



Report Number: 0141
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DIVISION: 09-FINISHES
Section: 09205-Furring and Lathing

REPORT HOLDER:

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EVALUATION SUBJECT:

SPIDERLATH REINFORCING FIBERGLASS MESH WITH MULTI-FUNCTION STRIP SYSTEMS

1.0 EVALUATION SCOPE

1.1 Compliance with the following codes

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

1.2 Evaluated in accordance with

ICC Evaluation Service Acceptance Criteria for Glass Fiber Lath Used In Cementitious Exterior Wall Coatings or Exterior Cement Plaster (Stucco), dated April 2011

1.3 Properties evaluated

- Physical Properties
- Structural
- Durability
- Non-Combustibility

2.0 USES

SpiderLath is a fiberglass lath designed to be an alternative to metal lath used with exterior portland cement-based plaster (stucco) complying with Chapter 25 of the IBC or Chapter 7 of the IRC and cementitious exterior wall coatings recognized in current valid evaluation reports. In addition, exterior portland cement-based plaster (stucco) reinforced with SpiderLath fiberglass lath may be used to support precast stone veneer when specifically described in a current evaluation or research report.

3.0 DESCRIPTION

3.1 General: SpiderLath consists of mesh and either ¼ inch (6.4 mm) or ⅜ inch (9.5 mm) thick fastener strips. The ⅜ inch thick strip SpiderLath roll size is 4 feet (1219 mm) wide by 75 feet (23 mm) long with rolled-up dimensions of 22 inches (559 mm) by 48 inches (1219 mm). The roll weighs 21 pounds (9.5 kg). The ¼ inch thick strip SpiderLath roll size is 4 feet (1219 mm) wide by 75 feet (23 mm) long with rolled-up dimensions of 17 inches (432 mm) by 48 inches (1219 mm). The roll weight is 19 pounds (8.6 kg). The mesh is a three dimensional Leno Weave with a weight of 8.82 oz. per sq. yd (300 g/m²), opening size of 0.25 square inches (161 mm²), and a semi rigid coating. The mesh vertical strand dimensions are 0.085 inch (2.1 mm) by 0.027 inch (0.69 mm) and the horizontal strand dimensions are 0.048 inch (1.2 mm) by 0.029 inch (0.73 mm). The fiberglass mesh is attached to the foam strip material through a heating and pressure process using a strip machine.

3.2 Materials: The mesh is produced from alkali resistant (AR) fiberglass containing 14.5 percent Zirconium Dioxide (ZrO²). The rigid stripping is formed from closed cell foam plastic.

4.0 INSTALLATION

4.1 General: The code-specified solid substrate and weather-resistive barrier must be installed before placing SpiderLath. SpiderLath must be installed with the spacer strips placed against the substrate in any direction, to creating a void that subsequently must be filled with the plaster or mortar scratch coat. The lath is to be installed with a minimum 2 inch (51 mm) overlap at horizontal and vertical edges. The lath must be applied flat and stretched tight against the substrate. Figure 1 provides standard installation details.

4.2. Fasteners

4.2.1. Wood Studs

4.2.1.1 The SpiderLath must be fastened to each of the wall studs at 6 inches (152 mm) on center vertically in accordance with the minimum requirements in Section 7.10 of ASTM C 1063 or IRC Section R 703.6.1, as applicable. Fasteners must be a minimum No.16 gauge staple, with a minimum ¼ inch (19 mm) wide crown. All fasteners must be corrosion-resistant.



EVALUATION REPORT



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4.2.1.2 Fasteners must be applied only into the strip system to prevent moisture damage to the substrate. Fasteners must be of sufficient length to penetrate studs a minimum of ¼ inch (19 mm).

4.2.2 Steel Studs

4.2.2.1. For steel surfaces and steel stud applications, a 2 inch (51 mm) diameter steel washer and a No. 6, Type S self-tapping screw of sufficient length to penetrate at least ⅜ inch (9.5 mm) beyond the steel surfaces are required.

4.2.2.2. Screws must be applied only into the strip system to prevent moisture damage to the substrate.

4.2.3. Mortar Setting Bed

4.2.3.1. Mortar: Type N or S mortar complying with ASTM C270 and IBC Section 2103.8.

4.2.3.2. Masonry Sand: Natural or manufactured sand complying with ASTM C 144, that is clean and free from deleterious amounts of loam, clay, silt, soluble salts and organic matter.

4.2.3.3. Water: Potable water must be clean and free from injurious amounts of oils, acids, alkalis, salts, organic minerals or other deleterious substances.

4.2.4. Applying First or Scratch Coat

4.2.4.1 The first or scratch coat of mortar or plaster must be prepared and applied in accordance with ASTM C926 and the requirements of this section.

4.2.4.2. The mortar or plaster scratch coat must be applied with sufficient pressure to force mortar through openings to completely fill area between lath and substrate. A minimum ¼ inch (6.4 mm) thick layer of mortar or plaster first must be placed to fill area between lath and substrate made by furring strip system followed by an additional minimum ¼ inch (6.4 mm) of mortar or plaster to outside of lath.

4.2.4.3. Scarifying the surface of the mortar or plaster scratch coat in a horizontal direction may be performed to increase the surface bonding properties when veneer masonry unit is applied.

4.2.4.4. The mortar or plaster scratch coat needs to cure to a point where veneer masonry unit with mortar setting bed or plaster second (brown) coat can be applied without damage to the scratch coat. Cure time varies with ambient temperature and humidity.

5.0 CONDITIONS OF USE

5.1 Weight of stone veneer must be 15 psf (718 Pa) or under and listed in ICC ESR-1364. Report holder: Owens Corning. Report to be current and valid.

5.2 SpiderLath must be installed with the strips against the substrate.

5.3 SpiderLath is limited to Type V construction that is not required to be fire-resistance-rated.

5.4 Use of SpiderLath to provide in-plane racking shear resistance and wall bracing is beyond the scope of this report.

5.5 SpiderLath must be stored in a dry location.

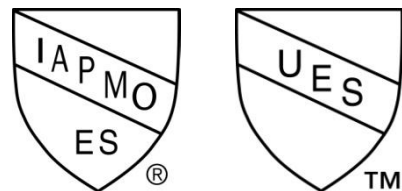
5.6 For installation with adhered veneer, the backing using Spiderlath requirements must comply with Section 6.3.2.3 of TMS 402-11/ACI 530-11/ASCE 5-11.

6.0 EVIDENCE SUBMITTED

Data in accordance with ICC-ES AC 275, dated April 2011. Test results are from laboratories in compliance with ISO/IEC 17025.

7.0 IDENTIFICATION

The product is to be identified with a label identifying the company name, roll dimensions, and IAPMO-UES report number 0141.



IAPMO UES #0141

Richard Beck

Richard Beck, PE, CBO, MCP
Director of Uniform Evaluation Service

Russ Chaney

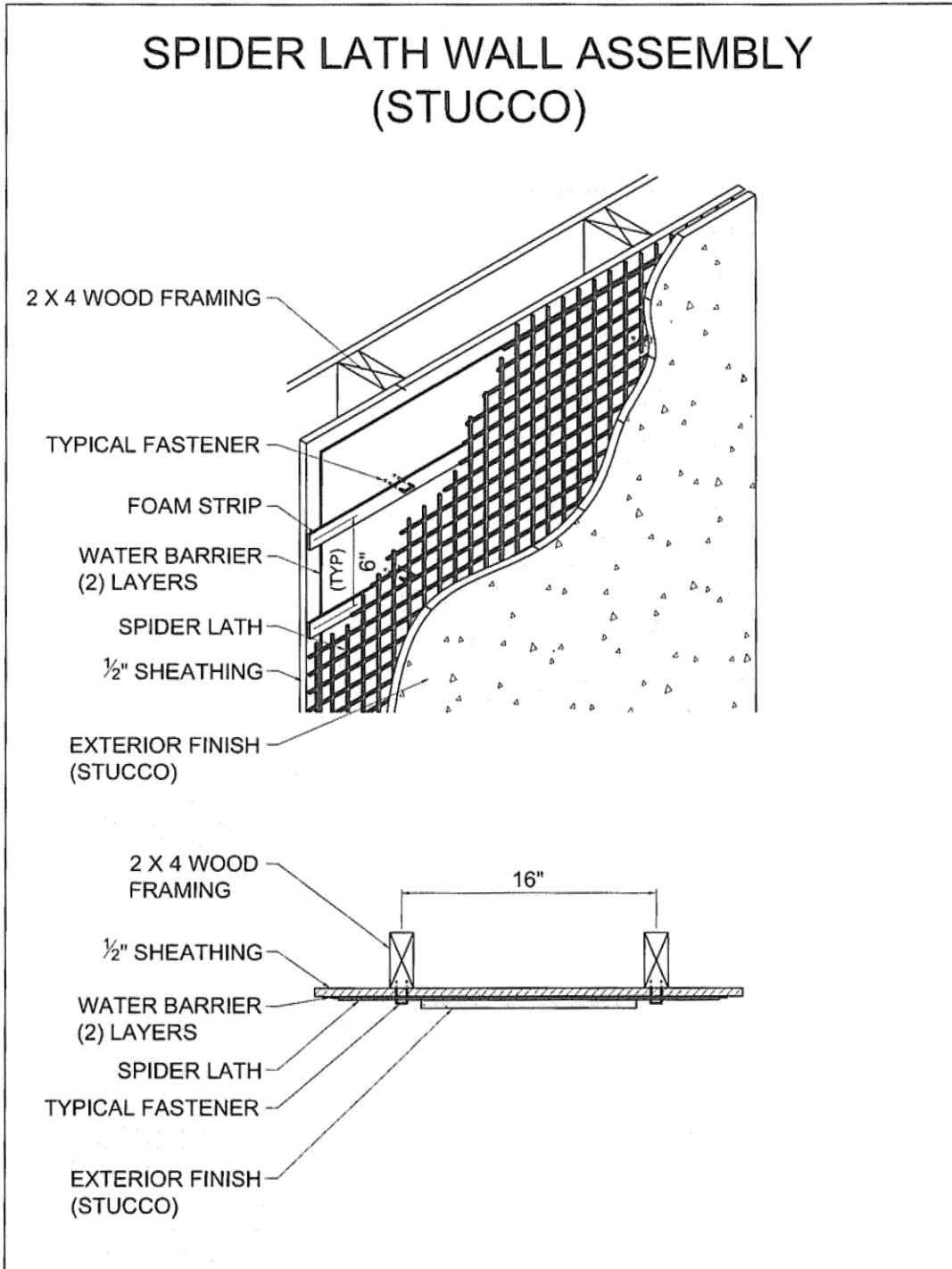
GP Russ Chaney
CEO, The IAPMO Group

EVALUATION REPORT



Report Number: 0141
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Figure 1



EVALUATION REPORT



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SPIDER LATH WALL ASSEMBLY (STONE VENEER)

