SECTION 07 24 19
WATER-DRAINAGE EXTERIOR INSULATION AND FINISH SYSTEM (EIFS)

PART 1 - GENERAL

1.01 SUMMARY

A. Section includes:
   1. Water-drainage exterior insulation and finish system (EIFS).
   2. Direct-applied finish system (DEFS).

1.02 PERFORMANCE REQUIREMENTS

A. Class PB EIFS: Physical properties and structural performance that comply with ICC-ES AC235.
   1. Drainage: According to ICC-ES AC235.

1.03 SUBMITTALS

A. Product Data: For each type and component of EIFS indicated.

B. Shop Drawings: For EIFS and DEFS. Include plans, elevations, sections, details of components, details, penetrations, terminations, joints, fasteners, and attachments to other work.

C. Samples: For each exposed product and for each color and texture specified.

D. Material or product certificates.

E. Evaluation reports.

F. Maintenance data.

1.04 QUALITY ASSURANCE

A. Installer Qualifications: An installer who is certified in writing by EIFS manufacturer as qualified to install manufacturer's system using trained workers.

B. Source Limitations: Obtain EIFS from single source from single EIFS manufacturer and from sources approved by EIFS manufacturer as compatible with system components.

C. Fire-Test-Response Characteristics: Provide EIFS, DEFS and system components with the following fire-test-response characteristics as determined by testing identical EIFS and system components per test method indicated below by UL or another testing and inspecting agency acceptable to authorities having jurisdiction. Identify products with appropriate markings of applicable testing agency.
   1. Radiant Heat Exposure: No ignition of EIFS per NFPA 268.
   2. Potential Heat: Acceptable level per NFPA 259.

3. Surface-Burning Characteristics: Insulation board, adhesives, base coats, and finish coats with flame-spread index of 25 or less and smoke-developed index of 450 or less, per ASTM E 84.

PART 2 - PRODUCTS

2.01 SYSTEMS

A. Wall System: Water-managed, mechanically-attached EIFS system, suitable for use over drainage-type building wrap specified in Section 07 28 00 – Weather-Resistive Barriers.

B. Basis-of-Design: Subject to compliance with requirements, provide BASF Wall Systems; Senergy Senturion I, or equivalent product by one of the following:
1. Dryvit Systems, Inc.
2. ParexLaHabra.
3. Sto Corp.

C. Soffit System: Direct-applied finish system suitable for application to glass-faced gypsum sheathing on soffit condition, manufactured by EIFS wall system manufacturer.

2.02 MATERIALS

A. Compatibility: Provide water-resistive coating, adhesive, fasteners, board insulation, reinforcing meshes, base- and finish-coat systems, sealants, and accessories that are compatible with one another and with substrates and approved for use by EIFS manufacturer for Project.

B. Molded, Rigid Cellular Polystyrene Board Insulation: Comply with ASTM C 578, Type I; EIFS manufacturer's requirements; and EIMA's "EIMA Guideline Specification for Expanded Polystyrene (EPS) Insulation Board."
1. Foam Shapes: Provide with profiles and dimensions indicated on Drawings.

C. Reinforcing Mesh: Balanced, alkali-resistant, open-weave, glass-fiber mesh; complying with ASTM D 578 and the following:
1. Intermediate-Impact Reinforcing Mesh: Not less than 10 oz./sq. yd.
2. Strip Reinforcing Mesh: Not less than 3.75 oz./sq. yd..
3. Detail Reinforcing Mesh: Not less than 4.0 oz./sq. yd..
4. Corner Reinforcing Mesh: Not less than 7.2 oz./sq. yd..

D. Base-Coat Materials: Standard formulation.

E. Primer: Factory-mixed, elastomeric-polymer primer.

F. Finish-Coat Materials: Factory-mixed, standard acrylic-based coating with enhanced mildew resistance.
1. Colors: As selected by Architect from manufacturer's full range.

G. Trim Accessories: Manufactured from UV-stabilized PVC and complying with ASTM D 1784 and ASTM C 1063.

PART 3 - EXECUTION

3.01 INSTALLATION

A. Comply with EIFS manufacturer's written instructions for installation of EIFS as applicable to each type of substrate indicated.

B. Flexible-Membrane Flashing: Install over weather-resistive barrier, applied and lapped to shed water; seal at openings, penetrations, terminations, and where indicated by EIFS manufacturer's written instructions to protect wall assembly from degradation. Prime substrates, if required, and install flashing to comply with EIFS manufacturer's written instructions and details.

C. Trim: Apply trim accessories at locations indicated on Drawings.

D. Board Insulation: Adhesively attach to substrate.

E. Expansion Joints: Install at locations indicated, where required by EIFS manufacturer, where expansion joints are indicated in substrates behind EIFS; where EIFS adjoin dissimilar substrates, materials, and construction; and where wall height changes.

F. Base Coat: Apply to exposed surfaces of insulation and foam shapes in minimum thickness recommended in writing by EIFS manufacturer, but not less than 1/16-inch dry-coat thickness.

G. Reinforcing Mesh: Embed type indicated below in wet base coat to produce wrinkle-free installation with mesh continuous at corners and overlapped not less than 2-1/2 inches or otherwise treated at joints to comply with ASTM C 1397 and EIFS manufacturer's written instructions. Do not lap reinforcing mesh within 8 inches of corners. Completely embed mesh, applying additional base-coat material if necessary, so reinforcing-mesh color and pattern are not visible.

H. Double-Layer Reinforcing Mesh Application: For locations within 8 feet of finish grade, apply second base coat and layer of intermediate-impact reinforcing mesh.

I. Finish Coat: Apply over dry primed base coat, maintaining a wet edge at all times for uniform appearance, in thickness required by EIFS manufacturer to produce a uniform finish of color and texture matching approved sample and free of cold joints, shadow lines, and texture variations.
   1. Texture: As selected by Architect from manufacturer's full range.

J. Direct-Applied Finish System: Comply with requirements for EIFS installation, as recommended by the manufacturer, and the following:
   1. Preparation: Apply manufacturer’s recommended primer to sheathing in number of recommended coats.
   2. Embed 4-inch wide strip of mesh in base coat at joints of shething.
   3. Apply base coat, embedding 4 oz. mesh in base coat. Apply sufficient material so mesh is not visible.
   4. Apply manufacturer’s recommended tinted primer to avoid show-through of base coat after application of finish coat.
   5. Apply finish coat as recommended by the manufacturer.

END OF SECTION 07 24 19