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## **TEST REPORT**

**Test Date:** 7/3/2014

<u>Test Scope:</u> This test method determines rainfall drainage capacity (permeability) of surfacing material.

<u>Test Method:</u> ASTM F1551-03: Standard Test Methods for Comprehensive Characterization of Synthetic

Turf Playing Surfaces and Materials: Suffix-DIN 18-035, Part 6: Water Permeability of

Synthetic Turf Systems and Permeable Bases

**Test Equipment:** 

Tube: 10.00" ID, 8" Length

Tube Weight: 1.2 lbs

Tube Flow Head: 2.039 Gallons

Tube Index Mark: 6" Flange: N/A

Clamps: Compression clamps, 24" nominal

Test Sampling:

Number of Specimens: One (1)

Pre-Conditioning: 75°F 44% RH for 24 Hours Minimum

Sample size: 18"x18"x3" (3" cushion layer)
Top Layer Thickness 1/8" backing + pile height



Test Procedure: An 18"x18"x3" PlayTurf specimen was used to perform drainage on. The top surface was sealed to the tube by clamping force so that the water would drain thru the top surface into the specimen and out the bottom. Water was pumped into the tube faster than could drain, until the water level was above the timing mark of 6". A timer was activated when the water level reached 6" and terminated when the water level reached the low point areas of the turf of the top surface. The flow time was recorded in seconds. This procedure was repeated four passes, with the first pass for system conditioning, and not included for calculation. Test data values represent drainage rates for the turf and pour in place base layer, and do not take into account the percolation properties of an underlying sub-base.

## **TEST RESULTS**

Water Flow Thru 6" Zone	Gallons / minute / ft²	Rainfall Capacity inches / hour
10.64 Seconds	21.09	1107.23
Gallons / hour / ft <sup>2</sup>	Gallons / minute / yd²	Liters / minute / meter <sup>2</sup>
1265.49	189.82	859.39

Chris Wolf

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General Manager

THE ABOVE TEST INDICATES THE PERMEABILITY OF THE SURFACING MATERIAL ONLY, AND DOES NOT FACTOR IN DRAINAGE RATES OF THE UNDERLAYING SUB-BASE. OWNERS AND/OR DESIGNERS ARE ADVISED TO REFER TO LOCAL SUB-BASE MATERIALS, COMMON SUB-BASE PROCEDURES, TRADITIONS AND/OR CODES REGARDING DRAINAGE OF UNDERLAYING SUB-BASE DESIGNS. SOME UNDERLAYING SOIL CONDITIONS MAY REQUIRE ADDITIONAL DRAINAGE DESIGNS BELOW THE PLAYGROUND SURFACING SYSTEM.