

# ICC-ES Evaluation Report

**ESR-2247**

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This report is subject to re-examination in one year.

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**DIVISION: 09—FINISHES**
**Section: 09205—Furring and Lathing**
**REPORT HOLDER:**
**AMICO**

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**EVALUATION SUBJECT:**
**AMICO 2.5-lb FLAT DIAMOND MESH METAL LATH;  
 2.5-lb V-GROOVE DIAMOND MESH METAL LATH;  
 3.4-lb FLAT DIAMOND MESH METAL LATH;  
 3.4-lb V-GROOVE DIAMOND MESH METAL LATH;  
 2.75-lb FLAT RIB LATH; AND 3.4-lb <sup>3</sup>/<sub>8</sub>-INCH RIB LATH**
**1.0 EVALUATION SCOPE**
**Compliance with the following codes:**

- 2009 *International Building Code*® (2009 IBC)
- 2009 *International Residential Code*® (2009 IRC)
- 2006 *International Building Code*® (2006 IBC)
- 2006 *International Residential Code*® (2006 IRC)

**Property evaluated:**

Physical properties

**2.0 USES**

The AMICO products described in this report are used as reinforcement of interior or exterior cement plaster (stucco) complying with IBC Section 2507.2 or IRC Section R703.6.1.

**3.0 DESCRIPTION**
**3.1 2.5-lb Flat Diamond Mesh Metal Lath:**

The lath complies with ASTM C 847 and is manufactured from steel complying with ASTM A 653 having a G-60 galvanized coating. The lath is available in <sup>1</sup>/<sub>8</sub>-inch-thick (3.18 mm) sheets that are nominally 27 inches (686 mm) wide and nominally 96 inches (2438 mm) long, that weigh 2.5 lbs/yd<sup>2</sup> (1.4 kg/m<sup>2</sup>).

**3.2 2.5-lb V-Groove Diamond Mesh Metal Lath:**

The lath is identical to the 2.5-lb Flat Diamond Mesh Metal Lath described in Section 3.1 except that it is nominally <sup>5</sup>/<sub>16</sub> inch (7.94mm) thick and has <sup>1</sup>/<sub>4</sub>-inch (6.35 mm) raised groove protrusions fabricated into the lath.

**3.3 3.4-lb Flat Diamond Mesh Metal Lath:**

The lath complies with ASTM C 847 and is manufactured from steel complying with ASTM A 653 having a G-60 galvanized coating. The lath is available in <sup>1</sup>/<sub>8</sub>-inch-thick (3.18 mm) sheets that are nominally 27 inches (686 mm) wide and nominally 96 inches (2438 mm) long, that weigh 3.4 lbs/yd<sup>2</sup> (1.8 kg/m<sup>2</sup>).

**3.4 3.4-lb V-Groove Diamond Mesh Metal Lath:**

The lath is identical to the 3.4-lb Flat Diamond Mesh Metal Lath described in Section 3.3 except that it is nominally <sup>5</sup>/<sub>16</sub> inch (7.94 mm) thick with <sup>1</sup>/<sub>4</sub>-inch (6.35 mm) raised groove protrusions fabricated into the lath.

**3.5 2.75-lb Flat Rib Lath:**

The lath complies with ASTM C 847 and is manufactured from steel complying with ASTM A 653 having a G-60 galvanized coating. The <sup>1</sup>/<sub>8</sub>-inch (3.18 mm) Flat Rib lath is made from 0.12-inch-thick (3.5 mm) galvanized expanded metal lath with a herringbone pattern of parallelogram-shaped openings. One-eighth-inch-deep (3.2 mm) ribs, continuous in the long direction of the sheet, are equally spaced at 1<sup>1</sup>/<sub>2</sub> inches (38 mm) on center. The lath is available in <sup>1</sup>/<sub>8</sub>-inch-thick (3.18 mm) sheets nominally 27 inches (686 mm) wide and nominally 96 inches (2438 mm) long, that weigh 2.75 lbs/yd<sup>2</sup> (1.49 kg/m<sup>2</sup>).

**3.6 3.4-lb <sup>3</sup>/<sub>8</sub>-inch High Rib Lath:**

The lath complies with ASTM C 847 and is manufactured from steel complying with ASTM A 653 having a G-60 galvanized coating. The <sup>3</sup>/<sub>8</sub>-inch-high rib lath is made from 0.12 inch-thick (3.5 mm) galvanized expanded metal lath with a herringbone pattern of parallelogram-shaped openings. The lath has <sup>3</sup>/<sub>8</sub>-inch-deep (9.5 mm) ribs that are continuous in the long direction of the sheet and spaced at 4<sup>1</sup>/<sub>2</sub> inches (114 mm) on center. Intermediate stiffeners are equally spaced between the ribs. The lath is available in <sup>3</sup>/<sub>8</sub>-inch (9.5 mm) sheets that are nominally 27 inches (686 mm) wide and nominally 96 inches (2438 mm) long, that weigh 3.4 lbs/yd<sup>2</sup> (1.8 kg/m<sup>2</sup>).

**4.0 INSTALLATION**
**4.1 General:**

The AMICO expanded metal lath products described in Section 3.0 must be installed in accordance with IBC Sections 2510.3 (ASTM C 1063) and 2511.1.1 or IRC Section R703.6, with the long dimension perpendicular to supports except at gable walls on exterior installations, where the lath may be installed with the long dimension parallel to the roof slope. The laths must be furred <sup>1</sup>/<sub>4</sub> inch (6.4 mm) from the framing members or solid substrates.

#### 4.2 Fire-resistance Rating

When installation is in accordance with Section 4.1 of this report and Section 720 of the IBC, the fire-resistance rating is as noted in IBC Table 720.1 (2).

#### 4.3 Shear Walls:

When installation is in accordance with Section 4.1 of this report and Section 2306.7 of the 2009 IBC or Section 2306.4.5 of the 2006 IBC, as applicable, the allowable racking shear value is 180 plf (2627 kN/m).

#### 5.0 CONDITIONS OF USE

The AMICO laths described in this report comply with, or are suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report, provided the installation complies with this report, the manufacturer's

published installation instructions and the IBC or IRC. In the event of a conflict between the manufacturer's published installation instructions and this report, this report governs.

#### 6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for Metal Plaster Bases (Lath) (AC191), dated May 2008.

#### 7.0 IDENTIFICATION

AMICO metal lath products are identified with a tag bearing the manufacturer's name and address, product name, product description, quantity, work order number, date of manufacture, operator name or I.D. number, and the ICC-ES evaluation report number (ESR-2247).