

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 | <i>Kieran O'Donnell</i> <i>Field Operation Manager</i> | |  |
| Checked By | <i>Jeffrey Gentile</i> <i>Laboratory Director</i> | |  |

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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Unit #2 • 155 River Road • Bow • New Hampshire • 03304
 Telephone: (603) 715-5453 • E-Mail: Info@sportslabsusa.com
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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 |

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



11850 Hempstead Rd #290
Houston, Texas 77092 USA
Phone: +1 (773) 517-7798
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. |