**SECTION 07 41 00**

**METAL WALL PANEL SYSTEM**

**1.1 – GENERAL**

A. Standards:

1. Furnish all labor, material, tools, equipment and services for all trim and wall panels as indicated, in accord with provisions of Contract Documents.

2. Completely coordinate with work of all other trades.

3. Although such work is not specifically indicated, furnish and install all supplementary or miscellaneous items, appurtenances and devices incidental to or necessary for a sound, secure and complete installation.

B. Related work specified elsewhere:

1. Structural steel: Section 05100

2. Steel joists: Section 05200 or 05400

3. Flashing and sheet metal: Section 07600

**1.2 QUALITY ASSURANCE**

A. Applicable standards:

1. SMACNA: Architectural Sheet Metal Manual

2. AAMA 2604 - Voluntary specification, Performance Requirements and Test Procedures for High Performance Organic Coatings on Aluminum Extrusions and Panels

3. ASTM B209: Standard Specification for Aluminum and Aluminum-Alloy Sheet and Plate

B. Manufacturer's qualifications:

1. Manufacturer has a minimum of five years of experience in manufacturing metal wall systems of this nature. The custom aluminum panels specified in this section shall be produced in a factory environment.

**1.3 PRODUCT DELIVERY, STORAGE AND HANDLING**

A. Delivery: Deliver metal wall system to job site properly packaged to provide protection against transportation damage.

B. Handling: Exercise extreme care in unloading, storing and erecting metal wall system to prevent bending, warping, twisting, scratches, and surface damage.

C. Storage: Store all materials and accessories above ground on well skidded platforms or crates.

**1.4 WARRANTY**

1. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of metal canopies that fail in materials or workmanship within specified warranty period.
	* 1. Warranty Period: One year from date of Substantial Completion.

**PART 2 – PRODUCTS**

**2.1 APPROVED MANUFACTURERS**

1. Specifications are based on Architectural Fabrication, Inc. Manufacturer and Installer is located at 2100 E. Richmond Avenue, Fort Worth, TX 76104. 800.962.8027. [www.arch-fab.com](http://www.arch-fab.com)
2. Specifications are acceptable assuming they comply with these specifications, are submitted based on 01XXX - Substitution Requirements and have a minimum of 10 years’ experience.

**2.2 MATERIALS**

A. Metal wall system profile: Custom panels by Architectural Fabrication. Nominal 0.50” thick extruded aluminum panel. Varying widths 3”, 4”, 6”, and/or 8”.

B. Metal wall system style: Vertical or Horizontal Plank system. Interlocking wall panels with concealed fasteners. Panels to have mechanically fastened end caps attached to extruded screw bosses.

C. Wall panel gauge: .063” nominal thickness in aluminum extrusion 6063 alloy

D. Trim gauge: Standard is extruded .050” nominal thickness in 6063 alloy. Options available.

D. Basis of Design: Architectural Fabrication, Inc. 2100 E Richmond Ave Fort Worth TX 76104. Extruded aluminum plank panel system by Architectural Fabrication is patent pending.

E. Finish: Electrostatically apply powder coating to 2 to 4 mil thickness.

**PART 3 – EXECUTION**

**3.1 SURFACE CONDITIONS**

A. Examination:

1. Inspect installed work of other trades and verify that such work is complete to a point where this work may continue. Ensure all waterproofing components that will be covered have been completed.

2. Verify that installation may be made in accordance with approved shop drawings and manufacturer's instructions.

**3.2 INSTALLATION**

A. Install metal wall system so that it is without waves, warps, buckles, fastening stresses or distortion.

B. Install metal wall system in accordance with manufacturer's instructions.

C. Provide concealed anchors whenever possible. Factory coated rivets may be used where concealed anchors are not feasible.

D. Install panels plumb, level and straight with seams parallel but not adjoining, conforming to design as indicated.

**3.3 CLEANING AND PROTECTION**

A. Dispose of excess materials and remove debris from site.

B. Clean work in accordance with manufacturer's recommendations.

C. Protect work against damage until final acceptance. Replace or repair to the satisfaction of the architect and work that becomes damaged prior to final acceptance.

D. Touch up minor scratches and abrasions with touch up paint kit provided by manufacturer.

**END OF SECTION**