

0184P TERMSHIELD TERMITE MANAGEMENT

Branded worksection

This branded worksection *Template* has been developed by NATSPEC in conjunction with **TermShield Pty Ltd** (the Product Partner) and may be used whilst the Product Partner is licensed to distribute it. The copyright remains with NATSPEC. As with all NATSPEC worksections, it is the responsibility of the user to make sure it is completed appropriately for the project. The user should also review its applicability for local conditions and regulations. Check www.natspec.com.au for the latest updated version.

Worksection abstract

This worksection *Template* is applicable the TermShield Termite Management System.

Guidance text

All text within these boxes is provided as guidance for developing this worksection and should not form part of the final specification. This *Guidance* text may be hidden or deleted from the document using the hidden text *Hide* and *Delete* functions of your word processing system. For additional information visit FAQs at www.natspec.com.au.

Optional style text

Text in this font (blue with a grey background) covers items specified less frequently. It is provided for incorporation into *Normal* style text where it is applicable to a project.

Related material located elsewhere in NATSPEC

If a listed worksection is not part of your subscription package and you wish to purchase it, contact NATSPEC.

Related material may be found in other worksections. See for example:

- 0314 *Concrete in situ* for concrete slab used as a termite management system.

Documenting this and related work

You may document this and related work as follows:

- Termite management systems are not described elsewhere. Coordinate with other worksections, such as 0222 *Earthwork*, 0314 *Concrete in situ*, 0331 *Brick and block construction*, 0381 *Structural timber* and 0382 *Light timber framing*.
- Slabs on ground: Coordinate with the concrete worksections where slabs on ground to AS 2870 or AS 3600 are used as part of the termite control system. AS 3660.1 cites both standards for this purpose and advises that, if using AS 3600, due regard must be given to minimising shrinkage cracking.
- For structural elements below the termite management system and for suspended floors, see AS 3660.1 Section 3.
- Termite resistant materials used as a stand-alone method: In addition to structural elements, allow for termite resistant non-structural timber elements such as architraves, door jambs, window frames and reveals, skirtings, and fascias and barge boards.
- Site management: Allow for landscaping and site management requirements on drawings or other worksections such as surface and subsurface drainage, vegetation clearing (to plant roots) and use of fill without vegetative matter.

The *Normal* style text of this worksection may refer to items as being documented elsewhere in the contract documentation. Make sure they are documented.

Search acumen.architecture.com.au, the Australian Institute of Architects' practice advisory subscription service, for termite management and warranty periods.

Specifying ESD

Refer to the NATSPEC TECHreport TR 01 on specifying ESD.

1 GENERAL

TermShield are Australian termite specialists with extensive experience in installing physical termite management systems for residential, commercial and industrial buildings. As an Australian owned and operated company, we pride ourselves on providing a friendly, personalised and professional service for all our clients. Our expert team is trained and skilled in stainless steel physical termite management systems. TermShield is CodeMark certified and is backed by TermShield's industry first 60 Year \$1,000,000 Diamond Warranty.

1.1 RESPONSIBILITIES**General**

Requirement: Provide TermShield physical termite management systems, as documented.

Documented is defined in 0171 *General requirements* as meaning contained in the contract documents.

BCA B1.4(i) and BCA 3.1.4 only require protection for *Primary building elements*.

Performance

Objective: To achieve whole of building protection including to the following:

- Subfloor areas.
- Perimeters of concrete slabs-on-ground.
- Control joints in concrete slabs.
- Termite caps.
- Service penetrations and other vulnerable areas.

Delete if NCC level of protection only is required as defined in BCA B1.4(i) and BCA 3.1.4.

1.2 COMPANY CONTACTS

TermShield technical contact

Website: www.termshield.com.au

TermShield's website addresses the particular needs of architects, builders and home owners.

1.3 CROSS REFERENCES

General

Requirement: Conform to the following:

- *0171 General requirements*.

0171 General requirements contains umbrella requirements for all building and services worksections.

List the worksections cross referenced by this worksection. *0171 General requirements* references the *018 Common requirements* subgroup of worksections. It is not necessary to repeat them here. However, you may also wish to direct the contractor to other worksections where there may be work that is closely associated with this work.

NATSPEC uses generic worksection titles, whether or not there are branded equivalents. If you use a branded worksection, change the cross reference here.

1.4 STANDARD

General

Termite management systems: To AS 3660.1.

See AS 3660.2 for termite management in existing buildings and AS 3660.3 for assessing the effectiveness of proposed systems and the termite resistance of materials and components. For pest inspections of timber in existing buildings, see AS 4349.3.

1.5 MANUFACTURER'S DOCUMENTS

Technical manuals

Reference: TermShield Installation Manual.

Website: www.termshield.com.au/architects/

Requests for documents can be made from the website.

1.6 SUBMISSIONS

Certification

Certificate of installation: Submit certificate to AS 3660.1 Appendix A3.

Certification maintenance regime: For systems requiring post construction monitoring, provide a maintenance manual with the details of the following:

- Inspection frequency.

For example, monthly, quarterly, annually.

- Instructions for inspection of termite activity and treatment effectiveness.
- Contact details of installers and manufacturer's authorised supplier of replacement parts/components.
- Reapplication requirements.

Edit, as appropriate.

Products and materials

Product data: Submit the following manufacturer's data for each product/material:

- Construction details, material description and dimensions of individual components.
- Treatments and application procedures.

Type tests: Submit results, as follows:

Type tests are carried out off-site. However, submission of evidence of a successful type test may be called up here for requirements specified in **SELECTIONS** or **PRODUCTS**, if there are no **SELECTIONS**.

- Termite management systems to AS 3660.3.

Records

Photographic: Provide record photographs to TermShield Instruction Manual requirements, including:

- Penetrations before slab is poured.
- Slab joint installations.
- Any difficult or intricate installation procedures.

See TermShield Instruction Manual, clause 4.2.

Management system report: At the end of the defects liability period, submit a report on the efficacy and status of the termite management system.

Edit, as appropriate.

Annual inspection is recommended. Accordingly, there should be one at the end of the normal 12 month defects liability period.

Detail the tests required in **PRODUCTS** or **EXECUTION**, as appropriate, and list the submissions required here.

Subcontractors

Requirement: Submit names and details of proposed TermShield accredited installers.

Warranties

Management system warranty: Submit the TermShield manufacturer's and installer's warranty of material, workmanship and application.

TermShield offer a 60 year warranty. See Appendix 1 of the Installation Manual for terms and conditions.

1.7 INSPECTION**Notice**

Inspection: Give notice so that inspection may be made of the following:

- Completed earthworks or substrate preparation before system application/installation.
- The completed termite management system.

Amend to suit the project, adding critical stage inspections required.

Hold points, if required, should be inserted here.

2 PRODUCTS**2.1 GENERAL****Product substitution**

Other products: Conform to **PRODUCTS, GENERAL, Substitutions** in *0171 General requirements*.

The *0171 General requirements* clause sets out the submissions required if the contractor proposes alternative products. Refer also to NATSPEC TECHnote GEN 006 for more information on proprietary specification.

Product identification

General: Marked to show the following:

- Manufacturer's identification.
- Product brand name.
- Product type.
- Quantity.
- Product reference code and batch number.
- Date of manufacture.

Edit the list to suit the project or delete if not required.

2.2 PHYSICAL SYSTEMS

TermShield termite management system

Concrete slab: To AS 3660.1 Section 4.

Slab penetration and joint protection: TermShield termite management system.

AS 3660.1 clause 4.3.2.4.1 requires penetrations be fitted/treated with collars.

TermShield termite caps and sheeting: To AS 3660.1 Section 5.

Material: TermShield TS1000 steel mesh.

Components:

- TermLok cementitious parge adhesive to bond TS1000 to substrate.
- TermBlok collars to service penetrations.
- TermGrip clamps to secure the TermBlock collars.

3 EXECUTION

3.1 PHYSICAL SYSTEMS

Concrete slab

Standard: To AS 3660.1 Section 4.

TermShield termite caps and sheeting

Standard: To AS 3660.1 Section 5.

Installation: To the recommendations of TermShield Installation Manual.

3.2 COMPLETION

Termite management system notice

General: Permanently fix a durable notice in a prominent location to BCA B1.4(i)(ii) or BCA 3.1.4.4.

This sign is nominated in 0581 Signage for statutory signs. If 0581 Signage is included in the project specification delete and cross refer as appropriate.

Waste materials

Progressive cleaning: Make sure no waste materials which could attract termites remain on the site.

Completion inspection

Report: At the end of the defects liability period, inspect the termite management systems and prepare a report on their efficacy and status.

AS 3660.2 clause 3.2.4 recommends inspections at least annually.

4 SELECTIONS

Schedules are a way of documenting a selection of proprietary or generic products or systems by their properties. Indicate their locations here and/or on the drawings. Refer to NATSPEC TECHnote GEN 024 for guidance on using and editing schedules.

4.1 SCHEDULE

Termite management systems schedule

Property	TB1	TB2	TB3
Location			
Slab penetrations			
Slab control joints and footing/slab joints			
Building perimeters			
Under suspended floors			
Timber poles and posts			

TB1, TB2, TB3: These designate each instance of type or location of the item scheduled. Edit to align with the project's codes or tags. Edit codes in the **Schedule** to match those on drawings.

Refer to AS 3660.1 to assist in making appropriate selections.

Location: e.g. Raised timber floors, Concrete slabs on ground.

Slab penetrations: e.g. Stainless steel mesh.

Slab control joints and footing/slab joints: e.g. Stainless steel mesh.

Under suspended floors: e.g. Caps and strip shields.

Timber poles and posts: e.g. Stainless steel mesh pole socks.

REFERENCED DOCUMENTS

The following documents are incorporated into this worksection by reference:

AS 3660		Termite management
AS 3660.1	2014	New building work
AS 3660.3	2014	Assessment criteria for termite management systems
BCA 3.1.4.4	2019	Acceptable construction - Site preparation - Termite risk management - Durable notices
BCA B1.4(i)(ii)	2019	Structure - Structural provisions - Determination of structural resistance of materials and forms of construction

The following documents are mentioned only in the **Guidance** text:

AS 2870	2011	Residential slabs and footings
AS 3600	2018	Concrete structures
AS 3660		Termite management
AS 3660.2	2017	In and around existing buildings and structures
AS 4349		Inspection of buildings
AS 4349.3	2010	Timber pest inspection
BCA 3.1.4	2019	Acceptable construction - Site preparation - Termite risk management
BCA B1.4(i)	2019	Structure - Structural provisions - Determination of structural resistance of materials and forms of construction
NATSPEC GEN 006	2007	Product specifying and substitution
NATSPEC GEN 024	2015	Using NATSPEC selections schedules
NATSPEC TR 01	2019	Specifying ESD