

# THE WESTERN GROUP

## SECTION 10 82 00 – TREILLAGE

Section title and number above are recommended for data filing and for permanently mounted installation; those below are for optional usage. Titles and numbers comply with MasterFormat 2004.

## SECTION 32 31 00 – FENCES

## SECTION 32 35 00 – SCREENING DEVICES

### PART 1 GENERAL

#### 1.1 SECTION INCLUDES

- 1 Trellis
- 2 Fence and Gates
- 3 Exterior/Interior Landscape Panels.

#### 1.2 RELATED SECTIONS

- 1 Section 03 30 00 - Cast-in-Place Concrete.
- 2 Section 10 22 13 – Wire Partitions.
- 3 Section 32 31 \_\_ - Fence and Gates
- 4 Section 32 35 00 – Screening Devices
- 5 Section 32 93 00 – Plants

#### 1.3 REFERNCES:

- A. ASTM A500 – Cold-Formed Welded and Seamless Carbon Steel Structural Tubing in Rounds and Shapes.
- B. ASTM A82 – Mechanical, Physical and Performance Properties of Carbon Steel Wire
- C. ASTM A641 – Zinc-Coated (Galvanized) Carbon Steel Wire
- D. ASTM A879 – Steel Sheet, Zinc Coated by the Electrolytic Process for Applications Requiring Designation of the Coating Mass on Each Surface.
- E. ASTM B117 – Operating Salt Spray (Fog) Apparatus.
- F. ASTM A856/ A856M – Zinc – 5% Aluminum Mischmetal alloy coated steel wire.
- G. ASTM A123 – Hot Dip Galvanizing on Steel Products.

#### 1.4 SUBMITTALS

- 1 Submit under provisions of Section 01 33 00.
- 2 Product Data: Submit manufacturer's product data, standard details and installation instructions.
- 3 Shop Drawings: Submit drawings indicating the following:
  1. Wire series and pattern name.
  2. Panel sizes.
  3. Panel thickness.
  4. Attachment bracket details.
- 4 Verification Samples: For each finish product specified, two samples, minimum size 12 inches square, representing actual product, color, and patterns.
- 5 Manufacturer's Certificates: Certify products meet or exceed specified requirements.

#### 1.5 QUALITY ASSURANCE

- 1 Manufacturer Qualifications: Firm with domestic design, manufacturing and delivery capacity required for project. Shall have successfully completed projects within the past 3 years of similar size, complexity, and utilizing similar systems.
- 2 Installer Qualifications: Experienced in performing work of this section that has specialized in installation of work similar to that required for this project.

**\*\*NOTE TO SPECIFIER\*\*** Use this paragraph only if installation is to be part of a single source requirement for the project. Installation by others with material supplied by TWG.

- 3 Mock-Up: **(If Required)** Provide a mock-up for evaluation of preparation techniques and installation workmanship.
  1. Locate in areas designated by Architect.
  2. Size: Minimum of \_ LF.
  3. Do not proceed with remaining work until materials and workmanship is approved by Architect.
  4. Rework mock-up as required to produce acceptable work.
  5. Retain mock-up during construction as quality standard.
  6. Remove and legally dispose of mock-up when no longer needed.
  7. Incorporation: Incorporate mock-up into final construction.
- 4 Preinstallation Meetings: **(If Required)** Conduct meeting including Contractor, Architect, manufacturer, installer and other subcontractors whose work involves metal grille and screen systems to verify project requirements, framing and support conditions, mounting surfaces and manufacturer's installation requirements.
- 5 Manufacturer's Representative: **(If Required)** Manufacturer to provide on-site assistance during mock-up installation as well as initial stage of project installation.

#### 1.6 DELIVERY, STORAGE, AND HANDLING

- 1 Store products in manufacturer's unopened packaging until ready for installation.
- 2 Store products wrapped or otherwise protected and under clean and dry storage conditions until required for installation.

## 1.7 COORDINATION

- 1 Coordinate fabrication of metal mesh with fabrication of work on or in which the panels will be installed.
- 2 Providing final size measurements to manufacturer in time to avoid delay in the construction schedule.

## 1.8 ENVIRONMENTAL REQUIREMENTS

Contact manufacturer before specifying recycled content to verify current raw material availability.

1. Recycled Materials: Steel components shall contain less than [\_\_\_\_] percent recycled materials content.

Panels are fabricated in DuPont WA, located 47 miles south west of Seattle, WA. If the project is located more than 500 miles from the plant, delete the following.

2. Panels shall be manufactured and fabricated within 500 miles of Project location.

## PART 2 PRODUCTS

### 2.1 MANUFACTURERS

- 1 Acceptable Manufacturer: The Western Group (TWG), Living Screen which is manufactured at: 3250 International Place; DuPont, WA 98327; Toll Free Tel: 866-283-4594; Tel: 253-964-6201; Fax: 253-964-0174; Email: [request info](mailto:request info); Web: [www.architecturalwire.com](http://www.architecturalwire.com)
- 2 Substitutions: Not permitted.
- 3 Requests for substitutions will be considered in accordance with provisions of Section 01600.

### 2.2 MATERIALS

- 1 Living Screen Panel Pattern:
  - a. Material: (Select from Finishes Below)
  - b. Width and Length: W x L or (Refer to drawings).
  - c. Grid Type:
  - d. Truss size: \_\_\_\_-inch deep. Truss is to be a ladder of corresponding size to the grid that maintains continuous contact with and welded to both front and back grid panels.
  - e. Wire Gauge: 10-gauge.
  - f. Tolerance: 1/4 inch in width and 1/4 inch in length.

#### B. Finishes:

1. Steel:
  - a. Mill.
  - b. Primer.
  - c. Powder Coated Finish.
  - d. Paint:
    - 1) Refer to drawings for finish color.

2. Galvanized Steel (Galfan):
  - a. Primer over Galvanizing.
  - b. Powder Coated Finish.
  - c. Paint:
    - 1) Refer to drawings for finish color.
  
3. Stainless Steel, Type 304/ Type 316:
  - a. Satin polish.
  - b. Mirror polish.
  - c. Powder Coated Finish.
  - d. Paint:
    - 1) Refer to drawings for finish color.
  
4. Hot Dip Galvanized
  - a. Standard Finish.
  - b. Powder Coated Finish.
  - c. Paint:
    - 1) Refer to drawings for finish color.

### 2.3 FABRICATION

- A. Fabricate Living Screen panels in accordance with approved shop drawings.
- B. Fabricate compatible attachment system to satisfy structural and performance requirements.

### 2.3 ATTACHMENT SYSTEMS

#### A ANCHOR CLIPS

- 1 Attachment System: Custom system as indicated on the Drawing.
- 2 Attachment System: TWG standard attachment system as indicated on Drawing.

Post imbed length and footing size should be determined based on overall height, spacing, wind load, soil conditions, and type of footing. Detail footing on drawings.

- B Fence Post: \_\_\_-inch [diameter ASTM A500] [square ASTM A500B] steel tube with post caps. Nutserts to be factory installed for mounting panels to post.
- C Fasteners for Mounting Panels to Fence Posts: Type 410 stainless steel bolt, flat washer and lock washer, free from rust when salt spray tested for 300 hours in accordance with ASTM B117.

#### D TRIM

1. Fabricate from 16 - gauge (Finish) steel.
2. TYPES
  - A. Channel Trim: Thickness of Panel x 1" legs.
  - B. Angle Trim: \_\_\_ leg x thickness of panel x \_\_\_ leg.
3. LOCATIONS
  - A. Top of Treillage (where Exposed to Pedestrians): [[Angle] [Channel] type.] [None]

- B. Side of Treillage (where Exposed to Pedestrians): [[Angle] [Channel] type.]  
[None.]
- C. Bottom of Treillage (where Exposed to Pedestrians): [[Angle] [Channel] type.]  
[None.]

### PART 3 EXECUTION

#### 1.2 EXAMINATION

- A. Do not begin installation until openings and substrates have been properly prepared to receive the products of this section.
- B. Verify dimensions, tolerances, and method of attachment with other work on-site.
- C. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

#### 1.3 PREPARATION

- A. Clean surfaces thoroughly prior to installation.

#### 1.4 INSTALLATION

- A. Install in accordance with manufacturer's instructions.
- B. Provide suitable means of anchorage acceptable to manufacturer such as dowels, anchor clips, bar anchors, expansion bolts and shields, and toggles.
- C. Anchor supports securely with allowance for necessary thermal movement and structural support.
- D. Erect metalwork square, plumb, straight, and true, accurately fitted, with tight joints and intersections.
- E. Do not install component parts that are observed to be defective, including warped, bowed, dented, abraded and broken members.
- F. Do not cut, trim, weld or braze component parts during erection in manner that would damage finish, decrease strength, or result in visual imperfection or failure in performance. Return component parts that require alteration to shop for refabrication, if possible, or for replacement with new parts.
- G. Separate dissimilar metals and use gasketed fasteners, isolation shim, or isolation tape to eliminate possibility of corrosive or electrolytic action between metals.

#### 1.5 PROTECTION

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Substantial Completion.

#### 1.6 SCHEDULES

- A. Schedule:

END OF SECTION

**\*\*NOTE TO SPECIFIER\*\* Remove any sections not applicable to the project. If additional information is required to complete the specification please contact your TWG representative for assistance.**