

SECTION 07610 - STANDING SEAM METAL ROOF AND FASCIA PANELS

PART 1 - GENERAL

1.01 The roofing assembly includes preformed sheet metal panels, related accessories, valleys, hips, ridges, eaves, corners, rakes and miscellaneous flashing and attaching devices. All roofing assemblies and accessories shall be manufactured by one of the following:

- A. Berridge Manufacturing Company, Inc.
Phone: 1-800-231-8127
- B. AEICOR Metal Products, Inc.
Phone: 1-800-432-1802
- C. AEP SPAN
Phone: 1-800-527-2503
- D. AMP, Atlanta Metal Products, Inc.
Phone: 1-800-554-1097
- E. BUTLER Manufacturing Company
Phone: 1-816-968-2380
- F. DELCOA Metal Roofing Manufacturer
Phone: 1-800-375-METAL
- G. FIRESTONE-UNA-CLAD, Copper Sales, Inc.
- H. McELROY METALS, INC.
Phone 1-800-950-6533
- J. PAC-CLAD / Petersen Aluminum
Phone 1-800-272-4482
- K. ENGLERT, INC.
Phone 732-826-8614
- L. AMERICAN BUILDINGS COMPANY

1.02 **STORAGE AND HANDLING**

Store panels and materials properly and adequately to protect from damage and entrapped water.

1.03 WARRANTY

Submit a written three (3) year warranty from installer and manufacturer against leaks, defective workmanship and materials. Submit manufacturer's written finish warranty that applies. Shall meet Underwriter's Laboratory UL90 classification. Provide manufacturer's standard twenty (20) year warranty against color change or chalking.

1.04 REFERENCES

- A. S.M.A.C.N.A. (Sheet Metal and Air Conditioning Contractor's National Association).
- B. N.R.C.A. (The National Roofing Contractors Association). Roofing and Waterproofing Manual, including construction details, and Handbook of Accepted Roofing Knowledge.
- C. Manufacturer's Construction Details Handbook.
- D. ASTM A-653-97
- E. ASTM A-525-86
- F. ASTM A-792-86
- G. ASTM B-209
- H. ASTM B-370
- J. Aluminum Association.

1.05 SUBMITTALS

- A. Installing contractor shall submit detailed shop drawings showing layout of panels, anchoring details, joint details, trim, flashing and accessories. Show details of weatherproofing, terminations, and penetrations of metal work.
- B. Installing contractor shall submit a sample of each type of roof panel, complete with factory finish.
- C. Installing contractor shall submit calculations with registered engineer seal, verifying roof panel and attachment method resists wind pressure imposed on it pursuant to applicable building codes.

PART 2 - PRODUCTS

2.01 METAL ROOF, AND/OR, FASCIA PANELS:

As manufactured by one of the approved Manufacturing Corporations.

NOTE: Match existing panel color and profiles when connecting to existing buildings.

2.02 SHEET MATERIALS

- A. Panel configuration to be a structural standing seam. Panel widths and seam heights will vary with project type. Refer to the Construction Drawings for required panel widths and seam types. Panel color as specified by the Architect on the construction documents. Single lengths, installed in strict accordance with manufacturer's specifications.

B. Panels shall be one of the following types as called out on the Construction Documents.

1. Steel shall be ASTM A653-97 Grade C, G90, Coating ASTM 525-86 Hot Dipped Galvanized, 24-gauge galvalume ASTM A-792-86. Maximum panel length is 65'.
2. Aluminum shall be ASTM B-209 in .032 inch or .040 inch thickness with an H-14 temper.
3. Copper shall be ASTM B-370 cold rolled in 16 or 20 ounce.

2.03 FASTENING

Fastening is to be installed at spacings per manufacturer's specifications at perimeters and field. Fasteners shall be stainless and shall be a minimum of #8 wafer head type screws compatible with the material being used, concealed at all times. If and exposed fastener must be used, it can only be a #44 pop rivet of the same material (or compatible) and finish as the roof panels.

2.04 FLASHINGS

Flashings are to be of the same gauge, material and finish.

2.05 ACCESSORIES

All accessories must be of compatible materials to the metal panels.

2.06 FINISH

Finish shall be Kynar 500 or Hylar 5000 Fluorocarbon coating applied on the Manufacturer's Coil Coating Line with a top side film thickness of 0.70 to 0.90 mil over 0.25 to 0.31 mil prime coat to provide a total dry film thickness of 0.95 to 1.25 mil. Bottom side shall be coated with a primer with a dry film thickness of 0.25 mil. Finish shall conform to all tests for adhesion, flexibility and longevity as specified by Kynar 500 or Hylar 5000 finish supplier.

PART 3 - INSTALLATION

- 3.01 Install metal roof/fascia systems per the manufacturer's specifications.
- 3.02 Installers shall be a certified installer, certified by the manufacturer of the respective roofing/fascia systems. Written proof of certification shall be provided to the Architect prior to installation.
- 3.03 Upon completion of the metal roof/fascia system installation, an inspection will be made by a roofing/fascia system representative. Corrections to the installation of the roofing/fascia system, as deemed necessary by the roofing/fascia system representative, will be made at no additional cost to the Owner in order that the Warranty may be issued.

*****END OF SECTION*****