

SECTION 12 93 33

PREFABRICATED EXTERIOR PLANTERS

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**\*\* NOTE TO SPECIFIER \*\* Terracast® Products LLC; Prefabricated exterior planters.
This section is based on the products of Terracast® Products LLC, which is located at:
4400 N. W. 19th Ave. Suite K
Pompano Beach, FL 33064
Tel: 305-895-9525
Email: [request info (info@terracastproducts.com)](http://admin.arcat.com/users.pl?action=UserEmail&company=Terracast%26reg;+Products+LLC&coid=48063&rep=&fax=&message=RE:%20Spec%20Question%20(02870ter):%20%20&mf=" \t "_blank)Web: [www.terracastproducts.com](http://www.terracastproducts.com/%22%20%5Ct%20%22_blank)[ [Click Here](http://www.arcat.com/arcatcos/cos48/arc48063.html%22%20%5Ct%20%22_blank) ] for additional information.
TerraCast has been a diversified resource of planters for over 30 years. Our products help form the green spaces we inhabit and remember most vividly. TerraCast Planters are designed to function flawlessly with no maintenance requirements in commercial and residential applications as well as within areas of high pedestrian and vehicular traffic.
Areas such as parks, roadways, malls and schools have been adorned with our products which are manufactured from the highest quality linear low density polyethylene. Our products offer the added benefit of being molded with up to 100% recycled material, depending on color choices, to give us a unique "green" advantage when compared to other planter and lighting manufacturers.**

1. GENERAL
2. SECTION INCLUDES
3. Exterior planters fabricated from polymer resin.
4. SUBMITTALS
5. Submit under provisions of Section 01 30 00 - Administrative Requirements.
6. Product Data: Manufacturer's data sheets on each product to be used, including:

**\*\* NOTE TO SPECIFIER \*\* Primarily for rooftop installations. Delete if not required.**

1. Wind calculations for wind lift coefficient.
2. Preparation instructions and recommendations.
3. Storage and handling requirements and recommendations.
4. Installation methods.
5. Shop Drawings: Provide plan, section, elevation and perspective drawings for all planters, or custom designed combinations. Drawings shall show actual sizes and measurements for installations.

**\*\* NOTE TO SPECIFIER \*\* Delete selection samples if colors have already been selected.**

1. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.
2. Core Samples: A cross section may be required for material identification, and wall thickness calculations. Please request a core sample from TerraCast Planters or an official representative of the manufacturer only.
3. Verification Samples: For each finish product specified, two samples, minimum size 3 inches (102 mm) circle representing actual product, color, and patterns.
4. QUALITY ASSURANCE
5. Manufacturer Qualifications: Primary products specified in this section will be supplied by a single manufacturer with a minimum of ten years experience.
6. Installer Qualifications: Products listed in this section shall be installed by a single installer with a minimum of two years demonstrated experience in installing products of the same type and scope as specified.

**\*\* NOTE TO SPECIFIER \*\* Include a mock-up if the project size and/or quality warrant taking such a precaution. The following is one example of how a mock-up on a large project might be specified. When deciding on the extent of the mock-up, consider all the major different types of work on the project.**

1. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
2. Finish areas designated by Architect.
3. Do not proceed with remaining work until workmanship, color, and sheen are approved by Architect.
4. Rebuild mock-up area as required to produce acceptable work.
5. DELIVERY, STORAGE, AND HANDLING
6. Unpack all planters after shipment to check materials for damage. Store and shield planters in manufacturer's rewrapped packaging until ready for installation.
7. Store planters away from dust and extreme heat. Do not stand or walk on planters. Do not store other materials on top of planters. Do not stack planters taller than 4 units.
8. PROJECT CONDITIONS
9. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.
10. Contractor to provide sufficient structural support for planters.
11. WARRANTY
12. At project closeout, provide to Owner's Representative an executed copy of the manufacturer's standard ten year limited warranty against manufacturing defect, outlining its terms, conditions, and exclusions from coverage.
13. PRODUCTS
14. MANUFACTURERS
15. Acceptable Manufacturer: Terracast® Products LLC, which is located at: 4400 N. W. 19th Ave. Suite K; Pompano Beach, FL 33064; Tel: 305-895-9525; Email: [request info (info@terracastproducts.com)](http://admin.arcat.com/users.pl?action=UserEmail&company=Terracast%26reg;+Products+LLC&coid=48063&rep=&fax=&message=RE:%20Spec%20Question%20(02870ter):%20%20&mf=" \t "_blank); Web: [www.terracastproducts.com](http://www.terracastproducts.com/%22%20%5Ct%20%22_blank)

**\*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs; coordinate with requirements of Division 1 section on product options and substitutions.**

1. Substitutions: Not permitted.
2. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.
3. POLYMER RESIN EXTERIOR PLANTERS

**\*\* NOTE TO SPECIFIER \*\* Planters are made as required to fill specified orders. TerraCast's inventory of molds offers twenty plus shapes and over a one hundred twenty sizes. Please refer to catalog or website for standard sizes. Custom sizes and shapes available per customer's specifications. Delete types and options not required.**

1. Basis of Design: Planters by TerraCast Products LLC.
2. Step Planters: Model TSP-\_\_\_\_\_\_.
3. Rectangular Planters: Model TCA-\_\_\_\_\_\_.
4. Barrel Vases: Model TCG-\_\_\_\_\_\_.
5. Square Footed Planters: Model TCE-\_\_\_\_\_\_
6. Contemporary Planters: Model TCN-\_\_\_\_\_\_.
7. Bowl Vases: Model TCF2M-\_\_\_\_\_\_.
8. Californian Planters: Model TCB-\_\_\_\_\_\_.
9. Straight Sided Cylinders: Model TDC-\_\_\_\_\_\_.
10. Vase Planters: Model TC2\_\_\_\_\_\_.
11. Garland Planters: Model TCM-\_\_\_\_\_\_.
12. Low Bowl Planters: Model TCC-\_\_\_\_\_\_.
13. Garland Rectangular Planters: Model TGR-\_\_\_\_\_\_.
14. Grooved Planter: Model TCL-3.
15. Bamboo Planter: Model TCJ-4.
16. Fluted Vase: Model TCH-20
17. Oil Jars: Model TC-\_\_\_\_\_\_.
18. Japanese Bowl Planter: Model TJP-30.
19. Roma Rectangular Planters: Model TCR-\_\_\_\_\_\_.
20. Half Round Planters: Model THR-\_\_\_\_\_\_.
21. San Juan Planters: Model TCSB-\_\_\_\_\_\_.
22. Quarter Round Planter: \_\_\_\_\_\_.
23. Catalina Planter: Model TRP-40.
24. Pedestal Planter, Round: Model TCP36.
25. Pedestal Planter, Square: Model TCP48.
26. Millennium Planter, Rectangle: Model TSR-\_\_\_\_Series
27. Millennium Planter, Square: Model TSS-\_\_\_\_Series
28. Color: Integral color as selected.
29. Finish: Dull, matt finish.
30. Finish: High gloss, shiny.
31. Irrigation and Drainage Holes: Required.
32. Irrigation and Drainage Holes: Not required.
33. Self-Watering Reservoir: Required.
34. Self-Watering Reservoir: Not Required.
35. Hardware and Anchors: As recommended by manufacturer.
36. Hardware and Anchors: Not Required.
37. PLANTER MATERlAL
38. Linear low density polyethylene (LLPPE) resin:

**\*\* NOTE TO SPECIFIER \*\* Standard unless requested otherwise. Delete if not required.**

1. Virgin material: 100 percent.
2. Optional Recycled Material: 100 percent. Only available in Recycled Black
3. Ultraviolet inhibitors.
4. No inorganic fillers.
5. The planters shall be non-hydroscopic and have no pores.

**\*\* NOTE TO SPECIFIER \*\* TerraCast Planters will not crack, chip, break, corrode, or rot. The LLDPE does not allow water or other environmental elements to penetrate through the surface to begin the corrosion process. Planters eliminate concerns of staining on hard flooring, rugs and carpeting without saucers if holes are not drilled.**

1. Material characteristics and capacities of finished products:
2. Density: 0.97 grams per cubic cm).
3. Surface hardness: SD48.
4. Tensile strength: 2900 psi (20 Mpa).
5. Flexural modulus: 1% Secant - 119,000 psi, 2% Secant 101,000 psi.
6. Notched izod: Minimum of 19.9 ft-lbs per inch (1.06 kJ per m).
7. Linear expansion: 0.007 per degree F (0.0002 per degree C)
8. Elongation at break: 500 percent.
9. Strain at yield: 20 percent.
10. Water absorption: 0.01 percent.
11. Oxygen index: 17 percent.
12. Flammability: UL94 HB.
13. Volume resistivity: 3,9370,000,000,000,000 ohms-in (100,000,000,000,000,000 ohms-cm)
14. Dielectric strength: 0.000635 volts per inch (0.025 volts per meter).
15. Dissipation factor: 1 kHz 909090
16. Dielectric constant: 1 kHz 2.3
17. HDT @ 65.3 psi (0.45 Mpa): 113 degrees F (45 degrees C).
18. HDT @ 261 psi (1.80 Mpa): 99 degrees F (37 degrees C).
19. Melting Temperature Range: 194 to 284 degrees F (90 to 140 degrees C).
20. Mould Shrinkage: 3 percent.

**\*\* NOTE TO SPECIFIER \*\* Refer to TerraCast for performance specifications utilizing heavier or denser material.**

1. Wall sections will not deform when loaded with 80 lbs per ft3 (1281.5 kg per m3) soil corpus.
2. Planters shall be able to expand and contract with change in seasons and not be susceptible to cracking, chipping or breaking.
3. Wall thickness, 1/4 inch (6 mm) minimum throughout entire planter.
4. EXECUTION
5. EXAMINATION
6. Do not begin installation until substrates have been properly prepared.
7. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
8. PREPARATION
9. Clean surfaces thoroughly prior to installation.
10. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
11. INSTALLATION
12. Install in accordance with manufacturer's instructions and in proper relationship with adjacent construction.
13. PROTECTION
14. Protect installed products until completion of project.
15. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION