

SECTION 10240 - VISION SCREENS

PART 1 - GENERAL:

1.1 WORK INCLUDED: Supply and install all materials and related hardware.

1.2 RELATED DOCUMENTS: Drawings and general provisions of contract apply to work of this section.

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

1.4 QUALITY ASSURANCE:

- A. **Field Measurements:** Verify location and size of structural framing, location and size of screen units prior to fabrication.
- B. **Shop Assembly:** Pre-assemble units in factory to greatest extent possible sectionalized as necessary for shipping and handling limitations. Clearly mark sections for assembly and coordinated installation.
- C. Retain a professional engineer registered in the *Place of the Work* to design the work, prepare, seal and sign shop drawings and to perform field review.
- D. Perform a pre-installation meeting in accordance with Section 01xxxxx.

1.5 SUBMITTALS:

- A. **Product Data:** Submit manufacturer's technical data, and installation instructions 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.

1.6 DESIGN REQUIREMENTS

- A. **Structural Requirements:** Design vision screens to withstand wind and snow loads as required by the local building code to maximum allowable deflection for the vertical supports to be L/180 or 19mm (3/4") whichever is less. Maximum allowable deflection for vision screen blades to be L/120 or 13mm (1/2") across the weak axis, whichever is less.

PART 2 - PRODUCTS:

2.1 ACCEPTABLE MANUFACTURERS:

Ventex Inc.
195 Healey Road,

Bolton, Ontario
L7E 5B1

2.2 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 stainless steel fasteners or fasteners with Climaseal Coating as required for corrosion resistance. Use stainless steel or lead expansion bolt devices for drilled-in place anchors.

2.3 FABRICATION, GENERAL:

- A. Provide **Model 2420 Vision Screen** as indicated or as required for optimum performance with respect to strength; durability; and uniform appearance.
- B. Include supports, anchorages, and accessories required for complete assembly.

2.4 SCREEN CONSTRUCTION:

VISION SCREEN 2420 as manufactured by VENTEX INC. Blades to be fabricated from extruded aluminum sections in 6063-T52 alloy, **minimum .081" thick and spaced approximately 4 7/8" on center for 100% sight cut-off when viewed at 90 degrees to vertical. Blades to be nominal 4" deep**, supported and lined up with heavy gauge extruded aluminum blade brackets positively interlocked to each blade and mechanically secured to extruded aluminum supports. Aluminum supports fixed directly to horizontal steel supports (not by Ventex) or to spandrel beams with extruded aluminum clip angles. All fasteners to be stainless steel or Climaseal coated steel. Material shipped in assembled sections for field assembly to structure by the installer. Aluminum supports and blade braces to be in mill finish.

2.5 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.

Provide Color as indicated or, if not otherwise indicated, as selected by architect from standard Kynar 500 colors.

B. Fluorocarbon Coating to AAMA 2605 Weathering Standard: Inhibitive thermo-cured primer, 0.2 mil minimum dry film thickness, and thermo-cured fluorocarbon coating containing 70% "Kynar 500" resin, 1.0 mil minimum dry film thickness.

Furnish manufacturer's twenty (20) year guarantee.

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