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ICC-ES Evaluation Report

ESR-1623

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Reissued 05/2019
This report is subject to renewal 05/2021.

DIVISION: 09 00 00—FINISHES

SECTION: 09 22 36—LATH

REPORT HOLDER:

CALIFORNIA EXPANDED METAL PRODUCTS COMPANY

EVALUATION SUBJECT:

CEMCO METAL LATH PRODUCTS



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COMPANY**

EVALUATION SUBJECT:

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1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2012, 2009 and 2006 *International Building Code*®
- 2012, 2009 and 2006 *International Residential Code*®
- 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.

Property evaluated:

Physical properties

2.0 USES

The metal laths described in this report are used as reinforcement of interior or exterior plaster complying with IBC Section 2507.2 or IRC Section R703.6.1.

3.0 DESCRIPTION

3.1 CEMCO 2.5 Expanded Diamond Mesh Metal Lath:

The lath complies with ASTM C847, is fabricated from 0.0175-inch-thick (0.45 mm) cold-formed steel complying with ASTM A653 and has a G60 galvanized coating designation complying with ASTM A653. The lath is $\frac{1}{8}$ inch (3.18 mm) thick, 27 $\frac{1}{2}$ inches (699 mm) wide and 97 inches (2464 mm) long, and weighs 2.5 lb/yd² (1.4 kg/m²).

3.2 CEMCO 2.5 Self-Furred Expanded Diamond Mesh Metal Lath:

The lath is identical to the 2.5 Expanded Diamond Mesh Metal Lath described in Section 3.1, except that it has either minimum $\frac{1}{4}$ inch (6.35 mm) dimple or groove furring formed into the lath.

3.3 CEMCO 3.4 Expanded Diamond Mesh Metal Lath:

The lath complies with ASTM C847, is fabricated from 0.0231-inch-thick (0.59 mm) cold-formed steel complying with ASTM A653 and has a G60 galvanized coating

designation complying with ASTM A653. The lath is $\frac{1}{8}$ inch (3.18 mm) thick, 27 $\frac{1}{2}$ inches (699 mm) wide and 97 inches (2464 mm) long, and weighs 3.4 lb/yd² (1.8 kg/m²).

3.4 CEMCO 3.4 Self-Furred Expanded Diamond Mesh Metal Lath:

The lath is identical to the 3.4 Expanded Diamond Mesh Metal Lath described in Section 3.3, except that it has either minimum $\frac{1}{4}$ inch (6.35 mm) dimple or groove furring formed into the lath.

3.5 $\frac{1}{8}$ -inch Self-Furred Flat Rib Lath:

The lath complies with ASTM C847, is fabricated from 0.0132-inch-thick (0.34 mm) cold-formed steel complying with ASTM A653 and has a G60 galvanized coating complying with ASTM A653. The lath is $\frac{1}{8}$ inch (3.18 mm) thick, 27 $\frac{1}{2}$ inches (699 mm) wide and 97 inches (2464 mm) long, and weighs 1.8 lb/yd² (0.98 kg/m²).

3.6 $\frac{3}{8}$ -inch 3.4 Hi Rib Lath:

The lath complies with ASTM C847, is fabricated from 0.015-inch-thick (0.38 mm) cold-formed steel complying with ASTM A653 and has a G60 galvanized coating designation complying with ASTM A653. The lath is $\frac{3}{8}$ inch (9.53 mm) thick, 27 $\frac{1}{2}$ inches (699 mm) wide and 97 inches (2464 mm) long, and weighs 3.4 lb/yd² (1.8 kg/m²). The lath has $\frac{3}{8}$ -inch-deep (9.5 mm) ribs, continuous in the long direction and spaced 4 inches (102 mm) on center

4.0 INSTALLATION

4.1 General:

4.2 The expanded metal lath products noted in Section 3.0 must be installed in accordance with IBC Sections 2510.3 (ASTM C1063) and 2511.1.1 or IRC Section R703.6, as applicable, 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. Except for the $\frac{3}{8}$ inch 3.4 Hi Rib Lath, which is considered self-furring, the other laths described in this report must be furred $\frac{1}{4}$ inch (6.4 mm) from the framing members or solid substrate.

4.3 Fire-resistance-rated Construction:

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

4.4 Shear Walls:

When installation is in accordance with Section 4.1 of this report and Section 2306.3 and Table 2306.3(3) of the 2012

IBC (Section 2306.7 and Table 2306.7 of the 2009 IBC, Section 2306.4.5 and Table 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 California Expanded Metal Products Company 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 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 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 (CEMCO), product name, production number, and product quantity, length, and production date. Each bundle has a label bearing the company name (CEMCO), product name,

production date, production facility, operator and the evaluation report number (ESR-1623).

7.2 The report holder's contact information is the following:

**CALIFORNIA EXPANDED METAL PRODUCTS
COMPANY**

263 NORTH COVINA LANE

CITY OF INDUSTRY, CALIFORNIA 91744

(800) 775-2362

www.CEMCOSTEEL.com

fsesma@cemcosteel.com

ICC-ES Evaluation Report

ESR-1623 CBC and CRC Supplement

Reissued May 2019

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EVALUATION SUBJECT:

CEMCO METAL LATH PRODUCTS

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that CEMCO metal laths, recognized in ICC-ES master evaluation report ESR-1623, have also been evaluated for compliance with the codes noted below.

Applicable code editions:

- 2013 *California Building Code*® (CBC)
- 2013 *California Residential Code*® (CRC)

2.0 CONCLUSIONS

2.1 CBC:

The CEMCO metal laths, described in Sections 2.0 through 7.0 of the master evaluation report ESR-1623, comply with CBC Chapters 7, 23 and 25, provided the design and installation are in accordance with the 2012 IBC provisions noted in the master report and the additional requirements of CBC Chapters 7, 23 and 25, as applicable.

2.2 CRC:

The CEMCO metal laths, described in Sections 2.0 through 7.0 of the master evaluation report ESR-1623, comply with CRC Chapter 7, provided the design and installation are in accordance with the 2012 IRC provisions noted in the master report.

This supplement expires concurrently with the master report, reissued May 2019.