



ICC Evaluation Service, Inc.
www.icc-es.org

Business/Regional Office ■ 5360 Workman Mill Road, Whittier, California 90601 ■ (562) 699-0543
Regional Office ■ 900 Montclair Road, Suite A, Birmingham, Alabama 35213 ■ (205) 599-9800
Regional Office ■ 4051 West Flossmoor Road, Country Club Hills, Illinois 60478 ■ (708) 799-2305

The Committee on Evaluation has reviewed the data submitted for compliance with the Standard Building Code® and the International One and Two Family Dwelling Code and submits to the Building Official or other authority having jurisdiction the following report. The Committee on Evaluation, SBCCI PST & ESI and its staff are not responsible for any errors or omissions to any documents, calculations, drawings, specifications, tests or summaries prepared and submitted by the design professional or preparer of record that are listed in the Substantiating Data Section of this report. Portions of this report were previously included in Evaluation Reports #9713 and #9713A. Copyrighted © 2002 SBCCI PST & ESI

REPORT NO.: 9713B

EXPIRES: See the current EVALUATION REPORT INDEX

CATEGORY: FOUNDATION SYSTEMS

SUBMITTED BY:

TERMI MESH USA INC.
17101 KUYKENDAHL ROAD, SUITE 270
HOUSTON, TEXAS 77068-1600
832-249-0556
www.termi-mesh.com

(WHOLLY OWNED SUBSIDIARY OF
TMA CORPORATION PTY LTD
48 CENTURY ROAD
MALAGA, WESTERN AUSTRALIA, AUSTRALIA 6090
+61 8 9249 3868)

1. PRODUCT TRADE NAME

Termimesh™ Termite Control System

2. SCOPE OF EVALUATION

Protection Against Termites

3. USES

Termimesh Termite Control System is used to provide protection against subterranean termites.

4. DESCRIPTION

4.1 General

Termimesh Termite Control System is designed to stop

subterranean termites from entering a building by blocking any entrances through the foundation. The foundation entry points of a building include all construction and control joints, cavity walls below grade, retaining walls, service pipe penetrations through slabs, blockouts in concrete, and brick/block piers. The system consists of a stainless steel mesh, stainless steel clamps and Termiparge (a specialized bonding cement) or Termibond (a specialized epoxy resin). The stainless steel mesh provides a physical barrier with the mesh holes small enough to prohibit the passage of a termite. The clamps and Termiparge or Termibond are used to close off any openings in the mesh around pipes and joints. The mesh is either cast into the concrete during the pour or bonded to concrete or masonry using the Termiparge specialized cement based adhesive or Termibond specialized epoxy resin, which bonds the mesh to concrete or masonry as "parging".

4.2 Materials

4.2.1 Termimesh - marine grade stainless steel mesh of a grade not lower than 316 (AISI 31600) made from 0.18 mm diameter wire with mesh openings of 0.66 x 0.45 mm and supplied in widths of 1200 mm and lengths of 30 m (47.24 in x 100 ft).

4.2.2 Clamps 301 Stainless Steel

4.2.3 Termiparge - a specialized bonding cement which bonds the mesh to either concrete, masonry, or other termite resistant substrates.

4.2.4 Epoxy Resins - Termibond specialized epoxy resins used for bonding of mesh to concrete, masonry, steel and galvanized or zinc alum coated steel substrates.

4.3 Quality Control - Installation

Installation of the Termimesh Termite Control System shall only be performed by accredited installers who have undergone extensive training in both how to install the System as well as understanding the habits of termites. The quality control program is administered by Termi Mesh USA Inc.

There are seven levels of installer accreditation which is valid for only two years, and is not automatically re-issued. Installers can lose their accreditation or be down graded depending on their field performance during the accredited period. Installers with low levels of accreditation are required to have all work checked by a person with appropriate accreditation. Throughout the two year accreditation period, every installer is checked on a regular basis, usually every six weeks, by a quality control officer employed by Termi Mesh USA Inc. The quality control officer can lower the level of an installer's accreditation or, in extreme circumstances, have the accreditation revoked.

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**5. INSTALLATION**

**5.1 General**

The Termimesh Termite Control System shall be installed in accordance with the manufacturer's published installation instructions and this report. The system shall only be installed by installers trained and accredited by Termi Mesh USA Inc.; see Section 4.3 above.

The manufacturer's published installation instructions and this report shall be strictly adhered to and a copy of these instructions shall be available at all times on the job site during installation.

The instructions within this report govern if there are any conflicts between the manufacturer's instructions and this report.

**5.2 Typical Installation**

The Termimesh System can be installed under the slab on ground, in cavity walls, on the outside perimeter of cavity walls,

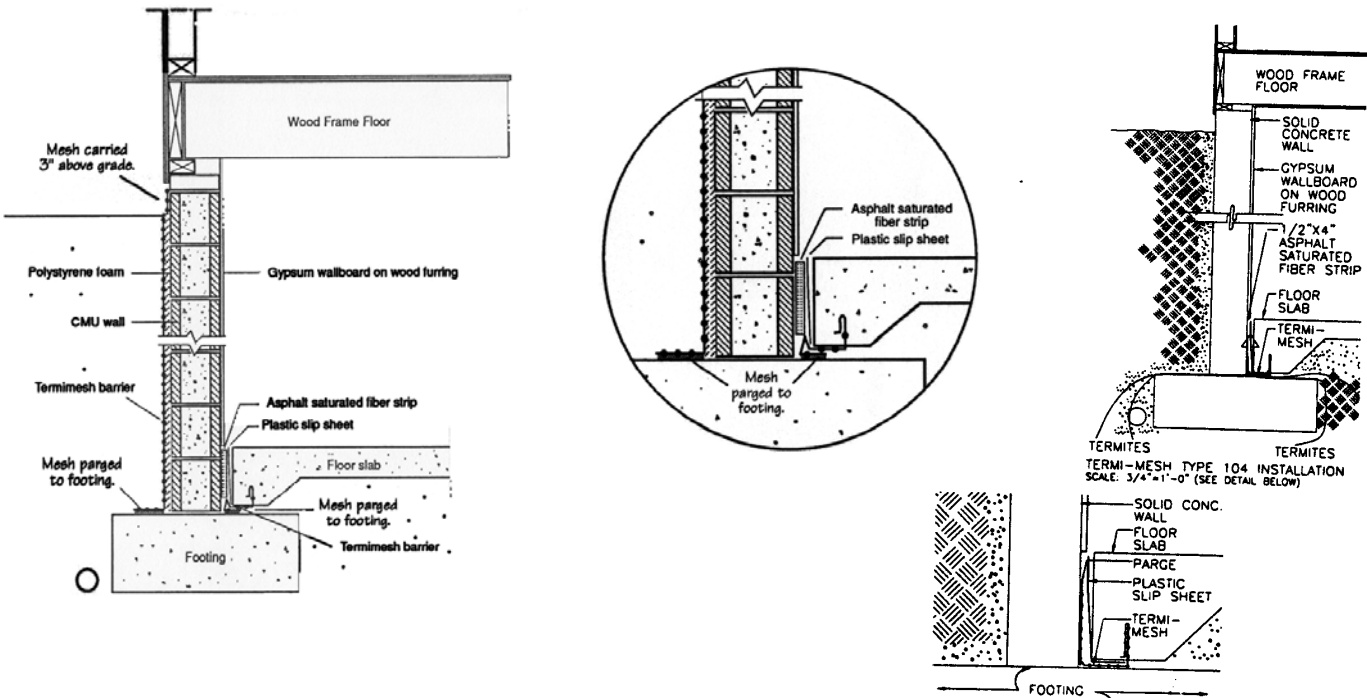
as a cold-joint installation between existing structures and over concrete masonry units and new slabs and can be installed in timber post supported structures. The mesh is joined by a 10 to 15 mm (0.39 to 0.59 inches) physical lap joint (two and a half times). This join can be strengthened by using a hot-glue gun every 500 to 1000 mm (19.69 to 39.37 inches) along the join.

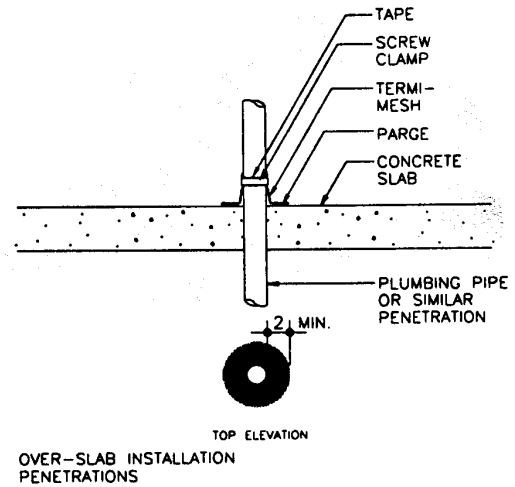
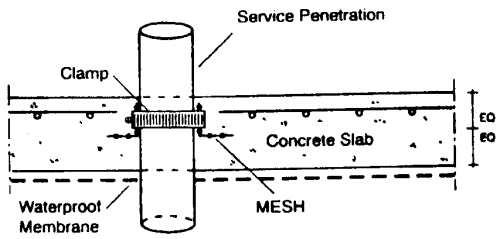
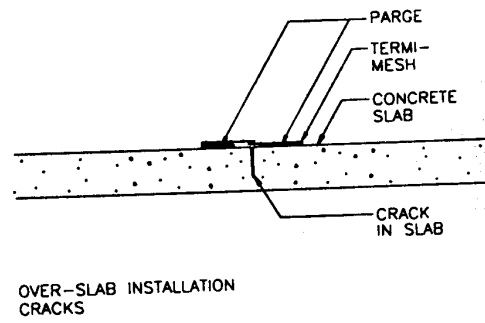
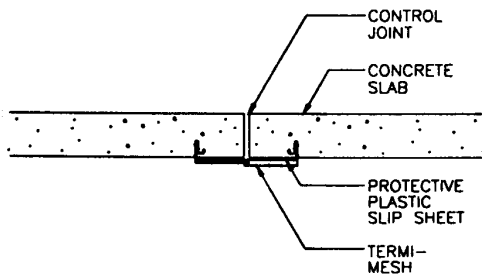
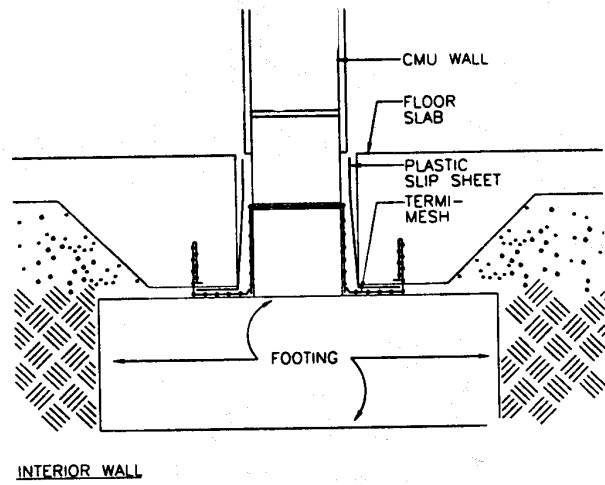
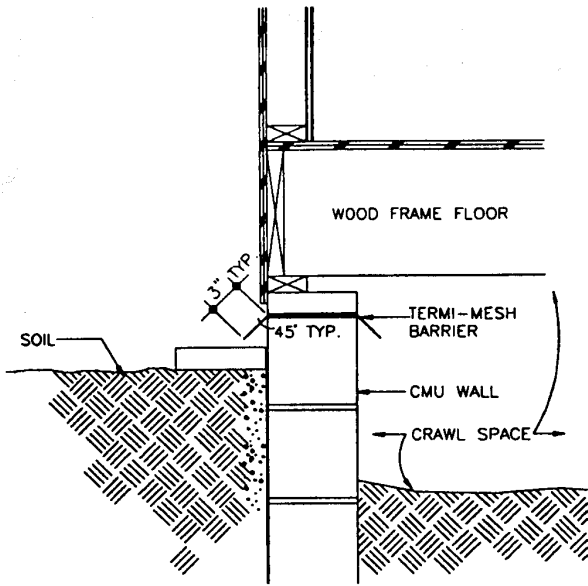
Sealing penetrations through concrete slabs is achieved by star-cutting a hole, smaller than the penetration, in the mesh and then stretching the mesh over the penetration to form a collar. The collar is secured by a stainless steel clamp to the pipe.

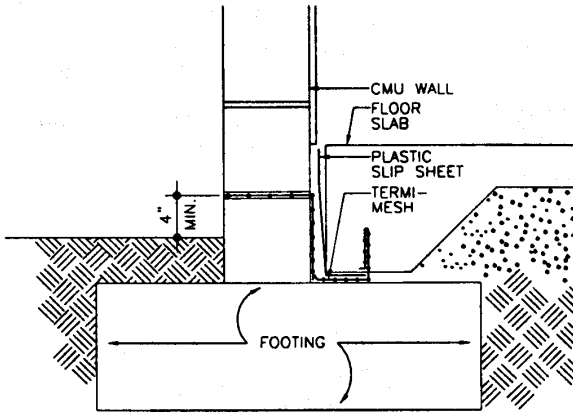
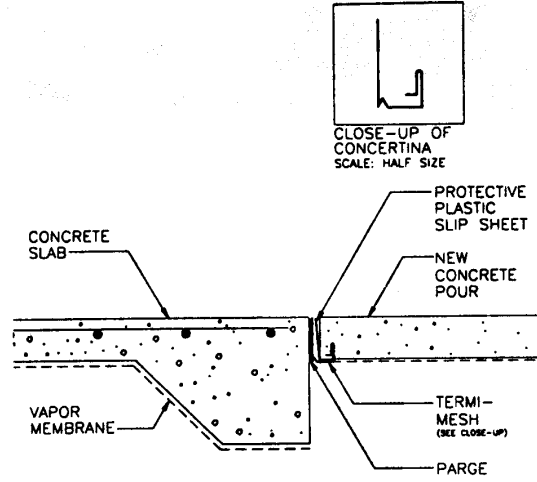
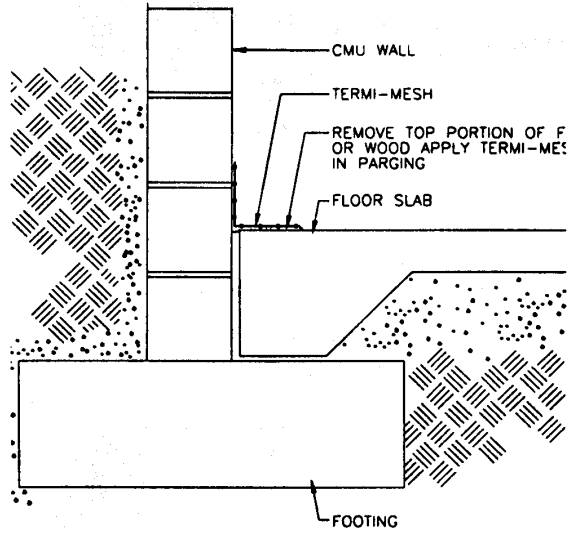
Shrinkage surface cracks in concrete slabs are not considered to be at risk from termite entry, however the decision to protect cracks with mesh, Termiparge or Termibond, is at the discretion of an accredited Termimesh supervisor (see Section 4.3 above).

Typical details of installations are shown in Figure 1. Complete details for different construction methods are included in the manufacturer's installation instructions.

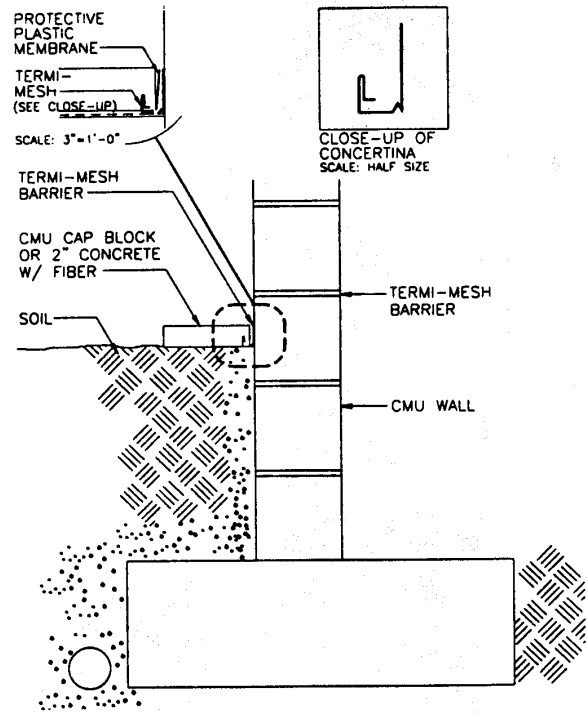
**Typical Installation Details**







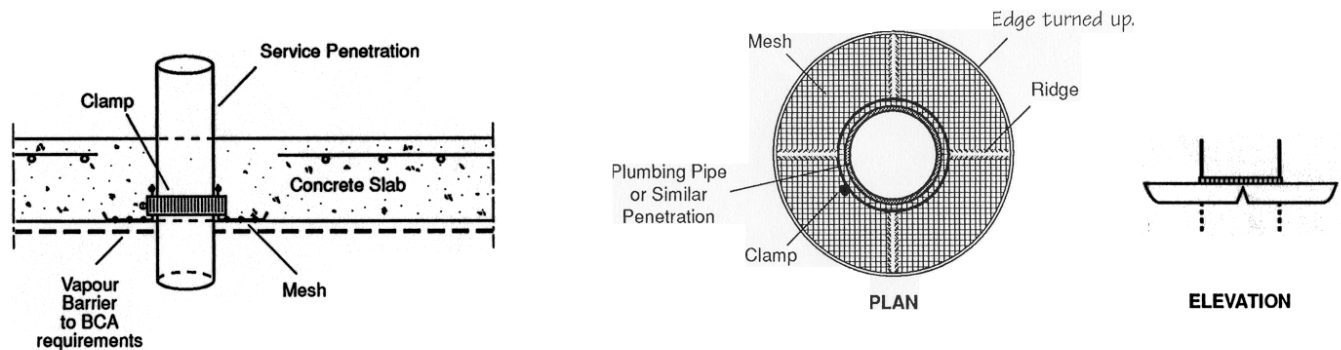
EXTERIOR WALL  
TERMI-MESH TYPE 104 INSTALLATION



## SPECIFICATION

### STAINLESS STEEL MESH INSTALLATION

# Termiflange PENETRATION PROTECTION Type 3 – Base of Slab – Pre-Pour



**NOTE:** Mesh is turned up at the outside edge to be embedded in concrete.  
The flange is installed such that it does not interfere with the vapour barrier.

#### 6. SUBSTANTIATING DATA

- 6.1 Manufacturer's descriptive literature, specifications, and installation instructions.
  - 6.1.1 Builder's Installation Notes, June 1996,
  - 6.1.2 Training Program by Wayne Banks, Quality Control TMA Corporation PTY LTD.
  - 6.1.3 ABSAC Technical Opinion 158, November 1992, Amendment 2 - May 1995.
  - 6.1.4 Mill order certificates for SS mesh and clamps.
- 6.2 Test report on four to five year field exposures, CSIRO Division of Entomology Termite Group Report No. 95/15. File No. HS 9/2/27, September 16, 1995, signed by Dr. M. Lenz and S. Runko.
- 6.3 Test reports, field exposures in Arizona, Florida, Mississippi, and South Carolina, USDA Forest Service, signed by Dr. Bradford M. Kard, Ph.D.:
  - 6.3.1 First progress report, 4510, FS-SO-4502-4.209, Problem 2, August 1995.
  - 6.3.2 3-Year Summary 1996, File code: 4500, December 13, 1996.
  - 6.3.3 Final Progress Report, 4510, FS-SRS-4502-4.209, Problem 2, March 2000.
  - 6.3.4 Letter report on mesh size used in testing, 0.45 mm by 0.66 mm, File Code 4500, December 17, 1996.
- 6.4 Test report on accelerated corrosion of stainless steel mesh under ASTM B 117, Chemistry Centre, Department of Mines Western Australia, 90T368, February 25, 1991, signed by Dr. G. W. Richardson and Dr. L.C. Yap.
- 6.5 Test report on termite resistance of parging material, field studies Termiparge, CSIRO Division of Entomology Termite Group Report No. 94/18. File No. HS 9/2/27, September 23, 1994/1996, signed by Dr. M. Lenz and S. Runko.
- 6.6 Test reports on Termiparge, The Building Research Centre University of New South Wales, prepared by John Carrick:
  - 6.6.1 Bond testing, March 1996.
  - 6.6.2 Freeze/thaw behavior, December 1996.
- 6.7 Letter report evaluating foam plastic below grade protection detail, CSIRO Building Products & Systems Appraisals, 10 June 1999, signed by Barry L. Schafer, Manager CSIRO appraisals.
- 6.8 Letter report on epoxy resins bonding material, Araldite Kit 400 and 401, CSIRO Building Products & Systems appraisals, 11 February 2000, signed by B.L. Schafer, Manager CSIRO Appraisals.
- 6.9 Specifications and Shore D hardness data for Araldite Kit K 400 and 401, CIBA Speciality Chemicals Pty. Limited manufacturer. Letter, 18 January 2000, signed by David Bieniak.

## 7. CODE REFERENCES

*Standard Building Code*® - 1999 Edition

Section 103.7	Alternate Materials and Methods
Section 2304	Protection Against Decay and Termites
Figure 2304.1.4	Termite Infestation Probability Map
Section 2603.3	Protection from Termite Damage - Foam Plastic Insulation

International One and Two Family Dwelling Code -  
1998 Edition

Section 108	Alternate Materials and Systems
Section 323	Protection Against Termites
Figure 301.2(6)	Termite Infestation Probability Map

## 8. COMMITTEE FINDINGS

The Committee on Evaluation in review of the data submitted finds that, in their opinion, the Termimesh Termite Control System as described in this report conforms with or is a suitable alternate to that specified in the *Standard Building Code*® and the International One and Two Family Dwelling Code or Supplements thereto.

## 9. LIMITATIONS

- 9.1 This Evaluation Report and the installation instructions, when required by the code official, shall be submitted at the time of permit application.
- 9.2 The system shall only be installed by installers trained and accredited by Termi Mesh USA, Inc.; see Section 4.3 of this report.
- 9.3 On the exterior of the building, the ground level including gardens, paving, paths etc. shall be at least 75 mm (3 inches) below the Termimesh barrier.
- 9.4 The mesh shall not be installed in contact with reinforcing steel or any dissimilar metals that will produce an electrolytic reaction.
- 9.5 The mesh shall not be penetrated except by trained and accredited installers.
- 9.6 A Termimesh Termite Protection Notice label shall be located at the meter box or electrical circuit breaker box. The label includes the telephone number and address for the local Termimesh Service Centre. The label provides the following instructions:
  - The system shall be inspected 3 months after completion of the installation and once a year every year thereafter.
  - Any service installed in the building after Termimesh is installed must enter above the barrier.

## 10. IDENTIFICATION

Each roll of Termimesh Termite Control System mesh, and each package of Termiparge, Temibond and stainless steel clamps covered by this report shall be labeled with the manufacturer's name and/or trademark, the SBCCI Public Safety Testing and Evaluation Services Inc. Seal or initials (SBCCI PST & ESI), and the number of this report for field identification.

## 11. PERIOD OF ISSUANCE

SEE THE CURRENT EVALUATION REPORT INDEX FOR STATUS OF THIS EVALUATION REPORT.

For information on this report contact:  
Michael P. O'Reardon, P.E.  
205/599-9800