

## 0184P TERMIMESH TERMITE MANAGEMENT

### Branded worksection

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### Worksection abstract

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

### 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](http://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](http://acumen.architecture.com.au), the Australian Institute of Architects' practice advisory subscription service, for termite management and warranty periods.

### Specifying ESD

The following may be specified by retaining default text:

- Non-chemical 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 the 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

Objective: Protection of the whole of the building from damage caused by termite attack.

*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

### TERMIMESH technical contacts

Website: [www.termimesh.com.au](http://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 STANDARDS

### 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: *TERMIMESH System Training and Reference Manual*.

Technical information: [www.termimesh.com.au/termimesh-specifications](http://www.termimesh.com.au/termimesh-specifications).

For builders: [www.termimesh.com.au/for-builders](http://www.termimesh.com.au/for-builders).

*For architects: [www.termimesh.com.au/for-architects](http://www.termimesh.com.au/for-architects).*

## 1.6 SUBMISSIONS

### Certification

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

### Operation and maintenance manuals

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.

- Contact details of manufacturer authorised suppliers for replacement parts/components.

### Products and materials

Product data: For each product/material, submit manufacturer's data including the following:

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

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

Completion: Submit record drawings identifying the locations of the installed system.

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](http://www.termimesh.com.au).

Delete if installer/supplier details are not required.

### Warranties

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

The TERMIMESH SYSTEM offers an initial 10 year warranty. 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.

## 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.
- 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.
- 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 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 TMA725 stainless steel woven mesh.

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

Protection for concrete slabs: To AS 3660.1 Section 4.

Termite caps and sheeting: To AS 3660.1 Section 5.

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 [www.jas-anz.org/our-directory/codemark-certified-organisations](http://www.jas-anz.org/our-directory/codemark-certified-organisations) for the CodeMark Register of Certificates of Conformity.

### TMA725 Stainless steel woven mesh

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

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

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 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 TERMIMESH SYSTEM

#### Concrete slab

Standard: To AS 3660.1 Section 4.

#### 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 Termiflange to 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.

## 3.2 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: Remove waste building materials, which could attract termites, from the site.

### Warranties

Residential construction:

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

Commercial construction:

- Warranty form: TERMIMESH Pledge Commercial Guarantee.
- Warranty period: 10 years on materials and 10 year on workmanship.
- Renewability: Renewable 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.

For full terms and conditions, refer to [www.termimesh.com.au/pledge-commercial-guarantee](http://www.termimesh.com.au/pledge-commercial-guarantee).

### Completion inspection

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

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

Whole of building protection: TERMIMESH offer to provide the required specification selections upon receipt of the project drawings.

Requirement: To the TERMIMESH SYSTEM schedule for whole building protection.

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.
- 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 3660.3	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	2015	Product specifying and substitution
NATSPEC TR 01	2019	Specifying ESD