

Section 09 77 00  
**Graph Modular Wall System**

**PART 1 - GENERAL**

1.1 SUMMARY

- A. Scope: Section includes, but is not limited to, 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.
- B. Related Sections:
  - 1. Section 09 20 00 Plaster and Gypsum Board
  - 2. Section 14 27 00 Elevator Cab Interior

1.2 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".

1.3 QUALITY ASSURANCE

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

1.4 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.

1.5 WARRANTY

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

**PART 2 - PRODUCTS**

2.1 MANUFACTURER

- A. **Basis of design is:** **Graph Modular Wall System**  
Fry Reglet Corporation  
Alpharetta, GA - Santa Fe Springs, CA  
Phone 800-237-9773  
Fax 770-521-9034  
[www.fryreglet.com](http://www.fryreglet.com)

- B. Local Representative Contact:

2.2 MATERIALS

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

Finishes: \*\* Standard anodized finish Architectural 200R1 medium etch  
(AA-M32c10A21), clear anodized color \*\*

-or-

\*\* Factory powder paint \*\*

Framing components to be fabricated from extruded 6463 T5 aluminum:

Intermediate Fin Type:      \*\* Single Fin \*\*  
-or-  
   \*\* Double Fin \*\*  
-or-  
   \*\* Shadow Fin \*\*  
-or-  
   \*\* Butt Reveal \*\*  
-or-  
   \*\* Custom Extrusion \*\*

Outside Corner Type:      \*\* 1.25" x 1.25" "X" Corner \*\*  
-or-  
   \*\* 3/8"x3/8" "X" Corner \*\*  
-or-  
   \*\* 1.25" x 1.25" "Square" Corner \*\*  
-or-  
   \*\* 3/8"x3/8" "Square" Corner \*\*  
-or-  
   \*\* 3/8"x3/8" "Bullnose" Corner \*\*  
-or-  
   \*\* Custom Corner Extrusion \*\*

B. Infill Panel Substrates **(for wood veneer and laminates only):**

¾" medium density fiberboard (MDF), 48# density, minimum internal bond strength of 120# SI. Class A.

-or-

¾" fire rated medium density fiberboard (MDF), 48# density, minimum internal bond strength of 120# SI. Class A.

-or-

¾" fire rated, NAUF, LEED Certified medium density fiberboard (MDF), 48# density, minimum internal bond strength of 120# SI. Class A.

-or-

¾" fire rated particleboard, 47-50 # density, internal bond strength of 80# PSI. Class A.

(REQUIRED FOR WOOD VENEER PANELS)

**SELECT Material Type and Finish from the Following:**

\*\* Wood Veneer \*\* **(specify veneer type & finish):** Architectural grade quarter cut veneer (.035" thick) applied to the substrate via cold press with balancing backer sheet.

\*\* Plastic Laminate \*\* **(specify manufacturer & finish):** Plastic laminate applied to a ¾" substrate via cold press with balancing backer sheet.

\*\* Metal Laminate \*\* **(specify manufacturer & finish):** Metal laminate over 1/16" phenolic backer, applied to a ¾" substrate via cold press with balancing backer sheet.

\*\*Plate Metal\*\* **(specify manufacturer & finish):** Light gauge plate metal applied to ¼" aluminum honeycomb backer for a total panel thickness of 5/16"

\*\* Sublimated Digital Image \*\*: Lambda digital printing mounted second surface behind ¼" clear acrylic panels. Imagery from "production ready" art files.

\*\* Back Painted Glass \*\* **(specify manufacturer & finish):** ¼" – 3/8" thick, back-painted, low iron, tempered glass panels with polished edges.

\*\* Digital Graphic Glass \*\* **(specify manufacturer & finish):** ¼" thick, low iron, tempered glass panels with polished edges.

\*\* Laminated Glass \*\* **(specify manufacturer & finish):** 5/16" – 7/16" thick, low iron, annealed laminated glass panels with polished edges.

\*\* Solid Resin \*\* **(specify manufacturer & finish):** Glycol modified engineered polyester resin, ¼" thick, opaque panels.

\*\* Phenolic Compact Laminate Panels \*\* **(specify manufacturer & finish):** 5/16" or 3/8" thick phenolic panels.

\*\* Fabric Wrapped Acoustical Panel \*\* **(specify fabric manufacturer & type):** ½" + thick, fiberglass core with hardened face wrapped with specified fabric on panel face and four edges, returned and sealed to back edge of panel.

\*\* Solid Surface Panels \*\* **(specify manufacturer & finish):** ½" solid surface panels with square edges

\*\* Porcelain Tile \*\* **(specify manufacturer & finish):** 3mm porcelain tile laminated to ¼" aluminum honeycomb backer.

## 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 (indicate the reveal of your choice from the following selection)

**\*\*Single Fin (fine line)\*\***

**\*\*Double Fin (7/16" reveal - 1/4" open)\*\***

**\*\*Butt Reveal, no Fin (min 1/16" open)\*\***

- 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 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.

### 3.2 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.

### 3.3 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