

DIVISION 08: DOORS AND WINDOWS (cont.)

- I. **Louvers and Vents:**
- Summary:** This section specifies fixed wall louvers, wall vents and soffit vents, as required to vent concrete masonry facade cavities, roof canopy cavities and roof parapet wall cavities.
 - Wall Louvers at roof parapet walls.
 - Concrete Masonry Vents at roof parapet walls
 - Brick Masonry Vents at masonry facades.
 - Soffit Vents at canopies and roof eaves.
 - Submittals:** For each type of louver and vent, submit the following:
 - Shop Drawings: Showing dimensions and installation, anchorage and flashing details in relation to adjacent construction.
 - Product Data: Manufacturer's literature indicating materials, finish and installation accessories and instructions.
 - Materials:**
 - Aluminum, Extruded: ASTM B221/B221M.
 - Aluminum, Plate and Sheet: ASTM B209/B209M.
 - Fasteners: Fasteners for securing louvers and wall vents to adjoining construction, except as otherwise specified or shown, shall be toggle or expansion bolts, of size and type as required for each specific type of installation and service condition.
 - Where type, size, or spacing of fasteners is not shown or specified, submit shop drawings showing proposed fasteners, and method of installation.
 - Fasteners for louvers, louver frames, and wire guards shall be of stainless steel or aluminum.
 - Inorganic Zinc Primer: MPI No. 19.
 - Exterior Wall Louvers:** Provide fixed-type air exhaust louvers in sizes and designs as required to accommodate metal framed parapet wall conditions indicated in the Drawings.
 - Louver frames, blades and sills (sliding interlocking type):
 - Material: 2 mm (0.081-inch) thick extruded aluminum.
 - Finish: As selected from manufacturer's standard pre-finish options.
 - Heads, sills and jamb sections shall have formed caulking slots or be designed to retain caulking.
 - Head sections shall have exterior drip lip and sill sections with an integral water stop.
 - Sill sections shall include a sill extension or separate sill.
 - Frames shall be mechanically fastened or welded construction with welds dressed smooth and flush.
 - Blades shall be drainable-type and have reinforcing bosses.
 - Provide aluminum mesh insect screen integral with louver.
 - Concrete Masonry Vents:** Provide fixed-type air exhaust vents in sizes and designs as required to accommodate the concrete masonry parapet wall conditions indicated in the Drawings.
 - Vent Materials:
 - Formed of approximately 3 mm (0.125) inch extruded aluminum.
 - Finish: As selected from manufacturer's standard pre-finish options.
 - Provide vents complete with aluminum screen frame with corrosion resistant insect screening mounted on back of vent.
 - Provide vents with required anchors.
 - Brick Masonry Vents:** Provide fixed-type air intake vents in sizes and designs as required to accommodate the brick masonry veneer facade conditions indicated in the Drawings.
 - Vent Materials:
 - Formed of approximately 3 mm (0.125) inch extruded aluminum.
 - Finish: As selected from manufacturer's standard pre-finish options.
 - Provide vents complete with aluminum screen frame with corrosion resistant insect screening mounted on back of vent.
 - Provide vents with required anchors.
 - Soffit Vents:** Provide fixed-type, continuous air intake vents in sizes and designs as required to accommodate the canopy soffit and roof eave soffit conditions indicated in the Drawings.
 - Vent Materials:
 - Formed of approximately 0.14-inch thick extruded aluminum.
 - Finish: As selected from manufacturer's standard pre-finish options.
 - Provide vents with required anchors.
 - Installation:**
 - Provide protection for aluminum against galvanic action wherever dissimilar materials are in contact, by painting the contact surfaces of the dissimilar material with a heavy coat of bituminous paint (complete coverage), or by separating the contact surfaces with a performed synthetic rubber tape having pressure sensitive adhesive coating on one side.
 - Set work accurately, in alignment and where shown. Items shall be plumb, level, free of rack and twist, and set parallel or perpendicular as required to line and plane of surface.
 - Provide anchoring devices and fasteners as necessary for securing louvers and vents to building construction as specified. Power actuated drive pins may be used, except for removal items and where members would be deformed or substrate damaged by their use.
 - Set wall louvers and vents in masonry walls during progress of the work. If wall louvers and vents are not delivered to job in time for installation in prepared openings, make provision for later installation.

DIVISION 09: FINISHES

- A. **General Finish Requirements:**
- Related Information:**
 - Refer to Finish Schedule for finish selection and application.
 - Coordinate with Tenant Requirements to verify finish selections prior to procuring finishes.
 - Product Requirements:**
 - Fire Classification: All finishes shall be Class A or Class B.
 - Submittals:**
 - Samples: All finish material samples shall be submitted as indicated in Tenant Requirements, for Tenant's approval, prior to ordering finish materials.
 - Product Data: Submit Manufacturer's specifications, certifications, MSDS and cleaning recommendations for each finish material.
 - Quality Assurance:**
 - Testing: Contractor shall perform substrate tests, as required and as recommended by Finish Manufacturers, to verify that substrate conditions are acceptable to receive new finishes.
 - Inspections: Contractor shall inspect all substrates prior to installing finish materials. Installation of finish materials by Subcontractors indicates acceptance of substrate and that the substrate is acceptable for that specific finish.
 - Installation:** Install all finish materials in accordance with the manufacturer's written installation instructions.
- B. **Interior Gypsum Board**
- General:** Provide all gypsum drywall assemblies and accessories, as indicated on the drawings, as specified herein or as required for a complete and proper installation.
 - Quality Assurance:**
 - Fire-Resistance Rated Assemblies: Provide materials and construction identical to those tested in assembly indicated according to ASTM E 119 by independent testing agency.
 - STC-Rated Assemblies: Provide materials and construction identical to those tested in assembly indicated according to ASTM E 90 and classified according to ASTM E 413 by an independent testing agency.
 - Manufacturers:** Provide all gypsum drywall materials and accessories from one of the following:
 - USG Corporation
 - National Gypsum Company
 - G-P Gypsum
 - Lafarge North America Inc.
 - BPB America Inc.
 - Submittals:**
 - Product Data: For each gypsum board product specified.
 - Products:**
 - Gypsum Wallboard: Complying with ASTM C 36/C 36M or ASTM C 1396/C 1396M, as applicable to type of gypsum board indicated and whichever is more stringent.
 - Regular: 5/8-inch- (-15.9 mm-) thick; long edges tapered.
 - Fire Rated: 5/8-inch- (-15.9 mm) thick Type "X"; long edges tapered.
 - Moisture Resistant: 5/8-inch- (-15.9 mm-) thick, with moisture- and mold resistant core and surfaces.
 - Water-Resistant Gypsum Tile Backing Board: ASTM C 630/C 630M or ASTM C 1396/C 1396M.
 - Regular: 1/2-inch- (-12.7 mm-)
 - Fire Rated: 5/8-inch- (-15.9 mm-) Type X, if required.
 - Gypsum Ceilings: Manufactured with more sag-resistance than regular gypsum board.
 - Regular: 1/2-inch- (-12.7 mm-).
 - Accessories:**
 - Interior Trim: Complying with ASTM C 1047
 - Materials: Provide interior trim in one of the following:
 - Aluminum-coated steel sheet
 - Plastic
 - Paper-faced galvanized steel sheet
 - Products:
 - Corner Bead
 - LC-Bead: J-shaped; exposed long flange to receive joint compound
 - Control Joint: ????
 - Steel Drill Screws: Complying with ASTM C 954, for fastening panels to steel members from 0.033 to 0.112 inch (0.34 to 2.84 mm) thick.
 - Joint Treatment Materials:** Comply with ASTM C 475/C 475M
 - Joint Tape: Paper at Interior Gypsum Wallboard
 - Joint Compound:
 - Prefilling: Setting-type, taping compound.
 - Embedding (First Coat): Drying-type, all purpose compound.
 - Fill Coat (Second Coat): Drying-type, all purpose compound.
 - Finish Coat (Third Coat): Drying-type, all purpose compound.
 - Fire Rated Sealant: As specified in Division 07 Sections "Penetration Firestopping" and "Fire Resistant Joint Systems".
 - Acoustical Sealant: As specified in Division 07 Section "Joint Sealants"
 - Related Materials:**
 - Sound Attenuation Batts: As specified in Division 07 Section "Building Insulation".
 - Thermal Insulation Batts: As specified in Division 07 Section "Building Insulation".
 - Installation:**
 - All new interior partitions shall be constructed according to Drawings.
 - Gypsum board shall be water resistant type in all restrooms, janitor rooms, washrooms, kitchens, and other wet areas.
 - All joints and depressions of the gypsum board shall be taped, three coats of spackle, and shall be sanded to smooth finish ready to receive paint or wall covering.
 - All outside corners to have metal bead and spackle.
 - Fire rated partitions shall extend and be sealed to underside of structural deck above and be permanently identified above the ceiling.
 - All fire rated partitions shall extend from the slab to to the underside of structural deck above. Provide layer(s) of 5/8" Type "X" gypsum board at each side of metal stud framing, in accordance with fire rating required; multiple drywall layers require staggered joints; install 3-1/2" sound attenuation batts in stud cavity, from slab to underside of structural deck above.
 - All penetrations in drywall construction above finished ceiling shall be caulked with acoustical sealant to prevent sound leakage.
 - All gypsum board returns shall have continuous metal corner beads floor to top of gypsum board.
 - All exposed gypsum edges shall have metal corner beads continuous floor to top of gypsum board.

DIVISION 09: FINISHES (cont.)

- C. **Interior Non-Load-Bearing Metal Framing:**
- Summary:** Provide non-load-bearing steel framing members for the following applications, or as indicated on the Drawings.
 - Interior framing systems for partitions, framed soffits and wall furring
 - Interior suspension systems for suspended ceilings and/or soffits.
 - Performance Requirements:**
 - Framing Members, General: Comply with ASTM C 754 for conditions indicated
 - Steel Sheet Components: Comply with ASTM C 645 requirements for metal.
 - Protective Coating: Manufacturer's standard corrosion-resistant zinc coating.
 - Products:** Provide some of the following, as noted on the Drawings or as may be required to facilitate framing conditions encountered in the project.
 - Steel Studs and Runners:
 - Size: As indicated on Drawings.
 - Gauge: As indicated on Drawings.
 - Deflection Head Joints:
 - Slotted Deflection Track System: ASTM C 645 top runners attached to underside of roof deck, with 2 1/2-inch (63.5-mm) deep slotted legs; width to match vertical studs; gauge not less than indicated for studs and fastened to studs.
 - a) Basis-of-Design: MaxTrak (SLT), as manufactured by Clark Dietrich Building Systems.
 - 2) Firestop Deflection Head Joints:
 - a) Option 1 Basis-of-Design: BlazeFrame Fire Stop Deflection Track, as manufactured by Clark Dietrich Building Systems, with Intumescent strip affixed to steel track and applicable accessory materials and installation methods, as required by the UL Head of Wall Assembly No. HW-D-0499 and No. HW-D-0500.
 - b) Option 2 Design: Fire Trak Shadowline System, as manufactured by Fire Trak Corp., with applicable accessory materials and installation methods, as required by UL# HW-D-0060 Head of Wall Assembly.
 - Flat Strap and Backing Plate: Steel sheet for blocking and bracing in length and width, as may be required at framing conditions which may be encountered in the project.
 - Minimum base-Metal Thickness: As required to facilitate framing conditions which may be encountered in the project.
 - Hat-Shaped, Rigid Furring Channels: Comply with ASTM C 645.
 - Minimum Base Thickness: As required to facilitate condition noted on the Drawings.
 - Depth: As noted on the Drawings
 - e) "Z" Shape Furring: 1 1/2-inch deep steel sheet members.
 - Resilient Furring Channels: 1/2-inch- (12.7-mm-) deep steel sheet members designed to reduce sound transmission.
 - g) Cold-Rolled Furring Channels: 0.0538-inch (1.37-mm) bare-steel thickness, with minimum 1/2-inch (12.7-mm) wide flanges.
 - Depth: As required to facilitate framing condition which may be encountered in the project.
 - f) Furring Brackets: Adjustable, corrugated-edge type of steel sheet with minimum bare-steel thickness of 0.0312-inch (0.79-mm).
 - h) Z-Shaped Furring: With slotted or non-slotted web, face flange of 1 1/4-inches (31.8-mm), wall attachment flange of 7/8-inch (22.2-mm), minimum bare-metal thickness of 0.0179-inch (0.45-mm), and depth as required to facilitate insulation conditions that may be encountered in the project.
 - i) Grid Suspension System for Ceilings or Soffits: Comply with ASTM C 645, direct-hung system composed of main beams and cross-furring members that interlock.
 - Products: Subject to compliance with requirements, products that may be incorporated into the work include, but are not limited to, the following:
 - Armstrong World Industries, Inc.: Drywall Grid Systems.
 - Chicago Metallic Corp.: Drywall-Suspended Furring System.
 - c) USG Corp.: Drywall Suspension System
 - Auxiliary Metal Framing Materials:
 - Fasteners for Metal Framing: Of type, material, size, corrosion resistance, holding power and other properties required to fasten steel framing members to substrates.
 - Isolation Strip at Exterior Walls: Provide one of the following:
 - Asphalt-Saturated Organic Felt: Comply with ASTM D 226, Type I (No. 15 asphalt felt), non-perforated.
 - b) Foam Gasket: Adhesive-backed, closed-cell vinyl foam strips that allow fastener penetration without foam displacement, 1/8-inch (3.2-mm) thick, in width to suit framing member size.
 - Acoustical Ceiling Tile:**
 - Summary:** This section includes Landlord Work associated with providing and installing acoustical ceiling tiles and suspension systems required by Tenants, as indicated in Tenant Work Letters.
 - Submittals:** Product and Samples for each type of product.
 - Quality Assurance:**
 - Surface Burning Characteristics: Acoustical tiles complying with ASTM E 1264 for Class A materials, when tested per ASTM E 84.
 - Smoke Developed Index: 450 or less.
 - Standard for Ceiling Suspension Systems Requiring Seismic Restraint: Comply ASTM E 580.
 - Extra Materials:** Furnish extra materials, before installation begins, that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 - Quantity: As indicated in Tenant Requirements.
 - Products:**
 - Acoustical Tile: As required by Tenants, as indicated in Tenant Work Letters.
 - Suspension System: As required by Tenants, as indicated in Tenant Work Letters.
 - Accessories:**
 - Attachment Devices: Size for five times the design load indicated in ASTM C 635, Table 1, "Direct Hung", comply with seismic requirements.
 - Wire Hangers, Braces and Ties: Zinc-coated carbon-steel wire; ASTM A 641/A 641M, Class 1 zinc coating, soft temper.
 - Size: Select wire diameter so its stress at 3 times hanger design load (ASTM C 365, Table 1, "Direct Hung") will be less than yield stress of wire, but provide not less than 0.106-inch (2.69-mm) diameter wire.
 - Seismic Struts and Seismic Clips.
 - Metal Edge Moldings and Trim: Manufacturer's standard moldings for edges and penetrations that comply with seismic design requirements; formed from sheet metal of same material, finish and color as that used for exposed flanges of suspension system runners.
 - Inspection:** Examine the areas and conditions under which work of this section will be installed. Correct unsatisfactory conditions detrimental to the proper completion of the work. Do not proceed with installation until unsatisfactory conditions have been corrected.
 - Installation:** Comply with ASTM C 636 and in accordance with the Manufacturer's written instructions.
 - Anchor all components as required to meet seismic requirements.
 - All acoustical ceiling tiles shall be even and free of defects or sagging.

DIVISION 09: FINISHES (cont.)

- E. **Painting:**
- Summary:**
 - Interior Painting: Surface preparation and field painting included in the Base Building Contract, and as defined in Tenant Work Letters as Landlord Work, which may include, but may not be limited to the following substrates:
 - Concrete Masonry Unit Walls
 - Concrete Slab-on-Grade
 - Concrete Slab-on-Grade
 - Steel Beams, Joists and Roof Deck.
 - Metal Stairs and Railings.
 - Hollow Metal Doors and Frames.
 - Exterior Painting: Surface preparation and field painting included in the Base Building Contract, and as indicated in Tenant Requirements as Landlord Work, including but not limited to the following:
 - Concrete Masonry Unit Walls
 - Metal Stairs and Railings.
 - Exterior-side of Exterior Factory-Primed Hollow Metal Doors and Frames.
 - Exterior-side of Exterior Structural Steel Door Frames
 - Steel Pipe Bollards
 - Cementitious Siding, Soffit and Trim.
 - Urethane Ornamental Trim Fabrications
 - Glass Fiber Reinforced (FRP) Fabrications
 - Submittals:**
 - Product Data: For each type of product indicated.
 - Samples: For each color of topcoat indicated.
 - Quality Assurance:**
 - MPI Standards:
 - Products: Comply with MPI standards indicated and listed in "MPI Approved Products List".
 - Preparation and Workmanship: Comply with requirements in "MPI Architectural Painting Specification Manual", for products and paint systems indicated.
 - Source Limitations: Obtain primers and undercoat materials for each coating system from the same manufacturer as the finish coats.
 - Extra Materials:** Furnish extra materials described below that are from same production run (batch mix) as materials applied and that are packaged for storage and identified with labels describing contents.
 - Quantity: Furnish an additional 5 percent, but not less than 1 gal. (3.8 L) of each material and color applied.
 - Products:**
 - Material Compatibility: Provide materials for use within each paint system that are compatible with one another and substrates indicated.
 - Manufacturer: Provide products from paint manufacturer as indicated in Tenant Requirements.
 - Prime and Paint Finish Coat Materials: Provide materials as indicated in Tenant Requirements.
 - Paint Finish Colors and Sheens: Provide colors and sheens as indicated in Tenant Requirements.
 - Examination:** Examine substrates, areas and conditions under which painting will be performed for compliance with paint application requirements. Do not begin to apply paint until unsatisfactory conditions have been corrected and surfaces receiving paint are thoroughly dry.
 - Preparation:** Clean and prepare surfaces to be painted according to paint manufacturer's written instructions for each particular substrate condition.
 - Application:** Apply prime and paint finishes according to paint manufacturer's written instructions.

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