



**EVALUATION SUBJECT:
STRUCTALATH NO. 17 SFCR II AND NO. 17
SFCR TWIN TRACK, STRUCTA MEGA LATH,
V-TRUSS WALLS AND CEILINGS LATH,
STRUCTALATH 316 SFCR, AND STRUCTA-
CORNERS REINFORCEMENTS**

REPORT HOLDER:

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CSI Division: 09 FINISHES
CSI Section: 09205 Furring and Lathing

1.0 SCOPE OF EVALUATION

1.1 Compliance to the following codes & regulations:

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

1.2 Evaluated in accordance with:

- ICC-ES AC191

1.3 Properties assessed:

- Physical properties

2.0 PRODUCT USE

Structa Wire Corp. products are alternatives to laths complying with IBC Section 2510 and IRC Section 703.6.1 and act as reinforcement of exterior plaster complying with IBC Sections 2507 and 2512, or IRC Section R703.6.

3.0 PRODUCT DESCRIPTION

3.1 StructaLath No. 17 SCFR II: The self-furring, welded wire lath is an alternative to the 1.14 lb/yd² (0.618 kg/m²) welded wire lath specified in ASTM C933. The lath is produced from cold-rolled longitudinal wires with coated thicknesses of 0.028 inch (0.71 mm) by 0.87 inch (2.20 mm), and cross wires with a 0.050 inch (1.27 mm) coated diameter of. The lath openings are formed by longitudinal and cross wires that are resistance-welded at the wire intersections and measure 1½-inches-by-1½-inches (38 mm by 38 mm). All wires have a Class 1 galvanized coating complying with ASTM A641. The lath self-furring crimps have a minimum ¼-inch (6.4 mm) furring distance and are spaced at 3 inches (76 mm) on center on each cross wire. The nominal weight of the lath

is 1.0 pound per square yard (0.54 kg/m²). The lath is available in rolls 38³/₈, 48 or 54 inches (974, 1220, or 1370 mm) wide and 100, 112.5, or 150 feet (30 500, 34 290, 45 720 mm) long.

3.2 StructaLath 316 SFCR: The self-furring, welded wire lath is an alternative to the 1.14 lb/yd² (0.618 kg/m²) welded wire lath specified in ASTM C933 and is recognized for use as reinforcement in maximum ½-inch (12.7 mm) thick proprietary one coat stucco systems. The lath is produced from cold-rolled longitudinal wires with coated thicknesses of 0.028 inch (0.71 mm) by 0.087 inch (2.20 mm) and cross wires having a 0.050 inch (1.27 mm) coated diameter. The lath has 1½-inch-by-1½-inch (38 mm by 38 mm) openings formed by longitudinal and cross wires that are resistance welded at the wire intersections. The wire has a Class 1 galvanized coating complying with ASTM A641. The furring crimps have a minimum ³/₁₆ inch (9.52 mm) furring distance and are spaced at 3 inches (76 mm) on center on each cross wire. The nominal weight of the lath is 1.0 lb/yd² (0.54 kg/m²). The lath is available in rolls 38³/₈ inches (974 mm) wide and 150 feet (45 720 mm) long.

3.3 StructaLath No. 17 SFCR Twin Trac: The self-furring, welded wire lath is an alternative to the 2.5 lb/yd² (1.4 kg/m²) diamond mesh metal lath specified in ASTM C847 and an alternative to the 1.4 lb/yd² (0.618 kg/m²) welded wire lath specified in ASTM C933. The lath is similar to StructaLath No. 17 SFCR II with the addition of eight secondary cold-rolled longitudinal wires with coated thicknesses of 0.028 inch (0.71 mm) by 0.87 inch (2.20 mm), that are resistance welded to the cross wires. The nominal weight of the lath is 1.14 pound per square yard (0.62 kg/m²). The lath is available in rolls 38³/₈ inches (974 mm) wide and 150 feet (45 720 mm) long.

3.4 Structa Mega Lath: The self-furring welded wire lath is an alternative to the 3.4 lb/yd² (1.8 kg/m²) diamond mesh metal lath specified in ASTM C847 and the 1.95 lbs/yd² (1.1kg/m²) welded wire lath specified in ASTM C933. The lath is produced from cold-rolled rectangular longitudinal wires with coated thickness of 0.0330 inch (0.83 mm) by 0.075 inch (1.90 mm), and 0.056 inch (1.42 mm) coated diameter round cross wires of). The lath openings are formed by resistance welding longitudinal and cross wires, at the intersections that measure ¹¹/₁₆ inch by 1½ inches (17.5 by 38.1 mm) except at the furring crimps where the openings are ³/₄ inch by 1½ inches (19.0 by 38.1 mm). Structa Mega Lath has six additional cold-rolled rectangular longitudinal wires, resistance welded to the cross wires, and spaced 5³/₈ inches (137 mm) on center. The wire has a Class 1 galvanized coating complying with ASTM A641. The lath self-furring crimps occur at each

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.

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cross wire, provide a minimum ¼ inch (6.4 mm) furring distance, and are spaced at 2½ inches (54 mm) on center. The nominal weight of the lath is 1.95 lb/yd² (1.05 kg/m²). The lath is available in rolls 30 inches (762 mm) wide and 108 feet (32 918 mm) long.

3.5 V-Truss Walls and Ceilings Lath: The self-furring welded wire lath is an alternative to the 3/8-inch (9.6 mm), 3.4 lb/yd² (1.8 kg/m²) rib metal lath specified in ASTM C847 and the 1.4 lb/yd² (0.8 kg/m²) woven wire lath specified in ASTM C1032. The lath is produced from cold-rolled rectangular longitudinal wires, having coated thicknesses of 0.0335 inch (0.85 mm) by 0.064 inch (1.62 mm), and round cross wires with a 0.05 inch (1.27 mm) coated diameter. The wire has a Class 1 galvanized coating complying with ASTM A641. The lath has rectangular openings are formed by resistance welding longitudinal and cross wires at the wire intersections and measure 0.7-inch-by-1.5-inch (17.8 by 38 mm). The lath furring crimps occur at each cross wire, provide a minimum 3/8-inch (9.5 mm) furring distance, and spaced at 1.9 inches (48 mm) on center on. Backing wires occur in the longitudinal direction, have a 0.050 inch (1.27 mm) coated diameter, and are resistance welded in a to the bottom of the furring crimps. The lath has a perforated kraft paper is placed between the primary wires and the backing wires. The paper is cut back 2 inches (51 mm) on each end, and each side is wrapped and adhered around the outermost backing wire. The nominal weight of the lath is 2.2 lb/yd² (1.2 kg/m²). The lath is provided in flat sheets 28¾ inches (721 mm) wide by 97½ inches (2475 mm) long.

3.6 Structa-Corners Exterior Corner Reinforcement

3.6.1 Structa-Corners: Structa-Corners are welded wire exterior corner reinforcements for use with plaster in accordance with ASTM C1063. The corner reinforcements are manufactured from 0.050-inch (1.27 mm) or 0.045 inch (1.14 mm) diameter wire. The wires are available in two styles with different profiles, all with equivalent cross-sectional area. The corners are formed from Class 1, hot dipped galvanized, low carbon, cold drawn steel wire complying with ASTM A641. The minimum weight is 1.7 lb/yd² (0.93 kg/m²).

3.6.1.1 Structa-Corner - 3-Coat Arch: Structa-Corner - 3-Coat Arch, for forming arches, is available in 8-foot (2438 mm) lengths and has five convoluted wires and four longitudinal wires and then formed to a right-angled section having 2½-inch (64 mm) legs.

3.6.1.2 Structa-Corner - 3-Coat Bullnose Arch: Structa-Corner -3- Coat Bullnose Arch has five convoluted wires and five longitudinal wires resistance welded together formed into a rounded nose having a 7/8-inch (22.2 mm) radius and 2½-inch (64 mm) legs, and is available in 10-foot (3050 mm) lengths.

3.6.2 V-Truss Corners Exterior Reinforcement: V-Truss Corners are welded wire exterior corner

reinforcements for plaster in accordance with ASTM C1063. The wires are either 0.045-inch (1.14 mm) diameter round or another profile with equivalent cross-sectional area and comply with ASTM A641, as Class 1, hot dipped galvanized, low carbon, cold drawn steel wire. As an alternative to the galvanized coating, the corners are available with Structa-Chrom EX™ corrosion-resistant coating. Three convoluted and nine longitudinal wires are resistance-welded together and then formed to a right-angled section or rounded nose with 2½-inch (64 mm) legs. The minimum weight is 1.7 lb/yd² (0.93 kg/m²).

3.6.2.1 V-Truss Corners - 3-Coat Straight: V-Truss Corners - 3 -Coat Straight, for straight corners, has a right-angled shape and are available in 8-, 9-, and 10-foot (2438, 2743, and 3048 mm) lengths.

3.6.2.2 V-Truss Corners - 3-Coat Bullnose: V-Truss Corners - 3-Coat Bullnose has convoluted and longitudinal wires and a rounded nose with either a 7/16- or a 7/8-inch (11.1 or 22.2 mm) radius, and is available in 10-foot (3048 mm) lengths.

3.6.2.3 V-Truss Corners - One Coat Straight: V-Truss Corners - One Coat Straight are designed for use with insulating foam board and cementitious exterior wall coating systems. V-Truss Corners - One Coat Straight are similar to V-Truss Corners - 3 Coat Straight, except the angle of formation is a nominal 80 degrees. V-Truss Corners - One Coat Straight are available in 8- and 10- foot (2436 and 3048 mm) lengths.

4.0 DESIGN AND INSTALLATION

4.1 General: The laths and corner reinforcements shall be installed in accordance with IBC Sections 2510, and either Section 2511 or 2512; IRC Section R703.6; ASTM C1063; or an evaluation report on exterior cementitious wall coating systems issued by an approved and accredited evaluation report source. The long dimension of the lath shall be perpendicular to supports, except that at gable walls on exterior installations, the lath may be installed with the long dimension parallel to the roof slope.

4.1.1 StructaLath No. 17 SFCR II: The lath shall be applied to vertical surfaces having wood or metal supports or to horizontal wood, metal or concrete supports. The maximum support spacing shall be 16 inches (406 mm) center to center. Fastener type and spacing shall comply with ASTM C1063 or IRC Section R703.6.1 as applicable for welded wire lath, except that the fasteners shall attach the lath to the framing supports either at the furring crimps on the vertical cross wires, at the intersection of the longitudinal wire and cross wire, or at any point along the longitudinal wire. The lath shall be lapped a minimum of one mesh at sides. Ends shall be lapped a minimum of one mesh and shall occur over supports. Additional installation requirements as set forth in an evaluation report on exterior cementitious wall coating systems shall apply as applicable.



4.1.2 StructaLath No. 17 SFCR Twin Trac: The lath shall be applied to vertical surfaces having wood or metal supports or to horizontal wood, metal or concrete supports.

For use as an alternative to the 2.5 lb/yd² (1.4 kg/m²) diamond mesh metal lath, the maximum support spacing shall comply with Table 3 of ASTM C1063 for 2.5 lb/yd² (1.4 kg/m²) diamond mesh metal lath. The fastener type and spacing shall comply with ASTM C1063 or IRC Section R703.6.1 as applicable for diamond mesh metal lath, except that the fasteners shall attach the lath to the framing supports either at the furring crimps on the vertical cross wires, or at the intersection of the longitudinal wire and cross wire; or the lath may be installed by placing a nail or screw fastener between the two Twin Trac longitudinal wires, or a staple over any longitudinal wire.

For use as an alternative to the 1.4 lb/yd² (0.8 kg/m²) welded wire lath, the maximum support spacing shall comply with Table 3 of ASTM C1063 for 1.4 lb/yd² (0.8 kg/m²) welded wire lath. The fastener type and spacing shall comply with ASTM C1063 or IRC Section R703.6.1 as applicable for welded wire lath, except that the fasteners shall attach the lath to the framing supports either at the furring crimps on the vertical cross wires, or at the intersection of the longitudinal wire and cross wire; or the lath may be installed by placing a nail or screw fastener between the two Twin Trac longitudinal wires, or a staple over any longitudinal wire.

4.1.3 V-Truss Walls and Ceilings Lath: The lath shall be applied to vertical surfaces having wood or metal supports or to horizontal wood, metal, or concrete supports. For use as an alternative to the ³/₈-inch (9.6 mm), 3.4 lb/yd² (1.8 kg/m²) rib metal lath, the maximum support spacing shall be in accordance with Table 3 of ASTM C1063 for ³/₈-inch (9.6 mm), 3.4 lb/yd² (1.8 kg/m²) rib metal lath. Fastener type and spacing shall comply with ASTM C1063 or IRC Section R703.6.1 as applicable for rib metal lath, except that the fasteners shall attach the lath to the framing supports at every second rib, either at the furring crimps on the vertical cross wires, at the intersection of the longitudinal wire and cross wire, or at any point along the longitudinal wire that is welded to the furring crimp. The lath shall be lapped a minimum of one mesh at sides. End laps shall be a minimum of one mesh and shall occur over supports. The ends of sheets shall be staggered between courses.

For use as an alternative to 1.4 lb/yd² (0.8 kg/m²) woven wire lath, the maximum support spacing shall be in accordance with Table 3 of ASTM C1063 for 1.4 lb/yd² (0.8 kg/m²) woven wire lath. Fastener type and spacing shall comply with ASTM C1063 for woven wire lath, except that the fasteners shall attach the lath to the framing supports at every second rib, either at the furring crimps on the vertical cross wires, at the intersection of the longitudinal wire and cross wire or at any point along the longitudinal wire that is welded to the furring crimp. The lath shall be lapped a minimum of one mesh at sides. Ends

shall be lapped a minimum of one mesh and shall occur over supports and shall be staggered between courses.

4.1.4 Structa Mega Lath: The lath shall be applied to vertical surfaces having wood or metal supports or to horizontal wood or concrete supports.

For use as an alternative to the 1.95 lb/yd² (0.993 kg./m²) welded wire lath specified in ASTM C933 the maximum support spacing shall be in accordance with Table 3 of ASTM C1063 for 1.95 lb/yd² (1.1 kg./m²) welded wire lath. Fastener type and spacing shall be as specified in ASTM C1063 or IRC Section R703.6.1 as applicable for 1.95 lb/yd² (1.1 kg./m²) welded wire lath, except that the fasteners shall attach to the lath to the framing supports either between the primary and secondary longitudinal wires, or there shall be a staple over any longitudinal wire. The lath shall be lapped a minimum of one mesh at sides. Ends shall be lapped a minimum of one mesh and shall occur over supports.

For use as an alternative to the 3.4 lb/yd² (1.8 kg/m²) diamond mesh metal lath, the maximum support spacing shall be in accordance with Table 3 of ASTM C1063 for 3.4 lb/yd² (1.8 kg/m²) diamond mesh metal lath, except that the fasteners shall attach the lath to the framing supports either between the primary and secondary longitudinal wires, or there shall be a staple over any longitudinal wire.

Structa Mega Lath may be applied to vertical surfaces having horizontal metal support members (furring). The minimum metal thickness of the supports is No. 20 gauge [0.0359 inch (0.91 mm)]. For use as an alternative to the 1.95 lb/yd² (0.993 kg/m²) welded wire lath, the maximum support spacing shall be in accordance with Table 3 of ASTM C1063 for 1.95 lb/yd² (1.1 kg/m²) welded wire lath. For use as an alternative to the 1.4 lb/yd² (0.8 kg/m²) woven wire lath, the maximum support spacing shall be in accordance with Table 3 of ASTM C1063 for 1.4 lb/yd² (0.8 kg/m²) woven wire lath. For use as an alternative to 3.4 lb/yd² (1.8 kg/m²) diamond mesh metal lath, the maximum support spacing shall be in accordance with Table 3 of ASTM C1063 for 3.4 lb/yd² (1.8 kg/m²) diamond mesh metal lath. The long dimension of the lath shall be installed in a vertical orientation, with screw fastener type and spacing complying with ASTM C1063 or IRC Section R703.6.1 as applicable. Fasteners shall be located between the primary and secondary longitudinal wires and be long enough to penetrate metal support members. A minimum of 75 percent of the fasteners shall be positioned directly below the cross-wire wire. The horizontal metal support system shall be designed to support the gravity loads of the plaster-lath matrix and to resist wind loads in accordance with IBC or IRC.

The lath shall be lapped a minimum of one mesh at sides. Ends laps shall lapped be a minimum of one mesh and shall occur over supports.



4.1.5 StructaLath 316 SFCR: The lath shall be applied to vertical surfaces having wood or metal supports or to horizontal wood, metal or concrete supports. The maximum support spacing shall be 16 inches (406 mm) center to center. Fastener type and spacing shall comply with ASTM C1063 or IRC Section R703.6.1 as applicable for welded wire lath, except that the fasteners shall attach the lath to the framing supports either at the furring crimps on the vertical cross wires, at the intersection of the longitudinal wire and cross wire, or at any point along the longitudinal wire. The lath shall be lapped a minimum of one mesh at sides. Ends shall be lapped a minimum of one mesh and shall occur over supports. Additional installation requirements as set forth in an evaluation report on proprietary one coat stucco systems shall apply as applicable. The total plaster thickness shall be ½-inch (12.7 mm) maximum.

4.1.6 Structa-Corners and V-Truss Corners Exterior Corner Reinforcement: Structa-Corners and V-Truss Corners shall be installed in accordance with ASTM C1063. The plaster finish coat is applied so that the nose wire is covered a minimum of ⅛-inch (3.2 mm).

4.1.7 V-Truss Corners - One Coat Straight: The V-Truss Corners - One Coat Straight exterior corner reinforcement shall be installed in accordance with the requirements noted in a current evaluation report on cementitious exterior coatings, and with the requirements of the applicable code.

5.0 LIMITATIONS

Structa Wire Corp. Lath products described in this report comply with or are suitable alternatives to what is specified in the codes listed in Section 1.0 of this report, subject to the following conditions:

5.1 The Structa Wire Corp. Lath 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 shall govern.

5.2 Walls shall be braced in accordance with IBC Section 2308.9.3 or 2308.12 or IRC Section R602.10 and R602.11.1.

6.0 SUBSTANTIATING DATA

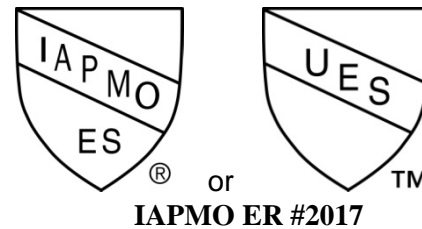
Data and test reports submitted are from laboratories in compliance with ISO/IEC 17025 and in accordance with the ICC-ES Acceptance Criteria for Metal Plaster Bases (Lath) (AC191), dated October 2012.

7.0 IDENTIFICATION

7.1 StructaLath No. 17 SFCR II, StructaLath No. 17 SFCR Twin Trac, StructaLath SFCR 316 and Structa Mega Lath are packaged in rolls and identified by a label bearing the name and address of Structa Wire Corp., the product name, the evaluation report number (ER-2017), and a description of the product (lath opening size, product width and roll length).

7.2 V-Truss Walls and Ceilings Lath are produced in sheets and are identified by a label bearing the name and address of Structa Wire Corp., the product name, the evaluation report number (ER-2017), and a description of the product (Lath opening size, product length and width)

7.3 Structa Wire Corp. Corner products addressed in this report are packaged in cartons identified by a label bearing the name and address of Structa Wire Corp., the product name, the evaluation report number (ER-2017), and a description of the product.



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