



### EVALUATION SUBJECT: K-LATH WOVEN-WIRE AND WELDED-WIRE LATH AND CORNER ACCESSORIES

**REPORT HOLDER:**  
K-lath, Division of Tree Island Wire (USA), Inc.  
5080 Hallmark Parkway  
San Bernardino, CA 92407

CSI Division: 09 FINISHES  
CSI Section: 092236 Lath

### 1.0 SCOPE OF EVALUATION

#### 1.1 Compliance to the following codes & regulations:

- 2012 International Building Code® (2012 IBC)
- 2009 International Building Code® (2009 IBC)
- 2012 International Residential Code® (2012 IRC)
- 2009 International Residential Code® (2009 IRC)

#### 1.2 Evaluated in accordance with:

- ICC-ES AC191, approved March 2016

#### 1.3 Properties assessed:

- Physical properties

### 2.0 PRODUCT USE

The K-Lath Woven-Wire and Welded-Wire lath products are used as reinforcement for interior or exterior cement plaster in compliance with IBC Sections 2510.1 and 2510.4 and IRC Section R703.6, as applicable. The K-Lath Woven-Wire and Welded-Wire laths backed with water-resistive barrier (wrB) are used as reinforcement for interior and exterior cement plaster in compliance with IBC Sections 2510.1 and 2510.4 and IRC Section 703.6, as applicable. The K-Lath products are also for use with portland cement plaster as backing material for veneer or ceramic tile applications, provided installation conforms to IBC Section 1405.

### 3.0 PRODUCT DESCRIPTION

#### 3.1 Woven-Wire Fabric Lath Products

**3.1.1 K-Lath 1.5 inch by 17 Gage C1 Stucco Netting (Self-furred):** The K-Lath 1.5 inch (38 mm) by 17 Gage C1 Stucco Netting Self-furred woven wire lath complies with ASTM C1032 and is manufactured from 0.054 in (1.4 mm) diameter steel wire which has a minimum Class 1 galvanized coating in accordance with ASTM A641. The lath is for use as reinforcement of interior and exterior portland cement plaster, installed over a weather-resistive barrier. The lath has 1½-inch (38 mm) hexagon-shaped openings, a minimum

weight of 1.40 pounds per square yard (0.760 kg/m<sup>2</sup>), and crimps identified with colored paint marking that provide a minimum furring of ¼ inch (6.4 mm) at 3 inches (76 mm) on center horizontally and 6 inches (152 mm) on center vertically. The woven wire lath is supplied in rolls that are 36 inches (914 mm) wide by 150 feet (45.7 m) long.

**3.1.1.1 K-Lath 1.5 inch by 17 Gage C1 Stucco Netting (Non-furred):** The K-Lath 1.5 inch (38 mm) by 17 Gage [0.054 inch (1.4 mm) C1 Stucco Netting (Non-furred) is a flat woven-wire lath complying with ASTM C1032 and is identical to the self-furred lath described in Section 3.1.1 of this report, except that it does not have furring crimps.

**3.1.2 K-Lath 1.5 inch by 17 Gage C1 wrB Backed Stucco Netting (Self-furred):** The lath is identical to the laths described in Section 3.1.1 of this report, except with a single layer of water-resistive barrier (wrB) equivalent to a Grade D, 10-minute, 30 minute or 60 minute approved wrB that is recognized in a valid evaluation report. The lath with wrB are for use as reinforcement of gypsum-based plaster, interior and exterior portland cement plaster, and as backing reinforcement for masonry veneer, ceramic tile and similar items. The wrB extends 1½ inches (38 mm) beyond the lath on one vertical end of the fabric lath and 1½ inches (38 mm) from the bottom horizontal edge of the fabric lath. The water resistive barrier is attached to the fabric lath with five No. 20 gage [0.033 inch 0.84 mm] diameter galvanized steel wires spaced at 6 inches (152 mm) on center along the width of the lath. The lath are supplied in rolls of 100 feet (30,480 mm) long.

**3.1.2.1 K-Lath 1.5 inch by 17 Gage C1 wrB Backed Stucco Netting (Self-furred) SFB Regular Starter and K-Lath wrB Stucco Netting (Self-furred) SFB Starter 60 minute:** These laths are the same as K-Lath wrB Backed Stucco Netting (Self-furred) SFB Regular and K-Lath wrB Backed Stucco Netting (Self-furred) SFB 60 Minute, respectively, described in Section 3.1.2 of this report, except the wrB extends 1¾ inches (41.3 mm) from the bottom horizontal edge of the fabric lath.

#### 3.2 K-Lath Welded Wire Lath Products

**3.2.1 Stucco Rite Standard 2 x 2 C1:** Stucco Rite Standard 2 inch by 2 inch C1 welded wire lath is a wrB backed lath complying with ASTM C933 manufactured from No. 16 Gage [0.062 inch (1.57 mm)] diameter coated steel wire with a Class 1 galvanized coating in accordance with ASTM A641. The lath is for use as reinforcement of exterior and interior portland cement plaster, and as backing material for veneer or ceramic tile applications installed in conformance with IBC Section 1405. The weight of the lath is 1.14 pounds per square yard (0.618 kg/m<sup>2</sup>) minimum. The wrB shall be a single layer of an approved 30-minute Grade D water

The product described in this Uniform Evaluation Service (UES) Report has been evaluated as an alternative material, design or method of construction in order to satisfy and comply with the intent of the provision of the code, as noted in this report, and for at least equivalence to that prescribed in the code in quality, strength, effectiveness, fire resistance, durability and safety, as applicable, in accordance with IBC Section 104.11. This document shall only be reproduced in its entirety.

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resistive barrier. The welded wire lath is supplied in sheets that are 28 to 38 inches (711 to 965 mm) wide by 84 to 102 inches (2134 to 2590 mm) long.

**3.2.2 Stucco Rite Standard 2 x 2 C1 Double Paper:** This product is as described in Section 3.2.1 of this report for the Stucco Rite Standard 2 x 2, but includes a second layer of an approved Grade D water resistive barrier, spot glued at approximately 12 inches (305 mm) on center in rows 16 inches (406 mm) on center. The two layers of wrb shall include a water-resistive vapor-permeable barrier with a performance at least equivalent to two layers of Grade D paper that is recognized in a valid evaluation report, as described in IBC Section 2510.6.

**3.2.3 Stucco Rite Standard 2 x 2 C1 Double Paper 60/20:** This product is as described in Section 3.2.2 of this report for Stucco Rite Standard 2 x 2 Double Paper, except the wrb is a single layer of an approved 30 minute Grade D water resistive barrier that is recognized in a valid evaluation report spot-glued to a single layer of an approved 60 minute Grade D water resistive barrier that is recognized in a valid evaluation report.

**3.2.4 Stucco Rite Standard 2 x 2 C1 Double Wire:** Stucco Rite Standard 2 x 2 C1 Double Wire is as described in Section 3.2.1 of this report for the Stucco Rite Standard 2 x 2; except this product has an additional No. 16 Gage [0.062 inch (1.575 mm)] diameter longitudinal wire spaced at 6 inches (152 mm) on center. This coated steel wire has a Class 1 galvanized coating in accordance with ASTM A641 and the lath minimum weight is 1.14 pounds per square yard (0.618 kg/m<sup>2</sup>) minimum. The welded wire lath is supplied in sheets that are 28 to 38 inches (711 to 965 mm) wide by 84 to 102 inches (2134 to 2590 mm) long.

**3.2.5 Stucco Rite Standard 2 x 2 C1 Double Wire 60 Minute:** Stucco Rite Standard 2 x 2 C1 Double Wire 60 Minute is as described in Section 3.2.4 of this report for Stucco Rite Standard 2 x 2 Double Wire, except with a single layer of an approved 60 minute Grade D water resistive barrier that is recognized in a valid evaluation report.

**3.2.6 Stucco Rite Standard 2 x 2 C1 Double Wire Double Paper 60/20:** Stucco Rite Standard 2 x 2 C1 Double Wire Double Paper 60/20 is described in Section 3.2.3 of this report for Stucco Rite Standard 2 x 2 Double Paper 60/20, except this product has an additional No. 16 Gage [0.062 inch diameter (1.575 mm)] longitudinal wire at each 6 inch (152 mm) on center. The longitudinal steel wire has a Class 1 galvanized coating in accordance with ASTM A641 and the lath weighs 1.14 pounds per square yard (0.618 kg/m<sup>2</sup>) minimum. The welded wire lath is supplied in sheets that are 28 to 38 inches (711 to 965 mm) wide by 84 to 102 inches (2134 to 2590 mm) long.

**3.2.7 Stucco Rite Standard 2 x 2 C1 Heavy Duty:** Stucco Rite Standard 2 x 2 C1 Heavy Duty is described in Section 3.2.1 of this report for Stucco Rite Standard 2 x 2,

except the stiffening wires are No. 14 Gage [0.082 inches diameter (2.08mm)] with every third longitudinal wire of this product No. 12 Gage [0.062 inches diameter (1.575 mm)] coated steel wire with a Class 1 galvanized coating in accordance with ASTM A641 and the lath weight is 1.95 pounds per square yard (1.058 kg/m<sup>2</sup>) minimum. The welded wire lath is supplied in sheets that are 28 to 38 inches (711 to 965 mm) wide by 84 to 102 inches (2134 to 2590 mm) long.

### 3.3 Welded-Wire-Lath Plaster Accessories

#### 3.3.1 Plaster Corner Reinforcement

**3.3.1.1 K-Lath Kwik Corner:** K-Lath Kwik Corner is a welded-wire product for use as reinforcement of interior and exterior plaster at corners. Kwik Corner is electric resistance welded using No. 17.5 gage [0.051 inch diameter (1.30 mm)] and No. 16 gage [0.062 inch diameter (1.57 mm)] galvanized wires, to form a right-angled section with 2-1/2-inch (63.5 mm) legs. All wires are coated to a Class 3 galvanized coating complying with ASTM A641 (Class 1 coatings are also available for all products).

K-Lath Kwik Corner products conform to Section 6.2.7 of ASTM C1063. K-Lath Kwik Corner products are produced in 8-foot to 10-foot (2438 to 3048 mm) lengths.

**3.3.1.2 K-Lath Kwik Corner Double Wire** is similar to K-Lath Kwik Corner; except with an additional longitudinal wire. K-Lath Kwik Corner Plastic Nose is similar to K-Lath Kwik Corner, except for a polyvinyl chloride plastic nose that is a slit tube attached over the nose wire bead. K-Lath Kwik Corner 1 Kote and K-Lath Kwik Corner 1 Kote Double Wire are similar in design to

K-Lath Kwik Corner and K-Lath Kwik Corner Double Wire, respectively, and are used with insulated foam plastic board and proprietary cementitious exterior wall coverings.

K-Lath Kwik Corner is available in the following styles: K-Lath Kwik Flange, K-Lath Kwik Flange Plastic Nose, K-Lath Kwik Arch, K-Lath Kwik Arch Plastic Nose, K-Lath Kwik Arch Flange, K-Lath Kwik Bullnose, K-Lath Kwik Bullnose Wide, K-Lath Kwik Bullnose Double Wire, K-Lath Kwik Bullnose Arch, K-Lath Kwik Bullnose Flange, and K-Lath Kwik Bullnose 1 Kote.

### 4.0 DESIGN AND INSTALLATION

**K-Lath 1.5 inch by 17 Gage C1 Woven-wire Fabric Lath** shall be installed in accordance with IBC Section 2510.3 or IRC Section R703.6, as applicable. The woven wire laths shall be installed with the long dimension perpendicular to supports, except at gable walls where the lath may be installed with the long dimension parallel to the roof slope. The lath shall be furred a minimum of ¼ inch (6.4 mm) from the framing members or solid substrates.



Lath splices at vertical and horizontal joints shall be wire-to-wire and paper-to-paper joints with the wire lath lapped a minimum of 1½ inches (38 mm).

For wrb backed woven-wire fabric lath, the wrb shall be unfolded to form a minimum 2-inch (51 mm) wrb lap at the horizontal joints. Vertical laps of the lath shall occur at framing members, with the wrb lapping adjacent sheets of wrb a minimum of 6 inches (152 mm).

#### 4.1 K-Lath 1.5 inch by 17 Gage Woven-wire Fabric Lath

**Design:** In shear wall construction, the allowable racking shear values and application for 7/8-inch-thick (22 mm) exterior Portland cement plaster with the K-Lath woven-wire fabric laths attached to wood wall framing shall be as set forth in IBC Section 2505.

#### 4.2 K-Lath Welded-Wire Fabric Lath Installation:

The K-Lath welded wire lath shall be installed in accordance with IBC Section 2510.3 or IRC Section R703.6, as applicable, with the long dimension perpendicular to supports, except at gable walls where the lath may be installed with the long dimension parallel to the roof slope. When used with cementitious exterior coatings the lath shall be furred from framing members or solid substrates in accordance with the applicable evaluation report on the cementitious exterior coating. Lath splices at vertical and horizontal joints shall be wire-to-wire and paper-to-paper joints with the wire lath lapped a minimum of 2 inches (51 mm). The wrb shall be unfolded to form a minimum 2-inch (51 mm) lap at horizontal joints. Vertical laps of the lath shall occur at framing members, with the wrb lapping adjacent sheets of wrb a minimum of 6 inches (152 mm).

#### 4.3 Welded-Wire Fabric Lath Design:

In shear wall construction, the allowable racking shear values and application for 7/8-inch-thick (22 mm) exterior portland cement plaster with the K-Lath welded-wire fabric laths attached to wood framing shall be as set forth in IBC Section 2505.

#### 4.4 Plaster Corner Reinforcement Installation:

The corner reinforcement shall be attached to framing members with 1½ inch (38 mm) long 4d common galvanized nails spaced at 18 inches (457 mm) on center, or as necessary to hold plumb. The plaster shall be applied with a minimum plaster thickness over the corner reinforcement of 1/8 inch (3.2 mm).

### 5.0 LIMITATIONS

The K-Lath Woven-Wire and Welded-Wire lath products described in this report are suitable alternatives to those codes listed in Section 1.0 of this report, and are subject to the following conditions:

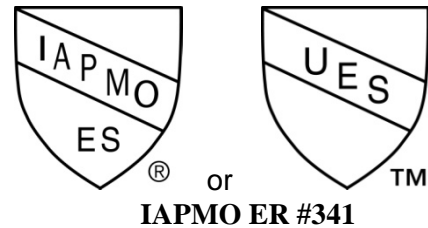
5.1 The K-Lath Woven-Wire and Welded-Wire lath products shall be installed in accordance with this evaluation report and the applicable code, and if there are any conflicts between this report and the manufacturer’s installation instructions, the more restrictive governs.

### 6.0 SUBSTANTIATING DATA

Data and test reports submitted are from laboratories in compliance with ISO/IEC 17025 and in accordance with the ICC-ES Acceptance Criteria for Metal Plaster Bases (Lath) (AC191), dated March 2016.

### 7.0 IDENTIFICATION

Rolls of the K-Lath Woven-Wire and Welded-Wire lath are identified by a label on the roll and by printing on the product of the manufacturer’s name; the manufacturing location, the product name, production number, the wire lath diameter or gage, the mesh opening size, the roll dimensions and the evaluation report number (ER-341).



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