

Guide Specification
Section 097753 Vegetated Wall Systems

Tournesol VGP™ Tray-Based Living Wall System

1.0 GENERAL

1.1 WORK INCLUDED

- A. Provision and installation of living wall planting trays, panel and irrigation systems as shown in Drawings.

1.2 RELATED WORK

- A. Section 221100 Facility Water Distribution
- B. Section 328400 Planting Irrigation
- C. Section 329000 Planting
- D. Section 033000 Cast-in-Place concrete
- E. Section 061000 Carpentry
- F. Section 076000 Sheet Metal

1.3 SUBMITTALS

- A. Product Data: Manufacturer's standard catalog data sheets, standard product details as required for installation and integration with other work.
- B. Shop Drawings: For custom products only, showing critical sizes and dimensions for installation and integration with other work.

1.4 DELIVERY, STORAGE AND HANDLING

- A. Inspect Tournesol VGP™ tray-based living wall system packaging after delivery for signs of damage during transit. Confirm correct quantity and sizing of components prior to installation process.
- B. Protect Tournesol VGP™ tray-based living wall system packaging from damage during storage and handling.
- C. Store living wall trays and panel unassembled, in their original packaging.

1.5 PROJECT CONDITIONS

- A. Contractor to confirm that the wall behind the living wall system be water tight.
- B. Engineer shall certify that the structure is capable of bearing the load of a modular living wall system.
- C. Contractor to provide adequate structural support for planting rails.
- D. Protect installed panels from damage by adjacent work.
- D. Planted Tournesol VGP™ trays should be placed on building only after substantial completion of project to protect plants.

2.0 PRODUCTS

2.1 ACCEPTABLE PRODUCTS/MANUFACTURERS

- A. Tournesol VGP™ living wall planting trays and panels, manufactured by Tournesol Siteworks LLC. 30955 San Antonio St., Hayward, CA 94544 Tel: (800) 542-2282 FAX (510) 471-6243 tournesolsiteworks.com

2.20 LIVING WALL TRAYS

- A. Materials – All trays shall be constructed of 100% post-consumer recycled black polypropylene.
- B. Construction – Trays shall be self-contained, with 6 individual mounting points on the back. Each tray shall consist of a drainage tray with overflow drain and sub-irrigation option, planting area, irrigation baffle and tamper-resistant clips. Each unit shall drain into the baffle of the unit below.
- D. Finish: Black factory finished.
- E. Sizes: Trays to be 7-5/8" w x 8-1/8" h x 7-1/2" d. Trays shall have a planting volume of 110 cu. in. or .47 gal.

2.21 LIVING WALL SYSTEM MOUNTING PANEL

- A. Materials – Panels shall be constructed of 100% post-consumer recycled black polypropylene.
- B. Construction – Panels will accommodate two different tray spacing, either 12 or 8 trays per panel. Panel shall support tray at each of the 6 mounting points, and be of sufficient strength to support a 250lb. load. Panel shall allow for one anchor to attach up to four panels, and include removable shims molded on panel to support corners when fewer than four panels are attached.
- D. Finish: Black factory finished.
- E. Sizes: 16-1/2" w x 36-3/8" h x 7/8" d.

2.3 LIVING WALL SYSTEM ACCESSORIES

- A. Alternative Mounting System – VGP trays may be mounted on 3" h x 2" w welded wire mesh. Mesh must be designed to support 5lb. load between weld points.
- B. Panel Anchors – specification by engineer, depending upon the wall construction and local codes. Nominal anchor size 1/4".
- C. Irrigation – design by others. Typical installation utilizes drip irrigation system, with filter, pressure reducer, controller, fertilizer injection assembly. Main tubing running vertically between trays on panel, with drip emitters located at each course of modules. Route drip tubing from emitter on hose into baffle at top of tray.
- D. Planting Media – specification by others, depending upon location and available components. Typical media utilizes lightweight 93% inorganic mix, largely of calcine clay, expanded slate, sand, perlite or vermiculite. Maximum saturated weight should be less than 50 lbs/cu. ft. Additional water retention materials may be added as required.

3.0 EXECUTION

3.1 PREPARATION

- A. The living wall trays should be transported, unassembled, to the nursery or location where they will be planted and grown in. Trays should be grown-in in the nursery for 1-3 months. Proper grow-in is essential for immediate lush full appearance.
- B. Contractor to inspect the mounting location, to determine correct positioning of panels and irrigation plumbing. Verify anchors specified will support load, and that wall is sufficiently prepared for Tournesol VGP™ system.

3.2 INSTALLATION

A. Mount panels on building or steel structure, starting with corner panel. Only one anchor is required at each corner – panels have overlapping mounting points. For those locations that use fewer than four trays, snap off u-shaped shims from panel and use to support corners. Mounting points should not be unsupported against wall.

B. Install irrigation system per plans and specifications prior to mounting planted VGP™ trays.

C. Transport planted trays to project site, then hang on panels according to drawings. Start with lowest course, work towards top. Place irrigation emitters and tubing as each row is installed.

D. Install surround for system, as per plans and specifications.