



## TEST REPORT

**CLIENT:**

<b>Company:</b>	Turf and Ivy Solutions	<b>Report Number:</b>	67986B
<b>Address:</b>	5 Centerpointe Dr, Ste 400, Lake Oswego, Oregon 97035	<b>Lab Test Number:</b>	2836-9362
		<b>Test Completion Date:</b>	7/14/2016
		<b>Report Date:</b>	7/20/2016
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<b>Requested By:</b>	Andrew Gao		

**TEST MATERIAL:**

<b>Material Type:</b>	Synthetic Turf	<b>Date Received:</b>	7/7/2016
<b>Material Condition:</b>	<b>EXCELLENT:</b> <b>XXX</b> <b>GOOD:</b> <b>POOR:</b> <b>REJECTED:</b>		
<b>Turf ID:</b>	Viability		

**TESTING METHODS REQUESTED:**

<b>Testing Services Inc. was instructed by the client to test for the following...</b>			
<b>Standard:</b>	ASTM F1551	<b>Test Method:</b>	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

**SAMPLING PLAN:**

<b>Sampling Date:</b>	7/7/2016
<ul style="list-style-type: none"> <li>Specimen sampling is performed in the sampling department at TSI.</li> <li>The sampling size of specimens is determined by the test method requirements.</li> <li>In the event a specific sampling size is not called for, a determination will be made based on previous testing experience, and approved for use by an authorized manager.</li> <li>All samples are subjected to the outside environmental conditions of temperature and relative humidity.</li> <li>Sample requiring pre-determined exposure to specified environmental conditions based on a specific test method, take place in the departments in which they are tested</li> </ul>	

**DEVIATION FROM TEST METHOD:**

<b>State reason for any Deviation from, Additions to, or Exclusions From Test Method.</b>
none

**TEST SUMMARY:**

TEST METHOD	TEST DESCRIPTION	TEST RESULT
ASTM F1551; Suffix-DIN 18-035, Part 6	Average Rainfall Capacity (Water Permeability)	62.9 inches/hour

*\*Test data values represent drainage rates for the turf and infill only, and do not take into account the percolation properties of a sub-base or padding.*

Infill System: 1.2 lbs/ft <sup>2</sup> Silica Sand	# of Specimens (3) 11.5" Diameter	
Tube: 10.75" OD 10.00" ID 8" Length (Beveled)	Tube Index Mark: 6"	Tube Weight: 39 lbs
Flange: 9.375" Diameter	Tube Flow Head: 2 Gallons	Pre-Conditioning: none

We undertake all assignments for our clients on a best effort basis. Our findings and judgments are based on the information to us using the latest test methods available. TSI can only ensure the test results for the specific items tested.

Unless otherwise noted in the deviations sections of this report, all tests performed are in compliance with stated test method.

**Test Report Approval:**

Erle Miles, Jr. VP, Testing Services Inc

**TSI Accreditation:** Our laboratory is accredited by the US Dept of Commerce, National Institute of Standards and Technology: ISO/IEC 17025:2005. Our code # is: NVLAP 100108-0. TSi is a certified independent testing laboratory by the Synthetic Turf Council

<b>Form:</b>	<b>Rev:</b>	<b>Revision Date:</b>	<b>Page 1 of 1</b>
<b>Release Date:</b>	Control Type: Electronic – Expires 24 hours after this date: Jul. 21, 16 Printed copies are uncontrolled		

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