

SECTION 07 41 00

SHEET METAL WALL PANELS

PART 1 – GENERAL

1.01 SUMMARY

- A. Section Includes
  - 1. Preformed, prefinished wall panels.
  - 2. Fasteners.
- B. Related Sections
  - 1. Section 06 10 00 - Rough Carpentry
  - 2. Section 07 62 00 - Sheet Metal Flashing and Trim
  - 3. Section 07 90 00 - Joint Sealants

1.02 REFERENCES

- A. Aluminum Association (AA)
- B. American Society for Testing and Materials (ASTM)
  - 1. ASTM B209: Specification for Aluminum and Aluminum-Alloy Sheet and Plate
- C. Sheet Metal and Air Conditioning Contractors National Association, Inc. (SMACNA)
  - 1. Architectural Sheet Metal Manual

1.03 SUBMITTALS

- A. Submit the following in accordance with Section 01 00 00:
  - 1. Product Data: Manufacturer's product literature for the roofing specified.
  - 2. Shop Drawings: Indicate thickness and dimension of parts, flashing and anchoring methods, and detail and location of joints; including joints necessary to accommodate thermal movement.
  - 3. Samples
    - a. 2 samples of each type of panel assembly, 12 inch by 12 inch minimum.
    - b. 6 samples of each finish in color or colors selected, 3 inch by 5 inch minimum.
  - 4. Affidavit certifying that the material meets the requirements specified.

1.04 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Minimum of 5 years experience in manufacturing metal panels similar to those specified.
- B. Installer Qualifications: Acceptable to panel manufacturer.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials to the project site in manufacturer's original crating, properly labeled for identification and installation purposes. Store materials in accordance with panel

manufacturer's recommendations. Handle materials carefully to avoid damage to panels and finishes.

1.06 WARRANTY

- A. The Contractor shall warrant the materials to be free of faults and defects in accordance with the General Conditions, except that the warranty shall be extended by paint manufacturer's standard multi-year warranty. The warranty shall be in writing and shall be signed by the manufacturer.

PART 2 – PRODUCTS

2.01 MANUFACTURER

- A. Firestone Metal Products / UNACLAD
- B. Other manufacturers seeking approval of their products must comply with requirements of Section 01 00 00 during construction.
- C. Products of other manufacturers will be considered subject to compliance with requirements as judged solely by Architect.

2.02 PANEL TYPE

- A. UNA-CLAD UC-501 Reveal Seam Panels, roll formed aluminum panels.

2.03 PANEL MATERIALS AND FABRICATION

- A. Aluminum Panels: ASTM B209, Aluminum Association specification sheet 3003-H14/3105-H14 for painted finish.
  - 1. Thickness: 0.040 inch.
- B. Form panels in longest practical lengths, true to shape, accurate in size, square, and free from distribution or manufacturing defects.
  - 1. Panel Depth: 1 inch.
  - 2. Panel Width: 12 inches.
  - 3. Reveal Width: 1 inch.
- C. Fabricate panels with an interlocking leg (male/female interlocking joint design).

2.04 ACCESSORIES

- A. Fasteners: Concealed, non-corrosive, 5/8 inch self-tapping sheetmetal screws for securing to metal substrate.
- B. Furring Channels: 25 Ga., 7/8" galvanized steel hat channels.

2.05 FINISHES

- A. Coil-Coated or Spray-Applied Fluorocarbon Resin
  - 1. Color: Selected by Architect/Engineer from manufacturer's standard colors.

2. Number of Coats: 2-coat system except as recommended by manufacturer for color selected.
3. Provide factory applied strippable plastic film for protection during fabrication and installation.

### PART 3 – EXECUTION

#### 3.01 EXAMINATION

- A. Examine the areas and conditions under which materials are to be installed and notify the Contractor/Construction Manager in writing of conditions detrimental to the proper and timely completion of the work. Do not proceed with the work until unsatisfactory conditions have been corrected.
- B. Surfaces to receive panels shall be even, smooth, sound, clean, dry, free of ice and snow, and free from defects.

#### 3.02 PREPARATION

- A. Obtain field measurements prior to completion of manufacturing and finishing. When field measurements are not possible, provide method of installation that will allow minor adjustment in the field.
- B. Install hat channels over substrate as indicated. Isolate galvanized steel from aluminum with elastomeric flashings.

#### 3.03 INSTALLATION

- A. Install panel system plumb, level and true, in accordance with manufacturer's instructions, final shop drawings, and SMACNA Architectural Sheet Metal manual and standard practices.
- B. Install starter and edge strips before underlayment is installed.
- C. Install underlayment over entire substrate to receive panel system, in shingle fashion, lapping ends and edges 6 inches minimum.
- D. Completed system shall be free from overbending, deforming, stretching, distortion, waves, and buckles.

#### 3.04 ADJUSTING AND CLEANING

- A. Repair panels with minor damage.
- B. Remove panels damaged beyond repair and replace with new panels to match adjacent undamaged panels.
- C. Clean exposed panel surfaces promptly after installation in accordance with recommendations of panel and coating manufacturers.
- D. Remove protective film immediately after installation.

...END OF SECTION 07 41 00