



TEST REPORT

CLIENT:

Company:	Brock International	Report Number:	71292
Address:	3090 Sterling Circle Suite 102	Lab Test Number:	2933-3166
	Boulder, CO 80301	Test Date:	7/19/2017
		Report Date:	7/20/2017
		Page:	1 of 1
Requested By:	Derek Neil		

TEST MATERIAL:

Material Type:	Underlayment	Date Received:	7/6/2017
Material Condition:	EXCELLENT: XXX GOOD:	POOR:	REJECTED:
Product Name:	Brock PowerBase®		

TESTING METHODS REQUESTED:

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

Sampling Date:	7/6/2017
<ul style="list-style-type: none"> • Specimen sampling is performed in the sampling department at TSI. • The sampling size of specimens is determined by the test method requirements. • 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. • All samples are subjected to the outside environmental conditions of temperature and relative humidity. • 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 	

PROCEDURE:

This test method determines the rainfall drainage capacity (permeability) of the above underlayment test material. Test data values represent drainage rates for the underlayment only, and do not take into account the percolation properties of an underlying sub base. A specimen, 11.5" diameter, was cut from the sample lot. The test surface was sealed by means of hot waxing the underlayment to the permeability tube, forcing the water to drain horizontally, flowing into channels and exiting vertically thru product. Water was then pumped into the tube faster than could exit, until the water level reached 6". The water source was shut off, allowing the accumulated 6" water level to recede. The recede was timed via stopwatch until the water level reached the top layer of the underlayment. The flow time was recorded in seconds. This procedure was repeated a total of 4 times where, the first pass was for conditioning with passes 2,3,4 used for averaging.

DEVIATION FROM TEST METHOD:

State reason for any Deviation from, Additions to, or Exclusions From Test Method.
None

TEST SUMMARY:

TEST METHOD	TEST DESCRIPTION	TEST RESULT
ASTM F1551; Suffix-DIN 18-035, Part 6	Average Rainfall Capacity (Water Permeability)	720.6 inches/hour

# of Specimens (1) 11.5" Diameter	Tube Index Mark: 6"	Tube Weight: 39 lbs
Tube: 10.75" OD 10.00" ID 8" Length (Beveled)	Tube Flow Head: 2 Gallons	Pre-Conditioning: none
Flange: 9.375" Diameter		

Uncertainty:

We undertake all assignments for our clients on a best effort basis. Our findings and judgments are based on the information 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 are performed in compliance with stated test method.

Test Report Approval:

 Digitally signed by Erle Miles
Date: 2017.07.21 14:56:28
0902

Erle Miles, III
Lab Director



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