

Product Specification Sheet

Professional Play

USES:

Landscape

Lawns

Playgrounds

Traffic Medians

Pet Areas

Commercial or Residential

Light-Heavy Traffic

SPECIFICATIONS:

Pile Height: 1-1/4"

Turf Gauge: 3/8"

Face Weight: 50 oz./yd²

Backing Weight: 27 oz./yd2

Total Weight; 77 oz./yd2

Stitch Rate: 17.5/10cm

Stitches/m2: 18375

Material/Dtex: PE 10200 & PP4400

Color: Emerald Green and Olive Green

with Brown and Green Thatching

Type Of Fiber: PE Monofilament and PP

Curled As Thatch

Report Date: December 23, 2015 Work Order: 15122123 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: December 23, 2015

Work Order: 15122123

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
410818	Professional Play	turf	2015-12-20	00:00	2015-12-21

Sample: 410818 - Professional Play

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



Certificate of Analysis Summary 627488

Watersavers Turf, San Rafael, CA

Project Name: Turf Testing



Project Id: Turf Testing Series 4

Project Location: USA

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

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

	Lab Id:	627488-001			
Annalusia Dannasta I	Field Id:	Turf Series 4			
Analysis Requested	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 22:23			
	Units/RL:	mg/kg RL			
Lead		<0.943 0.943			

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: Professional Play Xenco Sample #: 627488

Lead Results: Less than one part per million

Synthetic fibers from turf product Professional Play, 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 less than one milligram lead per kilogram synthetic fiber (<1mg/KG).

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/19



CLIENT:

Company:	Watersavers Turf	Report Number:	67979B
Address:	4316 Redwood Hwy, Ste 100	Lab Test Number:	2835-9355
	San Rafael, CA 94903	Test Completion Date:	7/8/2016
		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:		ECTED:
Turf ID:	Professional Play					

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
- 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 r	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)	121.4 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 Pre-Conditioning: none

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 trie Miles Bate: 2016.07.21 09:15:47 - 04

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:	79395
Address:	4316 Redwood Hwy, Ste 100	Lab Test Number:	3169-2429
	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: 1/13		20
Material Condition:	EXCELLENT:	XXX	GOOD:		POOR:	RE	JECTED:	
Turf Identification:	Professional Play							
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:

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	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 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

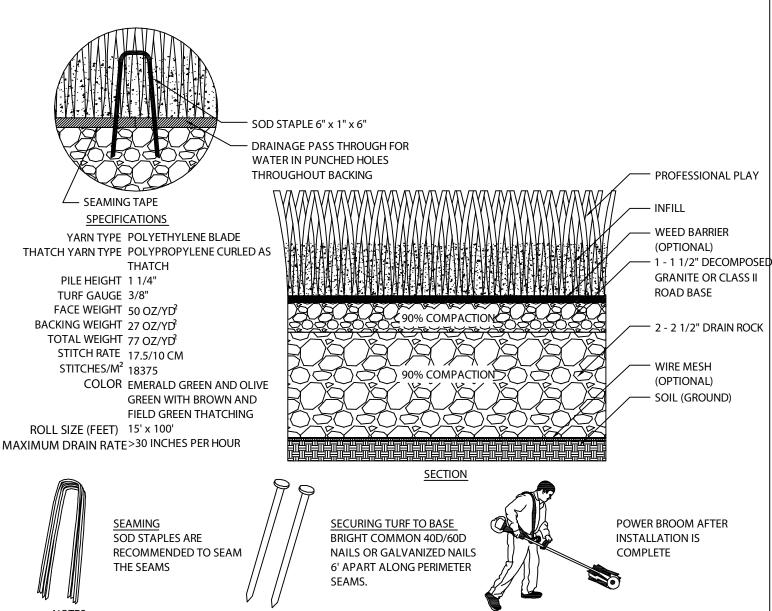




100108-0



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



- 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: FIELD GREEN AND OLIVE GREEN WITH BROWN AND FIELD GREEN THATCHING.
- 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.





CLIENT:

Company:	Watersavers Turf	Report Number:	67979A
Address:	4316 Redwood Hwy, Ste 100	Lab Test Number:	2835-9355
	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.	ECTED:	
Turf ID:	Professional Play							

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	76.63 oz/yd²
ASTM D5848-10e1	Pile Yarn Weight	50.05 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:

Digitally signed by Erie Miles Date: 2016.07.21 09:16:11 -04'0

Erle Miles, Jr. VP, Testing Services Inc

TSi Accreditation: Our labo

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:	79421
Address:	4316 Redwood Hwy, Ste 100	Lab Test Number:	3169-2420
	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:	Professional Play							

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

TEST SUMMARY:

TEST METHOD	TEST DESCRIPTION	TEST RESULT					
ASTM D1335-17e1	Average Tuft Bind Strength	17.4 lbs/force					

> Each individual pull was made from a combination of monofilament and textured fibers, same needle site

Pull #1	18.66 lbs/force	Pull #2	19.95 lbs/force	Pull #3	18.50 lbs/force	Pull #4	19.01 lbs/force	Pull #5	18.09 lbs/force
Pull #6	19.76 lbs/force	Pull #7	17.56 lbs/force	Pull #8	14.63 lbs/force	Pull #9	16.67 lbs/force	Pull #10	17.37 lbs/force
Pull #11	14.95 lbs/force	Pull #12	15.89 lbs/force	Pull #13	14.71 lbs/force	Pull #14	19.36 lbs/force	Pull #15	16.11 lbs/force

Uncertainty:

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Test Report Approval:

TSi Accreditation

Digitally signed by the Miles DN: cmrtrle Miles, on Testing Services Inc., co., email tricifice@opslink.us, cnUS Date: 202001.18 004-003-05700'

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

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CLIENT:

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Company:	Watersavers Turf	Report Number:	79707
Address:	4316 Redwood Hwy, Ste 100	Lab Test Number:	3169-2420
	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			Date Rec	eived:	2/5/2020		
Material Condition:	EXCELLENT:	XXX	GOOD:		POOR:		REJECTED:	
Product ID:	Professional Play							

TESTING METHODS REQUESTED:

TESTING WETTIO	TESTING METHODS 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)	275.8 lbs/force
ASTM D5034-09(2017)	Average Grab Tear Strength of Width Direction (CMD)	230.7 lbs/force

Uncertainty:

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Test Report Approval:

TSi Accreditation:



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Technical Data Sheet: Professional Play

Product Properties:	Property	Imperial Unit	Metric Unit	Description
	Fiber Type			Polyethylene Monofilament and Polypropylene Curled as Thatch
	Fiber Mass	Denier 9180/3960 Monofilament	Detex 10200/4400 Monofilament	Polyethylene
	Pile Height	1.25 in	31.75 mm	
	Color(s)			Emerald Green and Olive Green with Brown and Green Thatching
	Tufting Gauge	.375 in	9.525 mm	
	Stitch Rate	17.78/4in	17.5/10cm	
	Stitches	15,363.338/yd ²	18,375/m²	
	Primary Backing	5.899 oz/yd²	200.00 g/m ²	Polypropylene and Polyester fiber
	Secondary Backing	20.681 oz/yd ² ±5%	701.227g/m ² ±5%	Urethane
	Total Backing Weight	26.58 oz/yd ² ±1.5oz	901.244 g/m ² ±50g	
	Micron	470		
Performance Properties:	Property	Imperial Unit	Metric Unit	Test Method
-	Face Weight	50.05 oz/yd ²	1,697.039 g/m ²	ASTM D5848-10e1
	Total Weight	76.63 oz/yd²	2,598.283 g/m ²	ASTM D5848-10e1
	Permeability	121.40 in/ft²/hr	3,319.225 cm/m ² /hr	ASTM F1551; Suffix-DIN 18-035, Part 6
	Melting Point	176 °F for Blades (green) 250 °F for Thatch (brown and curled)	80 °C for Blades(green) 121 °C for Thatch (brown and green curled)	
	Tuft Bind	17.40 lb-f	77.399 N	ASTM-D1335-17e1
	Grab Tear MD	275.80 lb-f	1,226.820 N	ASTM-D5034-05
	Grab Tear CMD	230.70 lb-f	1,026.205 N	ASTM-D5034-05
	Infill Amount (recommended)	¾ of the Pile Height		
Packaging:	Property	Imperial	Metric	Description
		Unit	Unit	
	Model Number			Professional Play
	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	865 lbs	392.357 kg	