

ICC-ES Evaluation Report

ESR-2317

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A Subsidiary of the International Code Council®

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

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EVALUATION SUBJECT:

1¹/₂ inch x 17 Gage Pre-Furred® Stucco Netting;
1¹/₂ inch x 17 Gage Deep Furr Stucco Netting;
1¹/₂ inch x 17 Gage Non-Furred® Stucco Netting;
1¹/₂ inch x 17 Gage Pre-Furred® Self-Furred;
Paperback (SFPB) Stucco Netting; 1¹/₂ inch x 17
Gage Self-Furred Paperbacked (SFPB) Starter
Stucco Netting; 1-Inch x 20 Gage Self-Furred
Stucco Netting; and Best Corner Reinforcement

1.0 EVALUATION SCOPE
Compliance with the following codes:

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

Property evaluated:

Physical properties

2.0 USES

The laths, except the 1 inch x 20 Gage Self-Furred Woven Wire Lath, are used as reinforcement of exterior plaster (stucco) complying with Section 2512 of the IBC and Section R703.6 of the IRC.

The 1 inch x 20 Gage Self-Furred Woven Wire Lath is used as reinforcement of cementitious exterior coatings where 20 gage lath is specified in an ICC-ES evaluation report on cementitious exterior coatings.

The Best Corner Reinforcement products are used as corner reinforcement of exterior plaster complying with IBC Sections 2511.1 and 2507 or IRC Sections R702.2 and R703.6.1, and as corner reinforcement in cementitious exterior wall coatings recognized in an ICC-ES evaluation report.

3.0 DESCRIPTION
3.1 1¹/₂ inch x 17 Gage Pre-Furred® Stucco Netting and 1¹/₂ inch x 17 Gage Deep Furr Stucco Netting:

The laths are identical and both comply with ASTM C 1032. The laths are formed from 0.054-inch-diameter

(1.33 mm) steel wire having a Class 1 galvanized coating complying with ASTM A 641. The laths have 1¹/₄-inch crimps at 3 inches on center horizontally and 6 inches on center vertically, and 1¹/₂-inch (38 mm) hexagonal-shaped openings. The laths weigh a minimum of 1.40 pounds per square yard (0.760 kg/m²), and are supplied in rolls 37¹/₂ inches (953 mm) wide by 150 feet (45 720 mm) long.

3.2 1¹/₂ inch x 17 Gage Non-Furred® Stucco Netting:

The lath complies with ASTM C 1032 and is formed from 0.054-inch-diameter (1.33 mm) steel wire having a Class 1 galvanized coating complying with ASTM A 641. The lath has 1¹/₂-inch (38 mm) hexagonal-shaped openings, weighs a minimum of 1.40 pounds per square yard (0.760 kg/m²) and is supplied in rolls 37¹/₂ inches (953 mm) wide by 150 feet (45 720 mm) long.

3.3 1¹/₂ inch x 17 Gage Pre-Furred® Paperbacked (SFPB) and 60 Minute Pre-Furred® Paperbacked (SFPB) Stucco Netting:

The lath is the same as the laths described in Section 3.1, but with a water-resistive barrier attached to the back face. The water-resistive barrier is either Davis Wire All-Purpose Building Paper or Davis Wire 60 Minute Building Paper (ESR-2595), both of which are Grade D, Style 2, asphalt-saturated Kraft building papers. The water-resistive barriers have, respectively, 10-minute and 60-minute water-resistive ratings. The lath is supplied in rolls 37¹/₂ inches (953 mm) wide by 100 feet (30 480 mm) long, and in sheets measuring 37¹/₂ inches (953 mm) by 100 inches (2540 mm). The water-resistive barrier is attached to the lath with a minimum of five 0.032-inch-diameter (0.74 mm) galvanized line wires spaced 6 inches (152 mm) on center along the width of the lath.

3.4 1¹/₂ inch x 17 Pre-Furred® Paperbacked (SFPB) and 60 Minute Pre-Furred® Paperbacked (SFPB) Starter Stucco Netting:

The lath is the same as that described in Section 3.3 except that the water-resistive barrier is aligned flush on one edge to ensure proper coverage over weep screeds.

3.5 1 inch x 20 Gage Pre-Furred® Woven Wire Lath:

The lath complies with ASTM C 1032, and is manufactured from 0.035-inch-diameter (0.89 mm) coated steel wire having a minimum Class 1 galvanized coating in accordance with ASTM A 641. The woven wire lath has nominally 1-inch (25.4 mm), hexagonal-shaped openings, and has a minimum weight of 0.86 lb/yd² (0.47 kg/m²). The lath is supplied in rolls 36 inches (915 mm) wide and 150 feet (45 720 mm) long.

3.6 Best Corner Reinforcement:

The corner reinforcements are made from No. 17 gage (0.051 inch) steel wire with a Class 1 galvanized coating complying with ASTM A 641. Five convoluted and six longitudinal wires are welded together to form a right-angled section with 2¹/₄-inch (57 mm) legs. Best Corner is available in the following styles: Best Corner, Straight Double Wire, Best Corner One Coat Double Wire, Best Corner Bullnose, Best Corner One Coat Bullnose, Best Corner Arch, Best Corner Short Flange and Best Corner Bullnose Arch.

4.0 INSTALLATION

4.1 1¹/₂ inch x 17 Gage Pre-Furred[®] Stucco Netting, 1¹/₂ inch x 17 Gage Deep Furred[®] Stucco Netting and 1¹/₂ inch x 17 Gage Non-Furred[®] Stucco Netting:

The lath must be installed in accordance with Section 2510.3 of the IBC or Section R703.6 of the IRC, with the long dimension perpendicular to wall framing, except that at gable walls the lath may be installed with the long dimension parallel to the roof slope. The lath must be lapped a minimum of one mesh [1¹/₂ inches (38 mm)] at sides and ends and must be furred a minimum of 1/4 inch (6.4 mm) from framing members or solid substrate.

4.2 1¹/₂ inch x 17 Gage Pre-Furred[®] Paperbacked (SFPB), 60 Minute Pre-Furred[®] Paperbacked (SFPB), 1¹/₂ inch x 17 Gage Pre-Furred[®] Paperbacked (SFPB) and 60 minute Pre-Furred[®] Paperbacked (SFPB) Starter Stucco Netting:

The lath must be installed in accordance with Section 4.1 of this report except that, on vertical laps, paper and wire must lap paper-to-paper 2 inches (51 mm) and wire-to-wire 1¹/₂ inches (38 mm). When the lath is installed over wood-based sheathing, an additional layer of a Grade D water-resistive barrier must be installed over the solid substrate prior to the installation of the lath, in accordance with IBC Section 2510.6 and IRC Section 703.6.3. The lath must be furred a minimum of 1/4 inch (6.4 mm) from framing members or solid substrate.

4.3 20 Gage Pre-Furred[®] Stucco Netting:

The 1 inch x 20 Gage Pre-Furred[®] Stucco Netting must be installed in accordance with the requirements noted in a current ICC-ES evaluation report on a cementitious exterior wall coating system specifying a 20 gage woven wire lath, and in accordance with the requirements of the applicable code. The lath must be furred a minimum of 1/8 inch (3.18 mm) from framing members or solid substrate.

4.4 Best Corner Reinforcement:

Best Corner Reinforcement is installed in accordance with ASTM C 1063 on corners of wall framing, with fasteners spaced not more than 18 inches (457 mm) on center. The finish coat is applied so that the corner wire is covered with a minimum of 1/8 inch (3.2 mm) of plaster.

4.5 Fire-resistive-rated Construction:

When the 17 gage woven wire laths are installed in accordance with Section 4.1 or 4.2 of this report, and IBC Section 720, the fire-resistance rating is as noted in IBC Table 720.1(2).

4.6 Shear Wall Construction:

The laths and code-complying portland cement plaster may be used in wood-framed construction, when installed in accordance with Section 4.1 or 4.2 of this report and either Section 2306.7 of the 2009 IBC or Section 2306.4.5 of the 2006 IBC.

5.0 CONDITIONS OF USE

The Davis Wire 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 17 gage woven wire lath products are installed in accordance with Section 4.1 or 4.2 of this report, and are limited to use with exterior cement plaster as described in Section 3.1, 3.2, 3.3 or 3.4.
- 5.2 The 20 gage woven wire lath is installed in accordance with Section 4.3 of this report and a current ICC-ES evaluation report on cementitious exterior wall coating systems specifying 20 gage woven wire lath.
- 5.3 Wall bracing is provided in accordance with Section 2308.9.3 or 2308.12 of the 2009 or 2006 IBC, Section R602.10 of the 2009 or 2006 IBC, Section R602.11.1 of the 2009 IRC, or Section R602.11 of the 2006 IRC, as applicable.

6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for Metal Plaster Bases (Lath) (AC191) dated May 2008 (editorially revised January 2011).

7.0 IDENTIFICATION

Each roll of the woven wire lath is identified by a label bearing the company name (Davis Wire Corporation) and address, the wire diameter or gage, the mesh opening size, the roll dimensions, production date and the ICC-ES evaluation report number (ESR-2317).