

ICC-ES Evaluation Report


ESR-3065

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<p>DIVISION: 09 00 00—FINISHES</p> <p>Section: 09 22 36—Lath</p>	<p>REPORT HOLDER:</p> <p>YANTAI XUANXIANG HARDWARE CO., LTD.</p> <p>ADDITIONAL LISTEE:</p> <p>FIBRESTAR INC.</p>	<p>EVALUATION SUBJECT:</p> <p>EXPANDED METAL LATH 2.5 AND 3.4 DIAMOND LATH AND 3.4³/₈-INCH RIB LATH</p>	
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1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2021, 2018, 2015, 2012, and 2009 [International Building Code® \(IBC\)](#)
- 2021, 2018, 2015, 2012, and 2009 [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 2.5 Diamond Lath, 3.4 Diamond Lath and 3.4³/₈-inch 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 2.5 Diamond Lath:

The lath complies with ASTM C847, is fabricated from 0.0197-inch-thick (0.500 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 96 inches (2.44 m) long, and weighs 2.5 lb/yd² (1.4 kg/m²).

This product is also sold as MetalCraft 2.5 Diamond Lath and Premier Line 2.5 Diamond Lath.

3.2 3.4 Diamond Lath:

The lath complies with ASTM C847, is fabricated from 0.0236-inch-thick (0.599 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 96 inches (2.44 m) long, and weighs 3.4 lb/yd² (1.8 kg/m²).

This product is also sold as MetalCraft 3.4 Diamond Lath and Premier Line 3.4 Diamond Lath.

3.3 3.4³/₈-inch Rib Lath:

The lath complies with ASTM C847, is fabricated from 0.0157-inch-thick (0.399 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 96 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.

This product is also sold as MetalCraft 3.4³/₈ Diamond Lath and Premier Line 3.4³/₈ Diamond Lath.

4.0 DESIGN AND 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 $\frac{1}{4}$ 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 2012 IBC Section 721 (2009 and 2006 IBC Section 720), the fire-resistance rating is as noted in 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 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 expanded Metal Lath 2.5 Diamond Lath, 3.4 Diamond Lath and 3.4^{3/8}-inch 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, subject to the following conditions:

- 5.1 The products must be installed in accordance with the report holder's published installation instructions, the requirements of the applicable code and this report. In the event of a conflict between this report and the published installation instructions, this report governs.
- 5.2 The products are manufactured under a quality control program with inspections by ICC-ES.

6.0 EVIDENCE SUBMITTED

Data in accordance with the [ICC-ES Acceptance Criteria for Metal Plaster Bases \(Lath\) \(AC191\)](#), dated October 2012.

7.0 IDENTIFICATION

- 7.1 The lath products described in this report are packaged in bundles and pallets. Each pallet bears a label with the company name (YanTai XuanXiang Hardware Co., Ltd., or FibreStar Inc.), product name, production number, and product quantity, length, and production date. Each bundle has a label bearing the company name (YanTai XuanXiang Hardware Co., Ltd., or FibreStar Inc.), product name, production date, production facility, operator, and the evaluation report number (ESR-3065).
- 7.2 The report holder's contact information is the following:

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- 7.3 The Additional Listee's contact information is the following:

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