



SECTION (____)

METAL ARCHITECTURAL MESH

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. (Interior)(Exterior) Handrail Infill Panels.

1.2 SCOPE

- A. Woven stainless steel infill panel system as shown on contract drawings

This is a performance specification. The system herein specified has been carefully chosen due to their inherent performance characteristics. Lesser quality material will not be considered or approved. A manufacturer is named to establish a reference for quality and appearance.

1.3 SUBMITTALS

- A. Submit under provisions of Section (____).
- B. Mesh: Manufacturer's data sheets on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation methods.
- C. Shop Drawings: Submit drawings indicating the following:
 - 1. Mesh series and pattern name.
 - 2. Frame style and details.
 - 3. Panel sizes.
 - 4. Panel thickness.
 - 5. Mounting connections.
 - 6. Installation details.
- D. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square, representing actual product, style, and finish.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation.
- B. Store products wrapped or otherwise protected and under clean and dry storage conditions until required for installation.

1.5 COORDINATION

- A. Coordinate fabrication of metal mesh infill panels with fabrication of work on or in which the panels will be installed.
- B. Provide final size measurements to manufacturer in time to avoid delay in the construction schedule.

1.5 QUALITY ASSURANCE

- A. Manufacturer: Firm with domestic engineering, manufacturing and delivery capacity required for project. Shall have successfully completed at least five (5) projects within the past 3 years of similar size, complexity and utilizing similar systems.

PART 2 PRODUCTS

2.1 PRODUCT CONSTRUCTION

- A. The basis of design of the system in this section is the following listed components engineered and fabricated by Cambridge Architectural. Alternate products must submit samples and receive approval 10 days prior to bid date.
- B. Manufacturer: Cambridge Architectural, Cambridge Inc; 105 Goodwill Rd., Cambridge, MD 21613 USA. ASD. Te1: (866)806-2385, X1363. Fax: (410) 901-4979. Email: lwindsor@cambridgearchitectural.com. www.cambridgearchitectural.com.

2.2 MATERIALS

- A. Architectural Mesh System Type A: Cambridge Architectural.
 - 1. Mesh System to include Cambridge Tartan Mesh with Cambridge U-Binding Attachment system designed to meet building code requirements. Infill panels shall be designed for a uniform load of not less than 50 pounds per square foot applied horizontally. Reactions due to this loading need not be added to the loading specified for the main supporting members of the infill panel.
 - 2. Mesh Pattern Name: Tartan
 - a. Material: (T304) (T316) Stainless Steel.
 - b. Weight: 1.0 lbs/sq. ft.
 - c. Mesh Type: Rigid.
 - d. Bright Finish (per submitted samples)
 - 3. Attachment System: U-Binding
 - a. Material: (T304)(T316) Stainless Steel
 - b. Fabricated system with mesh panel connections to main supporting members.

2.3 FABRICATION

- A. Manufacture architectural mesh panels in accordance with approved shop drawings.
- B. Fabricate or specify compatible attachment system to satisfy structural and performance requirements.
- C. All Welds to be performed by an AWS certified welder. Valid certification to be provided.

2.5 ENGINEERING

- A. Manufacturer to provide engineering assistance.
- B. Furnish certification that all components were installed in accordance to the manufacturer's engineering data to meet the specified design loads.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Do not begin installation until supporting members have been properly prepared to receive the products of this section.
- B. Verify dimensions, tolerances, and method of attachment with other work on-site.
- C. If supporting members are the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the supporting members under the project conditions.

3.3 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Provide suitable means of connection acceptable to manufacturer such as bolts, rivets, clips, and toggles.
- C. Do not install component parts that are observed to be defective, including warped, bowed, dented, abraded and broken members.
- D. Do not cut, trim, weld or braze component parts during erection in manner that would damage finish, decrease strength, or result in visual imperfection or failure in performance. Return component parts that require alteration to shop for refabrication, if possible, or for replacement with new parts.
- E. Separate dissimilar metals and use gasketed fasteners, isolation shim, or isolation tape where needed to eliminate possibility of corrosive or electrolytic action between metals.

3.4 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION