



SECTION 32 35 10

SITE ENCLOSURES AND SCREENS

Covrit® Ground Screening and Roofed Enclosures by CityScapes

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PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Site enclosures with roofs.
- B. Site screening devices. Modular and pre-formed panels and support framing for site screening including the following:
 - 1. Plankwall PVC (Polyvinyl Chloride).
 - 2. PlankArt® PVC planks with printed content.
 - 3. Powder coated metal.
 - 4. Painted metal.
 - 5. Natural wood.
 - 6. Operable access gates.
- C. Related Work:
 - 1. Section 09 90 00 - Touch-up painting required for scratches and screw heads and field painting of prime painted screens.
 - 2. Section 01 23 00 - Alternates. For direction regarding bidding of screens as alternates.

1.2 REFERENCE STANDARDS

- A. American Society for Testing and Materials International (ASTM):
 - 1. ASTM A563 - Standard Specification for Carbon and Alloy Steel Nuts (Inch and Metric)
 - 2. ASTM B209 - Aluminum and Aluminum Alloy Sheets and Plates.
 - 3. ASTM B221 - Aluminum and Aluminum Alloy Extruded Bars, Rods, Wire Profiles, and Tubes.
 - 4. ASTM F436 - Standard Specification for Hardened Steel Washers Inch and Metric Dimensions
 - 5. ASTM F1554 - Standard Specification for Anchor Bolts, Steel, 36, 55, and 105-ksi Yield Strength
- 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.
- C. Verification Samples: Two representative units of panel type
 - 1. 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 (2) 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 DELIVERY, STORAGE, AND HANDLING

- A. Delivery: Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly indicating manufacturer and material.
- 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.

1.6 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.

1.7 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.

1.8 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. Covrit Roofed Enclosures 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. 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.
- C. Framing: Designed in accordance with the Aluminum Design Manual to resist the following loading:
 1. ASCE 7 - Minimum Design Loads for Buildings and Other Structures; American Society of Civil Engineers

2.3 MATERIALS

- A. Paneling: to be selected by client from Manufacturer's standard panel selections.
- B. Operable Access Gates: to be selected by client from Manufacturer's standard selections.
- C. Framing: Aluminum Plates, Shapes and Bars: ASTM B221, alloy 3003-H14, 6005-T5, 6061-T5, 6061-T6 or 6063-T5.
- D. Roof System: Aluminum Plates, Shapes and Bars: ASTM B221, alloy 6061-T6, 6063-T52, 3003-H14, 6063-T6, or 3004-H36
- E. Wall and Gate Infill: Woodgrain Cellular PVC or ASTM B221, alloy 3003-H14 or 6063-T6
- F. Threaded Fasteners: Screws, bolts, nut and washers to be zinc plated or stainless steel.
- G. Anchor Bolts
 1. Carbon and Alloy Steel Nuts: ASTM A563.
 2. Carbon Steel Washers: ASTM F436.
 3. Carbon Steel Threaded Rod: ASTM F1554 grade 55, zinc-plated
 4. Epoxy HILTI HVU2 or Epoxy HILTI HIT-HY 270

2.4 FABRICATION

- A. Factory-Formed Panel Systems: Continuous interlocking panel connections and indicated or necessary components.
 - 1. 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.
- B. Fabricate products in accordance with Contractor approved shop drawings.
- C. Framing: Fabricate and assemble components in largest practical sizes, for delivery to the site.
 - 1. Construct corner assemblies to required shape with joints tightly fitted.
 - 2. Supply components required for anchorage of framing. Fabricate anchors and related components of material and finish as required, or as specifically noted.
- D. Gate Hardware: Provide manufacturer's adjustable standard of size required to fit support pipe provided.

2.5 FINISHES

- A. Aluminum Framing: Manufacturer's standard powder coating system, factory applied.
- B. Panel Coating: Manufacturer's standard powder coating system, factory applied.
 - 1. Color: Selected from full range of manufacturer's standard colors.
 - 2. 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.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

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 structural supports to/into paving, footings, or piers at spacing as indicated on approved shop drawings.
- C. Where aluminum materials would contact dissimilar materials, insert rubber grommets at attachment points, thus eliminating where dissimilar metals would otherwise be in contact.
- D. 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 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 damage in accordance with manufacturer's recommendations; provide replacement components if repaired finishes are unacceptable to client.
- C. Prior to Substantial Completion: Remove dust or other foreign matter from component surfaces; clean finishes in accordance with manufacturer's instructions.

END OF SECTION