

ICC-ES Evaluation Report

ESR-3232

Issued May 1, 2012

This report is subject to renewal May 1, 2013.www.icc-es.org | (800) 423-6587 | (562) 699-0543 A Subsidiary of the International Code Council®**DIVISION: 09 00 00—FINISHES**
Section: 09 22 36—Lath**REPORT HOLDER:****BRAND X METALS, INC.**
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info@brandxmetals.com**EVALUATION SUBJECT:****DIAMOND FURR™ LATH ATTACHMENT SYSTEM****1.0 EVALUATION SCOPE****Compliance with the following codes:**

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

Properties evaluated:

Physical properties

2.0 USES

The Diamond Furr™ lath attachment system is used as an alternative method to that specified in IBC Section 2510.3 and IRC Section R703.6.1 for the attachment of metal plaster (stucco) lath to wood and cold-formed steel wall framing members.

3.0 DESCRIPTION**3.1 General**

The Diamond Furr™ lath attachment system consists of Diamond Furr™ angles, fasteners and wire ties which are used to attach 3.4-pound-per-square-yard (1.8 kg/m²), nonfurred, expanded metal lath to wall framing as the base for exterior plaster (stucco).

3.2 Diamond Furr™ Angles:

The Diamond Furr™ angles are made from No. 18 gage (0.0451 inch nominal base-metal thickness) Grade 33 steel, having a G60 hot-dipped galvanized coating and conforming to ASTM A653M. The holes for attaching the angle to the wall framing and holes for attaching the lath to the angle are illustrated in Figure 1.

3.3 Metal plaster lath:

Metal plaster lath must be 3.4-pound-per-square-yard (1.8

kg/m²), nonfurred, expanded metal lath complying with ASTM C847.

3.4 Fasteners:

Fasteners used to attach the Diamond Furr™ angles to wall framing members must be No. 8, minimum 1-inch-long (25.4 mm), zinc-plated, self-piercing, wafer-head, Type W (wood framing) or Type S (steel framing) screws complying with ASTM C1002. The fastener length must be increased by the thickness of any substrate to achieve a minimum penetration of 1 inch (25.4 mm) into wood framing and a minimum penetration of 3/8 inch (9.52 mm) into steel framing.

3.5 Wire Ties:

Wire ties must be No. 18 gage, soft temper steel wire with a Class I zinc coating complying with ASTM A641.

3.6 Plaster (Stucco):

Plaster (stucco) must be portland cement plaster complying with IBC Section 2512 or IRC Section R703.6.

4.0 INSTALLATION

Diamond Furr™ angles must be installed with the angles aligned over and parallel to wall studs spaced at a maximum of 16 inches (406 mm) on center, and installed over and parallel to all horizontal wall framing members (sill, headers and plates). The angles are installed over the water-resistive barrier and attached to the wall framing with the No. 8 screws, specified in Section 3.1.3 of this report, spaced a maximum of 16 inches (406 mm) on center. Diamond Furr™ angles must be attached to all outside and inside wall corners and at the perimeter of all wall openings.

The metal lath is attached to the Diamond Furr™ angles with the steel wire ties specified in Section 3.4 of this report spaced at 6 1/2 inches (165 mm) on center. The steel wire ties are installed with a minimum of one-half twist, with the metal lath secured at each connection point such that there is no play (looseness) in the connection. Plaster (stucco) is then applied over the metal lath in accordance with IBC Section 2512 or IRC Section R703.6.

5.0 CONDITIONS OF USE

The Diamond Furr™ lath attachment system described in this report complies with, or is a suitable alternative to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1** Installation must comply 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.

- 5.2 Use of exterior plaster wall coatings incorporating the Diamond Furr™ lath attachment system to provide racking shear resistance and wall bracing is beyond the scope of this report.
- 5.3 Use of exterior plaster wall coatings incorporating the Diamond Furr™ lath attachment system in fire-resistance-rated construction is beyond the scope of this report.

6.0 EVIDENCE SUBMITTED

Data in accordance with portions of the ICC-ES Acceptance Criteria for Metal Plaster Bases (Lath) (AC191), dated May 2008 (editorially revised January 2011), and portions of the ICC-ES Acceptance Criteria for Glass Fiber Lath Used in Cementitious Exterior Wall Coatings or Exterior Cement Plaster (Stucco) (AC275) dated April 2011.

7.0 IDENTIFICATION

The Diamond Furr™ angles are packaged in bundles and pallets with a label bearing the company name (Brand X Metals, Inc.), the manufacturing address, the product name (Diamond Furr™), and the evaluation report number (ESR-3232).

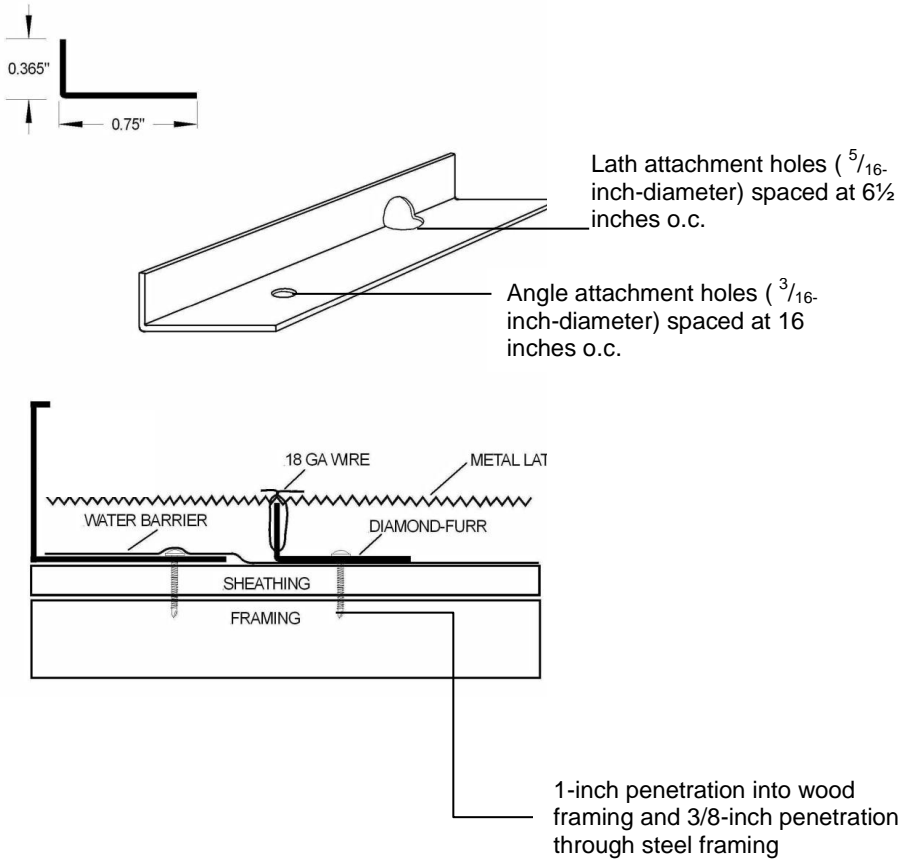


Figure 1