

## www.testingservices.us • (706)226-1400 office@testingservices.us

5'

# TEST REPORT

CLIENT:			
Company:	Airfield Systems	Report Number:	91668
Address:	8028 N May Ave Suite 201	Lab Test Number:	3382-4571
	Oklahoma City, OK 73120	Test Dates:	6/21/2023-6/24/2023
		Report Date:	6/30/2023
		Page:	2 of 2

## TEST MATERIAL:

Identifcation	SYNLawn Augustine X47	Date Received:	6/14/2023
Infill:	2.5. lbs/ft <sup>22</sup> EnviroFill	Subbase:	Aggregate
Pad:	Air Drain		

## **TESTING METHODS REQUESTED:**

Testing Services Inc. was instructed by the client to test for the following				
Standard:	ASTM F1292	Test Method: Standard Specification for Impact Attenuation of Surfacing Materials Within the Use Zone of Playgrou	und E	

## SAMPLING PLAN:

Sampling Date: 6/14/2023

- Turf and padding delivered to Testing Services directly
- The delivered specimens were acclimated to the appropriate temperatures per the test method prior to testing.

## TEST APPARATUS:

- Triax 2015 E Missile System, manufactured by Alpha Automation, Inc.
- Accelerometer #1488 manufactured by Dytran, Calibration Date 7/26/22 Recalibration Due Date 7/26/24

## **DEVIATION FROM TEST METHOD:**

State Reason for any Devation, Additions to, or Exclusions from Test Method

#### None

## TEST SUMMARY:

Test Method	Condition		Gmax	HIC	Fall Height
ASTM F1292-18e1	Ambient, Dry	72°F	155	751	5'
	Hot, Dry	120°F	165	790	5'
	Frozen	25°F	165	908	6'
Full test data reported on page 2 of this report					

## Critical Fall Height < 200 Gmax < 1000 HIC, All Temperature Ranges

Per the test method, the laboratory test used to determine critical fall height of materials specified for use in a playground shall have been conducted no more than five years prior to the date of installation of the playground surface.

Specificity: The results reported herein reflect the performance of the described samples at the time of testing and at the temperatures reported. The results are specific to the described samples. Samples of surfacing materials that do not closely match the described samples will perform differently.

#### 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. Unless otherwise noted in the deviations sections of this report, all tests performed are in compliance with stated test method.

The results reported herein reflect the performance of the described samples at the time of testing and at the temperature(s) reported. The results are specific to the described samples. Samples of surfacing materials that edo not closely match the described samples will perform differently.

Test Report Approved by:

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

Testing Services (TSI) LLC 817 Showalter Avenue PO Box 1343 Dalton, GA 30721



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EST MATERIAL:	CVNI own Augustin	~ V17	Data Dagainad	6/14/2022	
dentifcation	SYNLawn Augustin		Date Received:	6/14/2023	
nfill: Pad:	2.5. lbs/ft <sup>22</sup> EnviroFill		Subbase:	Aggregate	
	Air Drain	(	-1.3		
CONDITIONS Dro	e is drop 2 & 3, Drop 1 is p [Velocity (ft/sec)]	Angle	Drop Height	Gmax	HIC
				129	473
Ambient Air 2	16.2	а	4'	143	584
Temperature: <u>3</u>	16.2	<u>5°</u>		142	580
	ce Temperature	72°F	AVERAGE Gmax/HIC	143	582
Dro		Angle	Drop Height	Gmax	HIC
eference Surfac 1 Temperature: 2	18.1 18.1	<u> </u>	5' 5'	<u>138</u> 150	624
$72^{\circ}F \pm 5^{\circ}F$ 3	18.1	2°	5'	160	784
Surfac	ce Temperature	72°F	AVERAGE Gmax/HIC	155	751
Dro		Angle	Drop Height	Gmax	HIC
Toot Data:	19.7	<u>2°</u>	6'	184 209	1077 1308
Test Date: 2 6/21/2023 3	19.7	4°	6'	196	1300
	e Temperature	72°F	AVERAGE Gmax/HIC	203	1236
CONDITIONS Dro	p Velocity (ft/sec)	Angle	Drop Height	Gmax	HIC
Ambiant Air 1	16.2	5	4'	125	448
Ambient Air 2 Temperature: 3	<u>16.2</u> 16.2	<u> </u>	<u>4</u> <u>4</u>	137 139	522 536
	ce Temperature	25°F	AVERAGE Gmax/HIC	138	529
Dro	p Velocity (ft/sec)	Angle	Drop Height	Gmax	HIC
eference Surfac 1	18.1	6°	5'	148	644
Temperature: 2 120°F±°F 3	18.1 18.1	<u> </u>	<u>5'</u>	<u>162</u> 167	/69 811
	ce Temperature	24°F	AVERAGE Gmax/HIC	165	790
Dro	p Velocity (ft/sec)	Angle	Drop Height	Gmax	HIC
1	19.8	4°	6'	172	917
Test Date: 2	19.8	<u> </u>	6'	184	1023
6/21/2023 3		5° 25°F	6' AVERAGE Gmax/HIC	193 <b>189</b>	1152 <b>1088</b>
	ce Temperature				
CONDITIONS Dro		Angle	Drop Height	Gmax	HIC
Ambient Air 2	<u>18.0</u> 18.0	<u></u> 5°	<u> </u>	122 147	574 700
Temperature: 3	18.0	2°	5'	164	805
66°F Surfac	e Temperature	120°F	AVERAGE Gmax/HIC	156	753
Dro		Angle	Drop Height	Gmax	HIC
eference Surfac 1	19.7	4°	6	138	703
Temperature: 2 25°F±°F 3	<u>19./</u> 19.7	<u>9°</u> 8°	<u>6'</u> 6'	<u>1/1</u> 159	963 853
	ce Temperature	8 120°f	o AVERAGE Gmax/HIC	165	908
	1				
Dro	, <u>, ,</u>	Angle	Drop Height	Gmax	HIC
Test Date: 2	21.3	<u> </u>	7	185 173	1201 1074
6/21/2023 3	21.3	6°		191	1277
Surfac	ce Temperature	119°F	AVERAGE Gmax/HIC	182	1176
· · · ·	·				PO Box 1343

Dalton, GA 30721

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