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TEST REPORT

Test Date: 7/25/2014

<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: 17" Diameter

Support bar: 1" x 1/8" x 18" aluminum

Test Sampling:

Number of Specimens: One (1)

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

Minimum

Sample size: 18"x18"x4.25", "X" junction, interlocking type tile, all four quadrants tested



Test Procedure: An 18"x4.25" SofTILE by PlayMax specimen was used to perform drainage on. The top surface was sealed using polyurethane and silicone rubber so that the water would drain thru the top surface into the specimen and out the bottom. Joints were adhered using factory provided sealant. 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 highest areas of the granules 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 tile system, and do not take into account the percolation properties of an underlying sub-base. Test zone is 24.2% of a typical tile area. Results may be adjusted accordingly.

TEST RESULTS

Water Flow Thru 6" Zone	Gallons / minute / ft²	Rainfall Capacity inches / hour
44.80 Seconds	5.01	263.01
Gallons / hour / ft ²	Gallons / minute / yd²	Liters / minute / meter ²
300.60	45.09	142.68

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.