

NOTICE OF APPROVAL

The Department of Community Planning & Building of the City of Carmel-by-the-Sea has approved a Project pursuant to the City's Municipal Code. Persons interested in the project may review additional materials available at the Department of Community Planning & Building located at City Hall on Monte Verde Street between Ocean and 7th Avenues, phone number 831-620-2010.

<u>The decision to approve this project may be appealed within 10 days from the date of this</u> <u>by filing a written appeal with the Department of Community Planning & Building.</u>

Planning Case #: Design Study 22355

Owner Name: CARMEL PENINSULA PROPERTIES L L C

Case Planner: Suray Nathan, Assistant Planner

Date Posted: _____

Date Approved: 12/07/2022

Project Location: NE Corner of Lincoln & 10th

APN #: 010157008000 BLOCK/LOT: 112/ALL LOT 20

Applicant: Taylor McCormick

Project Description: Authorizes the demolition of an approximately 500 square feet existing nonpermeable brick patio surface and replace with a combination of 27% permeable turf surface and 73% stone surface and interlace the stone pavers with 5-inch artificial turf strips

Can this project be appealed to the Coastal Commission? Yes □ No ☑

Upon completion of the 10 calendar-day appeal period, please return this form, along with the *Affidavit of Posting*, to the case planner noted above.

	CONDITIONS OF APPROVAL	
No.	Standard Conditions	
1.	Authorization. Approval of Design Study (DS 22-355, Cheney) authorizes the demolition of an approximately 500 square feet existing non-permeable brick patio surface and replace with a combination of 27% permeable turf surface and 73% stone surface and interlace the stone pavers with 5-inch artificial turf strips located on NE Corner of Lincoln & 10th Avenue in the Single-Family Residential (R-1) District as depicted in the plans prepared by Taylor McCormick stamped approved and on file in the Community Planning & Building Department unless modified by the conditions of approval contained herein.	✓
2.	Codes and Ordinances. The project shall be constructed in conformance with all requirements of the R-1 zoning district. All adopted building and fire codes shall be adhered to in preparing the working drawings. If any codes or ordinances require design elements to be changed, or if any other changes are requested at the time such plans are submitted, such changes may require additional environmental review and subsequent approval by the Planning Commission.	✓
3.	Permit Validity. This approval shall be valid for a period of one year from the date of action unless an active building permit has been issued and maintained for the proposed construction.	✓
4.	Water Use. Approval of this application does not permit an increase in water use on the project site without adequate supply. Should the Monterey Peninsula Water Management District determine that adequate water is not available for this site, this permit will be scheduled for reconsideration and appropriate findings prepared for review and adoption by the Planning Commission.	~
5.	Service Laterals. All electrical service laterals to any new building or structure, or to any building or structure being remodeled when such remodeling requires the relocation or replacement of the main service equipment, shall be placed underground on the premises upon which the building or structure is located. Undergrounding will not be required when the project valuation is less than \$200,000 or when the City Forester determines that undergrounding will damage or destroy significant trees(s) (CMC 15.36.020).	✓
6.	Modifications. The applicant shall submit in writing, with revised plans, to the Community Planning and Building staff any proposed changes to the approved project plans prior to incorporating those changes. If the applicant changes the project without first obtaining City approval, the applicant will be required to submit the change in writing, with revised plans, within 2 weeks of the City being notified. A cease work order may be issued any time at the discretion of the Director of Community Planning and Building until: a) either the Planning Commission or Staff has approved the change, or b) the property owner has eliminated the change and submitted the proposed change in writing, with revised plans, for review. The project will be reviewed for its compliance to the approved plans prior to final inspection.	

/.	Exterior Revisions to Planning Approval Form. All proposed modifications that affect	
	the exterior appearance of the building or site elements shall be submitted on the	
	"Revisions to Planning Approval" form on file in the Community Planning and Building	
	Department. Any modification incorporated into the construction drawings that is	
	not listed on this form, shall not be deemed approved upon issuance of a building	
	permit.	
8.	Conflicts Between Planning Approvals and Construction Plans. It shall be the responsibility of the Owner, Applicant, and Contractor(s) to ensure consistency between the project plans approved by Planning Staff, the Planning Commission, or the City Council on appeal, and the construction plans submitted to the Building Division as part of the Building Permit review. Where inconsistencies between the Planning approval and the construction plans exist, the Planning approval shall govern, unless otherwise approved in writing by the Community Planning & Building Director, or their designee.	
	When changes or modifications to the project are proposed, the Applicant shall clearly list and highlight each proposed change and bring each change to the City's attention. Changes to the project that are incorporated into the construction drawings that were not clearly listed or identified as a proposed change shall not be considered an approved change. Should conflicts exist between the originally approved project plans and the issued construction drawings that were not explicitly identified as a proposed change the plans approved as part of the Planning	
	Department Review, including any Conditions of Approval, shall prevail.	
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12.	approval or any significant tree is endangered as a result of construction activity, the building permit will be suspended and all work stopped until an investigation by the City Forester has been completed. Twelve inches (12") of mulch shall be evenly spread inside the dripline of all trees prior to the issuance of a building permit. Erosion Control in the Right-of-Way . Projects with a natural slope within the right-of- way immediately adjacent to the property where parking is not practical shall install jute netting and a drought tolerant ground cover to manage post-construction erosion control. Plants installed within the drip line of trees shall be selected from the City's "List of Compatible Plants Under and Around Native Trees" located in the Forest Management Plan.	✓
13.	 Tree Protection Measures. Requirements for tree preservation shall adhere to the following tree protection measures on the construction site. Prior to grading, excavation, or construction, the developer shall clearly tag or mark all trees to be preserved. Excavation within 6 feet of a tree trunk is not permitted. No attachments or wires of any kind, other than those of a protective nature shall be attached to any tree. Per Municipal Code Chapter 17.48.110 no material may be stored within the dripline of a protected tree to include the drip lines of trees on neighboring parcels. Tree Protection Zone The Tree Protection Zone shall be equal to dripline or 18 inches radially from the tree for every one inch of trunk diameter at 4.5 feet above the soil line, whichever is greater. A minimum of 4-foot-high transparent fencing is required unless otherwise approved by the City Forester. Tree protection shall not be resized, modified, removed, or altered in any manner without written approval. The fencing must be maintained upright and taught for the duration of the project. No more than 4 inches of wood mulch shall be installed 18 inches radially from the tree for every one inch of trunk diameter at 4.5' feet above the soil line, whichever is greater. Any excavation or changes to the grade shall be approved by the City Forester. Tree protection Zone is at or within the drip line, no less than 6 inches of wood mulch shall be installed 18 inches radially from the tree for every one inch of trunk diameter at 4.5' feet above the soil line whichever is greater. Any excavation or changes to the grade shall be approved by the City Forester prior to work. Excavation within the Structural Root Zone shall be performed with a pneumatic excavator, hydro-vac at low pressure, or another method that does not sever roots. If roots greater than 2 inches in diameter or larger are encountered within the approved Structural Root zone the City Forester shall be contacted for	

	• If roots larger than 2 inches in diameter are cut without prior City Forester	
	approval or any significant tree is endangered as a result of construction	
	activity, the building permit will be suspended and all work stopped until an	
	investigation by the City Forester has been completed and mitigation	
	measures have been put in place.	
14.	Exterior Lighting. Exterior lighting shall be limited to 25 watts or less (incandescent	\checkmark
	equivalent, i.e., 375 lumens) per fixture and shall be no higher than 10 feet above the	
	ground. Landscape lighting shall not exceed 18 inches above the ground nor more	
	than 15 watts (incandescent equivalent, i.e. 225 lumens) per fixture and shall be	
	spaced no closer than 10 feet apart. Landscape lighting shall not be used for tree,	
	wall, fence or accent lighting of any type. The purpose of landscape lighting is to safely	
	illuminate walkways and entrances to the subject property. All fixtures shall be	
	shielded and down facing. The manufacturer's specifications, including illumination	
	information for each exterior light fixture shall be included in the construction	
	drawings submitted with the building permit application	
15	Indemnification The applicant agrees at his or her sole expense to defend	./
10.	indemnify and hold harmless the City its public officials officers employees and	v
	assigns from any liability: and shall reimburse the City for any expense incurred	
	resulting from or in connection with any project approvals. This includes any appeal	
	claim suit or other legal proceeding to attack set aside yold or appul any project	
	cially, suit, of other legal proceeding, to attack, set aside, void, of allful any project	
	approval. The City shall promptly notify the applicant of any legal proceeding, and	
	shall cooperate fully in the defense. The City may, at its sole discretion, participate in	
	any such legal action, but participation shall not relieve the applicant of any obligation	
	under this condition. Should any party bring any legal action in connection with this	
	project, the Superior Court of the County of Monterey, California, shall be the situs	
	and have jurisdiction for the resolution of all such actions by the parties hereto.	
16.	Driveway. The driveway material shall extend beyond the property line into the public	\checkmark
	right of way as needed to connect to the paved street edge. A minimal asphalt	
	connection at the street edge may be required by the Superintendent of Streets or	
	the Building Official, depending on site conditions, to accommodate the drainage flow	
	line of the street. The driveway material and asphalt connection shall be clearly	
	identified on the construction drawings submitted with the building permit	
	application. If a driveway is proposed to be sand set a dimensioned construction	
	detail showing the base material shall be included in the construction drawings.	
17.	Hazardous Materials Waste Survey. A hazardous materials waste survey shall be	\checkmark
	required in conformance with the Monterey Bay Unified Air Pollution Control District	
	prior to issuance of a demolition permit.	
18.	Cultural Resources. All new construction involving excavation shall immediately cease	\checkmark
	if cultural resources are discovered on the site, and the applicant shall notify the	
	Community Planning & Building Department within 24 hours. Work shall not be	
	permitted to recommence until such resources are properly evaluated for	
	significance by a qualified archaeologist. If the resources are determined to be	

	significant, prior to resumption of work, a mitigation and monitoring plan shall be prepared by a qualified archaeologist and reviewed and approved by the Community Planning and Building Director. In addition, if human remains are unearthed during excavation, no further disturbance shall occur until the County Coroner has made the necessary findings as to origin and distribution pursuant to California Public Resources Code (PRC) Section 5097.98.	
19.	USA North 811. Prior to any excavation or digging, the applicant shall contact the appropriate regional notification center (USA North 811) at least two working days, but not more than 14 calendar days, prior to commencing that excavation or digging. No digging or excavation is authorized to occur on site until the applicant has obtained a Ticket Number and all utility members have positively responded to the dig request. (Visit USANorth811.org for more information)	\checkmark
20.	Conditions of Approval. All conditions of approval for the Planning permit(s) shall be printed on a full-size sheet and included with the construction plan set submitted to the Building Safety Division.	~
	SPECIAL CONDITIONS	
21.	Notice of Authorized Work. The applicant shall apply for and obtain a Notice of Authorized work for the installation of the new synthetic turf and the stone surface installation prior to commencing work.	\checkmark
22.	Turf Requirements. The synthetic grass and associated base-rock materials shall be located a minimum of six feet from the base of any tree in order to adequately protect tree roots. The synthetic grass shall present the appearance of natural grass (approved material: Professional Play: with drainage of 121 inches, 1-1/4" pile height by WatersaverTurf). The synthetic grass and associated base material is shall be set with the ability to percolate water into the soil.	✓
23.	Final Inspection. A final inspection is required by the Planning Division.	\checkmark

Acknowledgement and acceptance of conditions of approval:

Property Owner Signature

Printed Name

Date

Once signed, please email to <u>snathan@ci.carmel.ca.us</u>.



Cheney Artificial Turf Calculations APN: 010-157-008-000 Taylor McCormick 831-206-2451 Stocker & Allaire General Contractors 12/2/22

- 1. The area to be covered by stone and turf totals 500 square feet (attachment #1)
- 2. A typical "section" of stone/turf is 37" square (see attachment #2)
- 3. 37" square is 1,369 square inches (9.5 square feet)

4. The 5" x 37" patches of turf in that 37" square is 370 square inches (2.6 square feet)

5. 2.6 is <u>27 percent</u> of 9.5. Thus, 27% of coverage will be permeable turf, 73% will be stone. Currently, coverage is 100 non-permeable brick in this area.

6. 27% of 500SF = 135 square feet.



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Typical Cheney Patio Stone/Turf "section"



Cheney Stone Surfaces











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

Summary Report

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

Report Date: December 23, 2015

Work Order: 15122123

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

			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	m mg/Kg	1



Certificate of Analysis Summary 627488

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



Project Id: 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			
Analysis Daguastad	Provented Field Id:	Turf Series 4			
Anulysis Kequesieu	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

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).

Blain Leptinich

Dr. Blair Leftwich, Director

06/18/19

Date



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	5
Material Condition:	EXCELLENT:	XXX	GOOD:		POOR:	RE	EJECTED:	
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								
	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 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/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. 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				

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.

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CLIENT: Report Number: Watersavers Turf. 79395 Company 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 Date Received: 1/13/2020 Material Condition: EXCELLENT: XXX GOOD: POOR: **REJECTED:** 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 cimen sampling is performed in the sam pling 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			
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



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



- 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.

PROFESSIONAL PLAY



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 Die Mine Date: 2016.07.21 09:16:11-04/07	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				

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CLIENT: 79421 Company Watersavers Turf. Report Number: Address: 4316 Redwood Hwy, Ste 100 Lab Test Number: 3169-2420 San Rafael, CA 94903 Test Completion Date: 1/16/2020 1/18/2020 Report Date: Page: 1 of 1

TEST MATERIAL:							
Material Type:	Synthetic Turf			Date Re	ceived:	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:	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:

State reason for any Deviation from, Additions to, or Exclusions From Test Method.

None

TEST	SU	IMM.	ARY:
	~ ~		

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:

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:

Microsofter, Malla, or Reading Microsofter, Microsofter, Access Microsofter, Microsofter, Access Microsofter, Microsofter, Access Microsofter, M

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



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CLIENT:

Company:		Watersavers Turf		Report Number: 79707		79707			
Address: 4316 Redwood Hwy, Ste			ste 100	Lab Test Number:		3169-2420			
San Rafael, CA 94903			Test Completion Date: 2/18/2		2/18/2020)			
			Report Date: 2/		2/19/2020	2/19/2020			
					Page	e:		1 of 1	
TEST MATERIAL:									
Material Type:		Synthetic Turf			Date Received:		ceived:	2/5/2020	
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 D5034	Test Method:		Standard Test	Metho	d for Breaking S	Strenath of Texti	ile Fabrics (Grah)

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: 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:

Setting.	DN: cnrible Miles on Testing Services Inc., ou, email:rbioffice@optilinkus, cHDS Date: 2020.02.19 14:56:24 -05:00*	Erle Miles, III, Lab Director Testing Services (TSI) LLC	
TSi Accreditation	n.	Our laboratory is accredited by the LIS Dept. of Commerce	Natio

nal 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



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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/m ²	
	Primary Backing	5.899 oz/yd ²	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/yd ²	2,598.283 g/m ²	ASTM D5848-10e1
	Permeability	121.40 in/ft ² /hr	3,319.225 cm/m²/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
	Model Number	Unit	Unit	Professional Play
	Roll Width	15 ft	4.57 m	i totossionai i lay
	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	