

Product Specification Sheet

Performance Putt

USES:

Putting Green
Driving Ranges
Bocce Ball

Tennis Court Landscape

Medium-Heavy Traffic

SPECIFICATIONS:

Pile Height: ½"

Turf Gauge: 3/16"

Face Weight: 44 oz./yd2 Backing Weight: 13 oz./yd2 Total Weight: 57 oz./yd2

Stitches/m²: 21420 Material/Dtex: PP6000

Stitch Rate: 34/10cm

Color: Medium Bi-Color Green Type Of Fiber: Polypropylene

Monofilament

Report Date: September 5, 2014 Work Order: 14082407 Page Number: 1 of 1

Summary Report

Watersavesrs Turf 4316 Redwood Hwy, Ste 100 San Rafael, CA 94903

Project Location: U.S.A. Project Name: Turf Test

Report Date: September 5, 2014

Work Order: 14082407

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
372766	Performance Putt	Turf	2017 08 50	00.00	2014-08-22

 ${\bf Sample:~372766~-~Performance~Putt}$

	Flag	Result	Units	RL
Total Lead		< 1.00	mg/Kg	1



Certificate of Analysis Summary 627495

Watersavers Turf, San Rafael, CA
Project Name: Turf Testing



Project Id: Turf Testing Series 11

Project Location: USA

Date Received in Lab: Tue Jun-11-19 04:00 pm

Report Date: 20-JUN-19
Project Manager: John Builes

Analysis Requested	Lab Id:	627495-001			
	Field Id:	Turf Series 11			
	Depth:				
	Matrix:	SOLID			
	Sampled:	Jun-07-19 00:00			
Total Lead	Extracted:	Jun-16-19 14:30			
SUB: T104704215-19-29	Analyzed:	Jun-17-19 23:00			
	Units/RL:	mg/kg RL			
Lead		1.35 1.11			

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

11

John Builes Project Manager



CERTIFICATE OF ANALYSIS

Client: Watersavers Turf Product: Performance Putt Xenco Sample #: 627495

Lead Results: one point three five part per million (1.35ppm)

Synthetic fibers from turf product Performance Putt, taken by Watersavers Turf 06-07-19, and received by Xenco Labs 06-11-19, were analyzed by Xenco Labs 06-17-19 for total lead by method ASTM G 2765-09 (EPA 6010). The results were one point three five milligram lead per kilogram synthetic fiber (1.35 mg/Kg).

Blan Latrurch	06/18/19
Dr. Blair Leftwich Director	Date



CLIENT:

Company:	Watersavers Turf	Report Number:	67993B
Address:	4316 Redwood Hwy, Ste 100	Lab Test Number:	2836-9370
	San Rafael, CA 94903	Test Completion Date:	7/11/2016
		Report Date:	7/20/2016
		Page:	1 of 1

TEST MATERIAL:

Material Type:	Synthetic Turf	Synthetic Turf				Date Received: 7/7/2016		
Material Condition:	EXCELLENT:	EXCELLENT: XXX GOOD: POOR:		REJECTED:				
Turf ID:	Performance Putt							

TESTING METHODS REQUESTED:

Testing Services Inc. was instructed by the client to test for the following							
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: 7/7/2016

- 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 humidly.
- 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

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)	71.0 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/ft²Silica 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

Tube Flow Head: 2 Gallons

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:

Digitally signed by Erle Miles, Ir.'
DN: con-Fire Miles, Ir.' W. P. on-Testi
Services Inc., ou,
email-studfice (windstream.net
c=US
Date: 2016.07.21.14.16:11-04507

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

Form:	Rev:	Revision Date:	Page 1 of 1	
Release Date:	Control Type: E	lectronic - Expires 24 hours after this	date: Jul. 21, 16	
	Printed copies are uncontrolled			



CLIENT:

Company:	Watersavers Turf	Report Number:	79410
Address:	4316 Redwood Hwy, Ste 100	Lab Test Number:	3169-2444
	San Rafael, CA 94903	Test Completion Date:	1/16/2020
		Report Date:	1/18/2020
		Page:	1 of 1

TEST MATERIAL:

Material Type:	Synthetic Turf	Synthetic Turf				Date Received:		20
Material Condition:	EXCELLENT:	EXCELLENT: XXX GOOD		P00	OR:		CTED:	
Turf Identification:	Performance Putt	erformance Putt						
Infill:	None							

TESTING METHODS REQUESTED:

Testing Services Inc. was instructed by the client to test for the following					
Standard:	ASTM D2859	Test Method:	Standard Test Method for Ignition Characteristics of Finished Textile Pile Yarn Floorcoverings		

SAMPLING PLAN:

Sampling Date: 1/13/2020

- 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 manage
- All samples are subjected to the outside environmental conditions of temperature and relative humidly.
- 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

DEVIATION FROM TEST METHOD:

State reason for any Deviation from, Additions to, or Exclusions From Test Method. Specimens were not exposed to air circulating oven.

TEST SCOPE:

This test method provides a method of determining the flammability characteristics of textile products when exposed to an ignition source in a laboratory environment. Eight specimens were taken from the sample lot, 230mm X 230mm, and preconditioned in an air circulating oven @ 150°C for 2 hours. After removal from the oven, the specimens are placed into a desiccator for 1 hour prior to performing the test. Each specimen was then placed into the test chamber floor with the pile surface up and a steel frame, 230mm X 230mm with 200mm diameter hole, placed on top of the specimen. A methenamine tablet was placed centrically onto the pile surface. The pill was ignited using a lighted match, with the ignition flame and propagated flame allowed to self-extinguish.

CRITERIA:

The specimen passes, if the charred portion of the test specimen, did not extend to within 25mm (1") of the diameter hole of the steel frame. The U.S. Consumer Product Safety Commission requires that at least seven of the eight specimens pass the test for acceptance as meeting the standard.

TEST SUMMARY:

	TEST METHOD	TEST DESCRIPTION		TEST RESULT
I	ASTM D2859-16	Ignition Characteristics of Textile Floor Coverings (Pill Test)	8 out of 8 Pass	Passes, U.S. CPSC 16CFR 1630 (FF1-70), Carpets & Rugs

Uncertainty:

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 are performed in compliance with stated test method.

Test Report Approval:



Erle Miles, III, Lab Director Testing Services (TSI) LLC

TSi Accreditation: Our lab

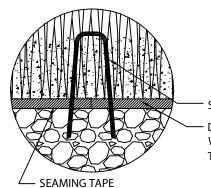
Our laboratory is accredited by the US Dept. of Commerce, National Institute of Standards and Technology: ISO/IEC 17025:2005. Our code # is: NVLAP 100108-0 TSi is a certified independent testing laboratory by the Synthetic Turf Council







WATERSAVERS TURF 4316 REDWOOD HWY, STE 100 SAN RAFAEL, CA 94903 1-844-974-8873



SOD STAPLE 6" x 1" x 6"

DRAINAGE PASS THROUGH FOR WATER IN PUNCHED HOLES THROUGHOUT BACKING

SEAMING TAPE

SPECIFICATIONS

YARN TYPE POLYPROPYLENE CURLED

BLADE

PILE HEIGHT 5/8"

TURF GAUGE 3/16"

FACE WEIGHT 60 OZ YD

BACKING WEIGHT 20 OZ YD

TOTAL WEIGHT 64 OZ YD

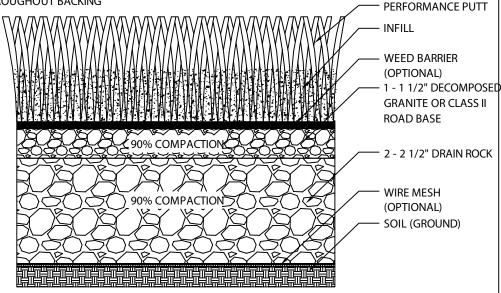
STITCH RATE 31/10 CM

STITCHES/M² 65100

COLOR BICOLOR GREEN

ROLL SIZE (FEET) 15' x 100'

MAXIMUM DRAIN RATE > 30 INCHES PER HOUR



ECTION

SECURING TURF TO BASE BRIGHT COMMON 40D/60D NAILS OR GALVANIZED NAILS 6' APART ALONG PERIMETER.

PUSH BROOM AFTER INSTALLATION IS COMPLETE.

NOTES:

- 1. THE GRASS MUST BE INSTALLED AND SEAMED WITH ADJACENT PIECES RUNNING IN THE SAME DIRECTION. SEAMS SHOULD BE GLUED WITH SUITABLE SEAMING GLUE AND SEAMING CLOTH, OR GST RECOMMENDED SEAMING TECHNIQUES.
- 2. COLOR: BICOLOR GREEN.
- 3. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
- 4. DO NOT SCALE DRAWING.
- 5. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION.
- 6. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.
- 7. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info AND ENTER REFERENCE NUMBER 5006-046.





CLIENT:

Company:	Watersavers Turf	Report Number:	67993A
Address:	4316 Redwood Hwy, Ste 100	Lab Test Number:	2836-9370
	San Rafael, CA 94903	Test Completion Date:	7/13/2016
		Report Date:	7/20/2016
		Page:	1 of 1

TEST MATERIAL:

Material Type:	Synthetic Turf				Date Received:	7/7/2016	,
Material Condition:	EXCELLENT:	XXX	GOOD:	POOR:	RE	JECTED:	
Turf ID:	Performance Putt						

TESTING METHODS REQUESTED:

Testing Services Inc. was instructed by the client to test for the following			
Standard:	ASTM D5848	Test Method:	Standard Test Method for Mass Per Unit Area of Pile Yarn Floorcoverings

SAMPLING PLAN:

Sampling Date: 7/7/2016

- 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 humidly.
- 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

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 D5848-10e1	Total Product Weight	56.60 oz/yd²
ASTM D5848-10e1	Pile Yarn Weight	43.60 oz/yd²

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 performed are in compliance with stated test method.

Test Report Approval:

emai-talofficeijwindstre c=US Date: 2016.07.21 14:16:24

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

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



CLIENT:

Company:	Watersavers Turf.	Report Number:	79420-01
Address:	4316 Redwood Hwy, Ste 100	Lab Test Number:	3169-2419
	San Rafael, CA 94903	Test Completion Date:	1/16/2020
		Report Date:	1/18/2020
		Page:	1 of 1

TEST MATERIAL:

Material Type:	Synthetic Turf			Date Rec	eived:	1/13/2020	
Material Condition:	EXCELLENT:	XXX	GOOD:	POOR:		REJECTED:	
Product ID:	Performance Putt						

TESTING METHODS REQUESTED:

Testing Services Inc. was instructed by the client to test for the following					
Standard:	ASTM D1335	Test Method:	Standard Test Method for Tuft Bind Strength of Pile Yarn Floorcoverings		

SAMPLING PLAN:

Sampling Date: 1/13/2020

- 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 humidly.
- 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

DEVIATION FROM TEST METHOD:

DEVIATION TROM TEST METHOD	•
	State reason for any Deviation from, Additions to, or Exclusions From Test Method.
	None

TEST SUMMARY:

TEST METHOD	TEST DESCRIPTION	TEST RESULT
	TEST DESCRIPTION	
ASTM D1335-17e1	Average Tuft Bind Strength	8.2 lbs/force

>	Each individual pull was made from monofilament fibers

Pull #1	6.685 lbs/force	Pull #2	8.430 lbs/force	Pull #3	9.074 lbs/force	Pull #4	7.758 lbs/force	Pull #5	7.732 lbs/force
Pull #6	7.463 lbs/force	Pull #7	7.973 lbs/force	Pull #8	8.859 lbs/force	Pull #9	6.523 lbs/force	Pull #10	9.557 lbs/force
Pull #11	6.443 lbs/force	Pull #12	6.899 lbs/force	Pull #13	9.611 lbs/force	Pull #14	8.913 lbs/force	Pull #15	10.50 lbs/force

Uncertainty:

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Test Report Approval:

Digitally signed by Erle Miles
DN: cn=Erle Miles, o=Testing
Services Inc., ou,
email=histofice@optilink.us, c=US

Erle Miles, III, Lab Director Testing Services (TSI) LLC

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CLIENT:

OLILIT.			
Company:	Watersavers Turf	Report Number:	79706
Address:	4316 Redwood Hwy, Ste 100	Lab Test Number:	3169-2419
	San Rafael, CA 94903	Test Completion Date:	2/18/2020
		Report Date:	2/19/2020
		Page:	1 of 1

TEST MATERIAL:

Material Type:	Synthetic Turf	Synthetic Turf			Received:	2/5/2020	
Material Condition:	EXCELLENT:	XXX	GOOD:	POOR:		REJECTED:	
Product ID:	Performance Putt				·		

TESTING METHODS REQUESTED:

TESTING WETTIO	DO REQUESTED.					
Testing Services Inc. was instructed by the client to test for the following						
Standard: ASTM D5034 Test Method:			Standard Test Method for Breaking Strength of Textile Fabrics (Grab)			

SAMPLING PLAN:

Sampling Date:	2/5/2020

- 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 humidly.

 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

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 D5034-09(2017)	Average Grab Tear Strength of Length Direction (MD)	306.6 lbs/force
ASTM D5034-09(2017)	Average Grab Tear Strength of Width Direction (CMD)	290.2 lbs/force

Uncertainty:

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Test Report Approval:

TSi Accreditation:

Enthile.

Erle Miles, III, Lab Director Testing Services (TSI) LLC

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Technical Data Sheet: Performance Putt

Product	Property	Imperial	Metric	Description
Properties:		Unit	Unit	
	Fiber Type			Polypropylene Curled as Thatch
	Fiber Mass	Denier 5400	Detex 6000	Polypropylene
	Pile Height	.50 in	12.70 mm	
	Color(s)			Medium Bi-Color Green
	Tufting Gauge	.188 in	4.775 mm	
	Stitch Rate	34.544/4in	34/10cm	
	Stitches	85,393.689/yd ²	71,400/m ²	
	Primary Backing	5.899 oz/yd²	200.00 g/m ²	Polypropylene and Polyester fiber
	Secondary Backing	7.101 oz/yd²±5%	240.789 g/m ² ±5%	Urethane
	Total Backing Weight	13.00 oz/yd²±1.5oz	440.789 g/m ² ±50g	
	Micron	120		

Performance Properties:	Property	Imperial Unit	Metric Unit	Test Method
	Face Weight	43.60 oz/yd²	1,478.339 g/m ²	ASTM D5848-10e1
	Total Weight	56.60 oz/yd²	1,919.128 g/m ²	ASTM D5848-10e1
	Permeability	71.00 in/ft²/hr	1,941.227 cm/m²/hr	ASTM F1551; Suffix-DIN 18-035,
				Part 6
	Melting Point	250 °F	121 °C	
	Tuft Bind	8.20 lb-f	36.475 N	ASTM-D1335-17e1
	Grab Tear MD	306.60 lb-f	1,363.825 N	ASTM-D5034-05
	Grab Tear CMD	290.20 lb-f	1,290.874 N	ASTM-D5034-05
	Infill Amount (recommended)	¾ of the Pile Height		

Packaging:	Property	Imperial Unit	Metric Unit	Description
	Model Number			Performance Putt
	Roll Width	15 ft	4.57 m	
	Roll Length	100 ft	30.48 m	
	Area per Roll	1,500 ft ²	139.355 m ²	
	Total Roll Weight	735 lbs	333.390 kg	