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## SPECIFICATIONS

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**Supplier name** Perfect Turf LLC  
**Product name** Perfect Play® Playground Safety Surface System

This document provides the specifications for a Synthetic Grass Playground System composed of a tufted polyethylene grass fiber component with a polyethylene thatch layer installed over a playground pad and stone base including a drainage system.

There are variations in the final specifications as required by the Client.

### **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 impact attenuating pad shall be suitable to meet the fall height of the intended equipment. The stone base, nail board and drainage substrate 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 grass system, consisting of a synthetic grass with 1 3/4" inch long 100% monofilament polyethylene fibers and polyethylene thatch layer, tufted on a 3/8" tufting machine with a minimum of 84 ounces of yarn per square yard. Synthetic turf products utilizing nylon blades or thatch layers will not be acceptable. Systems utilizing granular rubber products infilled in the grass blades will not be acceptable. The system shall include a single, dimensionally stable, two component backing and have a minimum of 20 ounces of secondary backing per square yard. The finished product shall also include perforations 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 synthetic grass systems and provide references of five (5) specific park district installations in the last three (3) years.

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- b) The turf installer must provide competent workmen skilled in this specific type of synthetic grass installation. The designated supervisory personnel on the project must be competent in the installation of this material, including gluing of seams.
- c) The turf installer will provide submittals of turf, shock pad, glue and seam materials as detailed in the submittals section of the specifications. These details should include the following ASTM test method for the complete system.

ASTM F 1292-04, Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment

## **PART 2 - SYNTHETIC GRASS MATERIALS**

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

- a) The fiber shall be a minimum 12,000 denier, 150 micron thickness 100% true monofilament polyethylene, low friction fiber, measuring not less than 1-5/8 inches high. The low friction fiber shall be specifically designed to virtually eliminate abrasion.
- b) The fiber shall be a two-tone grass blade, green in color with a tan thatch fiber to simulate natural grass as closely as possible and treated with UV inhibitor, guaranteed a minimum of eight years.
- c) The tufted fiber weight shall not be less than 84 ounces per square yard. The fiber shall be tufted on a 3/8" tufting machine. The low friction non-abrasive fiber shall be 100% monofilament polyethylene, treated with a UV inhibitor.
- d) The primary backing shall consist of a one part, two component backing. The secondary backing shall consist of an application of 20 ounces of coating per square yard heat activated to permanently lock fiber tufts in place. The total backing weight shall not be less than 26 ounces. The synthetic grass system shall be perforated to provide for maximum drainage. Non-perforated systems shall not be acceptable alternates for purposes of this specification.
- e) The carpet rolls shall be of sufficient length to go from side to side of the play area. Full head seams will not be acceptable unless as required to cut around equipment posts.
- f) The shock attenuation pad shall be a 100% recycled, post industrial cross linked, closed cell polyethylene-polyolefin foam material. The pad should allow for vertical and horizontal drainage.
- g) The optional infill shall be rounded, sub-angular silica sand from a 20-40 sieve rate.

## **PART 3 – 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 stone base substrate prior to the installation of the synthetic turf system.

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- b) Extreme care should be taken to avoid disturbing the substrate in regard to planarity.
- c) Playground pad shall be laid out and cut around the playground equipment so as not to leave large gaps.
- d) The full width rolls of synthetic grass shall be laid out across the area, and utilizing standard state-of-the-art gluing procedures each roll shall be seamed to the next.
- e) 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.
- f) The synthetic turf will be fastened to perimeter nail boards with galvanized roofing nails at 6" on center.
- g) The play area may, at the owners option, be infilled with 1-2 pounds of silica sand and brushed with a motorized rotary nylon broom to stand up the fibers and allow the sand to settle to the bottom of the turf upon completion of the installation.

#### **PART 5 –MAINTENANCE AND WARRANTY**

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

- 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 years from the date of Substantial Completion. An eight (8) year "UV stabilization" warranty shall be included in the warranty.
- 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 for a period of 2 years, and further warrant the installation was done in accordance with the manufacturer's recommendations.
- 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.

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