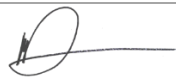



LABORATORY TESTING

BS EN 12616 PERMEABILITY



Project Information

Project Name	Doral Florida Lab Infiltration EN 126161 (ASTM F1551) Permeability Evaluation		
Client Info	RealTurf USA 7777 Katy Fwy, Suite 3101 Houston, TX 77024		
Report Date	11/23/2016	Test Date	11/22/2016
Report Status	Final	Job No.	91674/1759s
Prepared by	Kieran O'Donnell Field Operation Manager		
Checked By	Jeffrey Gentile Laboratory Director		

Notes:

1. This report has been prepared by Sports Labs USA 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 Sports Labs USA 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

Sports Labs USA was commissioned to perform permeability testing. The purpose of this testing was to provide permeability rates for the tested surface. The tests performed were per the following standard:

- EN 126161 (ASTM F1551)- Surfaces for sports areas - Determination of water infiltration rate test.
- A water temperature correction factor was used per EN 126161 (ASTM F1551).

Quick Reference Results Summary

	Average	(min)	Range	(max)
Infiltration Rate w/ Correction factor (in/hr)	>100	>100	to	>100

INFORMATION, ADVICE & KNOW-HOW: FROM THE SYNTHETIC SPORTS SURFACE EXPERTS



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LABORATORY TESTING

BS EN 12616 PERMEABILITY



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General Information

Device	Double Ring Infiltrometer	Test Methods	EN 126161 (ASTM F1551)
Install Date	n/a	Test Date	11/22/2016
Field Orientation	n/a	Primary Sport	n/a
Surface Type	RealTurf	Infill System	Sand
Underlayment	None	Local Air Temp (° F)	72
Surface Temperature	72	Weather Conditions	Indoor
Water Temperature	61	Humidity %	45

Results Table

Sample Description	Permeability Rate (in/hr)
RealTurf	>100

End of Report

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► Specifications

Spec Name	Spec Value
Pile Height:	1.25"
Face Weight:	75 oz/yd ²
Total Weight:	102 oz/yd ²
Fiber Shape:	C + Flat
Fiber Type:	Polyethylene (PE) Monofilament & Polypropylene (PP) Thatch
Fiber Color:	Two-Tones Emerald & Olive
Thatch Color:	Tan
Drainage:	Hole-Punched
Primary Backing:	Double Polypropylene (PP)
Secondary Backing:	Polyurethane (PU)
Antimicrobial:	Yes
UV Protection:	Yes
Recommended Infill:	1.5-2.5 lb/ft ² silica sand size 30/50
Warranty	10 Years
Roll Size:	15 ft x 100 ft

Eco C Garden

Eco C combines looks and durability. Eco C has an incredible ability to recover, which makes it ideal for all types of gardens, from commercial to private. This model is plush, soft, and at the same time will give your lawn a natural look with great resilience.



Specifications



General data

Color	Two tones emerald with two tones olive
Roll size	15 ft x 100 ft

Specifications

Composition	Polyethylene and Polypropylene in curl
Type	C + Flat
Dtex	4,500
Pile height	1" 1/4"
Gauge	3/8"
Stitches/ft²	1,950
Fiber weight	75 oz/yd²
Total weight	100 oz/yd²
Primary backing	Double PP
Secondary backing	PU Backing

Test and certificates

DURABILITY

UV Stability Scale >3 (UNE-EN 20105-A02)
Permeability 14 gpm/yd²
Chlorinated water stability (ISO 105-E 03:2010)

SAFETY 100%

Bacteria free (ASTM G 21:2013)
Non toxic (EN 71-3)
Non flammable (EN 13501 Dfl-s1)

ECO

Zero Waste
ISO 14.001
100% Recyclable (CSIC)

Infill

Recommended infill 1-2 lb/ft² silica sand size 30/50

realturf



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Office@realturfusa.com

Review: 2
Data of approval: 02/02/2023

Realturf Systems S.L. reserves the rights to modify the technical characteristics of the products described. The declared values will admit the tolerances established by the ISO regulation that it should apply in every case. Realturf Systems S.L. guarantees the technical quality of the product.

Items	Description
Eco C by Real Turf	Eco C has an incredible ability to recover, which makes it ideal for all types of gardens, from commercial to private. This model is plush, soft, and at the same time will give your lawn a natural look with great resilience.
Labor and Installation	Labor cost to prepare base, edging and installation of turf to specified areas
Sub Base	DOT base material is the ideal sub-base for artificial turf, providing superior drainage, stability, and durability. We install a 4" thick base that compacts well to create a solid, even foundation, preventing movement over time. Built to withstand heavy traffic and weather conditions, it ensures long-lasting performance. Additionally, it levels the ground for a smooth, professional finish, enhancing both aesthetics and playability.
Pearock	Pea rock is an excellent sub-base for artificial turf, providing superior drainage to prevent water pooling. Its smooth, rounded stones create a stable foundation, evenly distributing weight to reduce settling or shifting. Lightweight yet supportive, it is easy to handle and install while maintaining turf integrity. This durable, effective solution ensures long-lasting performance for artificial grass.
Polyboards	Polyboard is a fantastic edging solution for any synthetic turf installation due to its durability and versatility as it can be bent and curved to fit any landscaping need. Featuring a redwood aesthetic to compliment any landscape, Polyboard is made from recycled materials, waterproof, and durable enough to withstand chipping and breakage.
20/30 Silica	20/30 silica sand is a top-choice infill for artificial turf, offering stability, support, and durability. Its ideal particle size prevents compaction, keeping turf resilient and well-shaped. This infill also enhances drainage, reducing water buildup and ensuring a consistent, natural feel. Perfect for long-term performance, it's an optimal solution for artificial grass installations.