TECHNICAL ASSESSMENT 302

October 2002

Termicide Frizbee

PURPOSE

A physical barrier against subterranean termite entry at vertical penetrations in a concrete slab on ground

APPLICANT

Termicide Pty Ltd (ABN 18 003 608 018), 63 Errol Avenue, Paradise Point, Queensland 4216 (Distributor)



TECHNICAL OPINION

In the opinion of CSIRO Appraisals, Termicide Frizbee will satisfy the performance requirements of Standards Australia, AS 3660-2000 'Termite management. Part 1. New building work' as a suitable physical barrier against subterranean termite entry at vertical penetrations in a concrete slab on ground, under the following conditions;

1. The Termicide Frizbee is installed in accordance with the instructions supplied with each fitting – 'Installation Instructions for Termicide Collars' (30th September 2002).

2. The Termicide Frizbee components are manufactured to the specifications supplied by Termicide Pty Ltd.

3. The Termicide Frizbee has not less than 20 mm of concrete around the external face of the collar.

4. A durable notice (in accordance with BCA requirements (Clause B1.3 (i)(ii) Volume 1 and Part 3.1.3.2 (b), Volume 2) is attached to the building which states that Termicide Frizbee is installed.

5. When used in conjunction with other termite barriers, all treatment complies with the performance requirements of AS 3660.1-1995 'Protection of buildings from subterranean termites Part 1: New buildings' (Amdt 1 December 1996).

Notes:
(i) The Building Code of Australia draws attention to the need for regular inspections.
(ii) Installation of any type of termite barrier cannot guarantee a 100% protection against infestation by subterranean termites. Thus, the installation of a physical barrier does not negate the need for regular competent inspections. Any additions, alterations or earth works, including gardening adjacent to the building, may render the barrier ineffective. Such activity should be referred to a licensed installation contractor for appropriate advice and treatment.

BUILDING CODE of AUSTRALIA 1996

In the opinion of CSIRO Appraisals, the system described in this Technical Assessment and installed under the conditions listed herein will satisfy the performance requirements of Clauses B1.3 (Volume 1- Class 2- 9 buildings) and Clause P2.1 'Structure' (b) 'other actions' (Volume 2 - Class 1 and Class 10 buildings Housing Provisions) of the Building Code of Australia (1996) (including all Amendments up to 11). The 'other action' is damage by subterranean termites through junctions in other termite resistant materials.

Notes:
(i) The inclusion of this clause with reference to the BCA is aimed at assisting those involved in the building approval/permit process relate the Appraisal to the relevant regulations.
(ii) Any changes made to the BCA will be reviewed during the term of validity of this Technical Assessment and where necessary, any amendment required will be published on the CSIRO Appraisals web pages on http://www.dbce.csiro.au.

RELATED INFORMATION

VALIDITY OF THE ASSESSMENT

Condition:
This Technical Assessment applies only to the use of Termicide Frizbee as described herein.

Withdrawal:
This Technical Assessment will be withdrawn or amended if CSIRO Appraisals considers that a change in design or manufacturing quality renders the basis of appraisal invalid, or if reported field experience convinces CSIRO Appraisals of unsatisfactory quality or performance.

Term of Validity:
This Technical Assessment will lapse three years after the date of issue unless revalidation has been requested and granted (see back page).

RELEVANT DOCUMENTS

Termicide Pty Ltd, 'Installation instructions for Termicide Collars' (30th September 2002)

Standards Australia, AS 3660-2000, 'Termite management Part 1. New building work'

APPROVED ASSESSMENT EXTRACT

Termicide Frizbee as distributed by Termicide Pty Ltd (ABN 18 003 608 018), Paradise Point, Queensland 4612, will satisfy the performance requirements of AS 3660-2000, 'Termite management Part 1. New building work' as a suitable physical barrier against subterranean termite entry at vertical penetrations in a concrete slab on ground when the conditions of CSIRO Appraisals Technical Assessment 302 are fulfilled.

APPRAISAL

DESCRIPTION

The following description is based on information provided by the applicant.

General:
Termicide Frizbee consists of plastic disks placed around the pipe fitting. Termicide Frizbee is fitted prior to the slab being poured.

Component:
The component is manufactured from polypropylene. They are made with an internal diameter slightly under the outside diameter of the pipe to ensure a tight fit.

Sizes:
Termicide Frizbee is manufactured in 40, 50, 80 and 100 mm diameter sizes.

Installation:
Fitting is done by the plumber in accordance with the instructions, 'Installation instructions for Termicide Collars' (30th September 2002). They are slid down over the pipe so the flange is at the mid point of the slab depth.

DESIGN INFORMATION

General:
Based on information from the applicant, Termicide Frizbee is a polypropylene disk that is placed around penetrations in a concrete slab on ground. Termicide Frizbee is fitted prior to the slab being poured.

Inspections:
Inspections of installations will be undertaken as soon as the product is in use in Australia.

Durability:
In the opinion of CSIRO Appraisals, the life expectancy of the Termicide Frizbee would be not less than the service life of the concrete floor provided that it is installed in accordance with the requirements of this appraisal.

BASIS OF APPRAISAL

CSIRO Appraisals has assessed the following aspects in undertaking this appraisal:

(a) installation procedures,
(b) physical properties,
(c) relationship to AS 3660-2000, 'Termite management Part 1. New building work'

The following documents and inspections were used in carrying out the appraisal:

Manufacturer's and Installation Information:

1. **Termicide Pty Ltd, 63 Errol Ave, Paradise Point, Queensland 4216 Facsimile (30th September 2002).**
   This contained details of the quality control of the manufacture of the product, the sizes and installation instructions.

2. **Termicide Pty Ltd, 63 Errol Ave, Paradise Point, Queensland 4216 Facsimile (5 August 2002):**
   This gives the specifications for the polypropylene used to manufacture the collar. It has a Rockwell hardness of 92, which is well above that considered the minimum to prevent attack by subterranean termites.

3. **QUALITY CONTROL:**
   The applicant has confirmed that the manufacturers of the product are quality assured or have appropriate systems and checks in place.



Paul G Bailey
CSIRO Appraisals

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- Technical Assessments – full fitness for purpose appraisals of innovative products, systems or materials that may or may not be covered by Australian Standards or building regulations.
- Interim Reports – appraisals of products that have not yet reached the fully developed or manufacturing phase. They aid with product development and may be used as a step towards a subsequent Technical Assessment.
- Certification Assessments – appraisals of products, systems or materials solely against the requirements of the BCA and used for gaining approval from Federal or State authorities.

From 1978, under the auspices of the Australian Building Systems Appraisal Council (ABSAC), CSIRO ran an appraisal service in conjunction with the Australian Institute of Building Surveyors, the Housing Industry Association, the Insurance Council of Australia and the Master Builders Association. In 1999, CSIRO Appraisals was formed to continue the business of ABSAC under the sole patronage of CSIRO. This new scheme retains the committee structure of technical and interstate advisers that operated as ABSAC. All past ABSAC publications and appraisals are being continued and supported by CSIRO Appraisals.

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Each Technical Assessment has been prepared by CSIRO Appraisals and then reviewed, revised and finally endorsed by the Technical Advisory Committee (TAC), detailed below. CSIRO makes the appraisals on a national basis by obtaining input from regional committees in each State and Territory to take account of variations in local building regulations, practice and local climatic features.

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14. ABSTRACT *(CSIRO Appraisals Approved Assessment Extract)*

Termicide Frizbee as distributed by Termicide Pty Ltd (ABN 18 003 608 018), Paradise Point, Queensland 4612, will satisfy the performance requirements of AS 3660-2000, 'Termite management Part 1. New building work' as a suitable physical barrier against subterranean termite entry at vertical penetrations in a concrete slab on ground when the conditions of CSIRO Appraisals Technical Assessment 302 are fulfilled.