



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 Subcommittee on Evaluation has reviewed the data submitted for compliance with the Standard Building Code® and the CABO One and Two Family Dwelling Code® and submits to the Building Official or other authority having jurisdiction the following report. The Subcommittee on Evaluation, ICC-ES 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.

REPORT NO.: 94182

EXPIRES: See the current EVALUATION REPORT INDEX

CATEGORY: EXTERIOR FINISHES

SUBMITTED BY:

PLAS-T-LATH, LLC
725 BRANCH DRIVE
ALPHARETTA, GEORGIA 30201

LICENSEE:

Plastic Components Tradename: ULTRA-LATH
9051 Northwest 97th Terrace
Miami, Florida 33178

1. PRODUCT TRADE NAME

PLAS-T-LATH

2. SCOPE OF EVALUATION

As a replacement for metal lath in exterior Portland cement plaster applications on buildings of Type VI construction.

3. USES

Plas-T-Lath is used as a plaster base for exterior applications of Portland cement plaster on wood framed walls.

4. DESCRIPTION

Plas-T-Lath is an extruded polyolefin (polyethylene or polypropylene) lath which is used as a plaster base for exterior applications of Portland cement plaster on wood framed walls. The lath has 1/4 inch (6.4 mm) x 1/4 inch (6.4 mm) square holes turned 45 degrees to the length of the lath. Plas-T-Lath is available in 27 inch (686 mm) x 96 inch (2438 mm) panels or in 27 inch (686 mm) x 100 ft (30.48 m) rolls.

Plas-T-Lath was used in the construction of three wall assemblies which were tested for transverse load capacity in accordance with ASTM E 330. The assemblies consisted of Spruce-Pine-Fir studs at 16 inches (406 mm) on center, a substrate consisting of 1/2 inch (12.7 mm) thick Styrofoam brand insulation board, Plas-T-Lath applied with its long dimension in the horizontal direction and finished with a three-coat Portland cement plaster finish. The Plas-T-Lath was nailed to the framing with galvanized roofing nails at 6 inches along each stud. The nails were of sufficient length to penetrate the framing 1 inch (25.4 mm). Horizontal overlaps of Plas-T-Lath were tied with 18 gage galvanized wire at two places between each stud. The average failure load of the three assemblies in suction was 67.6 psf (3.2 kPa), with failure being due to pullout of the fasteners from the wood frame.

5. INSTALLATION

Plas-T-Lath shall be installed in accordance with ASTM C-1063 (as required for metal plaster bases) on wood framed walls having studs spaced not more than 16 inches (406 mm) on center. Plas-T-Lath shall be installed horizontally over a substrate consisting of minimum 1/2 inch (12.7 mm) thick Styrofoam brand insulation board and attached directly to the framing with galvanized roofing nails space not greater than 6 inches (152 mm) on center along each stud. Nails shall be of sufficient length to penetrate the framing a minimum of 1 inch (25.4 mm). The ribbed side of the Plas-T-Lath shall be installed facing the substrate. Each Plas-T-Lath seam shall be overlapped a minimum of 1 inch (25.4 mm) and horizontal overlaps shall be tied with 18 gage galvanized wire at two places between studs. Application of exterior Portland cement plaster shall proceed in accordance with code requirements (ASTM C 926).

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

6. SUBSTANTIATING DATA

- 6.1 Manufacturer's specifications, drawings, and installation instructions.
6.2 Report of tests conducted in accordance with ASTM E 330, conducted by Cerny and Ivey Engineers, Inc., dated February 17, 1994, signed by Arthur C. Ivey, P.E.:
- Engineering Report 93562
- Engineering Report 93562-1
6.3 Report of tests conducted in accordance with ASTM D 543 (Resistance to Chemical Reagents), prepared by

ICC-ES legacy reports are not to be construed as representing aesthetics or any other attributes not specifically addressed, nor are they to be construed as an endorsement of the subject of the report or a recommendation for its use. There is no warranty by ICC Evaluation Service, Inc., express or implied, as to any finding or other matter in this report, or as to any product covered by the report.

Cerny and Ivey Engineers, Inc., Engineering Report 93562, dated August 11, 1994, signed by Arthur C. Ivey, P.E.

- 6.4 Letter prepared by Cerny and Ivey Engineers, Inc., dated September 9, 1994, signed by Arthur C. Ivey, P.E.

## 7. CODE REFERENCES

*Standard Building Code* - 1994 Edition

Section 103.7	Alternate Materials and Methods
Section 2303.3	Moisture Protection
Section 2501	General (Gypsum Board and Plaster)
Section 2503	Materials
Section 2504.2	Exterior Lathing and Plastering

CABO One and Two Family Dwelling Code - 1992 Edition with 1993/1994 Amendments

Section R-108	Alternate Materials and Systems
Section R-503.1	General
Section R-503.2	Exterior Lath
Section R-503.3	Exterior Plaster
Section R-503.7	Weather-resistant Membrane and Sheathing Paper

## 8. COMMITTEE FINDINGS

The Subcommittee on Evaluation in review of the data submitted finds that, in their opinion, Plas-T-Lath as described in this report conforms with or is a suitable alternate(s) to that specified in the *Standard Building Code* and the CABO One and Two Family Dwelling Code or Supplements thereto.

## 9. LIMITATIONS

- 9.1 This Legacy Evaluation Report and the installation instructions, when required by the building official, shall be submitted at the time of permit application.
- 9.2 Application of Plas-T-Lath is limited to exterior walls of Type VI construction which are not required by the Code to be fire resistance rated.

- 9.3 Application of Plas-T-Lath is limited to wood stud walls in which:

- The studs have a minimum specific gravity of 0.42 and are spaced not greater than 16 inches (406 mm) on center.
- The substrate consists of minimum 1/2 inch (12.7 mm) thick Dow Styrofoam Brand Residential Sheathing or other material having a strength and stiffness equal to or exceeding that provided by a 1/2 inch (12.7 mm) insulation board having a flexural strength of 40 psi (276 kPa), a compressive resistance of 15 psi (104 kPa), and a modulus of elasticity in flexure of 2500 psi (17.25 MPa).
- The walls are to be braced in accordance with Code requirements.
- Design wind pressures for wall surfaces do not exceed 33 psf.

- 9.4 An approved barrier, as required by Section 2303.3 of the *Standard Building Code*, shall be installed under Plas-T-Lath to provide moisture protection for wood wall materials.

- 9.5 Plas-T-Lath shall not be exposed to direct sunlight for longer than 60 days while stored on the jobsite or while installed and awaiting application of exterior Portland cement plaster.

## 10. IDENTIFICATION

All packaging of Plas-T-Lath covered by this report shall bear the manufacturer's name and/or trademark, the SBCCI Public Safety Testing and Evaluation Service Inc., Seal, and the number of this report.

## 11. PERIOD OF ISSUANCE

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

For information on this report contact:  
Gary G. Nichols, P.E.  
205/599-9800