# Code Compliance Research Report
# CCRR-0204

**Issue Date: 04-19-2017**
**Renewal Date: 03-04-2018**

**DIVISION: 09 00 00 – FINISHES**
**Section: 09 22 36 - Lath**

**REPORT HOLDER:**
**ClarkDietrich™ Building Systems, LLC**
**9100 Centre Pointe Drive, Suite 210**
**West Chester, OH 45069**
**513-870-1100**
**www.clarkdietrich.com**

**REPORT SUBJECT:**
**ClarkDietrich™ Expanded Metal Lath and Metal Lath Accessories**

## 1.0 SCOPE OF EVALUATION

**1.1.** This Research Report addresses compliance with the following Codes:

- 2015 *International Building Code®* (IBC)
- 2015 *International Residential Code®* (IRC)
- 2014 *Florida Building Code - Building* (FBC-B) (see Section 9)
- 2014 *Florida Building Code - Residential* (FBC-R) (see Section 9)
- 2016 *California Building Code* (CBC) (see Section 10)
- 2016 *California Residential Code* (CRC) (see Section 10)

**1.2.** Metal Lath and Metal Lath Accessories have been evaluated for the following properties:

- Physical Properties

**1.3.** Metal lath and metal lath accessories described in this report comply with Section 2507.2 of the IBC, FBC-B and CBC, and Section R703.7.1 of the IRC and CRC, and Section R703.6.1 of the FBC-R for use as reinforcement for interior or exterior plaster.

## 2.0 STATEMENT OF COMPLIANCE

Metal lath and metal lath accessories comply with the Codes listed in Section 1.1, for the properties stated in Section 1.2 and uses stated in Section 1.3, when installed as described in this report, including the Conditions of Use stated in Section 7.

## 3.0 DESCRIPTION

**3.1.** ClarkDietrich™ Expanded Diamond Mesh Metal Lath and Self-Furring Lath is galvanized expanded metal lath complying with ASTM C847, fabricated from steel complying with ASTM A653 with a G60 galvanized coating. Products are available in a nominal sheet thickness of 1/8 inch thick, 27 inch by 97 inch sheets, with nominal weights of 2.5 lb/yd$^2$ or 3.4 lb/yd$^2$.

**3.1.1.** Expanded diamond mesh lath is a flat metal lath (see Figure 1), and the self-furring lath is a dimpled or grooved metal lath (see Figure 3).

**3.1.2.** Expanded diamond mesh lath and self-furring lath are available with a paper-backing water-resistive barrier, complying with ICC-ES AC38, Acceptance Criteria for Water-Resistive Barriers. See Figure 2.

**3.2.** ClarkDietrich™ 3/8 inch rib lath, and Cornerite™ are manufactured of galvanized expanded metal lath complying with ASTM C847, fabricated from steel complying with ASTM A653 with a G60 galvanized coating.

**3.2.1.** Strip lath is a flat expanded metal strip used as plaster reinforcement over joints. Strip lath is available in 4 inch by 96 inch or 6 inch by 96 inch strips, with a minimum weight of 1.75 lb/yd$^2$. See Figure 4.

**3.2.2.** The 3/8 inch rib lath is a herringbone mesh pattern with longitudinal solid steel 3/8 inch ribs, spaced 4 inches on center. Rib lath is available in 27 inch by 97 inch sheets, with a nominal weight of 3.4 lb/yd$^2$. See Figure 5.

**3.2.3.** Cornerite™ is used as reinforcement for inner plaster corners and available with legs of 2” or 3” with lengths up to 96 inches, and minimum weight of 1.75 lb/yd$^2$. See Figure 6.

**3.3.** ClarkDietrich™ #1A Expanded Flange Corner Bead is used as reinforcement for outer plaster corners, manufactured in accordance with ASTM C1063 Table 1 in galvanized steel or zinc. Flanges are minimum 2-7/8 inches in length. See Figure 7.

**3.3.1.** The galvanized steel expanded corner beads comply with ASTM A653 having a G60 coating.

**3.3.2.** The zinc expanded corner beads comply with ASTM specification B69, and are manufactured in accordance with ASTM C1063 Table 1.

**4.0 PERFORMANCE CHARACTERISTICS**

**4.1.** Metal lath products have a fire-resistance rating as identified in Table 721.1(2) of the IBC, FBC-B, and CBC when installed in accordance with Section 5.1 of this report and Section 721 of the IBC, FBC-B and CBC.

**4.2.** The expanded metal lath allowable shear value is 180 plf when the lath is designed and constructed in accordance with Section 2306.3 of the IBC, FBC-B, and CBC, and 2211.6 of the IBC, FBC-B, and CBC for wood framing and steel framing, respectively.

**4.3.** Walls resisting seismic loads shall be subject to the limitations of ASCE 7 Section 12.2.1.

**5.0 INSTALLATION**

Installation shall be in accordance with the applicable code, ASTM C1063 and this report. Where differences occur, this report shall govern.

**5.1.** Metal lath and metal lath accessories described in this report shall be installed in accordance with Sections 2510.3, 2511, and 2512 of the IBC, FBC-B and CBC, and IRC Section R703.7, as applicable.

**5.1.1.** Metal lath products that include the water-resistive barrier as described in Section 3.2.2, shall be installed horizontally on vertical walls with the upper layer lapped over the lower layer not less than 2 inches and vertical joints overlapped no less than 2 inches. Where paper-backed metal lath is applied over wood-based sheathing for cement plaster (stucco) reinforcement, water-resistive barriers shall be installed in accordance with Section 2510.6 of the IBC, FBC-B, and CBC.

**6.0 SUPPORTING EVIDENCE**

**6.1.** Manufacturer's drawings and installation instructions.

**6.2.** Reports of testing and engineering analysis in accordance with ICC-ES AC191, Acceptance Criteria for Metal Plaster Bases (Lath), approved March 2016.

**6.3.** Documentation of an Intertek approved quality control system for the manufacturing of products recognized in this report.

**7.0 CONDITION OF USE**

The ClarkDietrich™ Metal Lath and Metal Lath Accessories identified in this report are deemed to comply with the intent of the provisions of the referenced building codes subject to the following conditions:

**7.1.** ClarkDietrich™ Metal Lath and Metal Lath Accessories identified in this report are manufactured in accordance with the manufacturer's approved quality control system with inspections by Intertek. See Table 1 for approved manufacturing locations.

**8.0 IDENTIFICATION**

Metal lath products produced in accordance with this report shall be identified with labeling on the lath tags or strap banding that includes the following information:

**8.1.** The manufacturers name, logo or initials;

**8.2.** Product name (weight) and dimensions;

**8.3.** The following statement on metal lath: “ASTM C847”;

**8.4.** The Intertek Code Compliance Research Report identification and number: “Intertek CCRR-0204”;

**8.5.** Labels on skids (bundles) shall include the Intertek Code Compliance Research Report mark and number (CCRR-0204).

CODE COMPLIANCE
Intertek
CCRR-0204

**9.0 FLORIDA BUILDING CODE**

**9.1.** Scope of Evaluation: The Metal Lath and Metal Lath Accessories were evaluated for compliance with the 2014 *Florida Building Code – Building and Florida Building Code – Residential.*

**9.2.** Conclusion: The Metal Lath and Metal Lath Accessories, described in Sections 2.0 through 7.0 of this Research Report, comply with the 2014 *Florida Building Code – Building* and *Florida Building Code – Residential*, including the High-Velocity Hurricane Zone provisions.

## 10.0 CALIFORNIA BUILDING CODE

**10.1.** Scope of Evaluation: The Metal Lath and Metal Lath Accessories were evaluated for compliance with the 2016 *California Building Code* and *California Residential Code.*

**10.2.** Conclusion: The Metal Lath and Metal Lath Accessories, described in Sections 2.0 through 7.0 of this Research Report, comply with the 2016 *California Building Code* and *California Residential Code*.

## 11.0 CODE COMPLIANCE RESEARCH REPORT USE

**11.1.** Approval of building products and/or materials can only be granted by a building official having legal authority in the specific jurisdiction where approval is sought.

**11.2.** Code Compliance Research Reports shall not be used in any manner that implies an endorsement of the product by Intertek.

**11.3.** Reference to the https://bpdirectory.intertek.com is recommended to ascertain the current version and status of this report

**Table 1 – Manufacturing Locations**

| | |
|---|---|
| **ClarkDietrich™ - BALTIMORE**<br>4601 North Point Blvd.<br>Baltimore, MD 21219 | **ClarkDietrich™ - RIVERSIDE**<br>6510 General Drive<br>Riverside, CA 92509 |
| **ClarkDietrich™ - DADE CITY**<br>38020 Pulp Drive<br>Dade City, FL 33523 | **ClarkDietrich™ - VIENNA**<br>1455 Ridge Road<br>Vienna, OH 44473 |
| **ClarkDietrich™ - DALLAS**<br>10340 Denton Drive<br>Dallas, TX 75220 | **ClarkDietrich™ - WOODLAND**<br>1685 Tide Court<br>Woodland, CA 95776 |

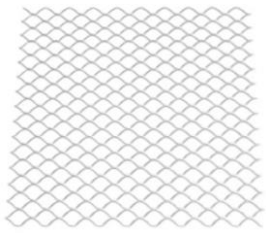


**Figure 1 – Diamond Mesh Lath**

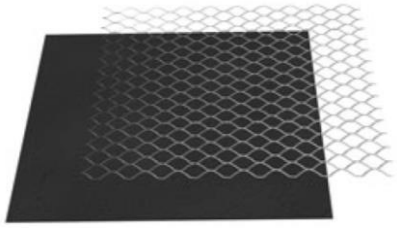
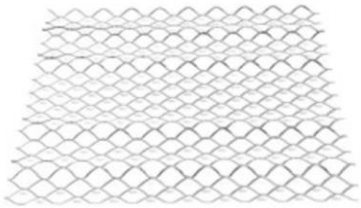
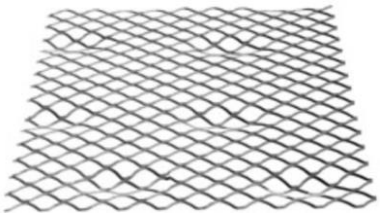


**Figure 2 – Paper Backed Lath**



V-Grooved



Dimpled

**Figure 3 – Self-Furring Lath**

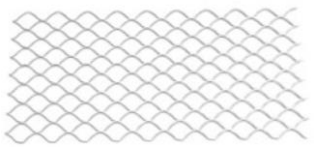


Figure 4 – Strip lath

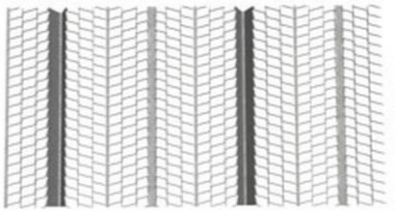


Figure 5 – 3/8” Rib lath

Figure 6 – Cornerite™

Figure 7 – 1-A Expanded Corner Bead