

07465 PREFORMED METAL SIDING AND SOFFIT

1. GENERAL

1.1 Scope

- A. This Section includes the furnishing and installation of metal siding on the canopy, mechanical enclosures connecting toll booths and canopy, metal surround at booth heater and ventilation grill and metal panels for the canopy soffit including all required furring, closures, accessories, fasteners, access panels and trim.

1.2 Quality Assurance

- A. Metal wall and soffit panels shall be provided and installed by a fabricator who has been engaged for a minimum period of five years in sheet metal forming processes. Finishes shall be applied by an applicator approved and licensed by the paint manufacturer to apply Kynar type finishes.

1.3 Submittals

- A. Furnish Shop Drawings complete with panel configurations, installation layout and sequence of installation, details of all flashings, trim, and materials.
- B. Submit two copies of proposed panels, not less than 12 inches in length indicating joint configuration.
- C. Submit two samples of selected paint colors. Color samples may be on panel samples or on separate sheet metal stock but shall be a true representation of paint color and texture. Submit warranty on finish.
- D. Submittals for this Section shall be delivered to the Architect/Engineer as one complete package including all materials specified under this Section.

1.4 Product Delivers, Storage, And Handling

- A. Panels shall be stored on wood blocking raised to keep panels off the ground. Panels shall be sloped for drainage. Panels and trim with strippable film shall not be exposed to direct sunlight or extreme heat. Care should be taken to prevent scratching, bending, denting or buckling panels during shipping, unloading, storing, and installation of panels.

1.5 Guarantee

- A. Painted finish on coil coat stock shall be guaranteed for a period of not less than 20 years against chalking and fading.
- B. Painted finish on spray applied coatings shall be guaranteed for a period of not less than 10 years against chalking and fading.

2. PRODUCTS

2.1 Materials

- A. Soffit panels shall be 12" wide, smooth aluminum 6061 alloy. Canopy soffit panels shall be 0.050" thick. Building soffit panels shall be 0.040" thick. Panels shall be finished with "Kynar" 500 or "Hylar 5000" coil coated baked on finish. Color to be "Dark Bronze."
- B. Exterior aluminum panel at the toll booths and associated mechanical enclosures shall be "Industrial Building Panels," 1200 series, 12" wide, 0.1094" thick 3003.H14 alloy or approved equal.
 - 1. Flashing and trim shall be fabricated of the same material as the panels. Trim color shall be dark bronze matching fascia and soffit.
 - 2. Panels shall be shop fabricated in a manner so as not to induce "oil canning," and maintain mill flatness.
 - 3. All panels shall be custom fabricated in such a manner to ensure joint alignment and provide sight lines enhancing the esthetic value of the building.
 - 4. Panel joints shall be sealed with expanded urethane sealant tape and/or sealants acceptable to the Architect/Engineer.
 - 5. Panel joints shall be water and airtight.
 - 6. All corners and edges shall be factory formed, closed full length and welded or sealed as required.
 - 7. Paint Finish - The exposed surfaces of the Aluminum Wall Panels shall be properly treated and receive a spray or coil applied finish coat containing not less than 70 percent KYNAR 500 or HYLAR 5000 fluorocarbon resin. The finish coat shall have an average dry film thickness of 1 mil. Wall panel color to match "Glidden" fluorocarbon coating "Vienna Cream" or "Sherwin Williams" "Highway Beige." Band color shall be equal to "Glidden" fluorocarbon "Dark Bronze." The bottom of the band shall be 3'-0" from the bottom edge of the panel. The band shall be 12 inches in width.
 - 8. Any dents, oil canning or imperfections significant to reflect on the esthetic looks and acceptance of the panel installation will not be accepted.
 - 9. All supporting steel members shall be as specified in Section 05100 Structural and Miscellaneous Metals and as shown on the Drawings.
 - 10. Field installation shall be according to manufacturer's installation instructions and Engineering Drawings. The installation crew shall be thoroughly experienced in the installation of this type of panel with a minimum of five years' experience.
- C. Finish shall be a fluoropolymer type paint composed of not less than 70 percent Kynar 500 or Hylar 5000 resin.
- D. Sealant shall be in accordance with Section 07900 Sealants.
- E. Screws shall be stainless steel to prevent electrolytic action due to dissimilar metals.

- F. Alternate connection details, if any, between siding panels and support members shall be incorporated into the shop drawings and shall be subject to the Architect's/Engineer's review.
- G. Sealant shall be in accordance with Section 07900 Sealants.
- H. Screws shall be stainless steel to prevent electrolytic action due to dissimilar metals.
- I. Alternate connection details, if any, between siding panels and support members shall be incorporated into the shop drawings and shall be subject to the Architect's/Engineer's review.
- J. Provide 2-inch-wide continuous strip vent complete with insect screen at soffit for building and canopy.

2.2 Fabrication

- A. Booth siding and canopy soffit panels shall be fabricated to the configurations shown on the Drawings or if not shown as required. Radii shall be not greater than two times the material thickness but shall not cause crazing or fracturing of the finish on prefinished panels.

3. EXECUTION

- A. Do not begin installation until unsatisfactory conditions are corrected. Beginning of installation shall signify acceptance of substrate and adjacent conditions as being proper and acceptable.
- B. Metal siding and soffit panels shall be installed with self-drilling hex head screws into framing. Apply isolation tape to framing prior to installing panels and other aluminum work against steel or other non-compatible materials.
- C. No face penetration or perforations shall be made in metal panels by fasteners without Architect's/Engineer's approval.
- D. Exercise proper care during installation and subsequent work to prevent damage or scratching of finish on panels. Any damaged to finish or panels shall be repaired to the satisfaction of the Architect/Engineer or the panel shall be replaced at no cost to the Owner.

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