

SECTION 097700 MODULAR WALL SYSTEM

PART 1 - GENERAL

1.1 GENERAL REQUIREMENTS

- A. Work of this Section, as shown or specified, shall be in accordance with the requirements of the Contract Documents.

1.2 SECTION INCLUDES

- A. Work of this Section includes all labor, materials, equipment, and services necessary to complete the modular wall system as shown on the drawings and/or specified herein, including, but not necessarily limited to, the following:
 - 1. Perforated metal and wood wall panel interior architectural modular wall system including trims, terminations, miscellaneous metal and sub-frames, clips, fasteners and other devices for secure anchorage of panels to conventional drywall or other substrate provided for this purpose.

1.3 RELATED SECTIONS

- A. Gypsum Drywall - Section 092900.

1.4 QUALITY ASSURANCE

- A. Manufacturer shall have a minimum of five years experience in manufacturing architectural materials.

1.5 SUBMITTALS

- A. Shop Drawings: Submit complete shop drawings indicating quantities, finishes, dimensions and attachment relationships.
- B. Product Data: Submit manufacturer's product data, specifications and installation instructions.
- C. Samples: Submit color and finish samples to determine range of texture and consistency of color and finish expected in the finished work. Standard sample size shall be 3" x 3".

1.6 DELIVERY, STORAGE AND HANDLING

- A. Deliver components in clearly marked containers and packages suitable for shipment of specified products so as to prevent finish damage in transit.
- B. Store components only in secured ambient environment (humidity min. 25% - max 55%, temperature not to exceed 80 degrees). Store in dry locations that will avoid damage from job-site traffic, moisture, stacking of materials and other job-site contamination. Do not stack panels directly on floor. Do not subject panels to moisture.
- C. Handle components to avoid racking, twisting, denting or scratching of finished surfaces.

1.7 WARRANTY

- A. Provide manufacturers' warranty against defects in material and workmanship for a period of one year.

PART 2 - PRODUCTS

2.1 MODULAR WALL SYSTEM

- A. Basis-of-Design Product: Subject to compliance with requirements, provide Fry Reglet; Graph Modular Wall System or comparable product by Coroseal or approved equal.

- 1. Refer to elevations for details.

2.2 MATERIALS

- A. Framing Assemblies: Framing components to be fabricated from extruded 6063 T5 aluminum:

- 1. Finish: Standard anodized finish Architectural 200R1 medium etch (AA-M32c10A21), clear anodized color.

- B. Framing components: Fabricated from extruded 6463 T5 aluminum.

- 1. Intermediate Fin Type: Single Fin
 - 2. Outside Corner Type: 1.25" x 1.24" Square Corner

- C. Infill Panel Substrates

- 1. 3/4" fire rated, NAUF, LEED Certified medium density fiberboard (MDF), 48# density, minimum internal bond strength of 120# SI. Class A.
 - 2. 3/4" fire rated particelboard, 47-50# density, internal bond strength of 80# PSI. Class A. (required for wood veneer panels)
 - 3. Wood Veneer: Architectural grade quarter cut veneer (.035" thick) applied to the substrate via cold press with balancing backer sheet.
 - a. Veneer type and finish: As selected by Architect.
 - 4. Metal Laminate: Metal laminate over 1/16" phenolic backer, applied to a 3/4" substrate via cold press with balancing backer sheet.
 - a. Manufacturer and finish: As selected by Architect.
 - 5. Fabric Wrapped Acoustical Panel: 1/2" + thick, fiberglass core with hardened face wrapped with specified fabric on panel face and four edges, returned and sealed to back edge of panel.
 - a. Fabric manufacturer and type: As selected by Architect.

2.3 FABRICATION

- A. Aluminum framing components to be factory mitered and welded to form subassemblies of 2-way, 3-way and 4- way intersections, inside and outside corners and custom intersections as detailed in manufacturer's shop drawings. Modular wall system shall be capable of providing a Single Fin (fine line) reveal.

- B. Reveal joint with an anodized aluminum exposed element bordering each panel horizontally, vertically or in both directions in accordance with Architectural drawings. All other details, including base, head, corners, intersections etc. shall be fabricated in accordance with the Architectural drawings.
- C. Infill panels shall be installed in a non-progressive manner and must be point accessible.

PART 3 - EXECUTION

3.1 INSPECTION

- A. Examine the areas and conditions where modular wall system is to be installed and correct any conditions detrimental to the proper and timely completion of the work. Do not proceed with the work until unsatisfactory conditions are corrected to permit proper installation of the work.

3.2 PREPARATION

- A. Examine job-site conditions to verify that walls to receive cladding are dry, flat and rigid. Recommended stud spacing 16" or 24" o.c. Framing must conform to ML/SFA 540 specification:
 - 1. Vertical alignment (plumbness) of walls shall be within 1/960th (1/8" in 10 feet) of the span
 - 2. Horizontal alignment (levelness) of walls shall be within 1/960th (1/8" in 10 feet) of their respective heights.
 - 3. Squareness of walls shall be not more than 1/8" out of square within the length of that wall.
- B. Climate control: Material must be stored, installed and maintained only in secured ambient environment (humidity min. 25% - max 55%, temperature not to exceed 80 degrees)
- C. Verify dimensions of wall panels prior to installation to assure compatibility with job-site conditions.

3.3 INSTALLATION

- A. Install vertical main runners and horizontal cross runners in accordance with manufacturer's installation instructions and approved shop drawings. Vertical and horizontal runners must be plumb, true and level as described in 3.1.A.
- B. All panels with a wood substrate must be allowed to acclimate to the project environmental conditions prior to installation. Refer to Graph Wood Panel Acclimatization Instructions for complete information.
- C. Wall panels shall be erected plumb, level, square, true to line, securely anchored and in proper alignment and relationship to work of other trades.

3.4 CLEANING AND PROTECTION

- A. Visually inspect all exposed surfaces for scratches or blemishes. Protection of wall panels from damage by other trades after installation shall be the responsibility of the General Contractor.

END OF SECTION 097700