

GUIDELINE SPECIFICATIONS

EXTERIOR METAL WALL PANELS

SERIES M-3000

SECTION 07410

Part 1 - General

1.1 SCOPE

- A. Work in this section includes, but is not limited to, the following:
 - 1. Design, fabrication, finishing, and erection of metal panels and panel supports at exterior walls.
 - 2. Copings, flashing, and weeps associated with exterior wall panels.
 - 3. All trim, furring, clips, fasteners, and anchors required for erection of panel wall.
 - 4. Silicone sealants required for panel to panel and panel to adjoining construction weather seal.

1.2 RELATED WORK SPECIFIED ELSEWHERE

- A. Light gage steel framing.
- B. Wood blocking.
- C. Sheet metal work, except as specified herein.
- D. Joint sealant, except as specified herein.
- E. Aluminum entrance, fixed glass frames, and window work.
- F. Gypsum sheathing.
- G. Metal louvers and grilles.

1.3 SUBMITTALS

- A. General: Submit listed submittals in accordance with Conditions of the Contract and Division 1 Submittal Procedures Section.
- B. Product Data: Submit, for Architect's approval, complete manufacturer's product data, consisting of product description, specifications, and other pertinent data.
- C. Shop Drawings: Submit shop drawings showing layout, profiles and product components, including anchorage, accessories finish colors and textures.
 - 1) Include details showing thickness and dimensions of various system parts, fastening and anchoring methods, locations of joints and gaskets and

location and configuration of joints necessary to accommodate thermal movement.

- D. Samples: Submit selection and verification samples for finishes, colors and textures.
 - 1) Selected Samples: manufacturer's color charts or chips illustrating full range of colors, finishes and patterns available for metal wall panels with anodized or factory baked-on PVDF finish.

1.5 QUALITY ASSURANCE

- A. Installer Qualifications: Firm which has for a period of not less than five years successfully installed work similar to the work indicated and required for this project.
- B. Firm with experienced personnel that have successfully designed and fabricated specialized systems for a period of not less than five years for work similar to the work indicated and required for this project.
- C. The Architect reserves the right to visit the fabrication facilities of the Manufacturer at any time when work is in progress.

1.6 COORDINATION

- A. Coordinate work of this section with that of other trades affecting, or affected by, this work, and cooperate with the other trades as is necessary to assure steady progress.
- B. Before proceeding with installation of work, the installer shall inspect all project conditions and all work of other trades to assure that all such conditions and work are suitable to satisfactorily receive the work of this section, and notify the Architect in writing of any which are not. Do not proceed further until corrective work has been completed.

1.7 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. All materials under this section shall be packaged, boxed, wrapped, and otherwise protected to assure complete protection from reasonable damage during shipment, storage and handling. Materials shall be stored in enclosed spaces or above ground under protective covers.
- B. Extreme care shall be taken to avoid contact with moisture, condensation, or materials, which might cause staining, such as lime, cement, fresh concrete, or chemicals.

IMPORTANT: To prevent adhesive transfer to finish, Exterior Metal Wall Panels must not be stored for prolonged periods of time, be stored in direct sunlight or be subjected to high heat, prior to installation.

1.8 WARRANTY

- A. The fluorocarbon finish shall be guaranteed for a period of five years against fading, pitting, cracking or peeling.
- B. The contractor shall guarantee the work to be weather tight and free from defects in material and workmanship related to installation for a period of one year.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Aluminum sheet: 0.125" alloy 3003-H14 meeting ASTM B209
 Aluminum sheet: 0.090" alloy 3003-H14 meeting ASTM B209
- B. Aluminum extrusion: Minimum .080 wall alloy 6063-T5
- C. Accessories: Installers are to provide standard accessories, including shims, fasteners, clips, anchorage devices, attachments as well as and any other components specified in the contract documents or on drawings as supplied by others.
- D. Sealants and Joint Fillers: Refer to Joint Sealants in Division 7.

2.2 TYPE AND MANUFACTURER

- A. Architectural Metal Wall Panel System SERIES M-3000 manufactured by SAF Metal Fabrication, Villa Rica, GA, 30180 Phone (770) 942-1207; Contact: Jeff Turner.

2.3 FINISH

- A. Shop Applied Fluorocarbon Paint
 - 1. Factory spray applied fluorocarbon finish, conforming to high performance requirements of AAMA 2605
 - 2. Resin: fluoropolymer resin.
 - 3. Color: Custom two coat color selected by Architect.
 - 4. Acceptable coating manufacturers: PPG Industries, Valspar, Akzo Nobel.

2.4 SYSTEM DESCRIPTION 0.125" 0.090"

Panels shall be aluminum attached to extruded aluminum interlocking support frame system. Panels shall be fabricated to specified dimensions with tolerance to accommodate expansion and contraction between panels and structural members. Fasteners shall be concealed where possible.

Coping to be formed of the same metal and gauge as panels except where noted otherwise. Corners to be mitered and welded.

Flashing shall be formed from .050" aluminum except where noted otherwise. Finish on exposed flashing to match panels.

2.5 FABRICATION

A. GENERAL

1. All parts of the work shall be of the materials, design, sizes and thickness' shown or called for on the drawings and/or herein specified or as may be required to meet the aesthetic intent and performance criteria. Methods of fabrication and assembly, however, unless otherwise specifically stated, shall be at the discretion of the manufacturer.
2. Fit and assemble system in shop in the extent that shipping and handling limitations will allow.

B. TOLERANCES

1. Panel height and width: Plus or minus 1/16".
2. Panel flatness: 1/16" in 2'0" measured in any direction and any location inside a 4" wide boarder area.

PART 3 - EXECUTION

3.1 INSPECTION

- A. Examine substrates, adjoining construction, and conditions under which the work is to be installed. Do not proceed with work until unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Comply with final shop drawings and manufacturer's instructions and recommendations for installation of work.

3.3 PROTECTION AND CLEANING

- A. Protect work so that it will be without any indication of damage at time of acceptance.
- B. Cleaning and maintenance shall comply with AAMA 610 or 609.

END OF SECTION