

SECTION 07240 - EXTERIOR INSULATION FINISH SYSTEMS

PART 1 - GENERAL

1.01 DESCRIPTION

- A. The extent of E.I.F.S. is shown on drawings

1.02 QUALITY ASSURANCE

- A. The system applicator shall have 5 years minimum experience in successfully installing EIFS and be trained by E.I.F.S. manufacturer in correct application of Class PB EIFS. Submit manufacturers "Applicators Training Certificate" with bid.
- B. All materials shall be obtained from a single manufacturer.
- C. All work shall be installed in strict conformance to the manufacturers latest published details and specifications
- D. Substrate deflection shall not exceed L/240.
- E. Provide "Sto Essence-Ultra" "Hi-Impact System" at all EIFS applications placed less than 10'-0" above grade.

1.03 JOB CONDITIONS

- A. Store all materials at temperatures above 40 degree F.
- B. Ambient and wall temperature shall be 40 degree F minimum and remain so for minimum 24 hours after installation.

1.04 SUBMITTALS

- A. Submit 1'x1' sample for each finish, color and texture.

1.05 GUARANTEE

- A. Provide manufacturers five- (5) year (minimum) standard materials and labor warranty.

PART II - PRODUCTS

2.01 MATERIALS

- A. Provide "Essence" class PB, EIFS system manufactured by Sto Corp.
- B. Adhesive:
 - 1. Cementitious Adhesives: Sto Primer/Adhesive B, one component polymer modified cement adhesive.
- C. Insulation Board: Nominal 1.0-lb/ft³ expanded polystyrene (EPS) insulation board in compliance with ASTM C-578 Type I and EIMA "Guideline Specification for Expanded Polystyrene (EPS) Insulation Board" produced by a company specifically approved by the EIFS manufacturer.

- D. Base Coat:
1. Cementitious Base Coat: Sto Primer/Adhesive B, one component polymer modified, cement-based, factory blended.
 2. Waterproof Base Coat: Sto Flexyl (or Sto Watertight coat), two component fiber reinforced acrylic based waterproof base coat mixed with Portland cement; to be used on all horizontal surfaces such as sills, washes, etc.
- E. Reinforcing Mesh:
1. Standard Mesh: Sto nominal 4.5 oz./yd², symmetrical, interlaced open-weave glass fiber fabric made with alkaline resistant coating for compatibility with EIFS materials (achieves standard impact classification).
 2. Ultra-High Impact Mesh: Sto Armor Mat, nominal 15 oz/yd² ultra-high impact, double strand, interwoven, open-weave glass fiber fabric with alkaline resistant coating for compatibility with EIFS materials. Required for all EIFS less than 10'-0" above grade. At areas where Armor Mat is used, Sto Std. mesh shall be applied over Armor Mat to provide Ultra-High Impact System.
- F. Finish Coat: Sto Essence DPR Finish, acrylic based textured wall coating with graded marble aggregate.
1. Texture: Medium Sand.
 2. Integral Color: field color-#NA00-0035.
- G. Integral Colors:
1. Field color: match Benjamin Moore Paint color #951 (Southern Prototype).
 2. Accent color: match Benjamin Moore Paint color #AC-8 "Butte Rock" (Southern Prototype)

2.02 ALTERNATE MANUFACTURERS

- A. Color and textures from alternate manufacturers must match those specified for "Sto Essence".
- B. Alternate Manufacturers: Dryvit "Outsulation system" type PB EIFS (Color; "Buckskin" #449). Parex "Standard System". Senergy "Senerflex class PB EIFS". Alternate manufactures finishes shall match Sto "medium sand".
- C. Backer Rods: Provide closed cell units.
- D. Sealant: Provide ASTM C-1382, low modulus sealant to suit project conditions and manufacturers recommendations.

2.03 MISCELLANEOUS MATERIALS

- A. Soffit Vents: Continuous stucco soffit vent. Provide gauge and ventilation area to suit conditions.
1. Acceptable manufacturers:
 - a. Superior Products, SFT series, galvanized steel ventilation screed.
Color: Paint to match adjoining EIFS.

- b. Alcoa, "Vent-a-Strip", model 70 or 79, color: white.
- c. Amico "Vinyl Soffit Screed Ventilator", insert style AMSVI-300 or sheathing style AMSV-300-50.
- d. Stockton Products "Soffitvent/reveal screed".

PART III - EXECUTION

3.01 INSTALLATION

- A. Install in strict compliance with manufacturer requirements.
- B. Backwrapping: Treat exposed edges of insulation board, including those forming substrates of sealed joints within system or between system and other work, by encapsulating with base coat, Reinforcing Fabric and Finish.
- C. Protect all exterior sheathing from weather damage or deterioration during construction.

3.02 INSULATION BOARDS INSTALLATION

- A. Stagger vertical joints in successive courses to produce running bond pattern.
- B. Offset joints of insulation from joints in substrates.
- C. Interlock ends at external corners.
- D. Abut boards tightly at joints within and between each course to produce a flush, continuously even surface without gaps or raised edges between insulation boards. If gaps occur, fill with insulation cut to fit gaps exactly; insert without use of adhesive.
- E. Rasp flush any irregularities in surfaces of insulation projecting more than 1/16" with care not to create hollows.
- F. Provide proper joint through insulation where expansion joints occur in substrates. Provide closed cell backer rods at all expansion and control joints.
- G. Coordinate installation with contiguous construction to produce a wall system, which does not allow water to penetrate behind exterior insulation and finish system during or after installation.

3.03 BASE/FINISH COAT

- A. Use EIFS manufacturer's waterproof basecoat on all horizontal surfaces including but not limited to sills, washes, wall projections, etc. EIFS wall caps or parapet caps are prohibited.
- B. Repair/replace any irregular, untrue, deformed or damaged areas.
- C. Protect adjacent finishes from spills, splatters and damage from E.I.F.S.
- D. Do not paint over any sealant joints.

3.04 ATTIC STOCK

- A. Provide five gallons of finish coat material.

END OF SECTION