

PART I – GENERAL**WORK SPECIFIED HEREIN**

All labor, materials, equipment and services necessary to furnish and install foam cornices and drainable E.I.F.S. with related accessories and finishes as indicated or specified.

QUALITY ASSURANCE

All products shall be of the highest quality and workmanship. All products utilized as part of the E.I.F.S. System must be those recommended by manufacturer of system.

SUBMITTALS

Selected E.I.F.S. manufacturer and installer shall review the design documents thoroughly. Shop drawings shall be submitted only if exceptions or deviations are taken with design documents. Shop drawings shall specifically identify any recommendations or corrections required to maintain compliance with manufacturer's standards and warranty conditions, including but not limited to penetrations, sealants and flashings. Any exceptions or deviations to design documents shall be incorporated into the shop drawings by the E.I.F.S. manufacturer and installer, and shall supercede design documents. If shop drawings are not submitted for review to the Professional of Record, this shall signify that the design document information is approved as in total compliance with manufacturer and installer standards and recommendations.

Given the current litigation associated with this product, as an inducement to accept the E.I.F.S. product, the E.I.F.S. manufacturer and installer shall agree to indemnify, defend and hold harmless the Owner, Architect, Engineer and the Professional of Record against any and all claims, damages, suits, actions, legal costs and expenses directly and/or indirectly related to litigation associated with the E.I.F.S. system.

A representative of the E.I.F.S. manufacturer shall provide observations and documentation during the installation as noted in Part III of this section to assure proper installation of the manufacturer's product.

Furnish manufacturers' certification that the materials meet or exceed specified requirements.

Review of submittals by Professional of Record shall be limited to verifying aesthetics compliance with design documents.

MANUFACTURERS' INSTRUCTIONS

Furnish manufacturers' printed instructions for installation of products specified.

WARRANTY

This system is warranted against manufacturing defects at the time of sale and for a period of seven (7) years from the date of substantial completion of the project against loss of bond, peeling, flaking, chipping, fade resistance and water resistance so long as the surface integrity is maintained, when the products are installed in accordance with the manufacturer's published specifications and application instructions. The

warranty only covers manufacturer's materials which are defined to include manufacturer's base coats, adhesives, meshes, finishes and to the extent purchased through one of the manufacturer's authorized distributors, the manufacturer's specified insulation board.

PART II – PRODUCTS**MATERIAL - GENERAL**

Manufacturers: Materials are specified to establish a standard quality, or by performance requirements and general description of product. The Professional of Record reserves the right to reject any material which, in his opinion will not produce the quality of work specified herein.

Refer to Materials and Products Schedule for additional information.

JOB CONDITIONS

All E.I.F.S. Materials described should never be applied if ambient and surface temperatures cannot be kept above 40° F. during application and drying period. Prior to installation, the wall shall be free of residual moisture. The stored materials should be protected from sun and frost. For installation in temperatures less than 40° F., supplementary heat and protection shall be provided.

INSULATION BOARD

Nominal 1.0 lb./cu.ft. (16 kg/m³) Expanded Polystyrene (EPS) Insulation Board in compliance with ASTM C 578 Type I requirements and EIMA Guideline Specification for Expanded Polystyrene (EPS) Insulation Board. Minimum thickness 3/4". See Drawings.

FOAM CORNICE

Expanded Polystyrene less than 25 flame spread, 1.0 lb./per cu. ft. average density; u = 0.26 per inch; ASTM C578-85 Class A.

Dimensional tolerance shall be as follows:

1. Edges shall be square within 1/16" over the entire length of the board.
2. Thickness shall be plus or minus 1/16".
3. Foam shall be aged by air drying for a minimum of six weeks or equivalent kiln dried.

ADHESIVE / BASE COAT

Adhesive and base coat shall be a one component polymer modified bagged base coat, per manufacturer's recommendations.

FABRIC

Reinforcing Fiber Mesh with symmetrical, interlaced glass fiber made from twisted multi-end strands and coating to be alkaline resistant, at least 20 grams per square yard, for compatibility with E.I.F.S. Materials. The mesh shall be shiftproof, with trimmed roll edges to minimize building on overlapped seams. Provide high impact mesh at front entry pilasters for durability as per drawings.

FINISH

The finish shall be one of the E.I.F.S. manufacturer's recommended exterior, ready-mixed, acrylic-based wall coatings. Type, texture, color

SECTION 07240: EXTERIOR INSULATION AND FINISH SYSTEM

and aggregate size shall be as indicated: Smooth finish with fine aggregate, colors called out on exterior elevations.

PART III – EXECUTION

INSTALLATION

All installation of E.I.F.S. Materials shall be performed by and/or supervised by applicators who carry a certificate of training by the Manufacturer. Contractor must have a minimum industry experience with EIF systems no less than 5 years and must have completed 10+ projects of similar size.

Under no circumstances shall any of the E.I.F.S. Products be altered by adding any additives, except for small amounts of clean water as directed on label. Antifreeze, accelerators, rapid binders, etc., are forbidden.

A starter strip of Reinforcing Fiber Mesh shall be applied prior to the installation of the foam.

FIELD VISITS/OBSERVATIONS

Observation of the E.I.F.S. installation shall be performed by a representative of the Manufacturer. A report of each day's work shall be developed describing the materials and workmanship to be in compliance with Manufacturers recommendations, or to describe any deficiencies, with associated correction identified. Reports shall be on E.I.F.S. manufacturer's company letterhead. A copy of each report shall be sent to the Owner, Contractor and Professional of Record. If deficiencies occur, the Contractor shall immediately perform corrections recommended by E.I.F.S. manufacturer and insurable by Property Loss Underwriters.

The intent of these specifications are to ensure the system is installed strictly in a manner that will be warranted by the E.I.F.S. manufacturer and insurable by property loss underwriters.

REINFORCING MESH

The starter strip of mesh is used to seal/protect the bottom of the foam. It shall be wide enough to adhere 4" of mesh onto the wall, be able to wrap around the foam and cover approximately 4" on the outside surface of the foam. This procedure shall be followed at all exposed foam edges as per Manufacturer's Details.

The use of nails, screws, or any other type of non-thermal mechanical fasteners is not approved.

Rasping of the foam surface shall be required to achieve a smooth, even surface and remove possible ultraviolet ray damage.

Use of plastic or metal corner beads, stop beads, etc. is forbidden.

ADHESIVE / BASE COAT

Use manufacturer's recommended bagged adhesive/basecoat for adhesive attachment of EPS board and for basecoat with reinforcing mesh. Use notched trowel to apply even ribbons of adhesive to the back of the EPS board in perpendicular fashion per manufacturer recommendations.

Prior to caulking, all edges shall be coated with Mesh and Primer as recommended by manufacturer. Allow this application to dry before caulking.

Stir to a uniform consistency. A small amount of clean water may be added to aid workability. Apply ground coat over foam using proper spray equipment or a stainless steel trowel, to a uniform thickness of approximately 1/16". Work horizontally or vertically in strips of 40", and immediately imbed the Reinforcing Fiber Mesh into the wet ground coat. Reinforcing Fiber Mesh shall be double wrapped at all corners and overlapped not less than 1-1/2" at mesh joints. Avoid wrinkles in the mesh. The finish thickness of the ground coat shall be such that the Reinforcing Fiber Mesh is fully imbedded. Allow ground coat to thoroughly dry before applying finish.

Caulking: Install backer rod (25% compression) in caulk joint openings to provide a depth equal to 1/2 the width of the joint. Install a manufacturer approved sealant and tool flush with the ground coat surface. Allow sealant to set per manufacturer's specifications prior to applying finish coat.

Expansion Joints: The E.I.F.S. System does not require control or expansion joints except: (A) when the substrate has an existing control joint, expansion joint, or live building crack, (B) where the system is applied to dissimilar substrates, or (FC) on multi-level wood framed buildings at each floor level (See Manufacturer's Details). These joints shall extend through the E.I.F.S. System and shall be caulked with a manufacturer approved expansion joint sealant, against a backer rod. On expansion joints, the E.I.F.S. Reinforcing Fiber Mesh and ground coat shall completely wrap the edges of the foam cornice so that the expansion joint caulk shall not come in direct contact with the foam cornice.

FINISH COAT

The E.I.F.S. finish, a ready-mixed, acrylic-based wall coating, is applied directly over the primed ground coat ONLY AFTER THE PRIMER/GROUND COAT HAS THOROUGHLY DRIED. Finish shall be applied by spraying, rolling or troweling using a stainless steel trowel, depending on finish specified. General rules for application of E.I.F.S. finishes are as follows:

1. Using a clean, rust-free, high-speed mixer, thoroughly stir the finish to a uniform consistence (small amounts of clean water may be added to aid workability).
2. Avoid application in direct sunlight.
3. Finish shall be applied in a continuous application, always working to a wet edge.
4. Weather conditions will be a factor in the application of the finish, as well as drying time.
5. Finish may be applied over caulk joints, but not over expansion joints.

END OF SECTION