SECTION 07060

RAINSCREEN DRAINAGE LATH

Display hidden notes to specifier. (Don't know how? Click Here).

** NOTE TO SPECIFIER ** Westlake; rainscreen drainage lath for draining and drying wall system.

This section is based on the products of Westlake, which is located at:
200 Mansell Court E. Suite 305
Roswell GA 30076
Toll Free: 800-255-1727
Tel: 866-557-8663
Fax: _____
Email: _____
Web: www.drainndrylath.com
[Click Here] for additional information.

Introducing the Drain-N-Dry™ Lath, the reinvention of the draining and drying wall system that unifies each critical component into a single, high-performance product; one that requires less fasteners and fewer penetrations. What's more, by seamlessly integrating a chemical and corrosion resistant fiberglass lath, a 0.4 in (10 mm) rainscreen into individual 150 sq ft (13.9 sq m), easy-to-cut, lightweight rolls. When used with a single layer of water-resistive barrier equal to 60 mil building paper, Drain-N-Dry™ Lath Lath eliminates the requirement for a second layer of water resistive barrier. Drain-N-Dry™ Lath actually reduces your installation time to help you quickly deliver a final product that will last the test of time.

PART 1 GENERAL

1.1 SECTION INCLUDES

** NOTE TO SPECIFIER ** Delete, add items below not required for project.

A. Ventilated rainscreen lath, drainage membrane behind absorptive cladding.

B. Lath used as substrate to apply cement stucco plaster.

1.2 RELATED SECTIONS

** NOTE TO SPECIFIER ** Delete any sections below not relevant to this project; add others as required.

A. Section 04200 - Units Masonry.

B. Section 04720 – Architectural Cast Stone

C. Section 04730 - Manufactured Stone Veneer

D. Section 06100 - Rough Carpentry.

E. Section 06160 - Sheathing.

F. Section 07460 - Siding.

G. Section 07240 - Exterior Insulation and Finish Systems (EIFS).

H. Section 07450 - Fiber-Reinforced Cementitious Panels.

I. Section 07650 - Flexible Flashings.

J. Section 09220 - Portland Cement Plaster.

1.3 REFERENCES

** NOTE TO SPECIFIER ** Delete references from the list below that are not actually required by the text of the edited section.

A. American Association of Textile Chemists and Colorists (AATCC):
   1. AATCC 127 - Hydrostatic Pressure Test.

B. ASTM International (ASTM):
   1. ASTM C1338 - Standard Test Method for Determining Fungi Resistance of Insulation Materials and Facings.
   2. ASTM D1777 - Standard Test Method for Thickness of Textile Materials.
   3. ASTM D6364 - Standard Test Method for Determining Short-Term Compression Behavior of Geosynthetics.
   4. ASTM E96 - Standard Test Methods for Water Vapor Transmission of Materials.
   5. ASTM E2273 - Standard Test Method for Determining the Drainage Efficiency of Exterior Insulation and Finish Systems (EIFS) Clad Wall Assemblies.

C. German Institute for Standardization (DIN):
   1. DIN 4102 – Fire Test to Building Materials.

D. International Code Council (ICC):
   1. ICC ES AC-11 - Cementitious Exterior Wall Coatings.
   2. ICC ES AC-38 - Acceptance Criteria for Water Resistive Barriers.
   3. ICC ES AC-275 - Glass Fiber Lath Used in Cementitious Exterior Wall Coatings or Exterior Cement Plaster (Stucco).
   4. ICC ES AC 356 - Moisture Drainage Systems Used with Exterior Cement Plaster or Adhered Masonry Veneer Walls.

E. Underwriters Laboratories Canada (ULC):
   1. ULC S102.2 - Surface Burning Characteristics of Flooring, Floor Coverings, and Miscellaneous Materials and Assemblies.

1.4 SUBMITTALS

A. Submit under provisions of Section 01300.

B. Product Data: Manufacturer's data sheets on each product to be used, including:
   1. Manufacturer's printed installation instructions, showing required preparation and installation procedures.
   2. Storage and handling requirements and recommendations.
   3. Installation methods.
   4. Cleaning and maintenance instructions.

C. Verification Samples: For each product specified, two 6 inches (150 mm) square samples.

D. Closeout Submittals: Documentation of manufacturer's warranty.

1.5 QUALITY ASSURANCE

A. Installer: Minimum 2 years experience with similar drainage mat materials.

** NOTE TO SPECIFIER ** Include a mock-up if the project size and/or quality warrant the precaution. When deciding on the extent of the mock-up, consider the major different types of work on the project.

B. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
   1. Finish areas designated by Architect.
   2. Do not proceed with remaining work until workmanship and appearance are approved by Architect.
   3. Subject to approval by Architect, mock-up may be retained as part of finish work.

C. Pre-Installation Meetings: Conduct pre-installation meetings to verify project requirements, substrate conditions, construction documents, details and manufacturer's warranty requirements.

D. Maximum UV (Sunlight) Exposure: Do not expose to UV light for longer than 30 days, before, during, and after installation.

1.6 DELIVERY, STORAGE, AND HANDLING

A. Delivery: Deliver materials in manufacturer's original, unopened, undamaged rolls/pallets with identification labels intact.

B. Storage and Protection: Store materials protected from exposure to harmful environmental conditions and at temperature and humidity conditions recommended by the manufacturer.

1.7 PROJECT CONDITIONS

A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

1.8 WARRANTY

A. Manufacturer's Warranty: Manufacturer's standard warranty document executed by authorized company official.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Acceptable Manufacturer: Westlake Royal Stone Solutions, which is located at: 200 Mansell Court E., Suite 305, Roswell GA 30076; ASD Toll Free: 800-255-1727; Tel: 866-557-8663; Fax: _____; Email: _____; Web: www.drainndrylath.com.

** NOTE TO SPECIFIER ** Delete one of the following two paragraphs; coordinate with requirements of Division 1 section on product options and substitutions.

B. Substitutions: Not permitted.

C. Requests for substitutions will be considered in accordance with provisions of Section 01600.

2.2 VENTILATED RAINSCREEN DRAINAGE MAT

A. Basis of Design: Drain-N-Dry™ Lath.
   1. Material: High-density polyethylene with a layer of glass fiber lath bonded on

one face. Oxidation and UV stabilized.

2. System Performance Requirements:
   a. ICC-ES AC 11: Transverse loading to exceed code prescribed for steel wire lath system.
   b. Attachment per ICC-ES AC 275: Greater than or equal to 48 lbs (21.7 kg).
   c. Fastener Attachment per ICC-ES AC 275: Greater than or equal to 85 lbs (38.5 kg).
   d. Embedment per ICC-ES AC 275: Greater than or equal to 0.120 in (3 mm).
3. Dimensions:
   a. Roll Size: 39.4 in (1000 mm) wide by 46 ft (14 m) long, 150 sq ft (13.9 sq m).
   b. Profile: 0.43 in (11 mm) thick.
4. Physical Characteristics:
   a. Dimple Height per ASTM D1777: Approx. 0.41 in (10.5 mm).
   b. Water Penetration Resistance per AATCC 127: 118 psi (813 kPa) watertight.
   c. Water Vapor Transmission per ASTM E96, Method A: 0.384 US perms (22 ng per sec, per sq m, per Pa).
   d. Vapor Permeance per ASTM E96, Method A: 0.14 perms (8 ng per sec, per sq m, per Pa).
   e. Temperature Range: Minus 22 to 176 degrees F (minus 30 to 80 degrees C).
   f. Contact Surface of Rainscreen to Water-Resistive Barrier: Less than 20 percent and greater than 80 percent open.
   g. Fastener Band: Every 6 in (152 mm).
   h. Nominal Weight: 10.2 lbs per 100 sq ft (55 g per sq m).
   i. Color: Green.
5. Physical Properties:
   a. Compressive Strength per ASTM D6364: 93 kPa (1,946 psf) at 8 percent strain.
      1) Glass Lath Only per ICC-ES AC 275: Tensile strength120 lbs (54.4 kg) minimum.
   b. Drainage Efficiency per ASTM E2273: Approx. 95 percent.
   c. Fungus Resistance per ASTM C1338: Does not support fungus growth.
   d. Fire Resistance per DIN 4102: B2.
   e. Surface Burning Characteristics excluding fiberglass lath sheeting and adhering adhesive.
      1) Flame Spread per ULC-S102.2: 210.
      2) Smoke Developed per ULC-S102.2: 105 to 190.
   f. Rainscreen Only per ICC-ES AC 356:
      1) Drainage: 75 percent minimum efficiency.
      2) Accelerated Weathering: No surface cracking, checking, crazing or erosion.
      3) Durability: No fungal growth.
6. Chemical Properties:
   a. Excellent chemical resistance, rot-proof.
   b. Toxicity: Non-toxic, non-polluting.

** NOTE TO SPECIFIER ** Delete article if not required.

2.3 ACCESSORIES

** NOTE TO SPECIFIER ** Delete accessory not required

A. Drain-N-Dry™ Topside Ventilation Trim as manufactured and supplied by Westlake.

1. Bug Mesh: Incorporated into the design.
2. Material: PVC, UV resistant.
3. Projection from Wall: 2-1/4 in (57 mm).
4. Attachment Flange: 1-1/4 in (31 mm).
5. Length: 10 ft (3.05 m) standard.

B. Drain-N-Dry™ Weepscreed Starter Strip as manufactured and supplied by Westlake.
1. Material: PVC, UV resistant.
2. Projection from Wall: 7/8 in (22 mm).
3. Attachment Flange: 3-1/2 in (89 mm).
4. Length: 10 ft (3.05 m) standard.

PART 3 EXECUTION

3.1 EXAMINATION AND PREPARATION

A. If preparation is the responsibility of another installer, notify Architect in writing of deviations from manufacturer's recommended installation tolerances and conditions.

B. Do not proceed with installation until substrates have been properly prepared and deviations from manufacturer's recommended tolerances are corrected. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

C. Commencement of installation constitutes acceptance of conditions.

3.2 INSTALLATION

A. Install in accordance with manufacturer's written instructions and recommendations as applicable to specified application.

B. Install products in strict accordance with manufacturer’s instructions, approved submittals and the following:
1. Install ventilated rainscreen horizontally with dimple side facing the water-resistive barrier.
2. Install sheets tight at side laps and end laps, overlapping the fiberglass lath. Do not overlap or interlock the plastic dimple layer.
3. Secure to substrate at edges and in the field of the sheet using fasteners and methods recommended by manufacturer.
4. Do not seal or block rainscreen at top or bottom of installation.

3.3 CLEANING AND PROTECTION

A. Protect installed ventilated rainscreen from damage during application and remainder of construction period, per manufacturer’s written instructions.

B. Coordinate with installation of materials which cover the ventilated rainscreen, to ensure exposure period does not exceed that recommended by the manufacturer.

END OF SECTION