

# ON-SITE TESTING PERMEABILITY & PLANARITY



## Project Information

<b>Project Name</b>	Manchester Essex Regional Middle High School Hyland Field EN 12616:2013 Permeability Evaluation		
<b>Client Info</b>	SprinTurf 146 Fairchild St, Suite 150 Daniel Island, SC 29492	<b>Site Info</b>	Manchester Essex Regional Middle High School 36 Lincoln St Manchester-by-the-Sea, MA 01944
<b>Report Date</b>	8/22/2023	<b>Test Date</b>	8/17/2023, 8/19/2023
<b>Report Status</b>	Final	<b>Job No.</b>	98801/8993s
<b>Prepared by</b>	Michael Rocheleau Field Operations Manager		
<b>Checked By</b>	Jeffrey Gentile Operations Director		

*Notes:*

1. This report has been prepared by Firefly Sports Testing with all reasonable skill, care and diligence within the terms of the contract with the Client and within the limitations of the resources devoted to it.
2. This report is confidential to the Client and Firefly Sports Testing accepts no responsibility whatsoever to third parties to whom this report, or any part thereof, is made known. Any such party relies upon the report at their own risk.
3. This report shall not be used for engineering or contractual purposes unless signed by the Author and the Checker and unless the report status is "Final."

## Summary

Firefly Sports Testing was commissioned to perform permeability and planarity testing. The purpose of this testing was to provide permeability rates and determine the surface planarity for the aggregate base. The tests performed were per the following standards:

Test Type	Test Method	Test Description
<b>Infiltration</b>	<b>EN 12616:2013</b>	Surfaces for sports areas - Determination of water infiltration rate test.
<b>Planarity Evaluation</b>	<b>EN 13036-7:2003</b>	Road and Airfield Surface Characteristics- Irregularity Measurement of Pavement Courses- The Straightedge Test

### Quick Reference Results Summary

	Average	(min)	Range	(max)
<b>Infiltration Rate (in/hr)</b>	48	17	to	>100



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## General Information

<b>Device</b>	Double Ring Infiltrometer 3m Straight edge		<b>Test Methods</b>	EN 12616:2013 Method C EN 13036-7:2003
<b>Test Date:</b>	8/17/2023, 8/19/2023		<b>Date of Construction:</b>	n/p
<b>Test Condition:</b>	Dry		<b>Carpet Type:</b>	n/a
<b>Substrate Type:</b>	Aggregate		<b>Infill Type:</b>	n/a
<b>Surface Name:</b>	Hyland Field Base		<b>Shockpad:</b>	n/a
<b>Time of day</b>	8/17/2023	8/19/2023	<b>Weather Conditions:</b>	Overcast
<b>Air temp: (°F)</b>	66	78	<b>Wind Speed: (m/s)</b>	n/a
<b>Surface temp: (°F)</b>	59	72	<b>Uncertainty Measurement:</b>	±50mm/hr
<b>Humidity (%)</b>	89	55	<b>Operator:</b>	JG, JI
<b>Field Orientation</b>	End A =	North	<b>Misc Field Notes</b>	None

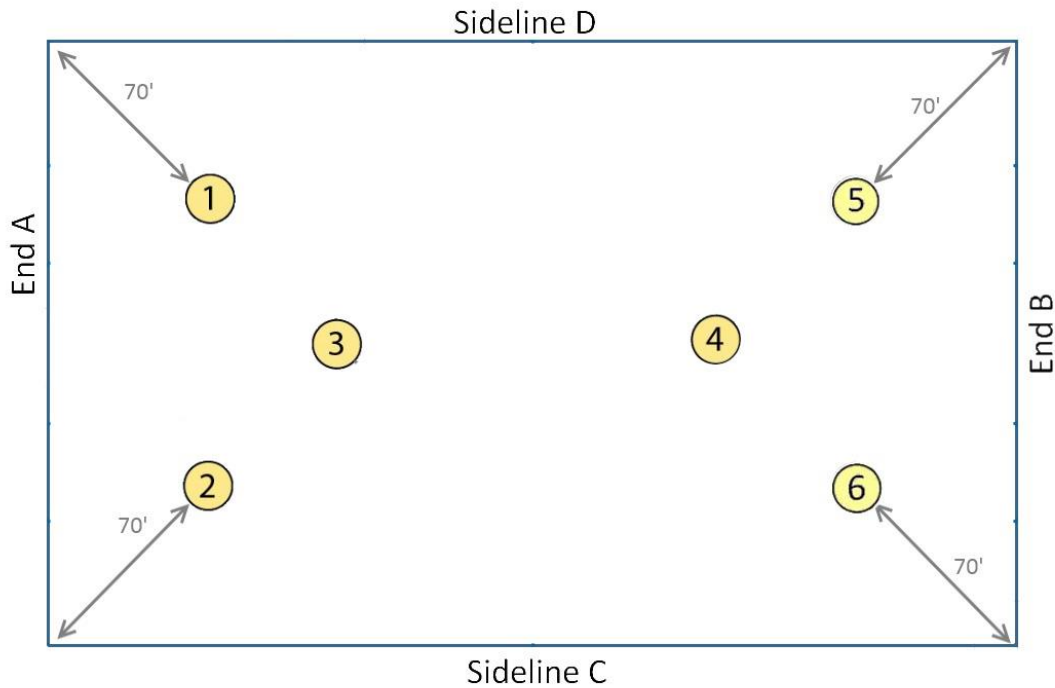
## Overall Photo



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## Permeability Location Map



## Permeability Testing

Location	Permeability Rate (in/hr)
Location #1	17
Location #2	20
Location #3	35
Location #4	41
Location #5	>100
Location #6	73



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## Planarity Testing

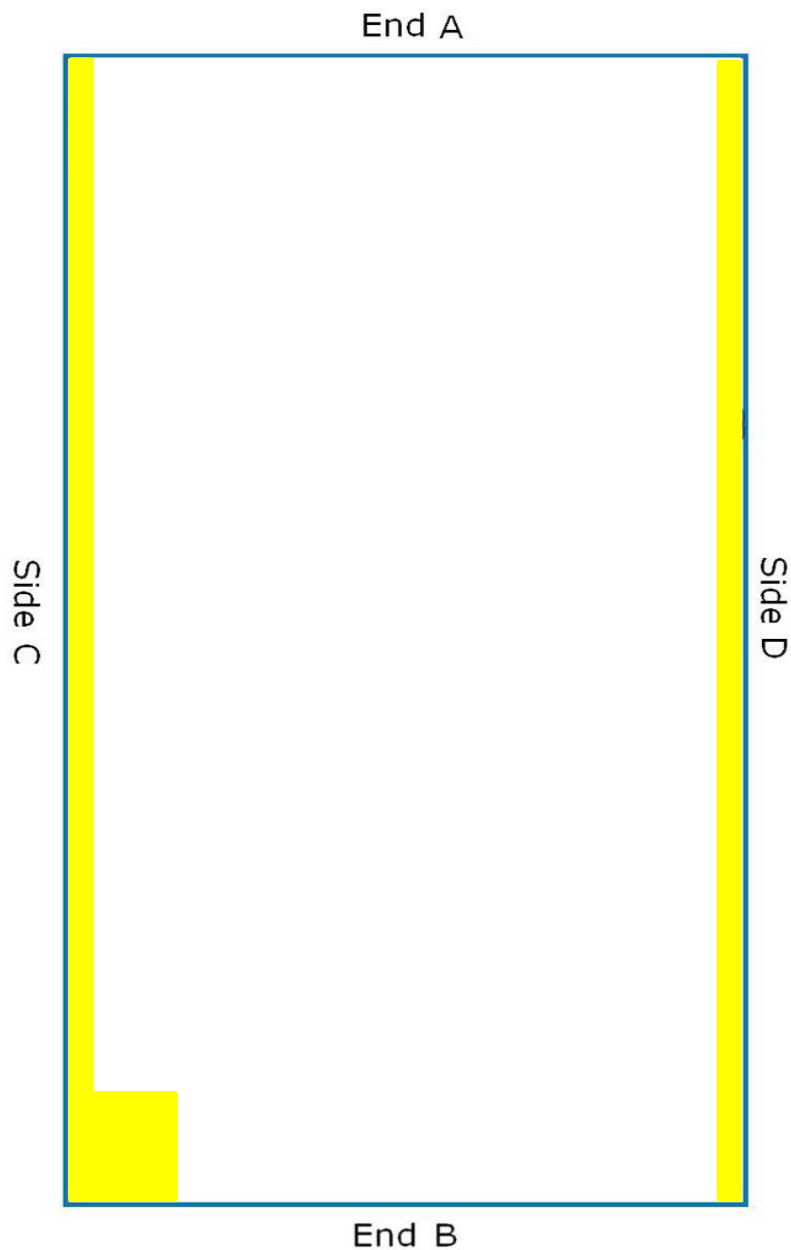
Device: 3m Straight Edge (10mm tolerance)

Test Method: BS EN 13036-7:2003

Field Testing Date: 8/19/2023

Local Air Temperature: 78 ° F

Conditions: Dry



No Deviations Found. Highlighted areas were not complete at time of testing.

End of Report

