

TEST REPORT

CLIENT:

Company:	Turf Distributors	Report Number:	79462F
Address:	42505 Rionedo Road	Lab Test Number:	3165-2285
	Temecula, CA 92590	Test Completion Date:	1/17/2020
		Report Date:	1/17/2020
Requested By:	Dillon Georgian	Page:	1 of 1

TEST MATERIAL:

Material Type:	Synthetic Turf	Synthetic Turf			Date	Received:	12/31/2019	
Material Condition:	EXCELLENT:	EXCELLENT: XXX GOOD: POOR:					REJECTED:	
Product Name:	Eco 59 Silver Hybrid	Eco 59 Silver Hybrid						
Infill System:	2.0 lbs/ft ² 20/40 silica	2.0 lbs/ft ² 20/40 silica sand (bottom layer) + 2.0 lbs/ft ² 10/20 Ambient Sbr Rubber (top layer)						
SubBase:	3" #57 Stone	3" #57 Stone						

TESTING METHODS REQUESTED:

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Testing Services Inc. was instructed by the client to test for the following					
Standard: ASTM F355a Test Method:			Standard Test Method for Impact Attenuation of Playing Surface Systems and Materials		

SAMPLING PLAN:

Sampling Date: 12/31/2019

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

TEST PROCEDURE:

This test method determines cushioning properties of the playing surface system and materials under specific conditions. The playing surface tested is impacted at a specified velocity with a missile of given mass and geometry to determine the maximum value of g's encountered during impact. The missile, 9.1 kg (20 lbs), was released as to impact the center of the test assembly at a velocity of 3.43 meters/second at a drop height of 24". Three missile releases were made, with the first drop for assembly conditioning and the second and third drop used for averaging.

TEST EQUIPMENT:

IEST EQUIFMENT.				
Operating System:	TRIAX 2015 A Missile System TS GMAX 1 UNIT	Calibration: Dytran 6/12/2018 Missile # 30-10821 Handheld #: 30-10820		
Missile Type, Weight:	(A) Cylindrical			
Missile Weight:	20 ± 0.11 lbs Circular Face 20 ± 1.0 in ² 24" (2 Feet) Guidance Thru Acrylic Tube, Bottom of Missile Face to Top of Turf Surface			
Missile Diameter:				
Drop Height:				

TEST DATA:

Test Conditions	68°F 32% RH
Test Date/Time	1/7/2020

Gmax/HIC	Gmax/HIC	Gmax/HIC	Gmax/HIC
Drop #1	Drop #2	Drop #3	Average
103 / 274	132 / 411	143 / 1455	Gmax: 138 HIC: 433

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: TSi is a certified independent testing laboratory by the Synthetic Turf Council



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