

CityScapes®

ARCHITECTURAL INNOVATIONS

SECTION 10 82 10

PLANT TRELLIS SYSTEMS

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**** NOTE TO SPECIFIER **** CityScapes Inc.; Plant Trellis Systems; NatureScreen Trellises.

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

A. Plant Trellis Systems:

**** NOTE TO SPECIFIER **** Delete wire mesh and mounting options not required. The printed graphic composite material is also optional. Delete if not required.

1. Wire Mesh, Stainless Steel: Single or double layer for supporting plant growth.
 - a. Single layer of printed graphic aluminum composite material.
2. Wire Mesh, Galfan: Single or double layer for supporting plant growth.
 - a. Single layer of printed graphic aluminum composite material.
3. Frame, Extruded Aluminum: With retention groove designed to capture wire mesh on

- one or two sides. Powder coated finish.
- 4. Mounting, Wall: Powder coated wall mount brackets.
- 5. Mounting, Posts: Extruded aluminum post system. Powder coated finish.
- 6. Recommended clips, spacers, and attachment hardware.

1.2 RELATED SECTIONS

**** NOTE TO SPECIFIER ** Delete any sections below not relevant to this project; add others as required.**

- A. Section 03 30 00 - Cast In Place Concrete (concrete footings).
- B. Section 12 93 30 - Planters.
- C. Section 32 93 00 - Plants.

1.3 REFERENCES

**** NOTE TO SPECIFIER ** Delete references from the list below that are not actually required by the text of the edited section.**

- A. ASTM International (ASTM): ASTM B 221 - Aluminum and Aluminum Alloy Extruded Bars, Rods, Wire Profiles, and Tubes.
- B. The Aluminum Association, Inc. (AA): AA ADM-1516166 - Aluminum Design Manual.
- C. American Society of Civil Engineers (ASCE): ASCE 7-18 - Minimum Design Loads for Buildings and Other Structures

1.4 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 material type.
 - 1. Mesh Gauge diameter and spacing size.
 - 2. Powder-coated aluminum.
 - 3. Aluminum Composite Material with Graphics.
- D. Color Selection: Submit paint chart with full range of colors available for Architect's selection. Custom color samples available upon purchase.
- E. Shop Drawings: Indicate layout heights, component connection details, and details of interface with adjacent construction.
 - 1. Wall or ground area to be screened.
 - 2. Number of individual panels desired.
 - 3. Type of mounting System: Wall material to be attached to, direct bury of posts or surface mounted posts system.

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

- F. Print proof if graphics are required.
- G. Certification: Manufacturer's Certificate of Compliance certifying that panels supplied meet or exceed requirements specified.

- H. Closeout Submittals: Warranty documents, issued and executed by manufacturer, countersigned by Contractor.

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with a minimum of one year 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 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.

1.6 PRE-INSTALLATION CONFERENCE

- A. Convene a conference 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.

1.7 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: Keep product in original package until ready to install to protect materials and finishes during handling and installation.

1.8 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 actual openings to be screened. Indicate measurements on shop drawings fully documenting any field condition that may interfere with the screen system installation.

1.9 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.
- B. Submit shop drawings to the Contractor and obtain written approval of shop drawing from the Contractor prior to fabrication.

1.10 WARRANTY

- A. Warranty: Provide manufacturer's standard limited three (3) year warranty, starting from the date of substantial completion of the project.
- B. This warranty does not cover failure of your NatureScreen System if the Owner damages it, or if the failure is caused by improper installation. In no event shall Warrantor be liable for incidental or consequential damages.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Acceptable Manufacturer: 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/>

- B. Basis of Design: NatureScreen System and manufactured by CityScapes International Inc,

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

- C. Substitutions: Not permitted.
- D. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00.

2.2 PERFORMANCE AND DESIGN REQUIREMENTS

- A. Regulatory Requirements: Comply with requirements of building authorities having jurisdiction in Project location.
- B. Design Criteria:
 - 1. 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.
 - 2. Framing shall be designed in accordance with the Aluminum Design Manual to resist the following loading:
 - a. ASCE 7-18 - Minimum Design Loads for Buildings and Other Structures; American Society of Civil Engineers.

2.3 MATERIALS

- A. Frame: Extruded Aluminum Alloy 6005-T5; wall thickness 0.063 inches (1.60 mm).
- B. Frame Width:
 - 1. Frame Size DMT: 3 x 1 inch (76 x 25 mm).

**** NOTE TO SPECIFIER ** Optional. Delete if not required. Available for DMT style panels only.**

- a. Digitally Printed.
 - 2. Frame Size SMT: 1 x 2-5/16 inch (25 x 59 mm).

- C. Post Mount System: Extruded Aluminum Alloy 6005- T5.

**** NOTE TO SPECIFIER ** Delete wall thickness and post dimensions options not required.**

- 1. Wall Thickness: 0.090 inches (2.29 mm).
 - 2. Wall Thickness: 0.125 inches (3 mm).
 - 3. Post Dimensions: 3.5 x 3.5 inches (89 x 89 mm).
 - 4. Post Dimensions: 5.5 x 5.5 inches (140 x 140 mm).

- D. Wall Mount Bracket: Aluminum Alloy 6005- T5. Wall Thickness: 0.090 inches (2.29 mm).
1. Finish: Powder coat.

E. Metal Mesh Panels:

**** NOTE TO SPECIFIER ** Delete material, mesh wire size, and mesh grid size, options not required.**

1. Material: Galfan.
2. Material: Stainless steel.
3. Mesh Wire Size: 6 gauge. 0.192 inches (4.88 mm).
4. Mesh Wire Size: 8 gauge. 0.162 inches (4.11 mm).
5. Mesh Wire Size: 10 gauge. 0.135 inches (3.43 mm).
6. Mesh Grid Size: 2 x 2 inch (51 x 51 mm).
7. Mesh Grid Size: 2 x 4 inch (51 x 102 mm).
8. Mesh Grid Size: 1 x 3 inch (25 x 76 mm).
9. Mesh Grid Size: 4 x 4 inch (102 x 102 mm).
10. Mesh Grid Size: __ x __ inch (__ x __ x mm).
11. Maximum Single Panel Size: 60 x 120 inches (1524 x 3048 mm). Larger sizes are available with seams.

- F. Threaded Fasteners: Screws, Bolts, Nuts and Washers: Stainless steel.

2.4 FABRICATION

A. Panel Design, Style, Trim:

B. DMT and SMT Panels: Fabricated and shipped as assembled units.

Make selections below from manufacturer's full available options. Styles and design can also be custom fabricated to the customer's preferences. Accessories and decorative add-ons are optional.

1. Panel Style: Wall mount.
2. Panel Style: Post mount.
3. Panel Style: _____.
4. Panel Design:

**** NOTE TO SPECIFIER ** Keep all that apply. Delete options not required.**

- a. Straight.
 - b. Arched Top.
 - c. Cutouts.
 - d. Custom Shape.
 - e. Interior Illumination.
 - f. External Illumination.
 - g. Graphic Insert.
 - h. Custom.
5. Decorative frame Cut Out Profile: _____.

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

6. Integrated Lighting: Internal perimeter LED.
7. Integrated Lighting: LED Cantilever Downlight.
8. Integrated Lighting: Custom.

2.5 FINISHES

A. Aluminum Framing: Powder Coated finish.

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

1. Color: Selected by Architect from full range of manufacturer's standard colors.

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 in accordance with manufacturer's instructions, approved submittals, and in proper relationship with adjacent construction.
 - 1. Post Mounted NatureScreen Span Between Structural Supports:
 - a. Do not exceed 120 inches (3048 mm) without review of site specific site conditions.
 - 2. Overhead Horizontal or Inclined Panels Span Between Structural Supports: Not to exceed 60 inches (1524 mm).
 - 3. Wall Mounted NatureScreen:
 - a. Four mounting brackets per panel up to 48 x 96 inch (2438 mm) panel size.
 - b. Six mounting brackets per panel for 60 x 120 inch (1524 x 3048 mm) panel size.
 - 4. Install panels plumb and square, aligned to maintain modular grid.
 - 5. Install fasteners as shown on Drawings or according to manufacturer's requirements, whichever is more stringent.

3.4 CLEANING AND PROTECTION

- A. Do not use abrasive cleaners.
- 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.
- 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