

- B. After postinstallation period, maintain temperatures within range recommended by manufacturer, but not less than 55 deg F (13 deg C) or more than 95 deg F (35 deg C).
 - C. Install resilient products after other finishing operations, including painting, have been completed.
- 1.4 EXTRA MATERIALS
- A. Furnish extra materials described below that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 1. Fastenings less than 18 linear feet (3 linear m) for every 500 linear feet (150 linear m) or fraction thereof, of each type, color, pattern, and size of resilient product installed.

PART 2 - PRODUCTS

- 2.1 MANUFACTURERS
- A. Available Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, products listed in other Part 2 articles.
 - B. Products: Subject to compliance with requirements, provide one of the products listed in other Part 2 articles.
- 2.2 COLORS AND PATTERNS
- A. Colors and Patterns: As selected from manufacturer's full range.
- 2.3 RESILIENT WALL BASE
- A. Wall Base: ASTM F 1861.
 1. AFCO-USA, American Floe Products Company, Inc.
 2. Armstrong World Industries, Inc.
 3. Jotmastic
 4. Respo Corporation
 - B. Type (Material Requirement): TV (vinyl), TS (rubber, vulcanized thermoset) or TP (rubber, thermoplastic).
 - C. Group (Manufacturing Method): 1 (solid).
 - D. Style: Cove (with top-set toe).
 - E. Minimum Thickness: 9/16 inch (3.2 mm).
 - F. Height: 6 inches (152 mm).
 - G. Length: Cut lengths 48 inches (1219 mm) long or coils in manufacturer's standard length.
 - H. Outside Corners: Job formed or pre-molded.
 - I. Inside Corners: Job formed or pre-molded.
 - J. Surface: Smooth.

2.4 INSTALLATION MATERIALS

- A. Trowelable Leveling and Patching Compounds: Latex-modified, portland cement based or blended hydraulic cement based formulation provided or approved by resilient product manufacturers for applications indicated.
- B. Adhesives: Water-resistant type recommended by manufacturer to suit resilient products and substrate conditions indicated.

PART 3 - EXECUTION

- 3.1 PREPARATION
- A. Prepare substrates according to manufacturer's written recommendations to ensure adhesion of resilient products.
 - B. Concrete Substrates for Stair Accessories: Prepare according to ASTM F 710.
 1. Verify that substrates are dry and free of curing compounds, sealers, and hardeners.
 2. Alkalinity and Adhesion Testing: Perform tests recommended by manufacturer. Proceed with installation only after substrates pass testing.
 3. Moisture Testing:
 - a. Perform anhydrous calcium chloride test, ASTM F 1869. Proceed with installation only after substrates have maximum moisture-vapor-emission rate of 3 lb of water/1000 sq ft (1.36 kg of water/92.9 sq m) in 24 hours.
 - b. Perform tests recommended by manufacturer. Proceed with installation only after substrates pass testing.
 - C. Remove substrate coatings and other substances that are incompatible with adhesives and that contain soap, wax, oil, or silicone, using mechanical methods recommended by manufacturer. Do not use solvents.
 - D. Use trowelable leveling and patching compound to fill cracks, holes, and depressions in substrates.
 - E. Move resilient products and installation materials into spaces where they will be installed at least 48 hours in advance of installation.
 1. Do not install resilient products until they are the same temperature as the space where they are to be installed.
 - F. Sweep and vacuum clean substrates to be covered by resilient products immediately before installation. After cleaning, examine substrates for moisture, alkaline salts, carbonation, and dirt. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 RESILIENT WALL BASE INSTALLATION

- A. Apply wall base to walls, columns, pilasters, casework and cabinets in toe spaces, and other protruding fixtures in rooms and areas where base is required.
- B. Install wall base in lengths as long as practicable without gaps at seams and with joints of adjacent pieces aligned.
- C. Tightly adhere wall base to substrate throughout length of each piece. Base in corners must be caulked with horizontal and vertical substrates.
- D. Do not stretch wall base during installation.
- E. On masonry surfaces or other similar substrate surfaces, fill joints along top edge of wall base with manufacturer's recommended adhesive or sealant.
- F. Pre-molded Corners: Install pre-molded corners before installing straight sections.
- G. Job-Formed Corners:
 1. Outside Corners: Use straight pieces of maximum lengths possible. Form without producing discoloration or staining at bends. Shave back of base at points where bends occur and remove strips perpendicular to length of base that are only deep enough to produce a snug fit without removing more than half the wall base thickness.
 2. Inside Corners: Use straight pieces of maximum lengths possible. Form by cutting an inverted V-shaped notch in wall base at the point where corner is formed. Shave back of base where necessary to produce a snug fit to substrate.

3.3 CLEANING AND PROTECTION

- A. Perform the following operations immediately after completing resilient product installation:
 1. Remove adhesive and other residues from exposed surfaces.
 2. Sweep and vacuum surfaces thoroughly.
 3. Damp-mop surfaces to remove marks and soil.
 - a. Do not wash surfaces until after time period recommended by manufacturer.
- B. Protect resilient products from marks, marks, indentations, and other damage from construction operations and placement of equipment and fixtures during remainder of construction period. Use protection methods recommended in writing by manufacturer.

END OF SECTION 09653

09900 - PAINTING AND WALL FINISHES

SECTION 09900 - PAINT AND WALL FINISHES

Part 1. GENERAL

1.01 CONDITIONS AND REQUIREMENTS:

- A. All provisions of the conditions of the contract apply to this section.
- B. Description: provide all painting and finishing of surfaces as indicated on the drawings, herein specified, and as normally requiring a paint finishes, unless otherwise excepted.
- C. Related requirements specified elsewhere:
 1. General requirements: Division 1
 2. Sealants and caulking: Section 07920

1.02 QUALITY ASSURANCE:

- A. Include on label of containers:
 1. Manufacturer's name
 2. Type of paint
 3. Manufacturer's stock number
 4. Color
 5. Instructions of reducing, where applicable
 6. Label analysis

1.03 SUBMITTALS:

- A. Application procedure and materials. A minimum of sixty (60) days prior to initiating this work, submit for approval manufacturer's published application procedure, and a list of materials proposed for each coat, including names and numbers of each project.
- B. Samples: a minimum of sixty (60) days prior to the purchase of paint and initiating this work, submit Draw Cards of each color to the Architect for verification, and upon receipt of notice to proceed with samples by the Architect, install a 5"x5" panel of each type of paint color specified for final paint approval. Provide an allowance to paint additional paint samples (one pint of a shade lighter and one pint of a shade darker) at the Architects direction during the review process. The Owner and Architect will review these paint samples, during one of the regularly scheduled payment draw request meetings. The Architect shall make final paint color approval only.
- C. Coating Maintenance Manual: upon conclusion of the project, the Contractor or paint manufacturer/supplier shall furnish a coating maintenance manual, such as Sherwin-Williams "Customian Project Color and Product Information" report or equal. Manual shall include an Area Summary with finish schedule, Area Detail designating where each product/color/finish was used, product data pages, Material Safety Data Sheet, care and cleaning instructions, touch-up procedures, and color samples of each color and finish used.

1.04 PRODUCT DELIVERY, STORAGE AND HANDLING:

- A. Deliver materials and store on the site in original containers, unopened, with manufacturer's labels and identification legible and intact.
- B. Comply with health and fire regulations.

1.05 JOB CONDITIONS:

- A. Environmental requirements:
 1. Comply with manufacturer's recommendations as to environmental conditions under which coatings and coating systems can be applied.
 2. Do not apply finish in areas where dust is being generated.
 - B. Surfaces to receive work to be smooth, even, sound, thoroughly clean and free of defects which would adversely affect application of this work. Moisture content of masonry, concrete and plaster surfaces should not exceed fifteen (15) percent. Use moisture meter to determine degree of moisture prior to painting. Thoroughly wash surfaces containing excess alkalinity as recommended by paint manufacturer. Surfaces, which do not meet the tolerances of quality requirements, imposed within the specifications governing substrate construction shall be repaired or replaced prior to installation of this work.
 - C. Coordination: install window glazing, sealing, exterior doors, and all roofing completely, prior application of this work. Mask, cover, and protect by removal, if necessary, adjacent materials and surfaces.
 - D. Protection:
 1. Cover or otherwise protect finished work of other trades and surfaces not being painted concurrently or not to be painted.
- Provide "wet paint" signs as required to protect new paint surfaces.

1.06 WARRANTIES:

Provide a 5 year labor warranty, which begins after project completion and covers the installation of the entire paint membrane. The 5-year warranty shall include the entire paint membrane with no monetary limit, and with out any prorated or other limitations. The warranty must be assignable to the purchaser of this project. Warranty to be signed by the contractor with an original copy provided to the Owner.

Part 2. PRODUCTS

- 2.1 ACCEPTABLE MANUFACTURERS:
- A. Use painting products from Sherwin-Williams Paint Company or equal.
 - B. Only products manufactured by the same manufacturer for succeeding coats after application of primer or first coat.
 - C. Paints: remove ground coat, free from caking, thickening or setting in the container readily broken with a screwdriver to a smooth consistency.
 - D. Deliver paint to the project site ready-mixed, in selected colors.

Part 3. EXECUTION

3.01 INSPECTION

- A. Examine surfaces scheduled to receive paint and finishes or conditions that will adversely affect execution, permanence or quality of work and which cannot be put into an acceptable condition through preparatory work as included in Article 3.02, preparation.
- B. The application of any part of the work to be performed under this section will be continued as acceptance of the surface and thereafter painting contractor shall be fully responsible for satisfactory work as required herein.

3.02 PREPARATION OF SURFACES:

Apply paint to surfaces which are smooth, even, sound, thoroughly dry and clean, and free of defects which would adversely affect application of paint.

A. Concrete and masonry:

1. Remove fins, projections, protruding nails or other metal fastenings loose foreign materials. Remove mortar splitters from areas exposed to view by dressing down with a carbide round block.
2. Patch large openings and holes with Portland cement mortar after priming, fill remaining small depressions with a vinyl emulsion compound to match texture of surface as approved by the painting manufacturer.
3. Remove form oil from concrete by washing with kydol.
4. Provide a zinc-chloride phosphoric acid pre-treatment for concrete surfaces receiving eggshell or enamel paint.
5. Pressure wash all surfaces to remove & clean dirt, dust, loose sand & surface contaminants. Must be done within three to five days of first coat. Repeat as needed.

Wash metal surfaces with mineral spirits to remove grease, oil and dirt. Wire brush or sand surfaces to remove rust and scale. Touch-up factory primed surfaces with compatible primer. Pre-treat galvanized metal with acid bound resin or crystalline zinc phosphate preparation in accord with manufacturer's directions. Remove all residue from cleaning agents with suitable solvents and multiple rinsing with clear water.

3.03 APPLICATION AND WORKMANSHIP

- A. Perform work using experienced, skilled painter in accord with manufacturer's published directions. Mix and thin paint only as prescribed by the paint manufacturer.
- B. Apply paint using brush or roller. Application methods used shall provide complete coverage,

uniform colors, specified thick nesses, desired sheen and approved texture. Cut in edges by brush next to trim, abutting items and internal corners. Repair any surfaces where differences occur in coverage or where surfaces contain runs, sags, brush marks, air bubbles or stippling.

- C. Spray application is acceptable.
- D. For each coat of paint used, use slightly different shade than preceding coat to distinguish various coats.
- E. Sand wood surfaces between each coat, dust apply succeeding coats.
- F. Apply succeeding coats only after paint is thoroughly dry in accord with manufacturer's published directions.
- G. Seal tops and bottoms of all doors. Finish side edges of doors same as faces of doors.
- H. Back-prime all interior woodwork prior to installation with material specified from prime coat.
- I. Before painting, remove or provide angle protection of hardware, accessories, plates, lighting fixtures and similar items. Replace items when painting is completed.
- J. At completion of work, touch up and restore field painted finish where damaged prior to occupancy.
- K. Caulk all exterior joints of surfaces to the wall such as pipes, vents, doors, electrical boxes & wall attachments. Use MAB elastomeric sealant. Use MAB Acra-Lastic patching compounds for minor masonry cracks, voids, breaks.

3.04 MECHANICAL AND ELECTRICAL:

- A. Paint all exposed piping, conduit, supports and hangers.
- Paint all air condition and ventilation grills.
- Paint all exterior electrical equipment, switchgear, troughs, and wire ways to match building.
- Paint all wood backboards prior to installation of any electrical or communications equipments.

3.05 PAINTING SCHEDULE:

Provide surface finishes, locations and type of coating in accord with the following schedule, and as necessary to complete all painting. Carefully examine the requirements of all sections of the specifications for this project as to the location, extent and nature of painting work required, and include such items to be painted which are not specifically included in the schedules. Elastomeric sealants must be back rolled. Finish all surfaces as needed with additional coats at no extra cost to the owner.

B. Exterior surfaces: (Items specified are by Sherwin-Williams Paint Company)

- 1. Ferrous metal (Structural Steel, Miscellaneous Iron, Catwalks, Escapes, Hand Rails, Ladders, Doors, Vents):
 - Primer: (1) Coat S-W Kem Kromak Universal Metal Primer, B66-310
 - Finish: (2) Coats S-W HydroGloss Single Component WB Urethane, B65W181
- 2. Galvanized metal (all surfaces, except conduit):
 - Primer: (1) Coat S-W Pro Industrial Pro-Cryl Universal Primer, B66-310
 - Finish: (2) Coats S-W HydroGloss Single Component WB Urethane, B65W181
- 3. Aluminum (surfaces, pipes, conduit):
 - Primer: (1) Coat S-W Pro Industrial Pro-Cryl Universal Primer, B66-310
 - Finish: (2) Coats S-W HydroGloss Single Component WB Urethane, B65W181
- 4. Plaster, stucco, masonry, terra cotta surfaces:
 - Primer: (1) Coat S-W Lonox Concrete & Masonry Primer/Sealer Interior/Exterior Latex, B42W941
 - Finish: (2) Coats S-W A-100 Exterior Latex Satin, A82-100 Series
- 5. Wood:
 - Primer: (1) Coat S-W Pro Industrial Pro-Cryl Universal Primer, B66-310
 - Finish: (2) Coats S-W HydroGloss Single Component WB Urethane, B65W181
- 6. Stacks, Breaching, Piping (under 200 degrees F):
 - Primer: (1) Coats S-W Pro Industrial Pro-Cryl Universal Primer, B66-310
 - Finish: (2) Coats S-W HydroGloss Single Component WB Urethane, B65W181
- 7. Unprimed Wood: Trim/Doors/Fascia/Miscellaneous Wood:
 - Primer: (1) Coats S-W Exterior Latex Wood Primer, B42W941
 - Finish: (2) Coats S-W Pro Industrial Acrylic Semi-Gloss, B66-650 Series

PRE-JOB MEETING

A. The Owner's representative, the contractor, the painting contractor and the paint manufacturers shall schedule a meeting thirty days prior to commencing any work to review scope of work, samples, colors, surface preparation requirements and contractor's responsibilities.

Mock-Up Sample

Provide a 10 x 10 mock-up sample of the exterior masonry system showing all sealers, primer, mid-coat and finish coat. When approved by the owner this will serve as the standard for the job. All mock-ups must be done by the applicator.

This Section uses the term «Architect.» Change this term to match that used to identify the design professional as defined in the General and Supplementary Conditions

END OF SECTION 09900

SECTION 10200 - LOUVERS AND VENTS

Part 1 - GENERAL

- 1.1 SUMMARY
 - A. This Section includes fixed, extruded-aluminum louvers.

1.2 PERFORMANCE REQUIREMENTS

- A. Structural Performance: Provide louvers capable of withstanding the effects of gravity loads and wind loads based on a uniform pressure of 20 lb/sq ft, acting inward or outward, without permanent deformation of louver components, noise or metal fatigue caused by louver blade rattle or flutter, or permanent damage to fasteners and anchors.
- B. Thermal Movements: Provide louvers that allow for thermal movements resulting from a temperature change (range) of 120 deg F, ambient 180 deg F, material surfaces, by preventing buckling, opening of joints, overwresting of components, failure of connections, and other detrimental effects.
- C. Air-Performance, Water-Penetration, and Wind-Driven Rain Ratings: As demonstrated by testing manufacturer's stock units according to AMCA 500-L.

1.3 SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Shop Drawings: Include plans, elevations, sections, details, and attachments to other Work.
 1. Verify louver openings by field measurements before fabrication and indicate measurements on Shop Drawings.
- C. Samples: For each type of finish upon request of Architect.
- D. Product test reports verifying compliance with applicable wind loads by testing methods approved by the authority having jurisdiction.

Part 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 1. Louvers:
 - a. Airline Products Co.
 - b. Ceseu Products.
 - c. Greenback.
 - d. Vent Products Company, Inc.

- 2.2 MATERIALS
 - A. Aluminum Extrusions: ASTM B 221, alloy 6063-T5 or T-52.
 - B. Aluminum Sheet: ASTM B 209, alloy 3003 or 5050.
- 2.3 FASTENERS: Of same basic metal and alloy as fastened metal or 300 Series stainless steel.

2.4 FABRICATION, GENERAL

- A. Fabricate frames to fit in openings of sizes indicated, with allowances made for fabrication tolerances, adjoining material tolerances, and perimeter sealant joints.
- B. Join frame members to each other and to louver blades with fillet welds concealed from view.
- C. Join frame members to each other and to louver blades with fillet welds, threaded fasteners, both as standard with louver manufacturer concealed from view.

2.5 FIXED, EXTRUDED-ALUMINUM LOUVERS

- A. Horizontal, Non-Insulated-Blade Louvers: Provide one of the following:
 1. Basic Design Product: Greenback Louvers
 - a. Airline Products Co.
 - b. Ceseu Products.
 - c. Vent Products Company, Inc.
 2. Blade Profile: Provide without outer battens.
 3. Frame and Blade Material Thickness: Minimum 0.080 inch.
 4. Performance Requirements:
 - a. Free Area: Not less than 7.5 sq. ft. for 48-inch-wide by 48-inch-high louver.
 - b. Point of Maximum Water Penetration: Not less than 700 fpm.
 - c. Air Penetration: Not more than 0.10-inch wg static pressure drop at free-area velocity.

2.6 LOUVER SCREENS

- A. General: Provide screen at interior face of each extruded louver.
- Louver Screen Frames: Same kind and form of metal as indicated for louver to which screens are attached.
- C. Louver Screening:
 1. Bird Screening: Aluminum, 1/2-inch-square mesh, 0.063-inch wire.

2.7 FINISHES

- A. Aluminum, High-Performance Organic Finish: Two-coat thermoset system with fluoropolymer coats containing not less than 70 percent polyvinylidene fluoride resin by weight; complying with AAMA 2605.
 1. Color and Gloss: As selected from manufacturer's full range.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Locate and place louvers and vents level, plumb, and at indicated alignment with adjacent work.
- B. Use concealed anchors where possible. Provide brass or lead washers fitted to screws where required to protect metal surfaces and to make a weathertight connection.
- C. Provide perimeter reveals and openings of uniform width for sealants and joint fillers, as indicated.
- D. Repair damaged finishes so no evidence remains of corrective work. Return items that cannot be refinished in the field to the factory, make required alterations, and refinish entire unit or provide new units.
- E. Protect galvanized and nonferrous-metal surfaces from corrosion or galvanic action by applying a heavy coating of bituminous paint on surfaces that will be in contact with concrete, masonry, or dissimilar metals.

END OF SECTION 10200

SECTION 10536 - FABRIC AWNINGS

Part 1 - GENERAL

- 1.1 SUMMARY
 - A. This section includes awning fabric and aluminum frame components.
- 1.2 SUBMITTALS
 - A. Product Data: For each type of product indicated.
 - B. Shop Drawings: Include plans, elevations, sections, details, and attachments to other Work.
 - C. Samples: For each exposed finish and for each color and pattern required.

Part 2 - PRODUCTS

- 2.1 MANUFACTURERS
 - A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 1.
 - a. The Astrup Company
 - b. John Boyle & Company
 - c. Markham Sign & Awning
 - d. Sunrella

2.2 MATERIALS

- A. Fabric:
 - 1. Wick-resistant polyester fabric, PVC resin coating, certified for compliance with the SBC97 section 3103 and meeting listing requirements for flame resistance NFPA 701.
 - Color: As selected from manufacturer's full range.
- B. Brackets: Mill finish manufacturers standard.
- C. Continuous Frame: Aluminum Alloy and temper recommended by aluminum producer and finisher for use and provide a powder-coated finish.

2.3 FABRICATION, GENERAL

- A. Fabric: Fabric shall be provided with an integral protective topcoat with seams minimized and with an eight year warranty covering material workmanship, color degradation and fading.
- B. Frame: Fabricate to design, dimensions, and details indicated, but not less than that required to support structural loads. Prevent galvanic action and other forms of corrosion by insulating metals and other materials from direct contact with incompatible materials.

Part 3 - EXECUTION

- 3.1 INSTALLATION
 - A. Install units rigid, straight, level, and plumb, with not more than 1/8 inch (13 mm) between panels and walls. Provide brackets, basing, and other components required for a complete installation.

END OF SECTION 10536

Order Plans

UNAWARDED ONLINE

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SPECIFICATIONS

A-0010

A-0010