LISTING REPORT Number: UEL-5039

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ULTRA-LATH® PLUS HDPE LATH

CSI Section:
09 22 36 Lath

1.0 SCOPE OF LISTING

1.1 Compliance with the Following Standards:

- ASTM C482-20, Standard Test Method for Bond Strength of Ceramic Tile to Portland Cement Paste.
- ASTM E2098-13 (Reapproved 2018), Standard Test Method for Determining the Tensile Breaking Strength of Glass Fiber Reinforcing Mesh for Use in Class PB Exterior Insulation and Finish Systems (EIFS), after Exposure to a Sodium Hydroxide Solution.

1.2 Properties Assessed:

- Shear Strength and Tensile Breaking Strength of Ultra-Lath® Plus embedded in cement plaster (stucco)

2.0 FINDINGS

2.1 Product Information: Ultra-Lath® Plus lath is a high-density polyethylene diamond patterned mesh with integral ¼-inch (6.4 mm) thick fastening strips and is used as an alternative to metal lath. The Ultra-Lath® Plus material weights 3.2 oz. per sq. yd. (108 g/m^2) and is available in 27-inch wide x 96-inch (696 mm x 2438 mm) long sheets, 27-inch (686 mm) wide by up to 100 feet (30 480 mm) long rolls, and in 3- inch, 4-inch, 6-inch and 8-inch (76 mm, 102 mm, 152 mm and 203 mm) wide strips.

2.2 Shear Strength: Ultra-Lath® Plus when installed in accordance with Section 4.0 of this report has shear strength performance as indicated in Table 1 of this report. The shear strength of each assembly was tested in accordance with ASTM C482.

2.3 Tensile Strength: Ultra-Lath® Plus when installed in accordance with Section 4.0 of this report has tensile breaking strength performance as indicated in Table 2 of this report. The tensile breaking strength of each assembly was tested in accordance with ASTM E2098.

3.0 LIMITATIONS

Ultra-Lath® Plus as described in this report has the following limitations:

3.1 Ultra-Lath® Plus shall be manufactured, identified, and installed in accordance with this report.

3.2 Ultra-Lath® Plus is to be labeled with reference to IAPMO UES ER-284.

3.3 Ultra-Lath® Plus recognized in this report is produced by Plastic Components, Inc. in Miami, Florida.

4.0 Installation

4.1 General: The lath shall be installed in accordance with the manufacturer's published installation instructions. A copy of the instructions and this listing report shall be available at all times on the jobsite during installation.

4.2 Assemblies: Three separate configurations were tested. All assemblies included two 8" (203 mm) CMU blocks and a 3/8-inch (9.525 mm) thick scratch and 3/8-inch (9.525 mm) thick brown coat stucco meeting ASTM C926. The stucco is applied on both faces of the block assembly.

The first configuration tested included only the CMU blocks with stucco bonding the joint of the two CMU blocks. This configuration is described in Table 1 and 2 as "CMU blocks with stucco".

The second configuration tested included stucco and a 7 ½-inch (190.5 mm) long strip of 6-inch (152.4 mm) wide Ultra-Lath® Plus spanning and centered on the joint of the two CMU blocks. This configuration is described in Table 1 and 2 as "CMU block with stucco and Ultra-Lath® Plus".

The third configuration tested included stucco and a 7 ½-inch (190.5 mm) long strip of 6-inch (152.4 mm) wide Ultra-Lath® Plus spanning and centered on the joint of the two CMU blocks. The lath is mechanically fastened to the blocks using three concrete anchors on each CMU block. The anchors are installed 1-1/2 inches (38.1 mm) away from the joint, edge distances, and center to center spacing along the length of the joint. This configuration is described in Table 1 and 2 as "CMU block with stucco and Ultra-Lath® Plus and concrete anchors".

5.0 IDENTIFICATION

Ultra-Lath® Plus is identified by a label affixed on product packaging. The label shall include the company name (Plastic Components, Inc), product name, evaluation report number (ER-284), name of the inspection agency (Quality Control Consultants) and one of the following IAPMO Uniform Evaluation Service Mark of Conformity. Either Mark of Conformity may be used.

IAPMO or UES

IAPMO UES UEL-5039

6.0 SUBSTANTIATING DATA

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

6.2 Reports of shear strength testing in accordance with ASTM C482-20.

6.3 Report of tensile breaking strength testing in accordance with ASTM E2098-13.

7.0 STATEMENT OF RECOGNITION

This listing report describes the results of research completed by IAPMO Uniform Evaluation Service on Plastic Components, Inc's Ultra-Lath® Plus to assess conformance to the standards shown in Section 1.0 of this report and serves as documentation of the product certification. Products are manufactured at the location noted in Section 3.3 of this report under a quality control program with periodic inspection 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

Table 1- Shear Strength

Assembly	Average Maximum Load (lbs.)	Average Load at 1 second after Maximum Load Reached (lbs.)	Average Load at 30 seconds after Maximum Load Reached (lbs.)	Average Load at 60 seconds after Maximum Load Reached (lbs.)
CMU blocks with stucco	2,665	0	0	0
CMU block with stucco and Ultra-Lath® Plus	2,396	1,055	809	750
CMU block with stucco and Ultra-Lath® Plus and concrete anchors[1]	2,519	1,210	923	896

For SI: 1-inch = 25.4 mm, 1lb = 4.4 N

[1] Concrete anchors used in testing were Tapcon ¼-inch diameter by 1 ¼-inch long.

Table 2-Tensile Breaking Strength

Assembly	Average Maximum Load (lbs.)	Average Load at 1 second after Maximum Load Reached (lbs.)	Average Load at 30 seconds after Maximum Load Reached (lbs.)	Average Load at 60 seconds after Maximum Load Reached (lbs.)
CMU blocks with stucco	1,133	0	0	0
CMU block with stucco and Ultra-Lath® Plus	1,236	699	638	418
CMU block with stucco and Ultra-Lath® Plus and concrete anchors[1]	2,146	660	579	0

For SI: 1-inch = 25.4 mm, 1lb = 4.4 N

[1] Concrete anchors used in testing were Tapcon ¼-inch diameter by 1 ¼-inch long.