

Guide Specification

Section 073300 Vegetated Roof Systems

GRT3 Modular Green Roof Trays

1.0 GENERAL

1.1 WORK INCLUDED

- A. Provision of modular green roof trays

1.2 RELATED WORK

- A. Section 075000: Membrane Roofing Systems.
- B. Section 329000: Planting

1.3 SUBMITTALS

- A. Product Data: Manufacturer's standard catalog cut sheets.
- B. Samples: As required for custom applications only.
- C. Shop Drawings: For custom applications, showing critical sizes and dimensions for installation and integration with other work.

1.4 DELIVERY, STORAGE AND HANDLING

- A. Inspect modular green roof trays after delivery for signs of damage during transit.
- B. Protect modular green roof trays from damage during storage and handling.
- C. Store modular green roof trays indoors, in their original packaging. Do not expose thermoplastic modular green roof trays to temperatures during storage where material will exceed 150° F. Do not stand in or walk on modular green roof trays.
- D. If modular green roof trays are delivered in pre-planted condition, care must be given to maintain plants prior to installation, including proper watering, protection from site damage, and protection from untoward atmospheric conditions.

1.5 PROJECT CONDITIONS

- A. Roofing contractor to determine adequacy of the roof surface for modular green roof modules.
- B. Owner/Structural Engineer to verify load carrying capability and waterproof integrity of existing roof structure and membrane.
- C. Protect units from damage by adjacent work.

2.0 PRODUCTS

2.1 ACCEPTABLE PRODUCTS/MANUFACTURERS

- A. GRT3 Modular green roof trays, manufactured by Tournesol Siteworks, 30955 San Antonio St., Hayward, CA 94544 Tel: (800) 542-2282 FAX (510) 471-6243 info@tournesolsiteworks.com

2.2 MODULAR GREEN ROOF TRAYS

- A. Material: Black, high density polyethylene, minimum 60% recycled material content. Typical starting thickness 150 mil for 4" trays, 175 mil for 8" trays. Each tray to have bottom covered with pre-installed non-woven drainage/rootblock fabric.
- B. Construction: Unibody leakproof construction with drainage channels and overflow drain holes.
- C. Finish: black matte finish.
- D. Sizes: available in 24" square and 48" long x 24" wide modules, either 4" or 8" deep. Custom fabricated sizes if necessary.

3.0 EXECUTION

3.1 PREPARATION

- A. Prior to planter liner fabrication, the contractor shall verify as-built dimensions of area for proper sizing/quantities. For custom applications, contractor to provide manufacturer with templates for custom configurations.
- B. Roofing membrane should be covered with slip sheet prior to installing modules.
- C. Modular green roof trays should have engineered growth medium and plants preplanted, prior to being transported to the roof installation site. Plants may be allowed to mature in trays prior to installation.

3.2 INSTALLATION

- A. Set fully planted modular green roof trays in place to allow for easy removal if necessary.
- B. Provide continuous basal support.
- C. Install trays level to permit adequate drainage and irrigation.
- D. Tray connection elements may be installed with self-tapping screws, once trays are in place.
- E. Install edging and pavers during layout of overall system.
- F. Water planted modular trays once installation is complete to ensure opportunity for plants to grow.