

0184P TERMIMESH TERMITE MANAGEMENT

Branded worksection

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Worksection abstract

This branded worksection *Template* is applicable to the TERMIMESH termite management system which is a physical termite management system. The core standard is AS 3660.1.

How to use this worksection

This worksection *Template* must be customised for each project. See A guide to NATSPEC worksections (www.natspec.com.au) for information on *Template* structure, word styles, and completing a worksection.

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:

- *0185 Timber products, finishes and treatment* for preservative treatment of timber products.
- *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 management 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: Document landscaping and site management requirements, such as surface and subsurface drainage, vegetation clearing (to plant roots) and use of fill without vegetative matter, on drawings or in other worksections.

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 notes on the following:

- Guarantees and warranties.
- Termite management.

Specifying ESD

The following may be specified by retaining default text:

- Non-chemical termite management systems.

The following may be specified by including additional text:

- Low toxicity chemical treatments.
- Chemical free accessories, e.g. resins, grouts, mortars and collars.

Refer to NATSPEC TECHreport TR 01 on specifying ESD.

1 GENERAL

For 30 years, the TERMIMESH SYSTEM has come with unreserved guarantees for product efficacy in construction projects. TERMIMESH protects buildings as well as the reputations of architects and builders. TERMIMESH were the first to issue a warranty of substance covering workmanship, materials and consequential termite damage and continue doing so.

Only the TERMIMESH Pledge Guarantee delivers the first 10 years of protection without compulsory annual termite inspections and with the opportunity for indefinite ongoing extensions.

1.1 RESPONSIBILITIES

General

Requirement: Provide TERMIMESH termite management systems, as documented.

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

Performance

Requirement: Building protection from concealed termite attack.

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

1.2 COMPANY CONTACTS

TERMIMESH technical contacts

Website: www.termimesh.com.au.

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 timber pest inspections in existing buildings, see AS 4349.3.

1.5 MANUFACTURER'S DOCUMENTS

Technical manuals

Reference: *TERMIMESH System Training and Reference Manual*.

Technical information: www.termimesh.com.au/termimesh-specifications.

For builders: www.termimesh.com.au/for-builders.

For architects: www.termimesh.com.au/for-architects.

1.6 INTERPRETATION

Definitions

General: For the purposes of this worksection the definitions given in AS 3660.1 apply.

Edit the Definitions subclause to suit the project or delete if not required. List alphabetically.

1.7 SUBMISSIONS

Certification

Installation: On completion, submit certificate to AS 3660.1 clause A3.

Operation and maintenance manuals

Maintenance regime: For systems requiring post-construction monitoring, submit a maintenance manual including the following:

- Inspection frequency.

For example, monthly, quarterly, annually.

- Instructions for inspection of termite activity.

See AS 3660.2 Section 3.

- Contact details of manufacturer's authorised suppliers for replacement components.

Products and materials

Manufacturer's data: Submit manufacturer's data including the following:

- Product data sheet.
- Recommendations for installation.

Type tests: Submit results, as follows:

- Termite management systems to AS 3660.3.

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, when there are no SELECTIONS.

Records

Record drawings: Submit drawings identifying the locations of the installed system.

Maintenance inspection: Submit report to **MAINTENANCE, Inspection**.

Edit, as appropriate.

Subcontractors

General: Submit names and contact details of TERMIMESH SYSTEM accredited applicators.

There are 7 levels of accreditation from Level 1 Trainee to Level 7 System Development and Assessor. For an accredited subcontractor list, contact your local TERMIMESH office. See www.termimesh.com.au.

Delete if applicator details are not required.

Warranties

General: Submit warranties to **COMPLETION, Warranties**.

1.8 INSPECTION

Notice

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

- Completed earthworks or substrate preparation before system installation.
- Set out for installation of the TERMIMESH SYSTEM to control joints and all penetrations to the slab.
- Retaining walls after application of any waterproofing membrane.
- Building perimeter before installation of external brickwork, cladding or applied finishes.
- Completed termite management system before concealing.
- Termite management system at the end of the defects liability period.

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 **SUBSTITUTIONS** in *0171 General requirements*.

SUBSTITUTIONS in *0171 General requirements* 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 TERMIMESH SYSTEM

Application: Poison-free tested and CodeMark certified termite protection system that creates an impenetrable barrier to subterranean termites including:

- Concrete slab poured and cured to AS 2870 or AS 3600.
- Vertical slab penetrations.
- Construction joints and control joints.
- Building perimeters.
- As a complete termite protection system.

General

Description: A physical termite barrier comprising TERMIMESH TMA725 woven stainless steel mesh.

The TERMIMESH SYSTEM can be used to protect building perimeters, retaining walls, construction joints and all other termite entry points.

Termite caps and sheeting: To AS 3660.1 Section 5.

Collars: To AS 3660.1 clauses 4.3.2.4.2 and 5.3.6.

Certification: CodeMark certificate CM30012.

The date of expiry of this CodeMark Certificate of Conformity is 07/04/2023.

See CodeMark Certificate of Conformity for conditions and limitations. To confirm it has not been withdrawn, suspended or superseded by later issue, See register.jas-anz.org/codemark-register for the CodeMark Register of Certificates of Conformity.

TERMIMESH TMA725 woven stainless steel mesh

Description: Stainless steel mesh, woven from 0.18 mm TERMIMESH TMA725 stainless steel diameter wire and tested to AS 3660.3.

TERMIMESH TMA725 is an austenitic grade of stainless steel with a molybdenum content of more than twice that of typical Type 316 stainless steel to provide optimal corrosion resistance.

TERMIMESH TMA725 stainless steel can be woven to achieve:

- For areas without *Heterotermes vagus* an aperture size of 0.45 x 0.66 mm (40 wires per inch by 30 wires per inch).
- For protection against *Heterotermes vagus*, an aperture size of 0.45 x 0.45 mm (40 wires per inch by 40 wires per inch).

Termiparge

Description: Specially formulated termite resistant adhesive cement used to bond the mesh to concrete, masonry or other termite resistant substrates and tested to AS 3660.3.

Termiparge is a proprietary specially formulated termite resistant adhesive cement used to bond TERMIMESH to masonry, concrete and other substrates.

Termiflange

Description: Prefabricated TERMIMESH TMA725 woven stainless steel mesh with stainless steel clamps.

Termiflange is a prefabricated collar formed from the TM2 stainless steel mesh and is used in conjunction with TERMIMESH clamps to seal around pipe and cable penetrations in slabs. Termiflange is either embedded in the slab or bonded to the slab surface using Termiparge. Termiflange may also be fabricated on-site to suit non-standard penetrations or pipe clusters.

3 EXECUTION

3.1 GENERAL

Concrete slabs

Standard: To AS 3660.1 Section 4.

3.2 TERMIMESH SYSTEM

Termite caps and sheeting

Standard: To AS 3660.1 Section 5.

Installation

Requirement: Conform to the manufacturer's recommendations and the TERMIMESH SYSTEM recommendations using only TERMIMESH personnel or accredited installers.

Slab penetrations

Slab penetrations: Fit Termiflanges to all service penetrations through the slab before pouring the concrete slab.

Multiple or clustered penetrations: Fabricate Termiflanges on site to TERMIMESH's recommendations and to AS 3660.1.

3.3 COMPLETION**Termite management system notice**

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

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

Cleaning

Requirement: Clean progressively and remove from the site waste building materials that could attract termites.

Warranties

Requirement: Cover materials and workmanship in the terms of the warranty in the form of interlocking warranties from the supplier and installer.

Commercial and residential construction:

- Warranty form: TERMIMESH Pledge Guarantee.
- Warranty period: 10 years on materials and workmanship without annual termite inspections. Extendable on a continuous basis without limit.
- Value of warranty: Unlimited for termite damage.

The form(s) required should be provided as part of the contract documentation.

TERMIMESH Pledge Guarantee is exclusive to the TERMIMESH SYSTEM, developed to give architects, builders and investors a superior level of security covering materials and installation.

It offers a 10 year warranty on materials and workmanship and is not subject to compulsory annual termite inspections. The warranty can be extended yearly beyond 10 years with approved yearly termite inspections with no limit on the number of extension years. Design for access for inspection to AS 3660.1.

For full terms and conditions, refer to www.termimesh.com.au/pledge-commercial-guarantee.

3.4 MAINTENANCE**Inspection**

Requirement: At the end of the defects liability period, inspect the termite management system to AS 3660.2 clause 3.3.2.2. Prepare a report on the efficacy and status to AS 3660.2 clause 3.4.

Annual inspections are only recommended to inspect for termite bridging and is not a requirement of the 10 year warranty period.

4 SELECTIONS**4.1 TERMIMESH SYSTEM SCHEDULE****Whole of building protection**

Requirement: To the TERMIMESH SYSTEM for whole building protection.

TERMIMESH offer to provide the required specification selections upon receipt of the project drawings.

The TERMIMESH complete termite management system specification includes but is not limited to:

- All slab penetrations and openings that may allow termite entry.
- All slab joints and any areas where slab repairs or trenching may occur.
- Retaining wall areas.
- Perimeter protection.
- Under suspended floors.
- Timber poles and posts.
- Any other concealed entry points.

REFERENCED DOCUMENTS

The following documents are incorporated into this worksection by reference:

AS 3660		Termite management
AS 3660.1	2014	New building work
AS 3660.2	2017	In and around existing buildings and structures
AS 3660.3	2014	Assessment criteria for termite management systems
BCA 3.1.4.4	2019	Acceptable construction - Site preparation - Termite risk management - Durable notice
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 4349		Inspection of buildings
AS 4349.3	2010	Timber pest inspections
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	2015	Product specifying and substitution
NATSPEC TR 01	2021	Specifying ESD