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Legacy report on the 1997 Uniform Building Code™

DIVISION: 09—FINISHES
Section: 09205—Furring and Lathing

STRUCTALATH WELDED-WIRE FABRIC LATH AND STRUCTA-CORNERS

STRUCTA WIRE CORP.
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CANADA

1.0 SUBJECT

STRUCTALATH Welded-wire Fabric Lath and STRUCTACORNERS.

2.0 DESCRIPTION

2.1 No. 19 x No. 20 Gage STRUCTALATH S.F. CR:

No. 19 x No. 20 gage STRUCTALATH S.F. CR (cold-rolled) is a self-furring, welded-wire fabric lath for use in cementitious exterior wall coating systems recognized under a current ICC-ES evaluation report in which No. 20 gage, 1-inch-square (25.4 mm), welded-wire fabric lath is specified, or as an alternative to the No. 20 gage, 1-inch (25.4 mm) galvanized steel, woven-wire fabric lath specified in the systems listed in Table 1. The lath is formed from No. 19 gage, cold-rolled, flattened longitudinal wires having minimum uncoated base-metal dimensions of 0.022 inch (0.559 mm) thick by 0.055 inch (1.40 mm), and cross wires having a minimum base-metal thickness of 0.0328 inch (0.833 mm). The wires before flattening are Class 1, hot-dipped galvanized, low-carbon, cold-drawn steel wire complying with ASTM A 641-92. The lath has 1-inch-by-1-inch (25.4 mm by 25.4 mm) square-shaped openings formed by longitudinal and cross wires that are resistance-welded at the wire intersections. The lath has 1/8-inch (3.2 mm) furring crimps spaced at 3 inches (76 mm) on center on each cross wire. The nominal weight of the lath is 0.74 pound per square yard (0.40 kg/m²). The lath is packaged in rolls 36 3/8 inches (923 mm) wide and 150 feet (45 720 mm) long. The lath must be installed in accordance with the evaluation report on the cementitious exterior wall coating system.

2.2 No. 17 Gage STRUCTALATH S.F. CR:

No. 17 gage STRUCTALATH S.F. CR (cold-rolled) is a self-furring, welded wire fabric lath designed for use as an alternative to the 1.16-pound, 0.065-inch (No. 16 B.W. gage), 2-inch-by-2-inch welded-wire fabric lath specified in Table 25-B of the 1997 Uniform Building Code™ (UBC). The lath is intended for reinforcement of exterior plaster complying with

Section 2508 of the UBC, applied to horizontal and vertical surfaces having metal and wood supports. The lath is formed from No. 17 gage, cold-rolled longitudinal wires, rolled flat to dimensions of 0.034 inch (0.086 mm) by 0.072 inch (1.82 mm) (base-metal thickness), and cross wires having a base-metal thickness of 0.054 inch (1.37 mm). The wires before flattening are Class 1, hot-dipped galvanized, low-carbon, cold-drawn steel wire complying with ASTM A 641-92. The lath has 1 1/2-inch-by-1 1/2-inch (38 mm by 38 mm) square-shaped openings formed by longitudinal and cross wires that are resistance-welded at the wire intersections. The lath has 1/4-inch (6.4 mm) furring crimps spaced at 3 inches (76 mm) on center on each cross wire. The nominal weight of the lath is 1.15 pounds per square yard (0.62 kg/m²). The lath is packaged in rolls 38 3/8, 48 or 54 inches (974, 1220 or 1370 mm) wide and 150, 112.5 or 100 feet (45 720, 34 370 or 30 500 mm) long, respectively.

The No. 17 gage STRUCTALATH S.F. CR is installed as specified in Section 2506 of the UBC. The spacing of supports shall be as specified in Table 25-B for No. 16 gage, 2-inch-by-2-inch (51 mm by 51 mm), welded-wire fabric lath. Attachment fastener type and spacing shall be as specified in Table 25-C for wire fabric lath, except that the fasteners shall attach the lath to framing supports either at the furring crimps on the vertical cross wires, at the intersection of the longitudinal and cross wires, or at any point along the longitudinal wire. The lath is installed with the cross wires parallel to the framing; except that at gable walls, the lath may be installed with the long dimension parallel to the roof slope. The lath shall be lapped not less than one mesh at sides and ends. End laps must occur over supports.

2.3 STRUCTA-CORNERS Exterior Corner Reinforcement:

STRUCTA-CORNERS are welded-wire exterior corner reinforcement for plaster. They are manufactured from No. 17 gage or No. 18 gage [0.0495 inch (1.26 mm) or 0.045 inch (1.14 mm)] galvanized wire having No. 16 gage or No. 17 gage [0.060 inch (1.52 mm) or 0.0495 inch (1.26 mm)] galvanized nose wire. Except where noted otherwise in this report, five convoluted and seven longitudinal wires are electrically welded together to form a right-angled section having 2 1/2-inch (57 mm) legs. STRUCTA-CORNERS are attached with appropriate fasteners spaced not more than 18 inches (457 mm) on center. The finish coat is applied so that the nose wire is covered with a minimum of 1/8 inch (3.22 mm) of plaster.

STRUCTA-CORNERS are available in the following styles:

- 1. STRUCTA-CORNER, for straight corners, have No. 17 gage convoluted and longitudinal wires and a No. 16 gage

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nose wire; Premier STRUCTA-CORNERS are available in 8-, 9- and 10-foot (2400, 2740 and 3050 mm) lengths.

2. STRUCTA-CORNER Short Flange has one leg 1½ inches (38 mm) long for special uses, and is available in 10-foot (3050 mm) lengths; it has four No. 17 gage convoluted wires, five No. 17 gage longitudinal wires, and a No. 16 gage nose wire.
3. STRUCTA-CORNER Arch, for forming arches, is available in 8-foot (2400 mm) lengths and has five No. 17 gage convoluted wires, three No. 17 gage longitudinal wires, and one No. 16 gage nose wire.
4. STRUCTA-CORNER Bullnose has No. 17 gage convoluted and longitudinal wires and a rounded nose having either a 7/16- or 7/8-inch (11.1 or 22.2 mm) radius. It is available in 10-foot (3050 mm) lengths.
5. STRUCTA-CORNER Bullnose Short Flange has a rounded nose having either a 7/16- or 7/8-inch (11.1 or 22.2 mm) radius, has one leg shortened to 1½ inches (38 mm), and has four No. 17 gage convoluted wires and seven No. 17 gage longitudinal wires. It is available in 10-foot (3048 mm) lengths.
6. STRUCTA-CORNER One-Coat is designed for use with insulating foam board and cementitious exterior wall coating systems. It is similar in design to STRUCTA-CORNERS, but utilizes No. 18 gage convoluted and longitudinal wires and No. 17 gage nose wire. It is available in 8- and 10-foot (2400 and 3050 mm) lengths.
7. STRUCTA-CORNER One-Coat Short Flange is similar to the STRUCTA-CORNER Short Flange and is formed with a wider open angle, and is designed for use with insulating foam board and cementitious exterior wall coating systems.

2.3 Identification:

Each roll of fabric lath is identified by a label bearing the name and address of STRUCTA WIRE Corp., the product designation of STRUCTALATH, the evaluation report number (ER-5550), and a description of the product (wire gage, lath opening size, roll width and roll length).

STRUCTA-CORNER products are packaged in cartons. Each carton is identified by the product name, the STRUCTA WIRE Corp. company name, and the evaluation report number (ER-5550).

3.0 EVIDENCE SUBMITTED

Descriptive information; a report of comparative transverse load tests; test data in accordance with Section 4.12 of the ICC-ES Acceptance Criteria for Cementitious Exterior Wall Coatings (AC11), dated September 2002; and a quality control manual.

4.0 FINDINGS

That the STRUCTALATH welded-wire fabric lath and the STRUCTA-CORNERS described in this report comply with the 1997 Uniform Building Code™, subject to the following conditions:

- 4.1 The No. 17 gage welded-wire lath is installed in accordance with Section 2.2 of this report and is limited to use as reinforcement for exterior plaster as described in Section 2.2.
- 4.2 The No. 19 × No. 20 gage welded-wire fabric lath is installed in accordance with Section 2.1 of this report and in accordance with a current evaluation report on a cementitious exterior wall coating system.

This report is subject to re-examination in one year.

TABLE 1—STUCCO SYSTEMS PERMITTING USE OF THE NO. 19 × NO. 20 STRUCTALATH S.F. CR WELDED WIRE LATH AS AN ALTERNATIVE TO NO. 20 GAGE WOVEN WIRE LATH

| COMPANY NAME | STUCCO SYSTEM | EVALUATION REPORT NUMBER |
|---|---|--------------------------|
| Kwik Kote Corporation | KWIK KOTE™ Stucco Systems | ER-3607 |
| Expo Stucco Products, A Division of Expo Industries, Inc. | Expo Fibrewall™ Glass Fiber Reinforced Stucco System | ER-4368 |
| Omega Products International Inc. | Omega Diamond Wall Insulating Exterior Stucco System | ESR-1194 |
| UltraKote Products, Inc. | UltraKote-I Stucco System | ER-4658 |
| IMASCO Minerals Inc. | Greatwall Exterior Wall and Insulation Stucco System | ER-5047 |
| La Habra Products, Inc. Parex, Inc. | La Habra-Wall and Parex 210 Exterior Wall Coating and Insulation Systems | ER-4226 |
| Western Stucco Products Co., Inc. | Western 1-Kote Exterior Stucco System, Master Wall One Coat Stucco System, Dryvit Stucco Plus System and Sto One-coat Stucco System | ER-3899 |
| Basalite | Pacific Stucco Fiber Reinforced Stucco | ER-5269 |
| Highland Stucco and Lime Products, Inc. | Highland One Coat Stucco System | ER-5285 |
| E-Z Haul Ready-Mix Inc. | Perma-Wall Glass Fiber Reinforced Exterior Stucco System | ER-5227 |