



SPECIFICATIONS

Supplier name
Product name

Perfect Turf, LLC (www.perfectturfinc.com)
Perfect Turf® PetGrass®

This document provides the specifications for a Synthetic Turf Dog Park installation composed of a tufted polyethylene grass fiber component with a polyethylene thatch zone with both yarns having an anti-microbial additive built into the yarn, installed over a porous aggregate stone base, including drainage system.

There may be variations in the final specifications as required by the Client, architect and/or municipal code.

PART 1 – GENERAL

1) Work Included

Provide all labor, materials, equipment, and tools necessary for the complete installation of a synthetic grass system as outlined in these specifications. The vertical draining base shall be provided separately by an approved contractor. The system shall consist of, but not necessarily be limited to, the following:

- a) A complete synthetic turf system, consisting of an approved porous rock base and a synthetic turf with 1 1/4" inch long 100% monofilament polyethylene fibers (min. 11,800 denier, 165 microns), tufted on a 3/8" tufting machine with a minimum of 60 ounces of yarn per square yard. The system shall include a single, dimensionally stable, two-component backing and have a minimum of 24 ounces of secondary backing per square yard. The finished product shall also include perforations at a rate of approximately 2" x 2" with an average diameter of at least 6mm to ensure maximum drainage.

2) Qualifications and Submittals

Prospective bidders and/or installers of the turf shall be required to comply with the following:

- a) The turf manufacturer must be experienced in the manufacture of a no-infill synthetic turf system and provide references of specific installations in the last three (3) years with five (5) landscape grass installations within 100 miles and in similar climate.
- b) Manufacturer must hold ISO 9001 (Quality) and ISO 14001 (Environmental) certifications
- c) The turf installer must provide competent workmen skilled in this specific type of synthetic turf installation. The designated supervisory personnel on the project must be competent in the installation of this material, including gluing seams and proper installation of the infill mixture.

PART 2 - SYNTHETIC GRASS MATERIALS

The synthetic turf material shall be in accordance with the following:

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- a) The fiber shall be a minimum 11,800 denier, 165 micron thickness (+/- 15), 100% true monofilament polyethylene fiber, measuring 1-1/4 inches high (+/- 1/8 inch) with a polyethylene thatch zone.
- b) The tufted fiber weight shall not be less than 60 ounces per square yard. The fiber shall be tufted on a 3/8" tufting machine.
- c) The primary backing shall consist of two parts 13 pic polybac material. The secondary backing shall consist of an application of at least 24 ounces of latex coating per square yard with anti-microbial additives mixed into the coating prior to being spread onto the primary backing. The secondary coating is then heat activated to permanently lock fiber tufts in place.
- d) The synthetic turf system shall be perforated with minimum 6mm holes at 2" by 2" on center to provide for maximum drainage. Non-perforated systems shall not be acceptable alternates for purposes of this specification. Knitted systems are not dimensionally stable and are not acceptable alternates for this specification.
- e) The grass fiber shall be two-tone green in color to simulate natural grass as closely as possible with a tan or green thatch zone and treated with UV inhibitor, guaranteed against fade and fiber degradation for a minimum of eight (8) years.
- f) The grass fibers shall have an anti-microbial agent added to the yarn at the extrusion process. Turf products that require sprayed on anti-microbial agents at the installation will not be acceptable.
- g) Basis of specification is Perfect Turf-PetGrass[®] as manufactured by Perfect Turf LLC, contact 888-SYN-TURF. (888-796-8873)

PART 3 – BASE AND DRAINAGE

NOTE: A properly designed aggregate base and drainage system is determined by a number of site specific factors including soil conditions, grade, adjacent land, existing drainage, municipal code and zoning requirements. The following generic base specifications should be used for reference purposes only.

An approved contractor shall provide a vertical draining base consisting of a minimum three-inch layer of CM-6 Stone 1/2" – 1 1/2" graded base stone and a minimum two-inch layer of CA-16 Open Graded Stone (OGS) 3/8" chips (no fines) installed upon the compacted sub-base.

- a) The sub-base should be compacted using a vibratory plate compactor or vibrating roller, to approximately 95% Proctor density.
- b) The sub-grade should no longer have any vegetation. The sub-grade shall then be treated with a weedkiller.
- c) The bidder shall supply and install a geo-textile fabric or weed barrier over the entire surface before the installation of the stone depending on geographic location. Seams shall be overlapped a minimum of 12".

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- d) Based on the preference and requirements provided by the Architect, Owner and/or Municipal Codes, additional base drainage may be specified.
 - 1. A properly sized perimeter drain shall be installed in a properly excavated ditch, lined with geo-textile. The CPPP (corrugated perforated plastic pipe) shall be sloped .05" per linear foot toward the exit point to the existing storm drain.
 - 2. One or more catch basins may be installed at directional changes in the line, at the depth necessary to meet the elevation of the existing storm water evacuation line.
 - 3. The bidder shall supply water proof tape and all necessary connectors, per subsurface drainage system manufacturer's recommendation, and is responsible for a proper and secure connection between all new and existing drainage lines.
- e) When applicable, a perimeter composite 2"x4" nail board shall be installed to the perimeter concrete curb. The top of the nail board will be set at 3/4" below the top of the concrete curb. The stone base will be installed flush with the nail board.
- f) Install the two-inch (2") layer of CA-16 porous stone over the base, maintaining slope and grade, depending on the geographic location. Finish grade flush with the perimeter nailer board and compact to approximately 90% Proctor.
- g) The Synthetic Turf System installer and architect or engineer will accept the aggregate base prior to the installation of the Synthetic Turf System.
- h) Any alterations must be agreed between all parties.

PART 4 – EXECUTION AND INSTALLATION

The turf installer shall strictly adhere to the installations procedures outlined under these sections. Any variance from these requirements shall be accepted in writing by the manufacturer's representative, and submitted to the architect/owner, verifying that the changes do not in any way affect the warranty.

- a) The turf installer will accept the aggregate base prior to the installation of the synthetic turf system. The compaction of the aggregate base shall be minimum 90% and the surface tolerance shall not exceed 3/16 inch in ten feet.
- b) The rolls of synthetic grass shall be seamed utilizing standard state-of-the-art gluing procedures.
- c) This is a 100% glued installation. Sewing of seams will not be permitted. The seaming tape and glue shall be intended for installation of outdoor synthetic turf surfaces.

PART 5 – MAINTENANCE AND WARRANTY

The bidder and/or the turf manufacturer must provide the following:

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- a) The turf manufacturer shall provide a warranty to the owner that covers defects in materials and workmanship of the turf for a period of eight (8) years from the date of Substantial Completion. An eight (8) year "UV stabilization" warranty shall be included in the warranty. (Five years for commercial applications.)
- b) The manufacturer's warranty shall include general wear and damage caused from UV degradation. The warranty shall specifically exclude vandalism, acts of War and acts of God beyond the control of the owner or the manufacturer.
- c) The bidder shall provide a warranty to the owner that covers defects in the installation workmanship, and further warrant the installation was done in accordance with the manufacturer's recommendations for a period of one (1) year.
- d) All turf warranties shall be limited to repair or replacement of the affected areas and shall include all necessary materials, labor, transportation costs, etc. to complete said repairs. All warranties are contingent on the full payment by the owner of all pertinent invoices.
- e) The bidder shall provide a maintenance program to the owner. The warranty shall be subject to compliance with said maintenance program.

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