

<p>2.7 Storefront Framing Fabrication:</p> <p>A. Framing Members, General: Fabricate components that, when assembled, have the following characteristics:</p> <ol style="list-style-type: none"> <li>1. Profiles that are sharp, straight, and free of defects or deformations.</li> <li>2. Accurately fit joints; make joints flush, hairline and weatherproof.</li> <li>3. Means to drain water passing joints, condensation within framing members, and moisture migrating within the system to exterior.</li> <li>4. Physical and thermal isolation of glazing from framing members.</li> <li>5. Accommodations for thermal and mechanical movements of glazing and framing to maintain required glazing edge clearances.</li> <li>6. Provisions for field replacement of glazing.</li> <li>7. Fasteners, anchors, and connection devices that are concealed from view to greatest extent possible.</li> </ol> <p>B. Mechanically Glazed Framing Members: Fabricate for flush glazing without projecting stops.</p> <p>C. Structural-Sealant-Glazed Framing Members: Include accommodations for using temporary support device to retain glazing in place while structural sealant cures.</p> <p>D. Storefront Framing: Fabricate components for assembly using manufacturers standard installation instructions.</p> <p>E. After fabrication, clearly mark components to identify their locations in Project according to Shop Drawings.</p> <p>2.8 Storefront Entrance Door Fabrication:</p> <p>A. Fabricate aluminum-framed glass entrance doors in sizes indicated. Include a complete system for assembling components and anchoring doors.</p> <p>B. Fabricate aluminum-framed glass doors that are reglazable without dismantling perimeter framing.</p> <ol style="list-style-type: none"> <li>1. Door corner construction shall consist of mechanical clip fastening, SIGMA deep penetration plug welds and 1-1/8" long fillet welds inside and outside of all four corners. Glazing stops shall be hook-in type with EPDM glazing gaskets reinforced with non-stretchable cord.</li> <li>2. Accurately fit and secure joints and corners. Make joints hairline in appearance.</li> <li>3. Prepare components with internal reinforcement for door hardware.</li> <li>4. Arrange fasteners and attachments to conceal from view.</li> </ol> <p>C. Weather Stripping: Provide weather stripping locked into extruded grooves in door panels or frames as indicated on manufactures drawings and details.</p> <p>2.9 Aluminum Finishes:</p> <p>A. Finish designations prefixed by AA comply with the system established by the Aluminum Association for designating aluminum finishes.</p> <p>B. Factory Finishing:</p> <ol style="list-style-type: none"> <li>1. Kawneer Permafluor (70% PVDF), AAMA 2605, Fluoropolymer Coating (Color: Charcoal or as noted on Drawings)</li> <li>2. Finishing for alternate storefront specifications to be verified by Arch PM and Chipotle DM <ol style="list-style-type: none"> <li>a. YKK "Charcoal" UC99477, Superior Painted Finishes</li> <li>b. All others to be verified with samples and submittals to Arch PM</li> </ol> </li> </ol> <p>2.10 Brake Metal Trim:</p> <p>A. Shop Drawings: Show layout and elevations, dimensions and thickness of panels, connections, details and location of joints, sealants and gaskets, method of anchorage, number of anchors, supports, reinforcement, trim, flashings, and accessories.</p> <ol style="list-style-type: none"> <li>1. Show actual field measurements on shop drawings.</li> <li>2. Differentiate between shop and field fabrication.</li> <li>3. Indicate substrates and adjacent work with which the fabrications must be coordinated.</li> <li>4. Include large-scale details of anchorages and connecting elements.</li> <li>5. Include large-scale or schematic exploded or isometric diagrams to fully explain flashing at a scale of not less than 1-1/2 inches per 12 inches (1:10)</li> </ol> <p>2.11 Formed Metal Fabrications - General:</p> <p>A. Shop assembly: Preassemble items to greatest extent possible. Minimize field splices and field assembly. Disassemble only as necessary for transportation and handling. Mark items clearly for assembly and installation.</p> <p>B. Coordination: Match dimensions and attachment of formed metal items to adjacent construction. Produce integrated assemblies. Closely fit joints; align edges and flat surfaces unless indicated otherwise.</p> <p>C. Forming: Profiles indicated. Maximize lengths. Fold exposed edges to form hem indicated or ease edges to radius indicated with concealed stiffener. Provide flat, flush surfaces without cracking or grain separation at bends.</p> <p>D. Reinforcement: Increase metal thickness; use concealed stiffeners, backing materials or both. Provide stretcher leveled standard of flatness and stiffness required to maintain flatness and hold adjacent items in flush alignment.</p> <p>E. Anchors: Straps, plates and anchors as required to support and anchor items to adjacent construction.</p> <p>F. Supports: Miscellaneous framing, mounting, clips, sleeves, fasteners and accessories required for installation.</p> <p>G. Welding and brazing: Weld or braze joints continuously. Grind smooth, fill or dress to produce smooth, flush, exposed surfaces. Do not discolor metal. Grind smooth, polish, and restore damaged finishes to required condition.</p> <ol style="list-style-type: none"> <li>1. Ease exposed edges to small uniform radius.</li> <li>2. Welded joints: <ol style="list-style-type: none"> <li>a. Carbon Steel: Perform welding in accordance with AWS D1.1/D1.1M.</li> <li>b. Stainless Steel: Perform welding in accordance with AWS D1.6/D1.6M</li> </ol> </li> <li>3. Brass/Bronze Brazed Joints: <ol style="list-style-type: none"> <li>a. Perform torch brazing in accordance with AWS C3.4M/C3.4</li> <li>b. Perform induction brazing in accordance with AWS C3.5M/C3.5</li> <li>c. Perform resistance brazing in accordance with AWS C3.9M/C3.9</li> </ol> </li> </ol> <p>H. Performance requirements;</p> <ol style="list-style-type: none"> <li>1. Thermal Movements: <ol style="list-style-type: none"> <li>a. Allow for thermal movements in exterior metal fabrications due to temperature changes. Prevent buckling, opening of joints, overstressing of components, failure of connections, and other detrimental effects.</li> <li>b. Temperature Change Range: 120 degrees F (67 degrees C), ambient; 180 degrees F (100 degrees C), on material surfaces.</li> </ol> </li> <li>2. Corrosion: Prevent galvanic action and other forms of corrosion by isolating metals and other materials from direct contact with incompatible materials.</li> </ol> <p>2.12 Formed Metal Fabrications - Sheet Metal</p> <p>A. Closures, Trim, and Fill Panels:</p> <ol style="list-style-type: none"> <li>1. Form Closures from type and thickness of metal indicated.</li> <li>2. Conceal fasteners when possible.</li> <li>3. Drill and tap holes for securing to other surfaces.</li> <li>4. Provide gaskets where indicated or needed for continuous seal at adjacent surfaces.</li> <li>5. Miter or cope at corners and reinforce with bent metal plate. Form tight joints.</li> </ol> <p>2.13 Materials</p> <p>A. General: Provide sheet metal without pitting, seam marks, roller marks, stains, discolorations, or other imperfections exposed to view on finished units.</p> <p>B. Galvanized Steel Sheet: ASTM A653/A653M, G90 (Z275) coating. 14 gage min. thick base material.</p> <p>C. Anchors, Clips, and Accessories: Use one of the following:</p> <ol style="list-style-type: none"> <li>1. Stainless steel complying with ASTM A276/A276M, ASTM A480/A480M, or ASTM A666.</li> <li>2. Steel complying with ASTM A36/A36M and hot-dipped galvanized to ASTM A153/A153M.</li> <li>3. Steel complying with ASTM A36/A36M and hot-dipped galvanized to ASTM A123/A123M Coating Grade 35</li> <li>4. Interior Locations: Carbon steel; zinc coated in accordance with ASTM B633 or ASTM F1941/F1941M, Class Fe/Zn 5.</li> <li>5. Exterior Locations or in contact with Stainless Steel: <ol style="list-style-type: none"> <li>a. Bolts: Stainless steel; ASTM F593, Group 1 (A1)</li> <li>b. Nuts: Stainless steel; ASTM F594.</li> </ol> </li> <li>6. Structural Anchors: Provide anchors where work is indicated to comply with design loads. <ol style="list-style-type: none"> <li>a. Type: Provide chemical or torque controlled expansion anchors.</li> <li>b. Capacity: When tested according to ASTM E488/E488M; four times the load imposed when installed in concrete.</li> </ol> </li> <li>7. Nonstructural Anchors: Provide powder-actuated fasteners where work is not indicated to comply wit design loads. Provide size and number required for load, installation, and as recommended by manufacturer, unless indicated otherwise.</li> </ol> <p>D. Fasteners, General: Same basic metal and alloy as formed metal sheet unless indicated otherwise. Do not use metals incompatible with the materials joined.</p> <p>E. Gaskets: As required to seal joints in decorative formed metal and remain airtight; as recommended in writing by decorative formed metal manufacturer.</p>	<p>2.14 Finishes</p> <p>A. Finishes, General: Comply with NAAMM AMP 500-06</p> <ol style="list-style-type: none"> <li>1. Complete mechanical finishes befor fabrication. After fabrication, finish joints, bends, abrasions and surface blemishes to match sheet.</li> <li>2. Protect mechanical finishes on exposed surfaces from damage.</li> <li>3. Apply organic and anodic finishes to formed metal after fabrication unless indicated otherwise.</li> <li>4. Appearance: Limit variations in appearance of adjacent to one-half the range represented in approved samples. noticeable variations in the same piece are not acceptable. Install components in the range of approved samples to minimize contrast.</li> </ol> <p>B. Galvanized Steel Finishes:</p> <ol style="list-style-type: none"> <li>1. Repair Galvanized Surfaces: Clean welds and abraded areas and repair galvanizing to comply with ASTM A780/A780M</li> <li>2. Color: As shown on the drawings.</li> <li>3. Factory Prime: Apply shop primer to prepared surfaces of items where field painting after installation indicated, unless indicated otherwise. Comply with requirements in SSPC-PA1</li> <li>4. High Performance Organic Coatings: AAMA 2604; multiple coats, thermally cured fluoropolymer system.</li> </ol> <p>3.1 Examination:</p> <p>A. Examine openings, substrates, structural support, anchorage, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of work. Verify rough opening dimensions, levelness of sill plate and operational clearances. Examine wall flashings, vapor retarders, water and weather barriers, and other built-in components to ensure a coordinated, weather tight framed aluminum storefront system installation.</p> <ol style="list-style-type: none"> <li>1. Masonry Surfaces: Visibly dry and free of excess mortar, sand, and other construction debris.</li> <li>2. Wood Frame Walls: Dry, clean, sound, well nailed, free of voids, and without offsets at joints. Ensure that nail heads are driven flush with surfaces in opening and within 3 inches of opening.</li> <li>3. Metal Surfaces: Dry, clean; free of grease, oil, dirt, rust, corrosion, and welding slag; without sharp edges or offsets at joints.</li> <li>4. Proceed with installation only after unsatisfactory conditions have been corrected.</li> </ol> <p>3.2 Installation:</p> <p>A. Comply with Drawings, Shop Drawings, and manufacturer's written instructions for installing aluminum framed storefront system, aluminum swing storefront entrance doors, accessories, and other components.</p> <p>B. Install aluminum framed storefront system and storefront doors level, plumb, square, true to line, without distortion or impeding thermal movement, anchored securely in place to structural support, and in proper relation to wall flashing and other adjacent construction.</p> <p>C. Set sill members and door threshold in bed of sealant or with gaskets, as indicated, for weather tight construction.</p> <p>D. Install aluminum framed storefront system and components to drain condensation, water penetrating joints, and moisture migrating within sliding door to the exterior. Refer to section 07900 - Joint Sealers.</p> <p>E. Separate aluminum and other corrodible surfaces from sources of corrosion or electrolytic action at points of contact with other materials.</p> <p>F. Install aluminum storefront framing system glass and glazing, in accordance with section 08800 and the manufacturer's requirements.</p> <p>3.3 Adjusting, Cleaning, and Protection:</p> <p>A. Clean aluminum surfaces immediately after installing aluminum framed storefronts. Avoid damaging protective coatings and finishes. Remove excess sealants, glazing materials, dirt, and other substances.</p> <p>B. Clean glass immediately after installation. Comply with glass manufacturer's written recommendations for final cleaning and maintenance. Remove nonpermanent labels, and clean surfaces.</p> <p>C. Remove and replace glass that has been broken, chipped, cracked, abraded, or damaged during construction period.</p> <p><b>SECTION 085619 - PASS-THRU WINDOW</b></p> <p>1.1 General: Provide door hardware as shown and specified.</p> <p>A. Standards: Materials and installation shall conform to the following:</p> <ol style="list-style-type: none"> <li>1. ASTM A240 - Heat-Resisting Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels.</li> <li>2. ASTM A653 - Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.</li> <li>3. ASTM B209 - Aluminum and Aluminum-Alloy Sheet and Plate.</li> <li>4. ASTM B221 - Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.</li> <li>5. ASTM B580 - Standard Specification for Anodic Oxide Coatings on Aluminum.</li> <li>6. ASTM B680 - Standard Test Method for Seal Quality of Anodic Coatings on Aluminum by Acid Dissolution.</li> <li>7. ASTM C1048 - Heat-Treated Flat Glass--Kind HS, Kind FT Coated and Uncoated Glass.</li> <li>8. ASTM C1172 - Standard Specification for Laminated Architectural Flat Glass.</li> <li>9. ASTM E774 - Standard Specification for Sealed Insulating Glass Units.</li> <li>10. Aluminum Association AA DAF-45 - Designation System for Aluminum Finishes.</li> </ol> <p>B. Quality Assurance:</p> <ol style="list-style-type: none"> <li>1. Manufacturer Qualifications: Minimum of 25 years successful experience continuously manufacturing pass-thru windows.</li> <li>2. Installer Qualifications: Installer shall have five years experience manufacturing and fabricating windows of similar type and scope as those specified in this section.</li> <li>3. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship. <ol style="list-style-type: none"> <li>a. Finish areas designated by Architect.</li> <li>b. Do not proceed with remaining work until workmanship, color, and sheen are approved by Architect.</li> <li>c. Refinish mock-up area as required to produce acceptable work.</li> </ol> </li> </ol> <p>2.1 Materials:</p> <p>A. Acceptable Manufacturer: Quikserv; Toll Free: 1.800.388.8307; Email: <a href="mailto:sales@quikserv.com">sales@quikserv.com</a>; Web: <a href="https://www.quikserv.com/">https://www.quikserv.com/</a>;</p> <p>B. No substitutions allowed. Requirements for manufacturer, design, grade, function, finish, size and other distinctive qualities of each type of door hardware are indicated on the drawings.</p> <p>2.2 In-Line Side Sliding Window - Automatic</p> <p>A. Custom Complete Unit Size 104"W x 59-1/2"H, Side Sliding Window (Model: SS-4035-E-CHIPOTLE): 65"W x 43-1/2"H window with 16" transom height and (2) sidelights at 19 1/2"W x 43-1/2"H</p> <ol style="list-style-type: none"> <li>1. Service Opening: 28"W x 31-1/2"H</li> <li>2. Finish: Dark Bronze Anodized</li> <li>3. Glass: 1" Clear Tempered unit + Low E (Solarban 60e) for fixed &amp; moving panel, sidelights and transom</li> </ol>
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