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ESR-3896

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DIVISION: 09 00 00—FINISHES

SECTION: 09 22 36—LATH

REPORT HOLDER:

AMERICAN BUILDING INDUSTRIES, INC.

**11175 INLAND AVENUE
JURUPA VALLEY, CA 91752**

EVALUATION SUBJECT:

ABI 2.5# DIAMOND MESH METAL LATH AND ABI 3.4# ³/₈-inch SPRAY RIB LATH



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DIVISION: 09 00 00—FINISHES
Section: 09 22 36—LATH
REPORT HOLDER:

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EVALUATION SUBJECT:
ABI 2.5# DIAMOND MESH METAL LATH AND ABI 3.4# ³/₈-inch SPRAY RIB LATH

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2015, 2012, 2009 and 2006 *International Building Code*® (IBC)
- 2015, 2012, 2009 and 2006 *International Residential Code*® (IRC)
- 2013 Abu Dhabi International Building Code (ADIBC)[†]

[†] The ADIBC is based on the 2009 IBC. 2009 IBC code sections referenced in this report are the same sections in the ADIBC.

Properties evaluated:

Physical properties

2.0 USES

The ABI 2.5# Diamond Mesh Metal Lath and the ABI 3.4# ³/₈-inch Spray Rib Lath are used as reinforcement of interior and exterior cement plaster (stucco) complying with IBC Section 2507.2 and IRC Sections R702.2 and R703.6.

3.0 DESCRIPTION

3.1 ABI 2.5# Diamond Mesh Metal Lath:

The lath complies with ASTM C847, is fabricated from 0.020-inch-thick (0.51 mm) cold-formed steel complying with ASTM A366 and has a G60 galvanized coating complying with ASTM A653. The lath is ¹/₈ inch (3.18 mm) thick, 27 inches (686 mm) wide and 97 inches (2.44 m) long, and weighs 2.5 lb/yd² (1.4 kg/m²).

3.2 ABI 3.4# ³/₈-inch Spray Rib Lath:

The lath complies with ASTM C847, is fabricated from 0.015-inch-thick (0.381 mm) cold-formed steel complying with ASTM A366 and has a G60 galvanized coating complying with ASTM A653. The lath is ³/₈ inch (9.53 mm) thick, 27 inches (686 mm) wide and 97 inches (2.44 m) long, and weighs 3.4 lb/yd² (1.8 kg/m²). The lath has ³/₈-inch-deep (9.53 mm) ribs, continuous in the long direction and spaced 4 inches (102 mm) on center.

4.0 INSTALLATION

4.1 General:

Installation of the lath must be in accordance with IBC Sections 2510.3 (ASTM C1063) and 2511.1.1. The lath is installed 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 lath must be furred ¹/₄ inch (6.4 mm) from the framing members or solid substrates.

4.2 Fire-resistance-rated Construction:

When installation is in accordance with Section 4.1 of this report and 2015 and 2012 IBC Section 721 (2009 and 2006 IBC Section 720), the fire-resistance rating is as noted in 2015 and 2012 IBC Table 721.1(2) or 721.1(3) (2009 and 2006 IBC Table 720.1(2) or 720.1(3)).

4.3 Shear Walls:

When installation is in accordance with Section 4.1 of this report and 2015 and 2012 IBC Section 2306.3 and Table 2306.3(3) (2009 IBC Section 2306.7 and 2006 IBC Section 2306.4.5), the allowable racking shear value is 180 plf (2627 kN/m).

5.0 CONDITIONS OF USE

The ABI 2.5# Diamond Mesh Metal Lath and ABI 3.4# ³/₈-inch Spray Rib Lath products 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 applicable code. 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 ASTM C847-12 and the ICC-ES Acceptance Criteria for Metal Plaster Bases (Lath) (AC191), dated October 2012.

7.0 IDENTIFICATION

The lath products described in this report are packaged in bundles and pallets. Each pallet bears a label with the company name (American Building Industries, Inc.), product name, production number, and product quantity, length, and production date. Each bundle has a label bearing the company name (American Building Industries, Inc.), product name, production date, production facility, operator and the evaluation report number (ESR-3896).