



SPIDERLATH
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REINFORCING FIBERGLASS MESH WITH A MULTI-FUNCTION STRIP SYSTEM

CSI Section:
09 22 36 Lath

1.0 RECOGNITION

SpiderLath Reinforcing Fiberglass Mesh has been evaluated for use as glass-fiber lath in cementitious exterior wall coatings, cement plaster (stucco), and precast stone veneer cladding systems.

The physical, structural, durability, and combustibility properties of the lath have been evaluated for compliance with the following codes:

- 2021, 2018, 2015, and 2012, International Building Code® (IBC)
- 2021, 2018, 2015, and 2012 International Residential Code® (IRC)
- 2023 Florida Building Code, Building (FBC, Building) – attached supplement
- 2023 Florida Building Code, Residential (FBC, Residential) – attached supplement

2.0 LIMITATIONS

Use of the SpiderLath Reinforcing Fiberglass Mesh recognized in this report is subject to the following limitations:

2.1 Use of the SpiderLath Reinforcing Fiberglass Mesh to support precast stone veneer shall be limited to products recognized in a current report evaluated in accordance with AC51, and its use shall be acceptable to the manufacturer of the precast stone veneer system.

2.2 The maximum weight of the stone veneer shall be 15 psf (73 kg/m²).

2.3 Use of SpiderLath mesh shall be limited to Type V, non-fire-resistance-rated construction.

2.4 Use of SpiderLath mesh as a structural backing material in lateral force resisting systems is outside the scope of this report.

2.5 SpiderLath mesh shall be stored in a dry location.

2.6 Use of the SpiderLath Reinforcing Fiberglass Mesh with cementitious exterior wall coatings shall be limited to products recognized in a current evaluation report that has been qualified for use with SpiderLath Fiberglass Reinforcing Mesh.

2.7 The reinforcing fiberglass mesh recognized in this report is produced by SpiderLath in Smackover, Arkansas.

3.0 PRODUCT USE

Use of SpiderLath Reinforcing Fiberglass Mesh shall comply with the applicable codes, the manufacturer's installation instructions, and this report. Where conflicts occur, the more restrictive shall govern.

3.1 General: SpiderLath mesh is designed to be an alternative to metal wire mesh lath used in cementitious exterior vertical wall coatings recognized in current evaluation reports, or exterior cement plaster (stucco) complying with Chapter 25 of the IBC or Chapter 7 in the IRC. This report also covers the use of glass-fiber lath intended to support precast stone veneer.

3.2 Installation

SpiderLath Reinforcing Fiberglass Mesh shall be installed on vertical walls with the Multi-Function Strip System spacer strips against the substrate. The resulting void shall be filled with cement plaster or mortar scratch coat. The lath shall be installed with a minimum 2-inch (51 mm) overlap at horizontal and vertical edges and shall be applied flat and stretched tight against the substrate. [Figure 1](#) of this report provides stone veneer installation details and [Figure 2](#) of this report includes standard stucco installation details.

The fasteners shall be installed only into the Multi-Function Strip System to compress and re-seal the penetrations made by the fasteners in the water-resistive barrier, to prevent moisture damage to the substrate.

3.3 Fasteners

3.3.1 Wood Studs

The lath shall be fastened to each of the wall studs at 6 inches (152 mm) on center vertically in accordance with the minimum requirements of Section 7.0 of ASTM C1063 or 2021 and 2018 IRC Section R703.7.1, and 2015 and 2012 IRC Section R703.6.1, as applicable. Fasteners shall be a minimum No. 16 gage staples, with a minimum ¾-inch (19 mm) crown. All fasteners shall be coated or galvanized steel and shall be of sufficient length to penetrate into the stud a minimum of ¾ inch (19 mm).

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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3.3.2 Metal Studs

For metal surfaces and metal stud applications, a 2-inch (51 mm) washer and a No. 6 Type S self-tapping screw of sufficient length to penetrate at least $\frac{3}{8}$ inch (9.5 mm) beyond the metal surfaces shall be used.

3.4 Mortar for Use with Stone Veneer

Masonry mortar shall comply with 2021, 2018, and 2015 IBC Section 2103.2, 2012 IBC Section 2103.9, 2021 and 2018 IRC Section 606.2.8, 2015 IRC Section R606.2.7, and 2012 IRC Section 607.1, as applicable.

3.5 Applying Scratch Coat

3.5.1 The mortar scratch coat shall be applied with sufficient pressure to force mortar through openings to completely fill area between lath and substrate. A minimum of $\frac{1}{4}$ inch (6.3 mm) of mortar shall be applied to fill the area between lath and substrate made by furring strip system and a minimum of $\frac{1}{4}$ inch (6.3 mm) of mortar shall be applied to the outside of the lath.

3.5.2 The surface of the mortar scratch coat shall be scarified in a horizontal direction to increase the surface bonding properties when the stone veneer unit is applied.

3.5.3 The mortar scratch coat shall be left to cure to a point where the stone veneer unit will adequately adhere to the scratch coat. Cure time varies with ambient temperature and humidity.

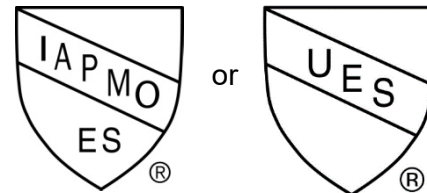
4.0 PRODUCT DESCRIPTION

SpiderLath Reinforcing Fiberglass Mesh is an Alkali resistant (AR) fiberglass mesh containing 14.5 percent Zirconium Dioxide (ZrO_2). SpiderLath rolls come with $\frac{1}{4}$ -inch-thick (6.3 mm) or $\frac{3}{8}$ -inch-thick (9.5 mm) Multi-Function Strip System fastener strips. The fastener strips are made of a closed cell foam. The SpiderLath rolls are 4 feet wide by 75 feet long (1.2 m x 22.9 m) and weigh approximately 21 pounds (9.5 kg). The mesh is a three-dimensional Leno weave with a weight of 8.82 oz/yd² (300 g/m²), opening size of 0.25 in² (161 mm²), and has a semi-rigid coating. The fiberglass mesh is attached to the foam strip material using a heat and pressure process.

5.0 IDENTIFICATION

The product is identified with a label identifying the company name, the product name, the size of the fastener strip, roll dimensions, and IAPMO UES report number (ER-141).

Either IAPMO UES Mark of Conformity may also be used as shown below.



IAPMO UES ER-141

6.0 SUBSTANTIATING DATA

6.1 Data in accordance with ICC Acceptance Criteria for Glass Fiber Lath Used in Cementitious Exterior Wall Coatings or Exterior Cement Plaster (Stucco), AC275.

6.2 Tensile Strength testing in accordance with ASTM E2098.

6.3 Transverse load testing in accordance with ASTM E330.

6.4 Surface burning test in accordance with ASTM E84.

6.5 Test reports are from laboratories in compliance with ISO/IEC 17025.

7.0 STATEMENT OF RECOGNITION

This evaluation report describes the results of research carried out by IAPMO Uniform Evaluation Service on SpiderLath reinforcing fiberglass mesh to assess its conformance to the codes shown in Section 1.0 of this report and documents the product's certification. Products are manufactured at locations noted in Section 2.7 of this report under a quality control program with periodic inspections under the supervision of IAPMO UES.

For additional information about this evaluation report please visit www.uniform-es.org or email us at info@uniform-es.org

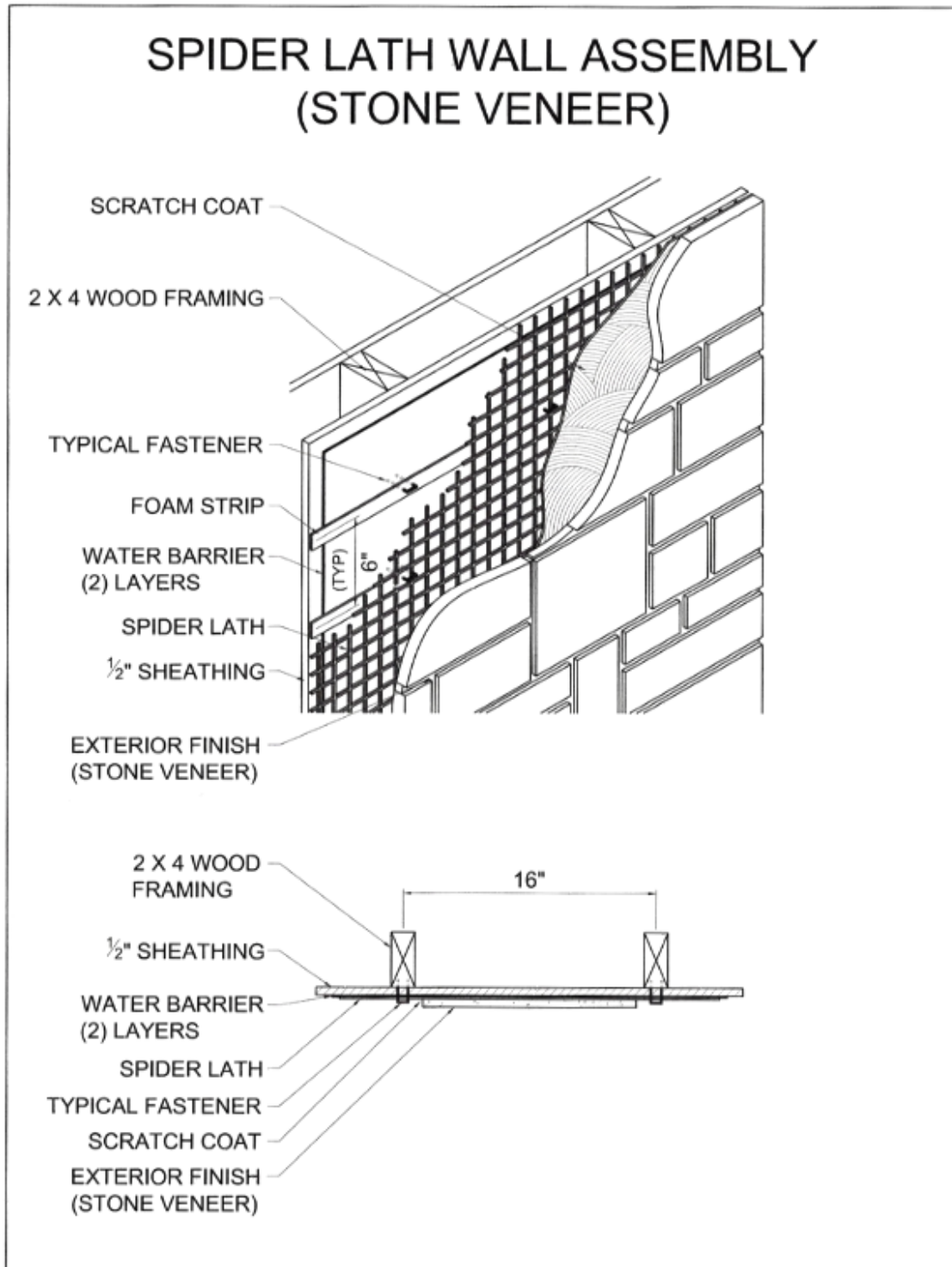


FIGURE 1
STONE VENEER INSTALLATION DETAILS

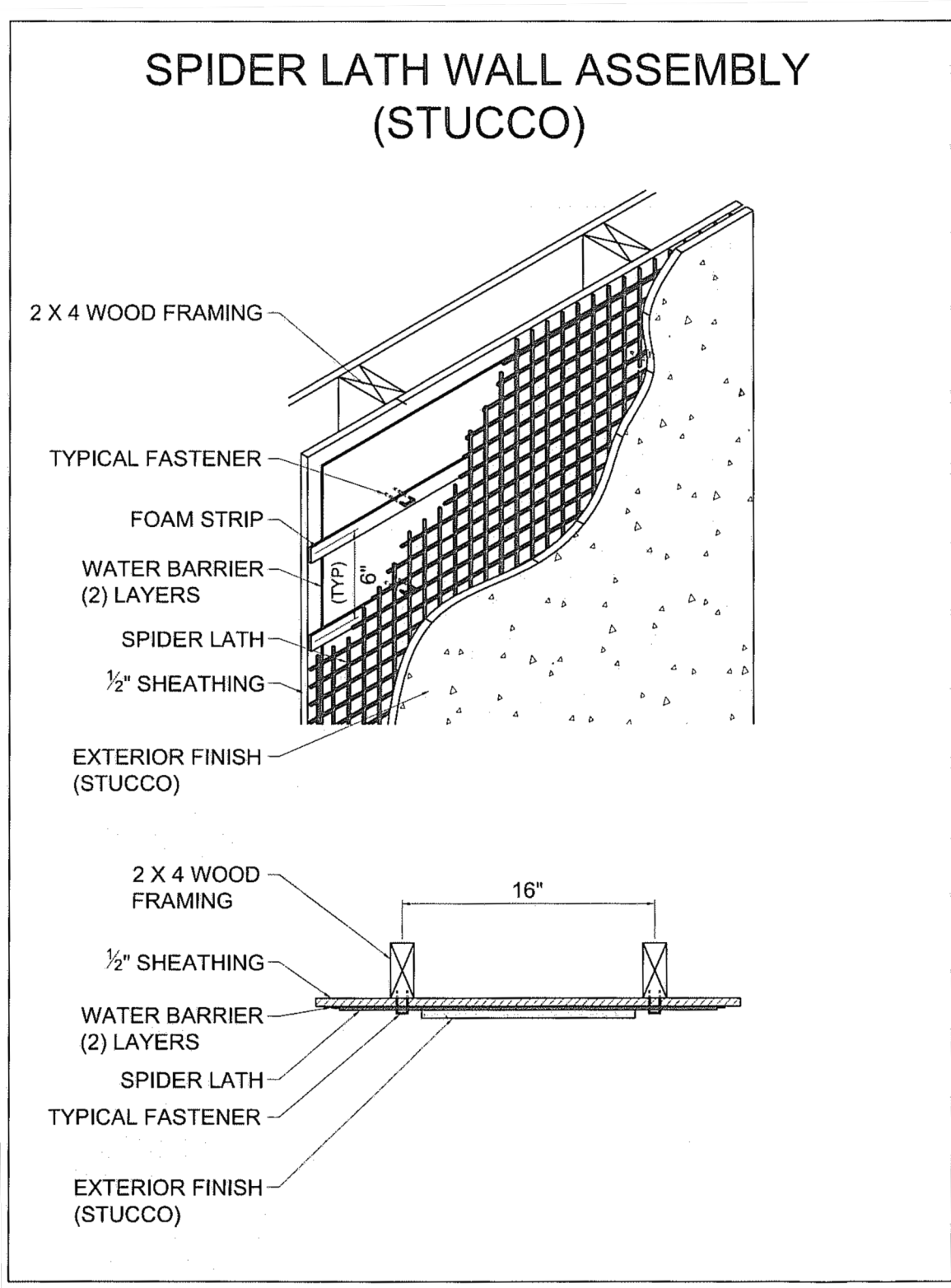


FIGURE 2
STANDARD STUCCO INSTALLATION DETAILS



FLORIDA SUPPLEMENT

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CSI Section:
09 22 36 Lathing

1.0 RECOGNITION

The SpiderLath fiberglass mesh with a multi-function strip system evaluated in IAPMO UES ER-141 is a satisfactory alternative to the lath prescribed in the following codes and regulations:

- 2023 Florida Building Code, Building (FBC, Building)
- 2023 Florida Building Code, Residential (FBC, Residential)

2.0 LIMITATIONS

SpiderLath fiberglass mesh described in IAPMO UES ER-141 complies with the FBC, Building, and the FBC, Residential, subject to the following limitation:

2.1 SpiderLath fiberglass mesh shall comply with the provisions applicable to the 2021 IBC or 2021 IRC as described in ER-141.

2.2 Evaluation to the high-velocity hurricane zone provisions of the FBC, Building and the FBC, Residential, is beyond the scope of this report.

2.3 This supplement expires concurrently with ER-141.

3.0 QUALITY ASSURANCE

Verification has been provided that a product quality assurance entity approved by the Florida Building Commission has audited the manufacturer's quality assurance program and audits the production quality, in accordance with Section (5)(d) of Florida Rule 61G20-3.008.

For additional information about this evaluation report please visit www.uniform-es.org or email us at info@uniform-es.org