

Product Specification Sheet

Monte Verde

USES:

Landscape
Lawns
Playgrounds
Traffic Medians
Pet Areas
Commercial or Residential
Light-Heavy Traffic

SPECIFICATIONS:

Pile Height: 1-³/₄"
Turf Gauge: 3/8"
Face Weight: 84 oz./yd²
Backing Weight: 30 oz./yd²
Total Weight: 114 oz./yd²
Stitch Rate: 18/10 cm
Stitches/m²: 18900
Material/Dtex: PE16400 + PP16400
Color: Lime Green and Emerald Green
with Brown and Green Thatching
Type Of Fiber: PE Monofilament and PP
Curled As Thatch

Summary Report

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

Report Date: November 22, 2013

Work Order: 13103137



Project Location: U.S.A.

Project Name: Turf Test

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
345398	Monte Verde	turf	2013-10-28	00:00	2013-10-31

Sample: 345398 - Monte Verde

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



Certificate of Analysis Summary 627487



Watersavers Turf, San Rafael, CA

Project Name: Turf Testing

Project Id: Turf Testing 3

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:	627487-001				
	Field Id:	Turf Series 3				
	Depth:					
	Matrix:	SOLID				
	Sampled:	Jun-07-19 00:00				
Total Lead SUB: T104704215-19-29	Extracted:	Jun-16-19 14:30				
	Analyzed:	Jun-17-19 22:18				
	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

John Builes
Project Manager

CERTIFICATE OF ANALYSIS

Client: Watersavers Turf
Product: Monte Verde
Xenco Sample #: 627486
Lead Results: Less than one part per million

Synthetic fibers from turf product Monte Verde, 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).



Dr. Blair Leftwich, Director

06/18/19

Date

TEST REPORT

CLIENT:

Company:	Watersavers Turf.	Report Number:	79409
Address:	4316 Redwood Hwy, Ste 100	Lab Test Number:	3169-2443
	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 Received:	1/13/2020
Material Condition:	EXCELLENT: XXX GOOD:	POOR:	REJECTED:
Turf Identification:	Monte Verde		
Infill:	None		

TESTING METHODS REQUESTED:

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

SAMPLING PLAN:

Sampling Date:	1/13/2020
<ul style="list-style-type: none"> • 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 humidity. • 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 centrally 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	
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



TEST REPORT

CLIENT:

Company:	Watersavers Turf	Report Number:	67655B
Address:	4316 Redwood Hwy, Ste 100	Lab Test Number:	2820-8789
	San Rafael, CA 94903	Test Completion Date:	6/8/2016
		Report Date:	6/10/2016
		Page:	1 of 1

TEST MATERIAL:

Material Type:	Synthetic Turf			Date Received:	5/24/2016
Material Condition:	EXCELLENT:	XXX	GOOD:	POOR:	REJECTED:
Style:	Monte Verde				

TESTING METHODS REQUESTED:

<i>Testing Services Inc. was instructed by the client to test for the following...</i>			
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:	5/24/2016
<ul style="list-style-type: none"> 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 humidity. 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)	131.0 inches/hour

** Test data values represent drainage rates for the turf with infill only, and do not take into account the percolation properties of a sub-base and/or padding.*

Infill System: 1.0 lbs/ft ² Silica 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:

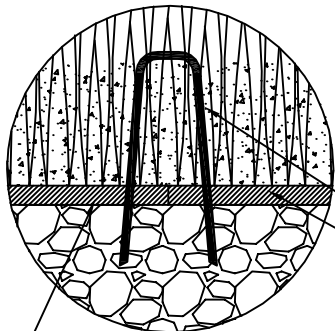
Erle Miles, Jr. VP, Testing Services Inc

TSI Accreditation: Our laboratory is accredited by the US Dept of Commerce, National Institute of Standards and Technology: ISO/IEC 17025:2005.
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: Jun. 13, 16 Printed copies are uncontrolled		

OUR LETTERS AND REPORTS APPLY ONLY TO THE SAMPLE TESTED AND ARE NOT NECESSARILY INDICATIVE OF THE QUALITIES OF APPARENTLY IDENTICAL OR SIMILAR PRODUCTS. THESE LETTERS AND REPORTS ARE FOR THE USE ONLY OF THE CLIENT TO WHOM THEY ARE ADDRESSED AND THEIR COMMUNICATION TO ANY OTHERS OR THE USE OF THE NAME TESTING SERVICES, INC. MUST RECEIVE OUR PRIOR WRITTEN APPROVAL. OUR REPORTS, LETTERS, NAME, SEALS, OR INSIGNIA ARE NOT UNDER ANY CIRCUMSTANCES TO BE USED IN ADVERTISING TO THE GENERAL PUBLIC.

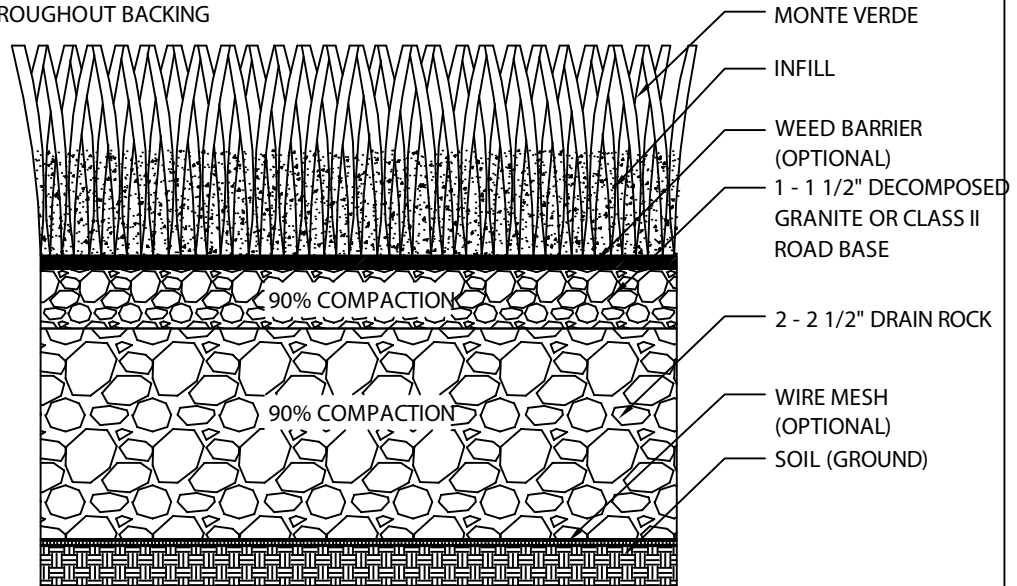
**PO Box 2041
Dalton, GA 30722-2041
(706) 226-1400
tsioffice@optilink.us**



SOD STAPLE 6" x 1" x 6"
 DRAINAGE PASS THROUGH FOR WATER IN PUNCHED HOLES THROUGHOUT BACKING

SEAMING TAPE
 SPECIFICATIONS

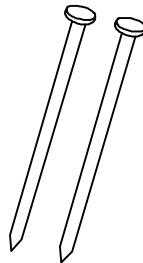
YARN TYPE POLYETHYLENE M SHAPE BLADE
 THATCH YARN TYPE POLYPROPYLENE CURLED AS THATCH
 PILE HEIGHT 1 3/4"
 TURF GAUGE 3/8"
 FACE WEIGHT 84 OZ YD²
 BACKING WEIGHT 30 OZ YD²
 TOTAL WEIGHT 114 OZ YD²
 STITCH RATE 18/10 CM
 STITCHES/M² 138900
 COLOR EMERALD GREEN AND LIME GREEN WITH BROWN AND GREEN THATCHING
 ROLL SIZE (FEET) 15' x 100'
 MAXIMUM DRAIN RATE >30 INCHES PER HOUR



SECTION



SEAMING
 SOD STAPLES ARE RECOMMENDED TO SEAM THE SEAMS



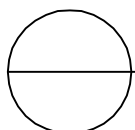
SECURING TURF TO BASE
 BRIGHT COMMON 40D/60D NAILS OR GALVANIZED NAILS 6' APART ALONG PERIMETER SEAMS.



POWER 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: EMERALD GREEN AND OLIVE GREEN WITH 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.



MONTE VERDE



TEST REPORT

CLIENT:

Company:	Watersavers Turf	Report Number:	67655A
Address:	4316 Redwood Hwy, Ste 100	Lab Test Number:	2820-8789
	San Rafael, CA 94903	Test Completion Date:	6/6/2016
		Report Date:	6/10/2016
		Page:	1 of 1

TEST MATERIAL:

Material Type:	Synthetic Turf	Date Received:	5/24/2016
Material Condition:	EXCELLENT: XXX GOOD:	POOR:	REJECTED:
Style:	Monte Verde		

TESTING METHODS REQUESTED:

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

SAMPLING PLAN:

Sampling Date:	5/24/2016
<ul style="list-style-type: none"> 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 humidity. 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	113.46 oz/yd ²
ASTM D5848-10e1	Pile Yarn Weight	84.05 oz/yd ²

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:

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: Jun. 13, 16 Printed copies are uncontrolled		

OUR LETTERS AND REPORTS APPLY ONLY TO THE SAMPLE TESTED AND ARE NOT NECESSARILY INDICATIVE OF THE QUALITIES OF APPARENTLY IDENTICAL OR SIMILAR PRODUCTS. THESE LETTERS AND REPORTS ARE FOR THE USE ONLY OF THE CLIENT TO WHOM THEY ARE ADDRESSED AND THEIR COMMUNICATION TO ANY OTHERS OR THE USE OF THE NAME TESTING SERVICES, INC. MUST RECEIVE OUR PRIOR WRITTEN APPROVAL. OUR REPORTS, LETTERS, NAME, SEALS, OR INSIGNIA ARE NOT UNDER ANY CIRCUMSTANCES TO BE USED IN ADVERTISING TO THE GENERAL PUBLIC.

PO Box 2041
Dalton, GA 30722-2041
(706) 226-1400
tsioffice@optilink.us



TEST REPORT

CLIENT:

Company:	Watersavers Turf	Report Number:	79415
Address:	4316 Redwood Hwy, Ste 100	Lab Test Number:	3169-2414
	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 Received:	1/13/2020	
Material Condition:	EXCELLENT:	XXX	GOOD:		POOR:		REJECTED:
Product ID:	Monte Verde						

TESTING METHODS REQUESTED:

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

SAMPLING PLAN:

Sampling Date:	1/13/2020
<ul style="list-style-type: none"> 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 humidity. 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 D1335-17e1	Average Tuft Bind Strength	12.6 lbs/force

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

Pull #1	11.46 lbs/force	Pull #2	9.353 lbs/force	Pull #3	10.34 lbs/force	Pull #4	9.911 lbs/force	Pull #5	12.49 lbs/force
Pull #6	12.86 lbs/force	Pull #7	15.96 lbs/force	Pull #8	15.26 lbs/force	Pull #9	16.91 lbs/force	Pull #10	15.04 lbs/force
Pull #11	13.31 lbs/force	Pull #12	10.04 lbs/force	Pull #13	9.901 lbs/force	Pull #14	11.19 lbs/force	Pull #15	14.74 lbs/force

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



OUR LETTERS AND REPORTS APPLY ONLY TO THE SAMPLE TESTED AND ARE NOT NECESSARILY INDICATIVE OF THE QUALITIES OF APPARENTLY IDENTICAL OR SIMILAR PRODUCTS. THESE LETTERS AND REPORTS ARE FOR THE USE ONLY OF THE CLIENT TO WHOM THEY ARE ADDRESSED AND THEIR COMMUNICATION TO ANY OTHERS OR THE USE OF THE NAME TESTING SERVICES, INC. MUST RECEIVE OUR PRIOR WRITTEN APPROVAL. OUR REPORTS, LETTERS, NAME, SEALS, OR INSIGNIA ARE NOT UNDER ANY CIRCUMSTANCES TO BE USED IN ADVERTISING TO THE GENERAL PUBLIC.

817 Showalter Ave
Dalton, GA 30722
(706) 226-1400
tsioffice@optilink.us

TEST REPORT

CLIENT:

Company:	Watersavers Turf	Report Number:	79701
Address:	4316 Redwood Hwy, Ste 100	Lab Test Number:	3169-2414
	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 Received:	2/5/2020
Material Condition:	EXCELLENT:	XXX	GOOD:	POOR:	REJECTED:
Product ID:	Monte Verde				

TESTING METHODS REQUESTED:

<i>Testing Services Inc. was instructed by the client to test for the following...</i>	
Standard:	ASTM D5034
Test Method:	Standard Test Method for Breaking Strength of Textile Fabrics (Grab)

SAMPLING PLAN:

Sampling Date:	2/5/2020
<ul style="list-style-type: none"> • 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 humidity. • 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)	245.1 lbs/force
ASTM D5034-09(2017)	Average Grab Tear Strength of Width Direction (CMD)	212.3 lbs/force

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

