

**SECTION 32 9447
FACTORY FABRICATED TRELLIS PANELS**

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Factory fabricated landscape trellis panel system.
- B. Posts and wall supports.
- C. Fasteners and accessories.

1.2 RELATED REQUIREMENTS

- A. Section 03 3000 - Cast-in-Place Concrete: Footings for steel posts supporting trellis panels.

1.3 REFERENCE STANDARDS

- A. ASTM A500/A500M - Standard Specification for Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes 2021a.
- B. ASTM A580/A580M - Standard Specification for Stainless Steel Wire 2018.
- C. ASTM A641/A641M - Standard Specification for Zinc-Coated (Galvanized) Carbon Steel Wire 2019.
- D. ASTM A666 - Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar 2015.
- E. ASTM A1064/A1064M - Standard Specification for Carbon-Steel Wire and Welded Wire Reinforcement, Plain and Deformed, for Concrete 2022.

1.4 ADMINISTRATIVE REQUIREMENTS

- A. Preinstallation Meeting: Conduct a preinstallation meeting one week prior to start of work of this section; require attendance by all affected installers.

1.5 SUBMITTALS

- A. See Section 01 3300 - Submittal Procedures, for submittal procedures.
- B. Product Data: Submit manufacturer's product data, standard details, details specific to this project and written installation instructions.
- C. Shop Drawings: Submit elevations and plan drawings. Indicate the following:
 - 1. Wire size and patterns.
 - 2. Panel size and layout.
 - 3. Panel frame component dimensions and thickness.
 - 4. Attachment and standoff bracket details.
- D. Verification Samples: For each product and finish specified provide two samples, 12 inches square minimum; show actual product, color, and patterns.
- E. Manufacturer's Qualification Statement.
- F. Warranty: Submit manufacturer warranty and ensure that forms have been completed in Owner's name and registered with manufacturer.

1.6 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with not less than three years documented experience.
- B. Manufacturer Representative: Ensure manufacturer representative is present during mock-up installation and at start of project installation.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Deliver products to project site in manufacturer's unopened packaging.
- B. Store products in manufacturer's unopened packaging until ready for installation. Store products covered and elevated above grade.

1.8 WARRANTY

- A. See Section 01 7000 Closeout Procedures, for additional warranty requirements.
- B. Correct defective Work within a five year period after Date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Landscape Trellis Panel System:
 - 1. The Western Group; Living Screen: www.architecturalwire.com/#sle.
 - 2. Greenscreen; www.greenscreen.com.
- B. Substitutions: See Section 01 6000 - Product Requirements.

2.2 LANDSCAPE TRELIS PANEL SYSTEM

- A. Modular panel system of prefinished hot dipped galvanized steel frame, trim and welded wire fabric infill for use as exterior climbing plant landscape feature; system includes fasteners, trim and hardware for fastening panels to freestanding posts specified in this section and exterior wall surfaces specified elsewhere.
 - 1. Panel Size: Refer to drawings.
 - 2. Wire: 10 gauge, 0.1019 inch diameter.
 - 3. Wire Grid: 3 inches.
 - 4. Truss: 3 inches deep ladder; corresponding to grid size and continuously welded to front and back grid panels.
 - 5. Panel Tolerance: 1/4 inch in width and length.

2.3 MATERIALS

- A. Fence Post: 2 inch square steel tube with post caps and factory installed inserts for mounting panels to post.
- B. Steel Wire: {rs\#1} stainless steel.
- C. Welded Wire Reinforcement: ASTM A1064/A1064M.
- D. Trim: Provide manufacturer's standard, hot-dipped galvanized steel trim described below.
 - 1. Channel Thickness: 18 gauge, 0.0478 inch.
 - 2. Channel Trim: Thickness of panel with 1 inch legs.
 - 3. Angle Trim: Thickness of panel with 1 inch legs.
 - 4. Rods: 1/4 inch diameter.
 - 5. Plates: 1/4 inch thick.
- E. Factory Applied Finish: Manufacturer's standard powder coat.

2.4 ACCESSORIES

- A. Fasteners: Manufacturer's standard stainless steel bolt, flat washer and lock washer, rust free after 300 hours when tested in accordance with ASTM B117.
 - 1. Nuts and bolts.
 - 2. Clevis.
 - 3. Miscellaneous wire.
- B. Anchor Clips and Hold Off Brackets: Manufacturer's standard; same material and finish as frame.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verification of Conditions: Examine work area with installer present.
 - 1. Verify dimensions, tolerances, and attachment methods for work in this section are properly coordinated with other work on site.
 - 2. If existing conditions are not as required to properly complete the work of this section, notify Architect.
 - 3. Do not proceed with installation until existing conditions are satisfactory.
 - 4. Verify panel system location on site.
 - 5. Locate and mark utilities to remain; mark using highly visible tags or flags; protect from damage due to subsequent panel installation.
 - 6. If panel system is located near site boundary or property line, verify panel system location on property survey.

3.2 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Anchor supports securely with allowance for thermal movement and structural support.
- C. Erect panel system square, plumb, straight and accurately fitted with tight joints.
- D. Do not install warped, bowed, dented, abraded, broken or otherwise defective components. Do not install components with damaged factory applied coatings.
- E. Do not cut, trim, weld or braze components during erection. Return parts that require alteration to shop for refabrication or for replacement with new parts.
- F. Separate dissimilar metals and use gasketed fasteners or other isolation method to prevent corrosive or electrolytic action between metals.

3.3 PROTECTION

- A. Protect installed panel system from subsequent construction operations.
- B. Touch-up, repair or replace damaged products.

ISSUED	DATE
CONSTRUCTION DOCUMENTS	09/21/2022
ADDENDUM NO. 2	01/13/2023

END OF SECTION