

Planters Unlimited Fiberglass Planters & Furnishings Guide Specifications

(Section 129300 Site Furnishings)

Section 129300 Site Furnishings
Section 129200 Interior Planters
Section 129333 Manufactured Planters

1.0 - GENERAL

1.1 - SCOPE OF WORK INCLUDED

- A. Provision of fiberglass planters, planter liners & powder coated mounting brackets

1.2 - SUBMITTALS

- A. Product Data: Standard & Custom Planter Cut Sheets
- B. Samples: As required for color selection or material thickness. All standard colors and finishes are available using current dye lots.

1.3 - DELIVERY, STORAGE AND HANDLING

- A. Unwrap and inspect planters and liners upon delivery for damage during transit and report it to us as soon as possible.
- B. Store planters and liners in a protected area until installed and take precautions to avoid damage while handling them.

1.4 - PROJECT CONDITIONS

- A. The entire base of the planter is to be supported. If elevating the planter on intermittent pedestals additional planter reinforcing may be required.
- B. Plant selections must be made ensuring the expected mature root ball size does not exceed the capacity of the specified planter.

2.0 - PRODUCTS

2.1 - ACCEPTABLE PRODUCTS/MANUFACTURERS

- A. Fiberglass Planters and Liners manufactured by
Planters Unlimited.
6056 Corte Del Cedro, Carlsbad, CA 92011
Tel: 888-320-0626
Email: sales@plantersunlimited.com

2.2 - FIBERGLASS PLANTERS AND LINERS

- A. Materials – All parts shall be constructed of glass fiber-reinforced polyester resin using either a spray-layup or a hand-layup method.
1. Glass Content, average 33%
 - a. Glass fibers to be Owens Corning or equivalent
 - b. Hand layup methods to utilize chopped strand mat
 - c. Spray layup methods to utilize glass fiber lengths between 0.5” and 0.75”
 - d. Minimum 4.5 oz. density
 2. Resin Content 67%
 - *Resins can be either
 - a. Polyester Resins from a reputable domestic manufacturer
 - b. Flame Retardant Polyester Resins from a reputable domestic manufacturer
 - *Flame Spread: 25 or less
 - *Smoke Density: <450
 - *ASTM E84: Class 1
 - *Not normally required on free-standing planters
- B. Paints & Finishes–
1. Premium Sherwin Williams Polyurethane Enamel Coatings are used for all standard and custom colors. These non-photoreactive paints have high resistance to chemical staining, impact, scratching, and abrasion while providing a finish without orange peel.
 - a. All colors are available in matte, semi-gloss, gloss, or sand-coated finishes.
 2. ArmoreCoat real metal coatings combine real powdered metal thoroughly blended with proprietary resins. This consists of atomized metal mixed with polyester resin and applied over the prepared surface.
 3. Painted finishes are to be applied over a surface that has been sufficiently prepared to prevent orange peel.
- C. Drainage –
1. Planters and liners are to be specified with standard drainage or no drainage.
 - a. Standard Drainage - Standard drainage consists of the appropriate quantity of 3/8” holes drilled near the planter pads to provide good airflow under the planter and help prevent surface damage to the subfloor.
 - b. No Drainage- All live plants require drainage. Specifying planters without drainage will require on-site contractors to drill custom drainage matching the project drainage system.
- D. Construction –
- Planters shall be fabricated by molded or hand-layup methods. Planter walls shall be no less than 1/8” thick at the thinnest point, with appropriate FRP stiffeners, supports, and cross reinforcement as needed to prevent deformation. Due to the lack of fillers in our FRP, planters can be made waterproof without the addition of sealing agents.
- E. Minimum Performance –
1. Hardness, Barcol: 48-52
 2. Product density: 130 PCF
 3. Compressive Yield Strength: >25,000 psi.
 4. Tensile Strength: 12,000 psi.
 5. Flexural Yield Strength: 26,300 psi.
 6. Shear Strength: 7,500 psi.
 7. Modulus of Elasticity: 1000 KSI

8. Vertical wall panels will deform less than the length of the planter divided by 250 (L/250) when filled with 85 lb/cbft soil.

F. Sizes –

1. Standard sizes are 120inLx36inWx42inH, 96inDx42inH, or under. Specify the exact Length x Width x Height or Diameter x Height to a 1/4" tolerance.
2. Custom sizes are limited only by LTL and FTL shipping restrictions.
 - a. If long runs of planters cannot be completed in a single run, modular planters shall be sized to attach via bolting during installation.
3. Custom shapes such as radial curves, ovals, sloped bottoms, sloped tops, and freeform shapes require accurate on-site measurements and review of manufacturer-produced cut sheets.

2.3 - PLANTER ACCESSORIES / CUSTOM OPTIONS

- A. Watering Reservoirs
- B. Wall Hanging Systems
- C. Hidden Locking or Non-Locking Casters
- D. Forklift Knockouts
- E. Trellis & Trellis Attachment Systems
- F. False Bottoms
- G. Removable Liners
- H. Integrated Benches & Seating
- I. Electrical Outlets and USB chargers
- J. Integrated Benches & Seating
- K. Toe-Kick & Pathfinding Lighting
- L. Coordinating Refuse & Trash Urns

3.0 - EXECUTION

3.1 - PREPARATION

- A. Before the production of planters, the contractor must verify the dimensions of the planter area to ensure proper fit.
- B. Plan for delivery labor appropriate to your products and delivery site. If a forklift is not available, it may require several laborers to unload large planters.
- C. Consider limited access issues in getting large planters from the delivery staging area to the install site. Stairways, elevators, and doorways can be limiting factors. Craning large planters into limited-access spaces is not uncommon.

3.2 - INSTALLATION & CARE

- A. Handle planters with care and avoid standing or stepping on them. Planters are much more durable when filled with soil than when empty.
- B. Continuous base support is recommended. Use Shims as needed.
- C. Install planters on level ground unless specified to accommodate a slope.
- D. Painted fiberglass items can be cleaned by spraying them off with a standard pressure garden hose. For accumulated grime, wipe clean with a microfiber rag and a neutral PH soap. Contact us if the planter will not come clean using the methods listed.
- E. Touch-up kits can be provided at no charge in the event of scratches/minor damage.