Field Trials of the System to prevent subterranean termite ingress.
- 3.11 DPI Inspection Report of Townsville Field Trials at 48 months.
- 3.12 Peel Street Report, a material Evaluation Report on Adhesives; Primer Coat AD-TR-SOL-RED and Adhesive coat AD-ULETH-TR NTH.
- 3.13 CSIRO Technical Appraisal 321, dated October 2005.
- 3.14 System Certificate of Conformity, number CM40036 Rev1.

4.0 CONCLUSION

4.1 It is my qualified opinion, the White Ant Company Pty Ltd / Protectant ™ Termite Barrier System has by reason of updating information as contained herein, demonstrated compliance with the requirements to the relevant Australian Standards and the Performance Requirements in relevant sections of the National Construction Code. If you have any questions please do not hesitate to contact me.

Yours Faithfully

Christopher E. Langley

A handwritten signature in black ink that reads "C E Langley". The signature is written in a cursive, flowing style.

Managing Director