

Guide Specification

TerraScreen™ Interior Greenwall System

1.0 GENERAL

1.1 WORK INCLUDED

A. Provision and installation of interior greenwall panel, hangers, cachepots, and irrigation systems as shown in Drawings.

1.2 RELATED WORK

- A. Section 02660 Water Distribution
- B. Section 02810 Irrigation System
- C. Section 02900 Landscaping
- D. Section 03300 Cast-in-Place concrete
- E. Section 06100 Carpentry
- F. Section 07600 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 TerraScreen™ greenwall system packaging after delivery for signs of damage, bending, or crushing during transit. Confirm correct quantity and sizing of components prior to installation process.
- B. Protect Tournesol VGM greenwall system packaging from damage during storage and handling.
- C. Store greenwall panels unassembled, in their original packaging. Care should be taken to protect pre-installed irrigation systems from damage prior to installation. If panels are installed prior to final assembly, store hangers and cachepots separately in their original packaging in clean, dry condition.

1.5 PROJECT CONDITIONS

- A. Contractor to confirm that the wall behind the greenwall system be water tight.
- B. Engineer or contractor shall certify that the structure is capable of bearing the load of a greenwall system.
- C. Contractor to provide adequate structural support for panel system.
- D. Protect installed units from damage by adjacent work.
- D. Plants should be installed in TerraScreen™ only after substantial completion of project to protect plants.

2.0 PRODUCTS

2.1 ACCEPTABLE PRODUCTS/MANUFACTURERS

- A. TerraScreen™ interior greenwall system panels, hangers and cachepots, manufactured by Tournesol Siteworks LLC. 30955 San Antonio St., Hayward, CA 94544 Tel: (800) 542-2282 FAX (510) 471-6243

2.20 GREENWALL SYSTEM

- A. Materials – All panel and hanger elements shall be constructed of galvanized, powder coated steel wire. Cachepots shall be of durable construction polypropylene.
- B. Construction – Panels will be welded, galvanized, then powder coated. Panel mounting bracket shall be attached prior to galvanizing. Construction should allow for cachepots to hang from panel at approx. 45° angle.
- D. Finish: black powder coated.
- E. Sizes: Panels to be 49”w x 49”h x 4-5/8”h or 49”w x 70”h x 4-5/8”h. Custom sizes may be created by modifying standard unit or fabricated as required.

2.21 GREENWALL SYSTEM IRRIGATION

- A. Materials – All tubing to be flexible PVC and PP. Tubing under pressure to be braided for strength.
- B. Construction – All irrigation tubing will be securely fastened to panel, tubing will include tubing clamps to prevent leaking. Multi-outlet emitters will be pressure-compensating 2GPH, with tubing specifically routed to cachepot locations. Cachepots will have leakproof rubber grommets for secure tubing connection.
- D. Finish: Black components
- E. Sizes: To fit greenwall panels.

2.3 GREENWALL ACCESSORIES

- A. Wall Anchors – specification by engineer, depending upon the wall construction and local codes.
- B. Side Covers – black, powder-coated sheet metal side covers to hide cachepots, to be attached with screws to edge of TerraScreen™ panels.
- C. Catch Basin – black FRP catch basin with no holes to collect any drippage, plant detritus. 48”L x 12”W x 18”H, or other length depending upon panel configuration.
- D. Lights – by others, to coordinate with electrical contractor as required.
- E. Signage – as per plans and specs. Conventional signage available from manufacturer, provide with requirements at time of estimate.
- F. TerraScreen Stand – 1” tube steel powder coated black stand for one or two TerraScreen panels. Double-sided stand has feet extending 12” on either side of the 69”H stand. Single-sided stand has feet extending 18” towards front, 6” towards back. Top of TerraScreen (either 49” or 70”) will be 76” off floor. Legs will have provision to raise stand an additional 6”
- G. Wicking element – to ensure plant is able to access water poured into cachepot, each TerraScreen will include as many felt wicking elements as there are cachepots. Wicking element to be fabricated of 3/8” thick x 4”L rigid felt.

3.0 EXECUTION

3.1 PREPARATION

- A. The wall area to be greened should be painted black to minimize reflected light behind greenwall. Exposed wallboard should be waterproofed to prevent potential damage.
- B. Contractor to inspect the mounting location, to determine correct positioning of mounting rails, anchor locations. Verify anchors specified will support load, and that wall is sufficiently prepared for TerraScreen™ system.

3.2 INSTALLATION

- A. Mount panel on walls, using 4 anchor bolts. Use first panel location to determine further panels.

- B. Place hangers in grid locations, typically alternative spaces.
- C. If using irrigation system, identify tube sets that correspond with hanger locations. Place cachepots, pushing tubing through grommet on wall of cachepot. Start with lower cachepots, work towards top. Connect irrigation system, run test, looking for leaks.
- D. If not using irrigation system, place cachepots into hanger locations.
- E. Place 6" plants into cachepots, inserting one wicking element into the bottom of each 6" nursery pot.