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### FLUSH PANEL

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**MANUFACTURER**  
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**METAL**  
**ROOFING SPECIFICATION**

**SECTION 07415**  
**METAL SOFFIT PANELS**

**PART 1 - GENERAL**

**1.1 SUMMARY**

A. Section Includes:

1. Prefinished, prefabricated metal soffit panels with interlocking seams.
2. Coordinate with fabrication of soffit area substructure.
3. Provide color coordinated start, end, and corner flashings.
4. Provide fasteners and/or stainless steel pop rivets painted to match soffit panels where visible per manufacturer's recommendations.

B. Related Sections:

1. Section 05120: Structural Steel Framing
2. Section 05500: Metal Fabrications
3. Section 06100: Rough Carpentry

**1.2 SYSTEM DESCRIPTION**

A. Design Requirements:

1. Provide factory preformed soffit panel system that has been pretested and certified by the manufacturer to comply with specified requirements under installed conditions.
2. Provide one piece, single length roof panels.
3. Provide continuous interlocking seams with open hem male legs that inherently increases load span capability, stiffness, and flexural stress handling.

B. Attachment of Panels:

1. Maximum fastener spacing for attachment of panels shall not exceed recommended spacings for the specified loads.

### **1.3 SUBMITTALS**

- A. Product Data: Submit manufacturer's specifications, standard detail drawings, and installation instructions.
- B. Shop Drawings:
  1. Submit shop drawings indicating thickness and dimensions of parts, fastening and anchoring methods, details and locations of seams.
  2. Indicate soffit terminations, clearly showing flashings and transition conditions.
  3. Show location and spacing of fasteners.
  4. Provide plan showing layout of entire soffit system.
- C. Samples:
  1. Submit two samples, 12" long x full width panel showing proposed metal gauge, seam profile, and required finish.
  2. Submit 12" wide x 12" long standard color samples on metal for Architect's selection.
- D. Certification:
  1. Submit manufacturer's certification that materials and finishes meet specification requirements.
- E. Applicator's and Manufacturer's Experience Records:
  1. Submit list of completed projects and name of Architects.

### **1.4 QUALITY ASSURANCE**

- A. Manufacturer's Qualifications:
  1. Ten years minimum experience in factory fabrication of metal Soffit Panel systems.
  2. Products listed in this specification section are as manufactured by AEP-SPAN.
  3. No other bidder of metal soffit systems will be accepted without prior written approval of Architect based upon alternate products meeting specified requirements.
  4. Substitution requests must be submitted in writing minimum of ten days prior to bid date accompanied by product literature, technical

information, and product sample. Approved substitutions will be set forth in an addendum.

5. No substitutions will be permitted after bid date.

B. Applicator Qualifications:

1. Three years minimum experience in application of metal soffit panel systems.

## **1.5 DELIVERY, STORAGE AND HANDLING**

A. Protect products and accessories from damage and discoloration during transit and at project site. Store sheets and components in a dry storage area to prevent condensation.

B. Prevent contamination or damage of panels from materials or products used by nearby trades.

## **PART 2 - PRODUCTS**

### **2.1 MANUFACTURER**

- A. Acceptable Product: **FLUSH PANEL** as manufactured by AEP-SPAN.
- B. Substitutions:
  - 1. Substitutions must fully comply with specified requirements.
  - 2. Refer to specification Section 01630 - Product Options and Substitutions for substitution request procedures.

### **2.2 MATERIALS**

- A. Panels:
  - 1. Prefinished Galvalume™ sheet, ASTM AZ50 made up of 55% aluminum, 1.6% silicon and the balance zinc as described in ASTM specification A792.
  - 2. Minor Rib: Panels shall be manufactured with one or two radii stiffening ribs.
  - 3. Field formed panels will not be acceptable.
  - 4. Seam size:
    - a. Nominal 1" deep interlocking seams with a structurally qualifying open hem on the male leg.
  - 5. Acceptable Product: **FLUSH PANEL** as manufactured by AEP-SPAN.
- B. Fasteners:
  - 1. Manufacturer's standard #10 - 16 x 1" long self-drilling, self-tapping pancake head Phillips drive screws for metal.
  - 2. Nailable Substrate: #10 - 12 x 1" long A-Point fastener, pancake head Phillips drive screws for plywood; noncorrosive base material.
- C. Accessories:
  - 1. Provide manufacturer's standard accessories and other items essential to completeness of metal soffit system.
  - 2. Contiguous flashings to be fabricated to the same gauge and color as the panels (nonperforated).

## **2.3 FABRICATION**

### **A. Panels:**

1. Provide factory formed panel width of 12" with nominal 1" high interlocking seams.
2. Provide panels in full length; field cutting is not acceptable.
3. Provide panels with one or two radii ribs.

### **B. Seams:**

1. Provide continuous interlocking seams with an open hem.

## **2.4 FINISH**

### **A. Fluorocarbon Coating:**

1. Full strength 70% Kynar-500 coating baked on for 15 minutes at 450 degree F to a dry-film thickness of 1.0 mil.
2. 15% reflective floss (ASTM D 523). (Low Gloss).
3. 0.3 mil baked on epoxy primer.
4. Color: As selected by Architect from manufacturer's standard. (Custom colors available, consult manufacturer.)

## **PART 3 – EXECUTION**

### **3.1 EXAMINATION**

- A. Substrate:
  - 1. Examine substrate to ensure that it is properly secured and prepared to receive soffit panels.
  - 2. Ensure substrate is installed flat, free from objectionable warp, wave, and buckle.

### **3.2 INSTALLATION**

- A. Comply with manufacturer's instructions for assembly, installation, and erection. Install in accordance with approved shop drawings.
- B. Metal Soffit System:
  - 1. Install panels in accordance with manufacturer's instructions and recommendations.
  - 2. Anchor securely in place using fasteners spaced in accordance with manufacturer's recommendations.
  - 3. Fully seat adjacent panel to achieve continuous engagement of interlocking seams.
- C. Dissimilar Metals:
  - 1. Where sheet metal is in contact with dissimilar metals, execute juncture to facilitate drainage and minimize possibility of galvanic action.
  - 2. At point of contact with dissimilar metal, coat metal with protective paint or tape which can be placed between metals.

### **3.3 CLEANING**

- A. Clean exposed surfaces of work promptly after completion of installation.

### **3.4 PROTECTION**

- A. Protect work as required to ensure soffit system will be without damage at time of final completion.

***END OF SECTION***