

SECTION 10240 - ARCHITECTURAL GRILLES

PART 1 - GENERAL:

1.01. WORK INCLUDED

- A.** Provide materials, labor, equipment and services necessary to furnish, deliver and install all work of this Section as shown on the drawings and as specified.

1.02. RELATED DOCUMENTS

- A.** Drawings and general provisions of contract, including general and supplementary conditions and Division-1 specification sections, apply to work of this section.

1.03. RELATED WORK BY OTHER SECTIONS: (Insert related sections).

1.04. 1.04 QUALITY ASSURANCE

- A.** Comply with SMACNA "Architectural Sheet Metal Manual" recommendations for fabrication, construction details and installation procedures, except as otherwise indicated.
- B.** Field Measurements: Verify size, location and placement of screen units prior to fabrication, wherever possible.
- C.** Shop Assembly: Coordinate field measurements and shop drawings with fabrication and shop assembly to minimize field adjustments, mechanical attachment and field assembly of units. Pre-assemble units in ship to greatest extent possible and disassemble as necessary for shipping and handling limitations. Clearly mark units for re-assembly and coordinated installation.

1.05. SUBMITTALS:

- A.** Product Data: Submit manufacturer's specifications, technical data, and installation instructions for required products, including finishes.
- B.** Shop Drawings: Submit shop drawings for fabrication and erection of screen units and accessories. Include plans, elevations and details of sections and connections to adjoining work. Indicate materials, finishes, fasteners, joinery and other information to determine compliance with specified requirements.

PART 2 - PRODUCTS:

2.01. ACCEPTABLE MANUFACTURERS

- A.** Construction Specialties, Inc.

2.02. MATERIALS

- A.** Aluminum extrusions: ASTM B 211, Alloy 6063-T52.
- B.** Clip Angles: Structural grade aluminum.
- C.** Fastenings: Fasteners shall be aluminum or stainless steel. Provide types, gauges and lengths to suit unit installation conditions.
- D.** Anchors and Inserts: Use non-ferrous metal or hot-dip galvanized anchors and inserts for installation and elsewhere as required for corrosion resistance. Use stainless steel or lead expansion bolt devices for drilled-in place anchors. Furnish inserts, as required, to be set into concrete or masonry work.

2.03. FABRICATION, GENERAL

- A.** Provide Circular Screen and accessories of design, materials, sizes, depth, arrangement, and metal thickness as indicated or as required for optimum performance with respect to strength; durability; and uniform appearance.
- B.** Include anchorages, and accessories required for complete assembly.

2.04. SCREEN CONSTRUCTION

- A.** C/S ALUMINUM SCREEN SHALL BE C/S GEOMETRIC GRILLE CIRCULAR PATTERN --as manufactured by CONSTRUCTION SPECIALTIES, INC. Cells shall be be 5 1/2" diameter spaced 6" o.c. at a 45 degree slope. Blades to be fabricated from extruded aluminum sections in 6063-T52 alloy, and to be minimum .081" thick. Blade connections within the grille shall be accomplished by dove tail joints tack welded and peened where required. Grille to be mechanically secured to horizontal or vertical steel supports (not by C/S) with extruded aluminum clip angles. All fasteners to be stainless steel or aluminum.

2.05. ALUMINUM FINISH

- A.** General: Comply with NAAMM "Metal Finishes Manual" for finish designations and application recommendations, except as otherwise indicated. Apply finishes in factory after products are assembled. Protect finishes on exposed surfaces prior to shipment. Remove scratches and blemishes from exposed surfaces which will be visible after completing finishing process.
- B.** Provide Color as indicated or, if not otherwise indicated, as selected by architect from standard Kynar 500 colors.
- C.** Fluorocarbon Coating: Inhibitive thermo-cured primer, 0.2 mil minimum dry film thickness, and thermo-cured fluorocarbon coating containing "Kynar 500" resin, 1.0 mil minimum dry film thickness.
- D.** Furnish manufacturer's twenty (20) year guarantee of "Kynar 500" finish.
- E.** Finish shall be applied in the plant of the manufacturer.

PART 3 - EXECUTION

3.01. INSTALLATION

- A.** Locate and place screen units plumb, level and in proper alignment with adjacent work.
- B.** Use concealed anchorages wherever possible.
- C.** Form tight joints with exposed connections accurately fitted together.
- D.** Use isolation tape where aluminum comes in contact with steel or concrete.

END OF SECTION 10240