SPEC SECTION 05 75 00
DECORATIVE FORMED METAL SCREENS

Part I -General

1.01 Related Documents

A. Drawings and general provisions of the contract, including General Conditions, apply to work of this section.

B. Extent of work as specified and as shown on contract drawings.

1.02 Scope

A. Woven Stainless Steel Fabric as shown on contract drawings.

It is acknowledged that this is a performance specification. The materials herein specified have 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.

1.03 Related Work Specified Elsewhere

A. Miscellaneous Metal

1.04 Quality Assurance

A. Manufacturer: Firm with manufacturing and delivery capacity required for project; shall have successfully completed at least five (5) projects within the past 5 years of similar size and utilizing similar systems.

B. Mock-ups: Provide the following mock-up material;

1. One wall panel of each type or screen. (Minimum 8’ x 10’)
2. 20 lineal feet of any linear shapes.

Mock-ups shall be for visual appearance and shall act as a standard for the actual project. Mock-ups shall be Designed by AutoCAD and drawings submitted to architect for approval prior to fabrication of mockups.

Erect mock-ups under manufacturers / fabricators direct supervision and employ workmen who will be employed during actual project erection.

The intent of the mock-up is to establish a level of quality for both installation and fabrication of the wall systems / wall panels. The mock-ups shall remain in place throughout the installation for the work of this section to serve as the criteria for acceptance of the final work.

1.05 Submittals

A. Product Data: Submit manufacturer’s standard product specifications, details, drawings, independent test data and installation instructions for each component required.

Test data shall include copies of the original system tests, and independent component tests where applicable. Tests shall be conducted for the complete systems of the manufacturer.

B. Submission: Must be within 60 days of the general contract award to avoid project delay. It is acknowledged that the specified systems are long lead-time items, and coordination with other trades is critical. If this schedule is not adhered to, architect will designate product to be utilized, and contractor will have no recourse.

C. Samples: Submit three each (3) of each system component; 24” x 24” Flat components; linear components of 12" length. All sample to be from a standard production run.

D. Shop Drawings: Sub Contractor for the work of this section shall submit complete shop drawings in most current AutoCAD format. Shop drawings shall show all components in exploded isometric detail, complete elevations, and all pertinent sections. All unusual details shall be clearly shown.

1.06 Sequencing

A. Substitute Products: Alternate proposals for substitute products will not be accepted unless approved as issued in addenda. Substitute products will not be issued in addenda unless request for substitution and complete and sufficient data are furnished to the architect and owner for review.

B. Contract Execution: Submittals, including mock-up, shall be completed and approved prior to the award of the subcontract for this section.

C. Manufacturer's Production Schedule: Subcontract for the work of this section shall be awarded to allow sufficient time for manufacturer's standard production schedule. Subcontractor shall submit a written confirmation of production and delivery schedule on Manufacturer's Letterhead within sixty (60) days of general contract award. Delays in awarding a material contract, which threaten the completion schedule and consequential cost, is the responsibility of the sub contractor.

1.07 Warranty

A. General Submit Manufacturer's Warranty that the materials furnished will perform as specified, and have been installed in more than 5 similar projects in the past five 5 years.

Part II Products

2.01 Product Construction;

The basis for design of the product for this setting is “Omega 1520” manufactured by GKD-USA. Project design is based on materials and systems of GKD-USA. Other manufacturers must be approved prior to the bid in written form, by the architect. Specified manufacturer's standard of quality and manufacturing tolerances shall be criteria for evaluating "equivalent" product.

A. Woven Stainless Steel Mesh shall be manufactured using drawn stainless steel wire and stainless steel rods. The warp wire is .079” T316L stainless steel cable; and the weft element is .059” T316L stainless steel rods.

B. All hardware shall be T316L stainless steel and produced by manufacturer as part of the finished system with specifications derived from the manufacturer’s Engineering Calculations.

C. The fabric shall be 100% aisi type 316L Electro polishing quality stainless steel for exterior application.

D. Open area to be 50%.

E. Weight to be 1.06 lbs. per sf.

F. Thickness to be 0.177”

G. Attachment hardware design and location as shown on contract drawings and confirmed per manufacturer’s Engineering Calculations and Shop Drawings.

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Part III Execution

3.01 Examination

A. Examine building structure scheduled to receive components of this section for moisture, temperature, unevenness or irregularities that would affect the quality and execution of the work. If adverse conditions found, notify General Contractor in writing, and DO NOT proceed until corrected.

B. Tolerances (all systems included in this section) to be installed with a maximum permissible deflection of L/360 of span and maximum surface deviation of 1/8" in 10’-0” (no loads applied).

3.02 Installation

A. General: Comply with Manufacturer's Printed Instructions and all details and directions shown on contract drawings.

3.03 Cleaning and Protection:

A. Protection of all components contained in this section protected by General Contractor after installation.

C. Clean all surfaces following installation with a mild, biodegradable soap solution and rinse with a pressure washer.

D. Replace or repair units having scratches, abrasion, or other defects upon completion of installation of each unit.

3.04 General Responsibilities:

A. Variation from Specification: Any variation from any section of this specification, resulting in additional costs to any other contractor) sub contractor or supplier, on this project, shall be the sole financial responsibility of the contractor for the work of this section.

B. All conditions as indicated in sections included in 05000 series will be considered a part of this section where applicable.

End of Section