

CityScapes®

ARCHITECTURAL INNOVATIONS

SECTION 32 35 00

SITE SCREENING DEVICES

Covrit Ground Screens and Enclosures by CityScapes

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**** NOTE TO SPECIFIER **** CityScapes Inc.; Ground Screens and Enclosures.

This section is based on the products of CityScapes International Inc., which is located at:
4200 Lyman Ct.
Hilliard, OH 43026
Toll Free: 877-SCREENS
Phone: 614-850-2549
Email: Contact@cityscapesinc.com.
Web: <https://cityscapesinc.com/>

CityScapes® has been an industry leader in architectural innovations since 2004. We began with our flagship product, Envisor®, a patented HVAC Screening system that meets municipal code line-of-sight requirements with no roof membrane disruption. CityScapes® has expanded its scope to add new product lines that combine screening, security, and aesthetics. Our offerings include:

- Envisor® Unit Attached Rooftop Screens
- Envisor® Z-Fin and post-mounted screening,
- Covrit® Ground Screening and Roofed Enclosures
- ToughGate™ and MegaGate™
- Marquee Canopies and Awnings
- NatureScreen Trellises® and Planters
- Custom fabrication solutions

All CityScapes® products are Build America, Buy America Act (BABAA) certified and constructed at our 180,000 square foot manufacturing facility in central Ohio. Design, engineering, manufacturing, and installation - our team handles it all.

PART 1 GENERAL

1.1 SECTION INCLUDES

**** NOTE TO SPECIFIER **** Delete items below not required for project.

- A. 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. Composite plank.
7. Operable access gates.

B. Related Work:

1. Section 099000 – Painting for touch-up painting required for scratches and screw heads and field painting of prime painted screens.

1.2 REFERENCE STANDARDS

A. ASTM International (ASTM):

1. ASTM A563 - Standard Specification for Carbon and Alloy Steel Nuts (Inch and Metric)
2. ASTM B 209 - Aluminum and Aluminum Alloy Sheets and Plates.
3. ASTM B 221 - 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.
5. Sufficient data and detail to indicate compliance with these specifications.

**** NOTE TO SPECIFIER ** Delete if not applicable to product type.**

C. Verification Samples: Two representative units of each:

1. Material Type:
 - a. Plankwall PVC (Polyvinyl Chloride).
 - b. PlankArt® PVC planks with printed content.
 - c. Powder coated metal.
 - d. Painted metal.
 - e. Natural wood.
 - f. Composite plank.
2. Color Selection: Submit paint chart with full range of colors available for Architect'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 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.

**** NOTE TO SPECIFIER **** Include mock-up if the project size or quality warrant the expense. The following is one example of how a mock-up on might be specified. When deciding on the extent of the mock-up, consider all the major different types of work on the project.

- D. Mock-Up: Construct a mock-up with actual materials in sufficient time for Architect's review and to not delay construction progress. Locate mock-up as acceptable to Architect and provide temporary foundations and support.
 - 1. Intent of mock-up is to demonstrate quality of workmanship and visual appearance.
 - 2. If mock-up is not acceptable, rebuild mock-up until satisfactory results are achieved.
 - 3. Retain mock-up during construction as a standard for comparison with completed work.
 - 4. Do not alter or remove mock-up until work is completed or removal is authorized.

1.5 PRE-INSTALLATION CONFERENCE

- A. Pre-Installation Conference: Convene approximately two weeks before scheduled commencement of the Work. Attendees shall include Architect, Contractor and trades involved. Agenda shall include schedule, responsibilities, critical path items, and approvals.
 - 1. Notify Architect 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, 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.

1.7 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 warranty, starting from the date of substantial completion of the project.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Covrit Gates and 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.

**** NOTE TO SPECIFIER ** Delete one of the following two paragraphs; coordinate with requirements of Division 1 section on product options and substitutions.**

- 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.
 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: Covrit Enclosures and Ground Screens as manufactured by CityScapes.
- B. Fasteners and Hardware: Zinc plated or stainless steel.
- C. Mounting: Determined by site conditions and/or engineering recommendations
 1. Post Embedment: As detailed on the Drawings.
 2. Surface Mount Anchoring:
 - a. Carbon and Alloy Steel Nuts: ASTM A563.
 - b. Carbon Steel Washers: ASTM F436.
 - c. Carbon Steel Threaded Rod: ASTM F1554 grade 55, zinc-plated.
 - d. Epoxy: HILTI HVU2.
 - e. Epoxy: HILTI HIT-HY 270.
- D. Posts, Gate Frame, and Top and Bottom Rails: Material: Al 6005-T5 Extruded Material

**** NOTE TO SPECIFIER ** Delete Post Cap options not required.**

1. Post Cap: Fitted.
2. Post Cap: Pyramid.
3. Post Cap: Shallow Hip.
4. Post Cap: Pyramid Hip.
5. Post Cap: Plateau.

E. Wall and Gate Infill:

**** NOTE TO SPECIFIER ** Delete infill material options not required.**

1. Material: Woodgrain Cellular PVC
2. Material: Al 3003-H14. Rib
3. Material: Al 3003-H14. Planar Panel
4. Material: Al 6063-T6. Louver Blades
5. Material: Al 6063-T6. Aluminum Slat

F. Wall and Gate Plank Stiffener: Material: Al 6005-T5

1. Extruded Shape Standard Stiffener
2. Extruded Shape Affix Stiffener
3. Extruded Shape Wide Stiffener

G. Hardware:

1. Hinges: Cradle.
2. Hinges: Self-closing.
3. Handles: Bridge.
4. Handles: Modern.
5. Handles: Classic.
6. Latches: Modern.
7. Latches: Slide Bolt.
8. Drop Bolts: Stainless steel. Size: 24 x 0.56 inches (610 x 14.3 mm).
9. Drop Bolts: Stainless steel. Size: 40 x 0.56 inches (1016 x 14.3 mm).
10. Secure Access Latches for Pedestrian Doors: Keyed entry.
11. Secure Access Latches for Pedestrian Doors: Keypad entry.
12. Egress controls for Pedestrian Doors: Von Duprin Panic Bar 33A/35A Series.

H. Paneling: Minimum Thickness: 0.050 inches (1.27 mm).

**** NOTE TO SPECIFIER ** Delete options not required.**

1. Plankwall, PVC (Polyvinyl Chloride).
2. PlankArt® PVC planks with printed content.
3. Aluminum Extruded Sheets: Powder coated.
4. Aluminum Extruded Shapes: Powder coated.
5. Aluminum Extruded Sheets: Painted.
6. Natural Wood infill.

**** NOTE TO SPECIFIER ** Delete if not required or delete gate options not required.**

I. Operable Access Gates: Minimum Panel thickness: 0.050 inches (1.27 mm).

1. Natural wood boards.
2. Powder coated extruded Aluminum sheets.
3. Powder coated extruded Aluminum shapes.
4. Painted Aluminum sheets.
5. PVC (Polyvinyl Chloride) sheets.

J. Threaded Fasteners: Screws, bolts, nut, and washers to be Stainless Steel.

1. Post Backer assembly fasteners shall be No. 10-16 stainless steel Self-Drilling screws.
2. Provide lock washer or other locking device at all bolted connections.

2.4 FABRICATION

- A. Modular and 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 to the following configurations:

**** NOTE TO SPECIFIER ** Make selections below from manufacturer's full available options. Panel styles and design can also be custom fabricated to customer's preferences. Note that gates and doors can also be fabricated from cedar or redwood. Consult manufacturer for design options and finishes available.**

1. Panel Style: Vertical Plankwall (Standard or Wide Stiffener).
2. Panel Style: Horizontal Plankwall (Standard or Wide Stiffener).
3. Panel Style: Planar Formed Aluminum Panel.
4. Panel Style: Laser Cut & Formed Aluminum Panel.
5. Panel Style: Aluminum 7.2 inch (183 mm) Rib Perforated.
6. Panel Style: Aluminum 7.2 inch (183 mm) Rib Solid.
7. Panel Style: Metal louver.
8. Panel Style: Slatwall 4 inch (102 mm).
9. Panel Style: Slatwall 6 inch (152 mm).
10. Panel Style: Natural Wood Horizontal (Standard or Wide Stiffener).
11. Panel Style: Natural Wood Vertical (Standard or Wide Stiffener).
12. Panel Style: Natural Stone.
13. Panel Style: Ventilated Plankwall.
14. Panel Style: PlankArt® Printed Plankwall.
15. Panel Style: Custom.
16. Gate Style: Vertical Plankwall.
17. Gate Style: Horizontal Plankwall.
18. Gate Style: Diagonal Plankwall.
19. Gate Style: Aluminum 7.2 inch (183 mm) Rib.
20. Gate Style: Planar Formed Aluminum Panel.
21. Gate Style: Laser Cut Formed Aluminum Panel.
22. Gate Style: Metal Perforated.
23. Gate Style: Metal Bahama Louver.
24. Gate Style: Slatwall 4 inch (102 mm).
25. Gate Style: Slatwall 6 inch (152 mm).
26. Gate Style: Natural Wood.
27. Gate Style: Custom.
28. Panel Height: 6 ft (1829 mm).
29. Panel Height: 7 ft (2134 mm).
30. Panel Height: 8 ft (2438 mm).
31. Panel Height: Custom.
32. Panel and Gate Height: 6 ft (1829 mm).
33. Panel and Gate Height: 7 ft (2134 mm).
34. Panel and Gate Height: 8 ft (2438 mm).
35. Panel and Gate Height: Custom.
36. Gate Width: 40 inches (1016 mm).
37. Gate Width: 63 inches (1600 mm).
38. Gate Width: 75 inches (1905 mm).
39. Gate Width: ___ inches (___ mm).
40. Post Cap Style: Aluminum fitted cap.
41. Post Cap Style: Pyramid cap aluminum.
42. Post Cap Style: Pyramid Hip ASA resin.
43. Post Cap Style: Plateau Hip ASA resin.
44. Post Cap Style: Shallow Hip aluminum.
45. Post Cap Style: Shallow Hip aluminum with Lighting.
46. Enclosure Layout: 11 x 11 ft (3353 x 3353 mm).
47. Enclosure Layout: 11 x 11 ft (3353 x 3353 mm) Walk-in.

- 48. Enclosure Layout: 11 x 11 ft (3353 x 3353 mm) ADA Walk-in.
- 49. Enclosure Layout: 11 x 22 ft (3353 x 6706 mm).
- 50. Enclosure Layout: 11 x 33 ft (3353 x 10058 mm).
- 51. Enclosure Layout: 13 x 13 ft (3962 x 3962 mm).
- 52. Enclosure Layout: 13 x 13 ft (3962 x 3962 mm) Walk-in.
- 53. Enclosure Layout: 13 x 13 ft (3962 x 3962 mm) ADA Walk-in.
- 54. Enclosure Layout: 13 x 26 ft (3962 x 7925 mm).
- 55. Enclosure Layout: ___ x ___ ft (___ x ___ mm).
- 56. Trim and Closures: Fabricated and finished with Manufacturer's standard coating system, unless shown otherwise on 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. Provide 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.

**** NOTE TO SPECIFIER ** Delete hinge options not required.**

- 1. Hinge Type: Hold open pipe.
- 2. Hinge Type: Adjustable pipe.
- 3. Hinge Type: Plate.
- 4. Hinge Type: Barrel.

2.5 FINISHES

- A. Panel Coating: Manufacturer's standard powder coating system, factory applied.

**** NOTE TO SPECIFIER ** Delete color option not required. Contact manufacturer for minimum order sizes for custom colors.**

- 1. Color: Selected from full range of manufacturer's standard colors.
- 2. Color: Custom color paint as selected and approved by Architect.

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 Architect 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 Architect.
- C. Prior to Substantial Completion: Remove dust or other foreign matter from component surfaces; clean finishes in accordance with manufacturer's instructions.
 - 1. Clean units in accordance with the manufacturer's instructions.

END OF SECTION