

SECTION 09540 – DIRECT–APPLIED EXTERIOR FINISH SYSTEM (DEFS)

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 DEFS on the underside of canopy soffits.

- B. Related Sections

- 1) Exterior Insulation And Finish System - EIFS: Section 07240
 - 2. Gypsum Board Assemblies: Section 09260

1.3 NATIONAL ACCOUNT

- A. CVS/Pharmacy has entered into a national account agreement with Sto Corporation for furnishing the exterior coating 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 a maximum allowable coating deflection, normal to the plane of the wall, of L/360.
- B. Design for wind load in conformance with code requirements.
- C. Prevent the accumulation of water behind the coating either by condensation within the wall assembly or leakage through construction in the design and detailing of the wall assembly and construction.

1.5 QUALITY ASSURANCE

- A. Contractor Requirements

- 1) Engaged in application of special coatings for a minimum of three (3) years.
 - 2. Employ skilled applicators to execute work with minimum three (3) years of experience with the materials, methods and requirements of the specified work.
 - 3. Successful completion of a minimum of three (3) projects of similar size and complexity to the specified work.

4. Provide the equipment, manpower and supervision on the job site to install coatings in compliance with Sto's published specifications and details and the project plans and specifications.

1.6 DELIVERY, STORAGE AND HANDLING

- A. Deliver materials in their original sealed containers bearing manufacturer's name and identification of product.
- B. Protect acrylic based materials (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 coating.
- 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 SEQUENCING

- A. Install flashings, copings and sealants immediately after installation of coatings when they are dry.

1.9 WARRANTY

- A. Provide manufacturer's standard materials warranty.

PART 2 - PRODUCTS

2.1 SHEATHING FOR SOFFIT FRAME CONSTRUCTION:

- A. As Specified in Section 09260 "Gypsum Board Assemblies".

2.2 DEFS ACCESSORIES:

- A. DEFS Accessories as furnished by Plastics Components, Inc.

2.3 MATERIALS SURFACE PREPARATION

A. Surface Conditioner

- 1) Sto Plex W - acrylic based surface sealer and hardener (for chalking surfaces or highly absorptive surfaces).

B. Fabric Reinforcement

- 1) Sto Mesh - nominal 4.5 oz/sq yd symmetrical, interlaced open weave glass fiber reinforcing fabric made with minimum 20% by weight alkaline resistant coating for compatibility with Sto materials.

C. Base Coat

- 1) Sto BTS-Plus - one-component, polymer-modified, cement-based skim coat material with fiber reinforcement (for applications up to 1/16 inch [1.6 mm] thick).

2.4 PRIMERS

- A. Sto Primer – acrylic-based primer.

2.5 FINISH COATINGS

- A. Sto Silco Lit 1.5 – silicone enhanced acrylic textured wall coating with graded marble aggregate.

2.6 MATERIALS (NON-PROPRIETARY)

- A. Portland Cement: ASTM C 150, Type 1.
- B. Water: Clean and potable.

PART 3 - EXECUTION

3.1 ACCEPTABLE INSTALLERS

- A. Pre-qualify under Quality Assurance requirements of this specification (Section 1.5 A).

3.2 EXAMINATION

- A. Inspect surfaces for:

- 1) Contamination - algae, curing compounds, dirt, dust, efflorescence, form oil, fungus, grease, laitance, mildew, mold or other foreign matter.
2. Delamination, damage, defects and deterioration - record location
3. Cracks - measure crack width and record location.
4. Surface absorption and chalkiness.

5. Moisture content and moisture damage - use a moisture meter to determine if the surface is dry enough to receive the coating and record areas of moisture damage.
6. Plumbness - record areas that are not within required tolerances.

B. Inspect sheathing application for compliance with applicable requirements:

- 1) Glass faced Gypsum sheathing – Georgia – Pacific publication 102250.

C. Report results of inspection and deviation from the requirements of this specification and other conditions that might adversely affect the coatings work to the General Contractor.

3.3 INSTALLATION

A. Install DEFS in compliance with manufacturers published written instructions.

3.4 PROTECTION

A. Provide protection of installed coatings from dust and dirt, precipitation, freezing, continuous high humidity and damage from other trades or building components.

END OF SECTION 09540