

Fiberglass Parts and Planter Liners

Specifications

1.0 General

1.1 Work Included

- A. Provision of fiberglass parts and/or the provision and installation of custom fiberglass planter liners.

1.2 Related Work

- A. Section 03300 Cast-in-Place concrete
- B. Section 04200 Masonry
- C. Section 06100 Rough Carpentry
- D. Section 06200 Finish Carpentry

1.3 Submittals

- A. Product Data: Manufacturer's standard catalog cut sheets.
- B. Samples: As required for color/finish selection or material thickness.
- C. Shop drawings for custom planter liners as necessary, showing critical sizes and dimensions for installation and integration with other work.

1.4 Delivery, Storage and Handling

- A. Contractor to inspect fiberglass parts and/or planter liners after delivery for signs of damage during transit.
- B. Contractor to protect fiberglass parts and/or planter liners and components from damage during storage on job-site.

1.5 Project Conditions

- A. Contractor to provide adequate structural support for fiberglass parts and/or planter liner units.
- B. Contractor to protect fiberglass parts and/or planter liners from damage by adjacent work.

2.0 Products

2.1 Acceptable Manufacturers

- A. Fiberglass Planters and Fiberglass Planters Liners manufactured and installed by:
 - Old Town Fiberglass, Inc.
 - 456 South Montgomery Way
 - Orange, CA 92868-4015
 - Tel: 714.633.3732
 - Fax: 714.633.3917
 - E-mail: Info@OldTownFiberglass.com
 - On-line: OldTownFiberglass.com

2.2 Fiberglass Parts and Custom Fiberglass Liner Construction

- A. Materials: All parts shall be constructed of glass fiber reinforced polyester resin.
 - 1. Glass fibers shall be Owens Corning or equivalent, 1/2" to 3/4" long.
 - 2. Polyester resin shall be compounded by a reputable manufacturer.
 - 3. Glass matting shall be Owens Corning or equal with a chrome finish.
 - 4. Gelcoat shall be Revchem Plastics, Inc. in specified color.
- B. Construction: fiberglass parts, planter liners or liner components shall be fabricated by the spray laminate method using suitable molds to attain the desired surface finish. The finished reinforced plastic material shall be not less than 5/32" thick and thicker in those areas requiring additional structural strength. Where ribs or stiffeners are to be fabricated to planter or liner sections by spray laminating over premolded forms, the stiffeners or ribs shall be located and spray laminated into position before the section to which they are to be attached has passed the gel state of curing and the finished joint shall be strong and durable.

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Specifications (Continued)

- C. Performance characteristics and capacities: Finished planter and planter liner to meet the following minimum performance standards:

Ultimate flexural strength, psi	16,500
Ultimate tensile strength, psi	8,500
Flexural modulus, psi	620,000
Tensile modulus, psi.	630,000
Compressive strength, psi	23,000
Glass content, average	35%
Barcol hardness	80
- D. Fiberglass part finish: semi-gloss, smooth matte, sand or orange peel gelcoat in 21 standard or custom colors.
Liner finish: natural fiberglass with option of on-site spraying of exposed surfaces
- E. Sizes: Standard or custom fabricated sizes to match existing sizes and configurations.
- F. Fire-retardant properties can be added upon request.

2.3 Planter and Planter Liner Accessories

- A. Field installed drainage and irrigation systems and/or "Perforated Sub-Floor" as specified.

3.0 Execution

3.1 Preparation

- A. Prior to planter liner fabrication, Contractor shall verify as-built dimensions of planter area or receptacles to ensure proper size, fit and quantity required.
- B. Contractor to ensure that supporting structure is adequate for the weight of the planter and/or planter liner and the contents including: vegetation, soil, and irrigation water. Weight calculations should consider a "worst case scenario" when a drain may become plugged and the planter or liner fills with rain or irrigation water. To calculate the weight of a planter filled with water determine the total volume of the planter or liner in cubic feet and multiply by 62.5 lbs./cubic foot. Add this weight to the weight of the planter and the weight of the vegetation (at maturity) to be planted.
- C. Contractor to provide holes in adjacent structure to allow for drain and irrigation supply lines as required. Old Town Fiberglass will coordinate.

3.2 Installation

- A. Install planters and/or planter liners permanently or to allow for easy removal if necessary.
- B. Install planters and/or liners to permit adequate drainage and irrigation.
- C. Contractor to provide flashing if specified—Old Town Fiberglass will coordinate.
- D. Contractor to provide plumbing connections to supply and drain lines as required.
- E. Contractor to conduct comprehensive water test to ensure the integrity of the planter and/or liner and all plumbing fittings and lines.

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