

- 3.01 INSPECTION
- A. Job Conditions:
- Verify that openings are dimensionally within allowable tolerances, plumb, level, clean, provide a solid anchoring surface, and are in accordance with approved shop drawings.
- 3.02 INSTALLATION
- A. Use only skilled tradesmen with work done in accordance with approved shop drawings and specifications.
- B. Storefront system shall be erected plumb and true, in proper alignment and relation to established lines and grades.
- C. Entrance doors shall be securely anchored in place to a straight, plumb, and level condition, without distortion. Weather stripping contact and hardware movement shall be checked and final adjustments made for proper operation and performance of units.
- D. Finish and apply sealing materials to provide a weather tight installation at all joints and intersections and at opening perimeters.
- E. Sealing materials specified shall be used in strict accordance with the manufacturer's printed instructions, and shall be applied only by mechanics specially trained or experienced in their use. All surfaces must be clean and free of foreign matter before applying sealing materials. Sealing compounds shall be loaded to fill the joint and provide a smooth finished surface.
- F. Provide strict compliance with product approval installation requirements.
- 3.03 ANCHORAGE
- A. Adequately anchor to maintain positions permanently when subjected to normal thermal movement, specified building movement, and specified wind loads.
- 3.04 Protection and Cleaning
- A. The general contractor shall protect the aluminum materials and finish against damage from construction activities and harmful substances. The general contractor shall remove any protective coatings as directed by the architect, and shall clean the aluminum surfaces as recommended for the type of finish applied.

END OF SECTION 084113

SECTION 08710 - DOOR HARDWARE

- 0.1 SUMMARY
- A. This Section includes items known commercially as finish or door hardware that are required for swing doors and frames.
- 1.2 MANUFACTURERS
- A. Manufacturers: Subject to compliance with requirements, provide products as shown on construction drawings.
- 1.3 SCHEDULED HARDWARE
- A. Requirements for design, grade, function, finish, size, and other distinctive qualities of each type of finish hardware are indicated in the "Hardware Group" on the drawings.
- 1.4 INSTALLATION
- A. Mount hardware units at heights indicated in following applicable publications, except as specifically indicated or required to comply with governing regulations and except as otherwise directed by Owner.
- 1.5 ADJUSTING, CLEANING, AND DEMONSTRATING
- A. Adjust and check each operating item of hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate freely and smoothly or as intended for the application made.
- Where door hardware is installed more than one month prior to acceptance or occupancy of a space or area, return to the installation during the week prior to acceptance or occupancy and make final check and adjustment of all hardware items in such space or area. Clean operating items as necessary to restore proper function and finish of hardware and doors. Adjust door control devices to compensate for final operation of heating and ventilating equipment.
- B. Clean adjacent surfaces soiled by hardware installation.

END OF SECTION 08710

SECTION 08800 - GLAZING

- 1.01 SUMMARY
- A. Glazing for the Following Products:
- Entrances and other doors. Finish to match existing center storefront glazing.
- 1.02 WARRANTY
- A. Warranty Period: Manufacturer's standard but not less than 10 years after date of Project completion.
- 1.03 FLAT GLASS MATERIALS
- A. Float Glass (Type FG-A): ASTM C1036, Type I transparent flat, Class 1 clear, Quality Q3 glazing select; 1/4 inch (6 mm) minimum thick.
- B. Safety Glass (Type FG-B): ASTM C1048, fully tempered, Condition Uncoated, Type I transparent flat, Class 1 clear, Quality Q3 glazing select conforming to ANSI Z87.1; 1/4 inch (6 mm) minimum thick.
- C. Wired Glass (Type FG-C): ASTM C1036, Type II patterned and wired flat, Class 1 translucent, Quality Q8 glazing; 1/2" square mesh, 1/4 inch (6 mm) minimum thick.
- D. Mirrors: Clear tempered float glass, 1/4 inch (6 mm) minimum thick, size as indicated. Coat second surface of glass with successive layers of chemically deposited silver and manufacturer's standard protective organic coating; 10 year warranty against silver spoilage; Flat polished edge; Continuous channel bottom support designed to withstand mirror weight and top support to prevent mirror from coming away from wall along top edges; setting blocks at quarter points; include clear anodized aluminum frames where shown on drawings.
- 1.04 INSULATING GLASS PRODUCTS
- A. Sealed Insulating Glass Units: Preassembled units consisting of organically sealed lites of glass separated by dehydrated air spaces complying with ASTM E 774 and with other requirements indicated, including those in Insulating Glass Product Data Sheet at the end of this Section.
- For properties of individual glass lites meeting unit requirements specified elsewhere in this Section applicable to types, classes, kinds, and conditions of glass products comprising lites of insulating glass units.
 - U-Values are expressed as Btu/hour·ft²·°F, sq. ft. x U.
- B. Insulated Glass Units: ASTM E774 and E773, double pane with glass elastomer edge seal; outer pane of 1/4 inch clear glass, inner pane of 1/4 inch clear low-e glass, purge in-trap space and fill with argon; total unit thickness of 1 inch (25 mm).
- C. Edge Seal Material: Black color.
- 1.05 ELASTOMERIC GLAZING SEALANTS
- A. General: Provide products of type indicated, complying with the following requirements:
- Compatibility: Select glazing sealants and tapes of proven compatibility with other materials they will contact, including glass products, seals of insulating glass units, and glazing channel substrates, under conditions of installation or in service, as demonstrated by testing and field experience.
 - Subsidiary: Comply with sealant and glass manufacturer's recommendations for selecting glazing sealants and tapes that are suitable for applications indicated and conditions existing at time of installation.
 - Colors: Provide color of exposed joint sealants to comply with the following:
 - Provide selections made by Construction Representative from manufacturer's full range of standard colors for products of type indicated.
- B. Elastomeric Glazing Sealant Standard: Provide manufacturer's standard chemically cured, elastomeric sealants.
- C. Glazing Sealant for Fire-Resistant Glazing Products: Identical to product used in test assembly to obtain fire-resistive rating.
- 1.06 GLAZING TAPES
- A. Back Bedding Mastic Glazing Tape: Preformed, butyl-based elastomeric tape with a solids content of 100 percent, nonstaining and nongrating in contact with masonry surfaces, with or without spacer, not as recommended by tape and glass manufacturers for application indicated, packaged on rolls with a release paper backing, and complying with AAMA 800 for products indicated below.
- AAMA 804.1.
- 1.07 MISCELLANEOUS GLAZING MATERIALS
- A. General: Provide products of material, size, and shape complying with referenced glazing standard, requirements of manufacturers of glass and other glazing materials involved for glazing application indicated, and with a proven record of compatibility with surfaces contacted in installation.
- B. Cleaners, Primers and Sealers: Type recommended by sealant or gasket manufacturer.
- C. Setting Blocks: Elastomeric material with a Shore A durometer hardness of 85 plus or minus 5.
- D. Spacers: Elastomeric blocks or continuous extrusions with a Shore A durometer hardness required by glass manufacturer to maintain glass lites in place for installation indicated.
- E. Edge Blocks: Elastomeric material of hardness needed to limit glass lateral movement (side-walking).
- 1.08 PREPARATION
- A. Clean glazing channels and other framing members receiving glass immediately before glazing. Remove coatings that are not factory bonded to substrates.
- 1.09 GLAZING, GENERAL
- A. Comply with combined recommendations of manufacturers of glass, sealants, gaskets, and other glazing materials, except when stringent requirements are indicated, including those in referenced glazing publications.
- Protect glass from edge damage during handling and installation as follows:
 - Use a rolling block to rotate glazing glass units to prevent damage to glass corners. Do not impact glass with metal framing. Use suction cups to lift glass units within openings; do not raise or drift glass with a try bar. Rotate glass lites with flares or bevels on non-horizontal edges so that corners are located at top of opening, unless otherwise indicated by manufacturer's label.
 - Remove damaged glass from Project Site and legally dispose of it as waste. Damaged glass is glass that is chipped, cracked, or other imperfections when installed, weaken glass or an impact performance and appearance.
 - Apply primers to joint surfaces where required for adhesion of sealants, as determined by testing and manufacturer's label. Substrate testing.
 - Install elastomeric bedding blocks in all rabbets, slots and grooves, unless otherwise required by glass manufacturer. Set blocks in the course of glazing.
 - Do not exceed edge pressures stipulated by glass manufacturer for installation glass.
 - Provide Spacers for Glass Sizes Larger than 50 United Inches with the following:
 - Locate spacers inside, outside, and directly opposite each other. Metal spacer size and spacing provided required face clearance, except where gaskets and glazing tapes are used that are specified to be used in conjunction with spacers and comply with system performance requirements.
 - Provide 1/8 inch minimum bite of spacers and use the same bite equal to thickness of spacers. With glazing tape, use thickness slightly less than that compressed thickness of tape.
 - Provide blocking to comply with requirements of referenced glazing publications, unless otherwise required by glass manufacturer.
- 1.10 DETECTION AND PROTECTION
- A. Protect exterior glass sealants and gaskets immediately after installation by attaching crossed streamers to framing held away from glass. Do not apply markers to glass surface. Remove streamers immediately after installation, and clean surfaces.
- B. Protect glass from contamination from construction processes resulting from construction operations including weld spatter. If, despite such protection, contamination is observed on glass, immediately clean glass, and immediately clean glass, and immediately clean glass, and immediately clean glass. Examine glass surfaces frequently to be sure exterior concrete and other masonry surfaces as frequent intervals during construction, but not less than once a month, for build-up of dirt, scum, alkali deposits, or stains, and remove as recommended by glass manufacturer.
- C. Remove and replace glass that is broken, chipped, cracked, abraded, or damaged in any way, including natural causes, accidents and vandalism, during construction period.
- D. Inspection and testing: Conduct tests in each area of Project not more than 4 days prior to date scheduled for inspections that establish date of Project completion. Wash glass as recommended by glass manufacturer.

END OF SECTION 08800

DIVISION 9 - FINISHES

SECTION 09111 - NON-LOAD-BEARING STEEL FRAMING

- PART 1 - GENERAL
- 1.1 SUMMARY
- A. Section Includes:
- Non-load-bearing steel framing systems for interior gypsum board assemblies.
 - Support systems for interior gypsum ceilings and soffits.
 - Recessed soffits wall standards.
- 1.2 QUALITY ASSURANCE
- A. Fire-Test-Response Characteristics: For fire-resistance-rated assemblies that incorporate non-load-bearing steel framing, provide materials and construction identical to those tested in assembly indicated according to ASTM E 119 by an independent testing agency.
- PART 2 - PRODUCTS
- 2.1 NON-LOAD-BEARING STEEL FRAMING, GENERAL
- A. Framing Members, General: Comply with ASTM C 754 for conditions indicated.
- Steel Sheet Components: Comply with ASTM C 645 requirements for metal, unless otherwise indicated.
 - Protective Coating: ASTM A 653A/653M, G40, hot-dip galvanized zinc coating, unless otherwise indicated.
- 2.2 SUSPENSION SYSTEM COMPONENTS
- A. Tie Wire: ASTM A 641/A 641M, Class 1 zinc coating, soft temper, 0.0625-inch-diameter wire, or double strand of 0.0475-inch-diameter wire.
- B. Hanger Attachments to Concrete:
- Powder-Actuated Fasteners: Suitable for application indicated, fabricated from corrosion-resistant materials with clips or other devices for attaching hangers of type indicated, and capable of sustaining, without failure, a load equal to 10 times that imposed by construction as determined by testing according to ASTM E 1190 by an independent testing agency.
- C. Wire Hangers: ASTM A 641/A 641M, Class 1 zinc coating, soft temper, 0.162-inch diameter.
- D. Carrying Channels: Cold-rolled, commercial-steel sheet with a base-metal thickness of 0.0538 inch and minimum 1/2-inch-wide flanges.
1. Depth: As indicated on Drawings.
- E. Furring Channels (Furring Members):
- Cold-Rolled Channels: 0.0538-inch bare-steel thickness, with minimum 1/2-inch-wide flanges, 3/4 inch deep.
 - Steel Studs: ASTM C 645.
 - Minimum Base-Metal Thickness: 0.0170 inch.
 - Depth: As indicated on Drawings.
 - Hat-Shaped, Rigid Furring Channels: ASTM C 645, 7/8 inch deep.
 - Minimum Base Metal Thickness: 0.0170 inch.
 - Resilient Furring Channels: 1/2-inch-deep members designed to reduce sound transmission.
 - Configuration: Asymmetrical or hat shaped.
- F. Grid Suspension System for Ceilings: ASTM C 645, direct-hung system composed of main beams and cross-furring members that interlock.
- Products: Subject to compliance with requirements, provide one of the following:
 - Armstrong World Industries, Inc.; Drywall Grid Systems.
 - Chicago Metallic Corporation; 640-C Drywall Furring System.
 - USG Corporation; Drywall Suspension System.
- 2.3 STEEL FRAMING FOR FRAMED ASSEMBLIES
- A. Steel Studs and Runners: ASTM C 645.
- Minimum Base-Metal Thickness: 0.027 inch, unless otherwise indicated.
 - Minimum Base-Metal Thickness: 0.0325 inch, for the following locations, unless otherwise indicated.
 - For 6 inch framing.
- B. Slip-Type Head Joints: Where indicated, provide one of the following:
- Single Long-Leg Runner System: ASTM C 645 top runner with 2-inch-deep flanges in thickness not less than indicated for studs, installed with studs fitting into top flange and with continuous bridging located within 12 inches of the top of studs to provide lateral bracing.
 - Double-Runner System: ASTM C 645 top runners, inside runner with 2-inch-deep flanges in thickness not less than indicated for studs and fastened to studs, and outer runner sized to friction fit inside runner.
- C. Deflection Track: Steel sheet top runner manufactured to prevent cracking of finishes applied to interior partition framing resulting from deflection of structure above; in thickness not less than indicated for studs and in width to accommodate depth of studs.
- Available Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, the following:
 - Steel Network Inc. (The); VertiClip SLD or VertiTrack VTD Series.
 - Superior Metal Trim; Superior Flex Track System (SFT).
 - Or equal system by USG.
- D. Flat Strap and Backing Plate: Steel sheet for blocking and bracing in length and width indicated.
- Minimum Base-Metal Thickness: 0.0170 inch.
- E. Cold-Rolled Channel Bridging: 0.0538-inch bare-steel thickness, with minimum 1/2-inch-wide flanges.
1. Depth: As indicated on Drawings.
2. Clip Angle: Not less than 1-1/2 by 1-1/2 inches, 0.068-inch-thick, galvanized steel.
- F. Hat-Shaped, Rigid Furring Channels: ASTM C 645.
- Minimum Base Metal Thickness: 0.0170 inch.
 - Depth: As indicated on Drawings.
- G. Resilient Furring Channels: 1/2-inch-deep, steel sheet members designed to reduce sound transmission.
- Configuration: Asymmetrical or hat shaped.
- H. Cold-Rolled Furring Channels: 0.0538-inch bare-steel thickness, with minimum 1/2-inch-wide flanges.
1. Depth: As indicated on Drawings.
2. Furring Brackets: Adjustable, corrugated-edge type of steel sheet with minimum bare-steel thickness of 0.0312 inch.
3. Tie Wire: ASTM A 641/A 641M, Class 1 zinc coating, soft temper, 0.0625-inch-diameter wire, or double strand of 0.0475-inch-diameter wire.

END OF SECTION 09111

SECTION 09215 - ACRYLIC PLASTERING

- 1.1 SUMMARY
- A. Section Includes:
- Acrylic plastering for exterior walls and soffits.
- 1.2 RELATED SECTIONS
- A. Section 03 00 00 Concrete
- B. Section 07 90 00 Joint Protection
- C. Section 08 50 00 Windows
- 1.3 REFERENCES
- A. ASTM B117 Test Method for Salt Spray (Fog) Testing
- B. ASTM D2447 Practice for Testing Water Resistance of Coatings in 100 Percent Relative Humidity
- C. ASTM D284 Test Method for Surface Burning Characteristics of Building Materials
- D. ASTM E331 Test Method for Water Penetration by Uniform Static Air Pressure Difference
- E. ASTM E695 Method for Measuring Relative Resistance to Impact Loading
- F. ASTM E2485 Standard Test Method for Freeze-Thaw Resistance of Exterior Insulation and Finish Systems (EIFS) and Water Resistant Barrier Coatings
- G. ASTM E2486 Standard Test Method for Impact Resistance of Class PB and PI Exterior Insulation and Finish Systems (EIFS)
- H. ASTM G155 and G153 Accelerated Weathering for Exposure of Nonmetallic Materials
- 1.4 ASSEMBLY DESCRIPTION
- A. An exterior coating system consisting of basecoat with embedded reinforcing fabric, primer, and finish installed on exterior soffits.
- B. Functional Criteria
- General:
 - This application is for soffits only.
 - Control joints shall be installed 32 ft (9.75 m) on center maximum as per sheathing manufacturer's recommendations.
 - Building code compliance: The construction shall be acceptable for use under the building code in force in the jurisdiction of the project.
 - Prevent the accumulation of dirt behind the mesh.
 - Performance Requirements:
 - Shall meet testing requirements of Product Performance Sheet.
- 1.5 MATERIALS
- A. Samples: Submit samples for approval. Samples shall be of materials specified and of suitable size as required to accurately represent each color. Samples shall be used on a project. Prepare each sample using same tools and techniques for actual project application. Maintain and make available for review until approved samples.
- B. Manufacturer's Warranty: Submit sample copies of Manufacturer's Warranty indicating Single Source Responsibility.
- 1.6 QUALITY ASSURANCE
- A. Manufacturer: Shall have marketed EIFS assemblies in United States for at least ten years and shall have completed projects of same type, scope and complexity.
2. Application: Shall be experienced and competent in installation of EIFS materials, and shall provide evidence of a minimum of five years experience in work similar to that required by this section.
3. Products manufactured under ISO 9001:2000 Quality System.
- 1.7 DELIVERY, STORAGE, AND HANDLING
- A. Delivery: Deliver products in original packaging with manufacturer's identification.
- B. Storage: Store materials in a cool, dry location, out of sunlight, protected from weather and other harmful environment, and at a temperature above 40F (4.4C) and below 110F (43C) in accordance with manufacturer's instructions.
- 1.8 PROJECT / SITE CONDITIONS
- A. Installation Ambient Air Temperature: Minimum of 40F (4.4C) and rising, and remain so for 24 hours thereafter.
- B. Substrate Temperature: Do not apply materials to substrates whose temperature are below 40 F (4.4 C) or contain frost or ice.
- C. Inclement Weather: Do not apply materials during inclement weather, unless appropriate protection is employed.
- D. Sunlight Exposure: Avoid, when possible, installation of the materials in direct sunlight. Application of finishes in direct sunlight in hot weather may adversely affect aesthetics.
- E. Protect materials shall not be applied if ambient temperature exceeds 120F (49C) or falls below 40F (4.4C) within 24 hours of application. Protect from uneven and excessive evaporation during hot, dry weather.
- F. Prior to installation, the substrate shall be inspected for surface contamination, or other defects that may adversely affect the performance of the ACF materials and shall be free of residual moisture.
- 1.9 COORDINATION AND SCHEDULING:
- A. Coordination: Coordinate Architectural Coatings and Finishes installation with other construction operations.
- 1.10 WARRANTY
- A. Warranty: Upon request, at completion of installation, provide manufacturer's Standard Limited Warranty.

END OF SECTION 09215

SECTION 09653 - RESILIENT WALL BASE AND ACCESSORIES

- 1.1 SUMMARY
- A. Section Includes:
- Resilient base.
 - Resilient molding accessories.
 - Subfloor Leveler System.
- 1.2 QUALITY ASSURANCE
- A. Fire-Test-Response Characteristics: As determined by testing identical products according to ASTM E 648 or NFPA 253 by a qualified testing agency.
- Critical Radiant Flux Classification: Class 1, not less than 0.45 W/m².
- 1.3 PROJECT CONDITIONS
- A. Maintain ambient temperatures within range recommended by manufacturer in spaces to receive resilient products.
- B. Limit Substrate Condition, maintain ambient temperatures within range recommended by manufacturer.
- C. Install resilient products after other finishing operations, including painting, have been completed.
- PART 2 - PRODUCTS
- 2.1 RESILIENT BASE (VB-1)
- A. Resilient Base:
- Manufacturers: Subject to compliance with requirements, provide products by the following:
 - Consensus.
 - Resilient Base Standard: ASTM F 1881.
 - Material Requirement: Type TV (vinyl, thermoplastic).
 - Manufacturing Method: Group IV (solid, homogeneous).
 - Style: Cove base with toe.
 - Minimum Thickness: 0.125 inch.
 - Height: 4 inches.
 - Lengths: Cut lengths 48 inches long or coils in manufacturer's standard length.
 - Outside Corners: Preformed.
 - Inside Corners: Preformed.
 - Finish: Matte.
 - Colors and Patterns: As indicated on drawings.
- 2.2 SUBFLOOR LEVELER SYSTEM
- A. Resilient Molding Accessory:
- Manufacturers: Subject to compliance with requirements, provide products by the following:
 - Consensus.
 - Resilient Base Standard: ASTM F 1881.
 - Material Requirement: Type TV (vinyl, thermoplastic).
 - Manufacturing Method: Group IV (solid, homogeneous).
 - Style: Cove base with toe.
 - Minimum Thickness: 0.125 inch.
 - Height: 4 inches.
 - Lengths: Cut lengths 48 inches long or coils in manufacturer's standard length.
 - Outside Corners: Preformed.
 - Inside Corners: Preformed.
 - Finish: Matte.
 - Colors and Patterns: As indicated on drawings.

END OF SECTION 09653

- B. Extend jamb studs through suspended ceilings and attach to underside of overhead structure.
3. Other Framed Openings: Frame openings other than door openings the same as required for door openings, unless otherwise indicated. Install framing below sills of openings to match framing required above door heads.
4. Fire-Resistance-Rated Partitions: Install framing to comply with fire-resistance-rated assembly indicated and support closures and to make partitions continuous from floor to underside of solid structure.
- Firestop Track: Where indicated, install to maintain continuity of fire-resistance-rated assembly indicated.
5. Sound-Rated Partitions: Install framing to comply with sound-rated assembly indicated.
- D. Direct Furring:
- Attach to concrete or masonry with stub nails, screws designed for masonry attachment, or powder-driven fasteners spaced 24 inches o.c.
- E. Furring Members:
- erect. Installation (specified in Division 7 Section "Building Insulation") vertically and hold in place with Z-furring members spaced 24 inches o.c.
 - Except at exterior corners, securely attach narrow flanges of furring members to wall with concrete stub nails, screws designed for masonry attachment, or powder-driven fasteners spaced 24 inches o.c.
 - At exterior corners, attach wide flange of furring members to wall with short furring extending beyond corner, on adjacent wall surface, screw-attach short flange of furring channel to web of attached channel. At interior corners, space second member no more than 12 inches from corner and cut insulation to fit.
- F. Installation Tolerance: Install each framing member so fastening surfaces vary not more than 1/8 inch from the plane form by its faces of adjacent framing.

END OF SECTION 09111

SECTION 09 25 13 Acrylic Plastering

This overview is provided as an explanatory resource for the designer and specifier and is not part of the specification that follows.

Parox Architectural Coatings and Finishes (ACF): Soffit is an exterior coating system for application to ASTM C 1177 compliant glass mat faced gypsum board or cement board on exterior soffits.

Where the soffit is considered a weather exposed surface in accordance with local building code, it may require a water resistive barrier above the sheathing.

ACF has four primary components:

- Cementitious acrylic basecoat, approximately 1/16" thick.
- Fiberglass reinforcing mesh embedded in the basecoat installed over additional strips of fiberglass mesh placed over cement board joints.
- Acrylic Primer (optional)
- Acrylic or elastomeric textured, integrally colored finish.

PART 1 - GENERAL

- 1.1 SECTION INCLUDES
- Installation of a cementitious acrylic basecoat, reinforcing mesh, [primer] and finish installed on exterior soffits
- 1.2 RELATED SECTIONS
- A. Section 03 00 00 Concrete
- B. Section 07 90 00 Joint Protection
- C. Section 08 50 00 Windows
- 1.3 REFERENCES
- A. ASTM B117 Test Method for Salt Spray (Fog) Testing
- B. ASTM D2447 Practice for Testing Water Resistance of Coatings in 100 Percent Relative Humidity
- C. ASTM D284 Test Method for Surface Burning Characteristics of Building Materials
- D. ASTM E331 Test Method for Water Penetration by Uniform Static Air Pressure Difference
- E. ASTM E695 Method for Measuring Relative Resistance to Impact Loading
- F. ASTM E2485 Standard Test Method for Freeze-Thaw Resistance of Exterior Insulation and Finish Systems (EIFS) and Water Resistant Barrier Coatings
- G. ASTM E2486 Standard Test Method for Impact Resistance of Class PB and PI Exterior Insulation and Finish Systems (EIFS)
- H. ASTM G155 and G153 Accelerated Weathering for Exposure of Nonmetallic Materials
- 1.4 ASSEMBLY DESCRIPTION
- A. An exterior coating system consisting of basecoat with embedded reinforcing fabric, primer, and finish installed on exterior soffits.
- B. Functional Criteria
- General:
 - This application is for soffits only.
 - Control joints shall be installed 32 ft (9.75 m) on center maximum as per sheathing manufacturer's recommendations.
 - Building code compliance: The construction shall be acceptable for use under the building code in force in the jurisdiction of the project.
 - Prevent the accumulation of dirt behind the mesh.
 - Performance Requirements:
 - Shall meet testing requirements of Product Performance Sheet.
- 1.5 MATERIALS
- A. Samples: Submit samples for approval. Samples shall be of materials specified and of suitable size as required to accurately represent each color. Samples shall be used on a project. Prepare each sample using same tools and techniques for actual project application. Maintain and make available for review until approved samples.
- B. Manufacturer's Warranty: Submit sample copies of Manufacturer's Warranty indicating Single Source Responsibility.
- 1.6 QUALITY ASSURANCE
- A. Manufacturer: Shall have marketed EIFS assemblies in United States for at least ten years and shall have completed projects of same type, scope and complexity.
2. Application: Shall be experienced and competent in installation of EIFS materials, and shall provide evidence of a minimum of five years experience in work similar to that required by this section.
3. Products manufactured under ISO 9001:2000 Quality System.
- 1.7 DELIVERY, STORAGE, AND HANDLING
- A. Delivery: Deliver products in original packaging with manufacturer's identification.
- B. Storage: Store materials in a cool, dry location, out of sunlight, protected from weather and other harmful environment, and at a temperature above 40F (4.4C) and below 110F (43C) in accordance with manufacturer's instructions.
- 1.8 PROJECT / SITE CONDITIONS
- A. Installation Ambient Air Temperature: Minimum of 40F (4.4C) and rising, and remain so for 24 hours thereafter.
- B. Substrate Temperature: Do not apply materials to substrates whose temperature are below 40 F (4.4 C) or contain frost or ice.
- C. Inclement Weather: Do not apply materials during inclement weather, unless appropriate protection is employed.
- D. Sunlight Exposure: Avoid, when possible, installation of the materials in direct sunlight. Application of finishes in direct sunlight in hot weather may adversely affect aesthetics.
- E. Protect materials shall not be applied if ambient temperature exceeds 120F (49C) or falls below 40F (4.4C) within 24 hours of application. Protect from uneven and excessive evaporation during hot, dry weather.
- F. Prior to installation, the substrate shall be inspected for surface contamination, or other defects that may adversely affect the performance of the ACF materials and shall be free of residual moisture.
- 1.9 COORDINATION AND SCHEDULING:
- A. Coordination: Coordinate Architectural Coatings and Finishes installation with other construction operations.
- 1.10 WARRANTY
- A. Warranty: Upon request, at completion of installation, provide manufacturer's Standard Limited Warranty.

END OF SECTION 09215

SECTION 09250 - GYPSUM BOARD

- 1.1 SUMMARY
- A. Interior gypsum board.
- B. Exterior gypsum board for ceilings and soffits.
- C. Tile backing panels.
- 1.2 QUALITY ASSURANCE
- A. Mockups for the following:
- Levels of gypsum board finish for use in exposed locations.
 - Texture finishes.
- 1.3 MATERIALS
- A. Interior Gypsum Board:
- Regular type.
 - Type X.
 - Special Type X: Having improved fire resistance over standard Type X.
 - Flexible Type: Manufactured to bend to fit radii.
 - Celling Type: Manufactured to have more sag resistance than regular-type gypsum board.
 - Foil-backed type.
 - Abuse-resistant type.
 - Moisture- and mold-resistant type.
- B. Exterior Gypsum Board for Ceilings and Soffits:
- Exterior gypsum soffit board.
 - Glass-mat gypsum sheathing board.
- C. Tile-Backing Panels:
- Water-resistant gypsum backing board.
 - Glass-mat, water-resistant backing board.
 - Cementitious backer units.
- D. Trim Accessories:
- Interior.
 - Exterior.
 - Aluminum: Extruded profiles.
 - Texture finishes.

END OF SECTION 09250

SECTION 09653 - RESILIENT WALL BASE AND ACCESSORIES

- PART 1 - GENERAL
- 1.1 SUMMARY
- A. Section Includes:
- Resilient base.
 - Resilient molding accessories.
 - Subfloor Leveler System.
- 1.2 QUALITY ASSURANCE
- A. Fire-Test-Response Characteristics: As determined by testing identical products according to ASTM E 648 or NFPA 253 by a qualified testing agency.
- Critical Radiant Flux Classification: Class 1, not less than 0.45 W/m².
- 1.3 PROJECT CONDITIONS
- A. Maintain ambient temperatures within range recommended by manufacturer in spaces to receive resilient products.
- B. Limit Substrate Condition, maintain ambient temperatures within range recommended by manufacturer.
- C. Install resilient products after other finishing operations, including painting, have been completed.
- PART 2 - PRODUCTS
- 2.1 RESILIENT BASE (VB-1)
- A. Resilient Base:
- Manufacturers: Subject to compliance with requirements, provide products by the following:
 - Consensus.
 - Resilient Base Standard: ASTM F 1881.
 - Material Requirement: Type TV (vinyl, thermoplastic).
 - Manufacturing Method: Group IV (solid, homogeneous).
 - Style: Cove base with toe.
 - Minimum Thickness: 0.125 inch.
 - Height: 4 inches.
 - Lengths: Cut lengths 48 inches long or coils in manufacturer's standard length.
 - Outside Corners: Preformed.
 - Inside Corners: Preformed.
 - Finish: Matte.
 - Colors and Patterns: As indicated on drawings.
- 2.2 SUBFLOOR LEVELER SYSTEM
- A. Resilient Molding Accessory:
- Manufacturers: Subject to compliance with requirements, provide products by the following:
 - Consensus.
 - Resilient Base Standard: ASTM F 1881.
 - Material Requirement: Type TV (vinyl, thermoplastic).
 - Manufacturing Method: Group IV (solid, homogeneous).
 - Style: Cove base with toe.
 - Minimum Thickness: 0.125 inch.
 - Height: 4 inches.
 - Lengths: Cut lengths 48 inches long or coils in manufacturer's standard length.
 - Outside Corners: Preformed.
 - Inside Corners: Preformed.
 - Finish: Matte.
 - Colors and Patterns: As indicated on drawings.

END OF SECTION 09653

- [2. Etarspan by James Hardie Building Products, minimum 1/2" (12.7 mm) thick.
- [3. Hardie by James Hardie Building Products, minimum 1/2" (12.7 mm) thick.
- [4. Para-Glass Sheeting by National Gypsum Co., minimum 1/2" (12.7 mm) thick.
- [5. Concrete (poured or pre-cast).
- [6. Other approved by Parox USA in writing prior to the project.
- 2.3
- [A.
- [B.
- [C.
- C. Sealant System:
- Sealant for perimeter seals around window and door frames and other wall penetrations shall be low modulus, designed for minimum 50% elongation and minimum 25% compression, and as selected by Architect.
 - Sealants shall conform to ASTM C920, Grade NS.
 - Perimeter seal joints shall be a minimum width of 1/2 in. (12.7 mm).
 - Sealant backer rod shall be closed-cell polyethylene foam.
 - Apply sealant to tracks or basecoat.
 - Refer to Parox USA current Technical Bulletin for listing of sealants which have been tested and found to be compatible with Parox materials.
 - Color shall be as selected by Architect.
 - Joint design, surface preparation, and sealant primer shall be based on sealant manufacturer's recommendations and project conditions.

END OF SECTION 09111

SECTION 09 25 13 Acrylic Plastering

This overview is provided as an explanatory resource for the designer and specifier and is not part of the specification that follows.

Parox Architectural Coatings and Finishes (ACF): Soffit is an exterior coating system for application to ASTM C 1177 compliant glass mat faced gypsum board or cement board on exterior soffits.

Where the soffit is considered a weather exposed surface in accordance with local building code, it may require a water resistive barrier above the sheathing.

ACF has four primary components:

- Cementitious acrylic basecoat, approximately 1/16" thick.
- Fiberglass reinforcing mesh embedded in the basecoat installed over additional strips of fiberglass mesh placed over cement board joints.
- Acrylic Primer (optional)
- Acrylic or elastomeric textured, integrally colored finish.

PART 1 - GENERAL

- 1.1 SECTION INCLUDES
- Installation of a cementitious acrylic basecoat, reinforcing mesh, [primer] and finish installed on exterior soffits
- 1.2 RELATED SECTIONS
- A. Section 03 00 00 Concrete
- B. Section 07 90 00 Joint Protection
- C. Section 08 50 00 Windows
- 1.3 REFERENCES
- A. ASTM B117 Test Method for Salt Spray (Fog) Testing
- B. ASTM D2447 Practice for Testing Water Resistance of Coatings in 100 Percent Relative Humidity
- C. ASTM D284 Test Method for Surface Burning Characteristics of Building Materials
- D. ASTM E331 Test Method for Water Penetration by Uniform Static Air Pressure Difference
- E. ASTM E695 Method for Measuring Relative Resistance to Impact Loading
- F. ASTM E2485 Standard Test Method for Freeze-Thaw Resistance of Exterior Insulation and Finish Systems (EIFS) and Water Resistant Barrier Coatings
- G. ASTM E2486 Standard Test Method for Impact Resistance of Class PB and PI Exterior Insulation and Finish Systems (EIFS)
- H. ASTM G155 and G153 Accelerated Weathering for Exposure of Nonmetallic Materials
- 1.4 ASSEMBLY DESCRIPTION
- A. An exterior coating system consisting of basecoat with embedded reinforcing fabric, primer, and finish installed on exterior soffits.
- B. Functional Criteria
- General:
 - This application is for soffits only.
 - Control joints shall be installed 32 ft (9.75 m) on center maximum as per sheathing manufacturer's recommendations.
 - Building code compliance: The construction shall be acceptable for use under the building code in force in the jurisdiction of the project.
 - Prevent the accumulation of dirt behind the mesh.
 - Performance Requirements:
 - Shall meet testing requirements of Product Performance Sheet.
- 1.5 MATERIALS
- A. Samples: Submit samples for approval.