

Guide Specification
Section 328400 Planting Irrigation
Section 129333 Manufactured Planters
Section 129200 Interior Planters

CWM™ Modular Container Irrigation Systems

1.0 GENERAL

1.1 WORK INCLUDED

- A. Provision of CWM Modular Container Irrigation System units.
- B. Provision of connection materials – Hoses, Clamps, Fittings

1.2 RELATED WORK

- A. Section 329000 Planting
- B. Section 129333 Manufactured Planters
- C. Section 128200 Interior Planters

1.3 SUBMITTALS

- A. Product Data: Manufacturer's standard catalog cut sheets and planting instructions.
- B. Samples: Material sample as required for size and fit confirmation only.

1.4 DELIVERY, STORAGE AND HANDLING

- A. Inspect CWM units after delivery for signs of damage during transit.
- B. Protect units from damage during storage and handling.
- C. Store units in their original packaging. Do not expose units during storage to temperatures where material will exceed 150° F.

1.5 PROJECT CONDITIONS

- A. Protect units from damage by adjacent work.

1.6 MAINTENANCE

- A. Prior to project completion, provide manufacturer's instructional video, planting and maintenance instructions to maintaining contractor to insure correct installation and maintenance of the planters.
- B. After planting, CWM units' reservoirs are to be topped off as required (typically every 2-3 weeks). Do not allow reservoirs to run dry.

2.0 PRODUCTS

2.1 ACCEPTABLE PRODUCTS/MANUFACTURERS

- A. CWM™ Modular Container Irrigation System, manufactured by Tournesol Siteworks, 30955 San Antonio St., Hayward, CA 94544. (800)542-2282 fax (510)471-6243. info@tournesolsiteworks.com

2.2 CWM MODULAR CONTAINER IRRIGATION SYSTEM

- A. Type: Self-contained, modular units with integral air- and watertight reservoir requiring no irrigation or drainage lines. Vacuum sensor system to control release of water from bottom of unit into the root zone. Water reservoir sized to maintain plants

for up to 2-4 weeks. Each system to have minimum of one sensor and one fill unit, up to four secondary units. Modules connected with two sets of flexible PVC tubing.

- B. Material: linear low-density polyethylene
- C. Color: Integral black color
- D. Sizes: See CWM cut sheet for exact dimensions - to drop into existing planter.

2.3 ACCESSORIES (OPTIONAL):

- A. Bioguard Root Control Fabric: To prevent plant roots clogging the inlet holes, leading to premature failure of system. Bioguard is EPA-registered root control fabric coated with Trifluralin, a herbicide that prevents root cell division. Bioguard cut into 3" squares by Planter Technology, Inc.
- B. Drainage Overflow Adapter: Overflow adapter to be sealed over drain hole of planter. Requires container to be sealed. Typically 4"h, to allow container to catch all irrigation run-off, but allow rain water to escape. Installed in field by contractor.
- C. Changeable Parts: Tamper-resistant stopper, one sided grommet, sensor tube. All parts shall initially included with CWM units and shall be removable and replacable.
- D. Braided PVC tubing for connecting units. 3/4"ID for lower connection, 1/4"ID for upper connection
- E. Quick-Snap acetal hose clamps for PVC connections. Prevents corrosion of clamps, ease of change.
- F. Plastic elbow fittings for square and rectangular containers. Prevents kinking of hose.

3.0 EXECUTION

3.1 PREPARATION

- A. Prior to order, the contractor shall verify size, location and quantity of CWM units required.¹

3.2 INSTALLATION

- A. Refer closely to manufacturer's planting instructions.
- B. Install Drainage Overflow Adapter (when used) prior to installing CWM units.
- C. Ensure that PVC connecting tubes are secured with hose clamps.
- D. Trim fill tube to rise up approx. 1" higher than the level of the soil. Angle fill tube when possible. Tube requires some minor assembly.
- E. Install level to permit correct functioning. Allow access to water inlet.

¹ Field verification of plant size, and fit into decorative containers is frequently overlooked by the contractor, and can lead to delays and additional cost if neglected.