

## SECTION 07240 – EXTERIOR INSULATION AND FINISH SYSTEM - EIFS

## PART 1 - GENERAL

## 1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this section.

## 1.2 SUMMARY

- A. This Section includes the following:
  - 1. Materials and installation of StoTherm Premier NExT to frame and block construction.
  - 2. Installation of Sto coating on Trellis Unit.
- B. Related Sections include the following:
  - 1. Direct- Applied Exterior Finish System (DEFS): Section 09540.
  - 2. Gypsum Board Assemblies: Section 09260.
  - 3. Trellis Unit: Section 10340.

## 1.3 NATIONAL ACCOUNT

- A. CVS/Pharmacy has entered into a national account agreement with Sto Corporation for furnishing the exterior insulation and finish system specified in this section. Complete installation shall be by the Contractor. For pricing quotations, placing orders, and further information, please call Sto Corp at (888) 786-3437.

## 1.4 DESIGN REQUIREMENTS

- A. Design for maximum allowable system deflection, normal to the plane of the wall, of L/240.
- B. Design for wind load in conformance with code requirements.
- C. Prevent the accumulation of water behind the system, either by condensation or leakage through the construction.
- D. Provide EIFS ultra-high impact mesh full height on all columns and on all EIFS build-outs adjacent to pedestrian traffic as indicated on contract drawings.
- E. Provide expansion joints in the system where they exist in the supporting construction, where frame construction adjoins CMU construction, and where DEFS on soffits adjoins EIFS.

- F. Provide minimum  $\frac{3}{4}$  inch wide joint where EIFS adjoins sidewalk or finished grade.
- G. Provide minimum  $\frac{1}{2}$  inch wide joints at penetrations through the EIFS (windows, doors, etc.).
- H. Provide sealant by Dow Corning for joints in accordance with recommendations of Dow Corning.

#### 1.5 QUALITY ASSURANCE

- A. Contractor Requirements:
  - 1. Engaged in application of Sto EIFS for a minimum of three (3) years.
  - 2. Knowledgeable in the proper use and handling of Sto materials.
  - 3. Employ skilled mechanics who are experienced and knowledgeable in Class PB EIFS application, and familiar with the requirements of the specified work.
  - 4. Successful completion of minimum of three (3) projects of similar size and complexity to the specified project.
  - 5. Provide the proper equipment, manpower and supervision on the job site to install the system in compliance with specifications and details.

#### 1.6 DELIVERY, STORAGE AND HANDLING

- A. Deliver all materials in their original sealed containers bearing manufacturer's name and identification of product.
- B. Protect coatings (pail products) from freezing and temperatures in excess of 90°F. Store away from direct sunlight.
- C. Protect Portland cement based materials (bag products) from moisture and humidity. Store under cover off the ground in a dry location.

#### 1.7 PROJECT/SITE CONDITIONS

- A. Maintain ambient and surface temperatures above 40° F during application and drying period, minimum 24 hours after application of materials.
- B. Provide supplementary heat for installation in temperatures less than 40° F.
- C. Provide protection of surrounding areas and adjacent surfaces from application of materials.

#### 1.8 COORDINATION/SCHEDULING

- A. Coordinate installation of windows so sill flashing extends over face of finished wall system.

- B. Coordinate waterproofing of framed gutter so it is waterproof prior to installation of wall system materials.
- C. Install coping and sealant immediately after installation of the finish coating when coatings are dry.

#### 1.9 WARRANTY

- A. Provide manufacturer's standard ten (10) year labor and material warranty.

### PART 2 - PRODUCTS

#### 2.1 COMPONENTS

- A. EIFS over Frame Construction, EIFS on CMU: Sto Premier EIFS as furnished by Sto Corp.
- B. Air and moisture barrier where required by state energy code: StoGuard as furnished by Sto Corp.
- C. Primer and finish on stucco over CMU: Sto Hot Prime and Sto SilcoLit furnished by Sto Corp.
- D. Direct applied finish for soffits: Sto Quik Gold for Soffits furnish by So Corp.
- E. Sheathing for Frame Construction: As specified in Section 09260 "Gypsum Board Assemblies".

### PART 3 - EXECUTION

#### 3.1 ACCEPTABLE INSTALLERS

- A. Prequalify under Quality Assurance requirements of this specification (Paragraph 1.5A).

#### 3.2 EXAMINATION

- A. Inspect surfaces for:
  - 1. Contamination -- algae, chalkiness, dirt, dust, efflorescence, form oil, fungus, grease, laitance, mildew or other foreign substances.
  - 2. Surface absorption and chalkiness.
  - 3. Cracks -- measure crack width and record location of cracks.
  - 4. Damage and deterioration.

5. Moisture content and moisture damage -- use a moisture meter to determine if the surface is dry enough to receive the EIFS system and record any areas of moisture damage.
6. Compliance with specification tolerances -- record areas that are out of tolerance (greater than 1/4 inch in 8'-0" deviation in plane).

B. Inspect sheathing application for compliance with applicable requirement:

1. Glass mat faced gypsum sheathing – Georgia-Pacific Publication 102250

C. Report deviations from the requirements of project specifications or other conditions that might adversely affect the system installation to the General Contractor.

### 3.3 SURFACE PREPARATION

- A. Remove surface contaminants in accordance with ASTM D 4261
- B. Replace weather-damaged sheathing and repair damaged or cracked surfaces.
- C. Level surfaces to comply with required tolerances.

### 3.4 INSTALLATION

- A. Install wall system in compliance with manufacturer's published written instructions.

### 3.5 TRELLIS UNIT – INSTRUCTIONS FOR COATING

- A. Surface Preparation  
Wipe fiberglass surface with a mild solvent wipe (common isopropyl alcohol) to remove all dust and surface residue immediately prior to priming.
- B. Priming  
Product: 801 Sto Primer

Surface to receive Sto Primer shall be clean and dry.

Apply Sto Primer to all surfaces, which will receive finish.

Apply minimum 3 wet mils of Sto Primer using roller, spray or brush

(Note: Sto Primer contains sand. Consult the spray equipment manufacturer before removing any filters from spraying equipment to facilitate spraying)

Do not apply Sto Primer if ambient temperatures are below 40°F (4°C).

Do not apply Sto Primer if the surface temperature is within 5°F (3°C) of the ambient dew point temperature.

Allow Sto Primer to dry completely before applying finish. Sto Primer typically dries within 4 hours at 70°F (20°C) and 50% RH. Actual drying time will vary with ambient and surface temperatures.

Protect Sto Primer from rain, freezing, and continuous high humidity until completely dry.

Consult Sto Primer product literature or Sto Corp. for additional information.

- C. Finish  
Product: 136 StoSilco® Lit 1.0  
Application:  
Surface to receive StoSilco® Lit shall be clean and dry.  
Apply Sto Silco® Lit to primed surface using a steel trowel or appropriate spray equipment.  
Use trowel to scrape the material down to a uniform thickness no greater than the largest aggregate size.  
Achieve final texture by floating with the appropriate float in a figure-eight motion.  
Always work to a wet edge and do not interrupt the finishing operation except where the finish can be terminated at a clean architectural break.  
Do not apply Sto Silco® Lit if ambient temperatures are below 40°F (4°C) or above 100°F (38°C).  
Do not apply Sto Silco® Lit if the surface temperature is within 5°F (3°C) of the ambient dew point temperature.  
Protect Sto Silco® Lit from rain, freezing, and continuous high humidity until completely dry. StoSilco® Lit normally dries in 24 hours at 70°F (20°C) and 50% RH. Actual drying time will vary with ambient and surface temperatures.  
Consult Sto Silco® Lit product literature or Sto Corp. for additional information.
- D. Adjacent Areas  
The contractor shall protect adjacent areas of construction from spillage or overspray during the installation of Sto products.
- E. Clean-up  
Clean tools and equipment with water immediately after use. Dried material can only be removed mechanically.

### 3.6 PROTECTION

- A. Provide protection of installed materials from water infiltration into or behind them.
- B. Provide protection of installed materials from dust, dirt, precipitation, freezing and continuous high humidity until coatings are fully dry.

END OF SECTION 07240

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