

# Product Specification Sheet

## Sequoia

**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: 90 oz./yd<sup>2</sup>  
Backing Weight: 22 oz./yd<sup>2</sup>  
Total Weight: 112 oz./yd<sup>2</sup>  
Stitch Rate: 20.5/10cm  
Stitches/m<sup>2</sup>: 21525  
Material/Dtex: PE14400 + PP 14400  
Color: Emerald Green and Olive Green  
with Brown and Green Thatching  
Type Of Fiber: PE Monofilament and PP  
Curled As Thatch

## Summary Report

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

Report Date: August 20, 2012

Work Order: 12081511



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

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
306805	Sequoia	turf	2012-08-13	00:00	2012-08-15

**Sample: 306805 - S Blade-90**

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



# Certificate of Analysis Summary 627494

Watersavers Turf, San Rafael CA

Project Name: Turf Testing



Project Id: Turf Testing Series 10

Project Location: USA

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

Report Date: 20-JUN-19

Project Manager: John Builes

<b>Analysis Requested</b>	<b>Lab Id:</b>	627494-001					
	<b>Field Id:</b>	Turf Series 10					
	<b>Depth:</b>						
	<b>Matrix:</b>	SOLID					
	<b>Sampled:</b>	Jun-07-19 00:00					
<b>Total Lead</b> <b>SUB: T104704215-19-29</b>	<b>Extracted:</b>	Jun-16-19 14:30					
	<b>Analyzed:</b>	Jun-17-19 22:56					
	<b>Units/RL:</b>	mg/kg RL					
Lead		<0.833 0.833					

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: Sequoia  
Xenco Sample #: 627494  
Lead Results: Less than one part per million

Synthetic fibers from turf product Sequoia, 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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**Dr. Blair Leftwich, Director**

06/18/19

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**Date**



## TEST REPORT

### CLIENT:

Company:	Watersavers Turf	Report Number:	67653B
Address:	4316 Redwood Hwy, Ste 100	Lab Test Number:	2820-8787
	San Rafael, CA 94903	Test Completion Date:	6/2/2016
		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:	Sequoia		

### 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:	5/24/2016
<ul style="list-style-type: none"> <li>Specimen sampling is performed in the sampling department at TSI.</li> <li>The sampling size of specimens is determined by the test method requirements.</li> <li>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.</li> <li>All samples are subjected to the outside environmental conditions of temperature and relative humidity.</li> <li>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</li> </ul>	

### 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)	88.1 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 <sup>2</sup> 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
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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  
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## TEST REPORT

### CLIENT:

Company:	Watersavers Turf	Report Number:	79556
Address:	4316 Redwood Hwy, Ste 100	Lab Test Number:	3173-2593
	San Rafael, CA 94903	Test Completion Date:	1/31/2020
		Report Date:	1/31/2020
		Page:	1 of 1

### TEST MATERIAL:

Material Type:	Synthetic Turf	Date Received:	1/24/2020
Material Condition:	EXCELLENT: XXX GOOD: POOR: REJECTED:		
Turf Identification:	S Blade Series		
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:	1/24/2020
<ul style="list-style-type: none"> <li>Specimen sampling is performed in the sampling department at TSI.</li> <li>The sampling size of specimens is determined by the test method requirements.</li> <li>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.</li> <li>All samples are subjected to the outside environmental conditions of temperature and relative humidity.</li> <li>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</li> </ul>	

### 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:

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### Test Report Approval:

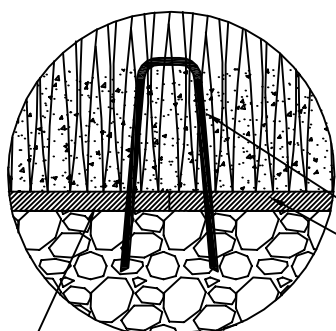
 Erle Miles, III, Lab Director Testing Services (TSI) LLC

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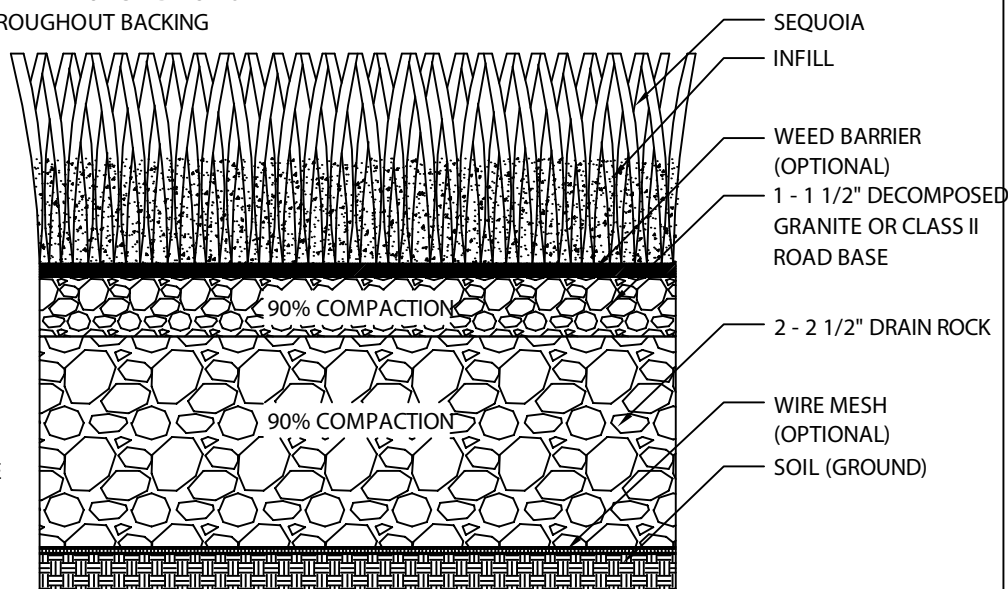


SOD STAPLE 6" x 1" x 6"

DRAINAGE PASS THROUGH FOR  
WATER IN PUNCHED HOLES  
THROUGHOUT BACKING

SEAMING TAPE  
SPECIFICATIONS

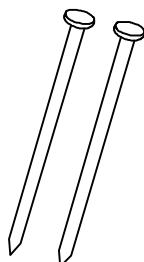
YARN TYPE	POLYETHYLENE S SHAPE
THATCH YARN TYPE	POLYPROPYLENE CURLED AS THATCH
PILE HEIGHT	1 3/4"
TURF GAUGE	3/8"
FACE WEIGHT	90 OZ YD <sup>2</sup>
BACKING WEIGHT	20 OZ YD <sup>2</sup>
TOTAL WEIGHT	110 OZ YD <sup>2</sup>
STITCH RATE	14/10 CM
STITCHES/M <sup>2</sup>	14700
COLOR	EMERALD GREEN AND OLIVE GREEN WITH BROWN AND GREEN THATCHING
ROLL SIZE (FEET)	15' x 75'
MAXIMUM DRAIN RATE	>30 INCHES PER HOUR



SECTION



SEAMING  
SOD STAPLES ARE  
RECOMMENDED TO SEAM  
THE SEAMS



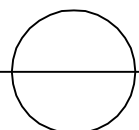
SECURING TURF TO BASE  
BRIGHT COMMON 40D/60D  
NAILS OR GALVANIZED NAILS  
6' APART ALONG PERIMETER  
SEAMS.



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 BROWN AND 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.
7. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT [www.CADdetails.com/info](http://www.CADdetails.com/info) AND ENTER REFERENCE NUMBER 5006-012.



SEQUOIA

## TEST REPORT

### CLIENT:

Company:	Watersavers Turf	Report Number:	67653A
Address:	4316 Redwood Hwy, Ste 100	Lab Test Number:	2820-8787
	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:	Sequoia		

### 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:	5/24/2016
<ul style="list-style-type: none"> <li>Specimen sampling is performed in the sampling department at TSI.</li> <li>The sampling size of specimens is determined by the test method requirements.</li> <li>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.</li> <li>All samples are subjected to the outside environmental conditions of temperature and relative humidity.</li> <li>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</li> </ul>	

### 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	111.61 oz/yd <sup>2</sup>
ASTM D5848-10e1	Pile Yarn Weight	89.20 oz/yd <sup>2</sup>

### Uncertainty:

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### Test Report Approval:

 Erle Miles, Jr. VP, Testing Services Inc

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## TEST REPORT

### CLIENT:

Company:	Watersavers Turf	Report Number:	68711
Address:	4316 Redwood Hwy, Ste 100	Lab Test Number:	2853-0060
	San Rafael, CA 94903	Test Completion Date:	9/20/2016
		Report Date:	9/21/2016
		Page:	1 of 1

### TEST MATERIAL:

Material Type:	Synthetic Turf	Date Received:	9/1/2016
Material Condition:	EXCELLENT: XXX GOOD: POOR: REJECTED:		
Turf ID:	Sequoia		

### 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:	9/1/2016
<ul style="list-style-type: none"> <li>Specimen sampling is performed in the sampling department at TSI.</li> <li>The sampling size of specimens is determined by the test method requirements.</li> <li>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.</li> <li>All samples are subjected to the outside environmental conditions of temperature and relative humidity.</li> <li>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</li> </ul>	

### 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 D1335-13	Average Tuft Bind Strength	9.7 lbs/force

Each individual pull was made on Monofilament yarns, one needle site

Pull #1	9.337 lbs/force	Pull #2	8.215 lbs/force	Pull #3	7.087 lbs/force	Pull #4	13.27 lbs/force	Pull #5	7.017 lbs/force
Pull #6	12.22 lbs/force	Pull #7	10.31 lbs/force	Pull #8	12.41 lbs/force	Pull #9	7.200 lbs/force	Pull #10	12.05 lbs/force
Pull #11	5.662 lbs/force	Pull #12	13.66 lbs/force	Pull #13	9.342 lbs/force	Pull #14	7.178 lbs/force	Pull #15	10.90 lbs/force


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

## TEST REPORT

### CLIENT:

Company:	Watersavers Turf	Report Number:	79703
Address:	4316 Redwood Hwy, Ste 100	Lab Test Number:	3169-2416
	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:	Sequoia						

### 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"> <li>Specimen sampling is performed in the sampling department at TSI.</li> <li>The sampling size of specimens is determined by the test method requirements.</li> <li>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.</li> <li>All samples are subjected to the outside environmental conditions of temperature and relative humidity.</li> <li>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</li> </ul>	

### 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)	290.4 lbs/force
ASTM D5034-09(2017)	Average Grab Tear Strength of Width Direction (CMD)	238.6 lbs/force

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### Test Report Approval:

 Digitally signed by Erle Miles, III, Lab Director Testing Services (TSI) LLC  
DN: cn=Erle Miles, III, o=Testing Services, ou=TSI, email=erle.miles@testing-services.com, c=US

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



## Technical Data Sheet: Sequoia

Product Properties:	Property	Imperial Unit	Metric Unit	Description
	Fiber Type			Polyethylene Monofilament and Polypropylene Curled as Thatch
	Fiber Mass	Denier 12960/12960 Monofilament	Detex 14400/14400 Monofilament	Polyethylene
	Pile Height	1.75 in	44.45 mm	
	Color(s)			Emerald Green and Olive Green with Brown and Green Thatching
	Tufting Gauge	.375 in	9.525 mm	
	Stitch Rate	20.828/4in	20.5/10cm	
	Stitches	25,743.686/yd <sup>2</sup>	21,525/m <sup>2</sup>	
	Primary Backing	5.899 oz/yd <sup>2</sup>	200.00 g/m <sup>2</sup>	Polypropylene and Polyester fiber
	Secondary Backing	16.511 oz/yd <sup>2</sup> ±5%	559.853 g/m <sup>2</sup> ±5%	Urethane
	Total Backing Weight	22.41 oz/yd <sup>2</sup> ±1.5oz	759.853 g/m <sup>2</sup> ±50g	
	Micron		260	

Performance Properties:	Property	Imperial Unit	Metric Unit	Test Method
	Face Weight	89.20 oz/yd <sup>2</sup>	3,024.491 g/m <sup>2</sup>	ASTM D5848-10e1
	Total Weight	111.61 oz/yd <sup>2</sup>	3,784.344 g/m <sup>2</sup>	ASTM D5848-10e1
	Permeability	88.1 in/ft <sup>2</sup> /hr	2,408.774 cm/m <sup>2</sup> /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	13.1 lb-f	58.272 N	ASTM-D1335-17e1
	Grab Tear MD	290.4 lb-f	1,291.764 N	ASTM-D5034-05
	Grab Tear CMD	238.6 lb-f	1,061.346 N	ASTM-D5034-05
	Infill Amount (recommended)	¾ of the Pile Height		

Packaging:	Property	Imperial Unit	Metric Unit	Description
	Model Number			Sequoia
	Roll Width	15 ft	4.57 m	
	Roll Length	100 ft	30.48 m	
	Area per Roll	1,500 ft <sup>2</sup>	139.355 m <sup>2</sup>	
	Total Roll Weight	1,341 lbs	608.267 kg	