



SECTION 10 82 13

SITE SCREENS AND ENCLOSURES

Envisor® Z-Fin Rooftop and Ground Screening by CityScapes

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PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Rooftop and ground equipment louvered screen enclosures for mechanical equipment.
- B. Site screening devices. Modular and pre-formed louvers and support framing for site screening including the following:
 - 1. Powder coated metal.
 - 2. Painted metal.
 - 3. Operable access gates.
- C. Related Work:
 - 1. Section 099000 - Painting: Provide touch-up painting for all surface scratches, exposed screw heads, and field-primed painted screens.

1.2 REFERENCE STANDARDS

- A. ASTM International (ASTM):
 - 1. ASTM A563 - Carbon and Alloy Steel Nuts (Inch and Metric)
 - 2. ASTM C1513 - Steel Tapping Screws for Cold-Formed Steel Framing Connections
 - 3. ASTM B209 - Aluminum and Aluminum Alloy Sheets and Plates.
 - 4. ASTM B221 - Aluminum and Aluminum Alloy Extruded Bars, Rods, Wire Profiles, and Tubes.
 - 5. ASTM F436 - Hardened Steel Washers Inch and Metric Dimensions
- B. The Aluminum Association, Inc. (AA): AA ADM - Aluminum Design Manual.
- C. American Society of Civil Engineers (ASCE): ASCE 7 - Minimum Design Loads for Buildings and Other Structures.

1.3 SUBMITTALS

- A. Submit under provisions of Section 01 30 00.
- B. Product Data:
 - 1. Manufacturer's data sheets on each product to be used.
 - 2. Preparation instructions and recommendations.
 - 3. Storage and handling requirements and recommendations.
 - 4. Typical installation methods.
 - 5. Sufficient data and detail to indicate compliance with these specifications.

- C. Verification Samples: Two representative units of each:
 - 1. Material Type:
 - a. Powder coated aluminum.
 - b. Painted aluminum.
 - 2. Color Selection: Submit paint chart with full range of colors available for client's selection. Custom color samples available upon purchase.
- D. Shop Drawings: Prior to commencement of fabrication, submit detailed shop drawings, showing profiles, sections of components, finishes, and fastening details. Include plan elevation pages to clearly outline screenwall or enclosure locations.
- E. Color Charts: Color charts showing manufacturer's full range of colors from standard line.
- F. Closeout Submittals: Warranty documents, issued and executed by manufacturer, countersigned by Contractor.

1.4 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with a minimum two (2) years documented experience.
- B. Installer Qualifications: Company specializing in performing Work of this section with minimum two years documented experience with projects of similar scope and complexity.
- C. Source Limitations: Provide each type of product from a single manufacturing source to ensure uniformity.

1.5 PRE-INSTALLATION CONFERENCE

- A. Pre-Installation Conference: Convene approximately two weeks before scheduled commencement of the Work. Attendees shall include client, Contractor and trades involved. Agenda shall include schedule, responsibilities, critical path items, and approvals.
 - 1. Notify client a minimum of four calendar days in advance of scheduled meeting date.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Delivery: Deliver materials to site in manufacturer's original, unopened containers and packaging.
- B. Storage and Handling: Protect materials and finishes during handling and installation to prevent damage.
- C. Protection: Protect from damage due to weather, excessive temperature, and construction operations.

1.7 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.
- B. Field Measurements: Take measurements of supporting paving, footings, or piers. Indicate measurements on shop drawings fully documenting any field condition that may interfere with the screen system installation.

1.8 COORDINATION

- A. Installer for work under this Section shall be responsible for coordination of panel and framing

sizes and required options with the Contractor's requirements.

1. Request information on sizes and options required from the Contractor.
- B. Submit shop drawings and obtain written approval of shop drawing prior to fabrication.
- C. Confirm size, type, and location of supporting construction as adequate to resist column supports.

1.9 WARRANTY

- A. Warranty: Provide manufacturer's standard limited three (3) year warranty, starting from the date of substantial completion of the project.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Z-Fin Envisor Screening System by CityScapes International Inc; 4200 Lyman Ct., Hilliard, OH 43026; Toll Free: 877-SCREENS; Phone: 614-850-2549; Email: contact@cityscapesinc.com; www.cityscapesinc.com.
- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of Division 01.

2.2 PERFORMANCE AND DESIGN REQUIREMENTS

- A. Regulatory Requirements: Comply with requirements of building authorities having jurisdiction in Project location.
- B. Structural steel posts designed and provided by others.
- C. Z-Fin Design Criteria: Manufacturer is responsible for the structural design of all materials, assembly, and attachments to resist snow, wind, suction, and uplift loading at any point without damage or permanent set.
 1. Framing: Designed in accordance with the Aluminum Design Manual to resist the following loading:
 - a. ASCE 7 - Minimum Design Loads for Buildings and Other Structures; American Society of Civil Engineers.

2.3 MATERIALS

- A. Basis of Design: Z-Fin Envisor Screening Roof and Ground Enclosures as manufactured by CityScapes. Envisor® Z-Fin conceals rooftop equipment while maintaining ventilation, letting the units breathe, not bake. Scalable and suitable for data centers, warehouses, and apartment complexes.
- B. Fasteners and Hardware: Zinc plated steel fasteners with powder coated aluminum heads and rubber sealing washers for attachment to steel structure where water intrusion needs to be prevented.
- C. Gate Frame: Material: Al 3003-H14 Framed Sheets.
- D. Corner Assemblies:
 1. Mitered inside and outside corners, welded, with predrilled holes.
 2. Boxed inside and outside corners.
 3. Material: Al 3003-H14.

- E. Wall and Gate Louver Infill:
 - 1. Material: Al 6063-T6.
- F. Hardware:
 - 1. Hinges: Heavy Duty Continuous Hinge
 - 2. Latches: Proprietary Spring Latch.
 - 3. Latches: Lockable Gate Latch with provisions for Padlock installation
- G. Threaded Fasteners: Screws, bolts, nuts, and washers to be Stainless Steel or Galvanized.
- H. Fabrication:
 - 1. Modular and Factory-Formed Panel Systems: Continuous interlocking panel connections and indicated or necessary components.
 - a. Form components true to shape, accurate in size, square and free from distortion or defects. Cut panels to precise lengths indicated on approved shop drawings.
 - 2. Fabricate products to manufacturer's drawings.
 - 3. Framing: Fabricate and assemble components for delivery to the site.
 - 4. Gate Hardware: All gate hardware pre-assembled into gate.

2.4 FINISHES

- A. Panel Coating: Manufacturer's standard powder coating system, factory applied.
 - 1. Color: Custom color paint as selected and approved by client.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Installer's Examination: Examine conditions under which construction activities of this section are to be performed.
 - 1. Submit written notification to client and Screen manufacturer if such conditions are unacceptable.
 - 2. Beginning erection constitutes installer's acceptance of conditions.

3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.

3.3 INSTALLATION

- A. Install units in accordance with the manufacturer's instructions and approved shop drawings. Keep perimeter lines straight, plumb, and level. Provide brackets, anchors, and accessories necessary for complete installation.
- B. Fasten support brackets to supporting structure at spacing as indicated on approved submittal drawings.
- C. Do not cut or abrade finishes which cannot be restored. Return items with such finishes to shop for required alterations.

3.4 ERECTION TOLERANCES

- A. Tolerances: Maximum misalignment from true position 1/4 inch (6 mm).

3.5 CLEANING AND PROTECTION

- A. Remove protective masking, if any, from material immediately after installation.
- B. Protection:
 - 1. Ensure that finishes and structure of installed systems are not damaged by subsequent construction activities.
 - 2. If minor damage to finishes occurs, repair affected areas using touch-up paint and repair or replace damaged components in accordance with the manufacturer's recommendations.
- C. Prior to Substantial Completion: Remove dust or other foreign matter from component surfaces. Clean units in accordance with the manufacturer's instructions.

END OF SECTION