

TEST REPORT

CLIENT:

Company:	Controlled Products	Report Number:	70076
Address:	200 Howell Drive	Lab Test Number:	2893-1606-01
	Dalton, GA 30721	Test Completion Date:	2/27/2017
		Report Date:	2/27/2017
Requested By:	Damon Henderson	Page:	1 of 2

TEST MATERIAL:

Material Type:	Synthetic Turf over pad	Date Received:	2/15/2017
Turf ID:	PL929	Padding:	23mm Thermagreen Pad
Infill:	2.0 lbs/ft ² 20/40 Silica Sand	Subbase:	3" Aggregate (2" Rock + 1" Compacted Fines Layer)

TESTING METHODS REQUESTED:

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	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			
Staridard.	ASTIVIT 1272	rest wethou.	Playground Equipment		

SAMPLING PLAN:

Sampling Date: 2/24/2017

- Specimen sampling is performed in the sampling department at TSI beside the ground level dock door.
- · 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 on previous testing expereince, 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 Devation, Additions to, or Exclusions from Test Method

The subbase was deviated from test protocol of concrete and replaced with the above listed subbase at the request of the client.

TEST SUMMARY:

Test Method	Condition		Gmax	HIC	Fall Height
ASTM F1292-13	Ambient	72°F	174	891	5'
	Hot	120°F	185	964	5'
	Frozen	25°F	176	914	5'

Full test data reported on page 2 of this report

Critical Fall Height < 200 Gmax < 1000 HIC, All Temperature Ranges	5'
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→ Test Equipment: Triax 2015 Calibration: 5/5/2016

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 performed are in compliance with stated test method.

Test Report Approval:

Erle Miles, Jr. VP, Testing Services Inc.

Form:	Rev:	Revision Date:	Page 1 of 2	
Release Date:	Control Type: Electronic - Expires 24 hours after this date: 2/27/17			
		Printed Copies are uncontrol	lled	



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TEST DATA: (Average is drop 2 & 3, Drop 1 is for conditioning only)

IESI DATA: (A	verage is ard	op 2 & 3, Drop 1 is for a	conaitioniing oni	<i>y)</i>		
CONDITIONS	Drop	Velocity (ft/sec)	Angle	Drop Height	Gmax	HIC
	1	15.8	5	4'	137	561
	3	15.7 15.8	6	4 ⁻	129 141	510 589
		13.0	0	AVERAGE Gmax/HIC	135	550
				<u> </u>		
AAADIEAIT	Drop	Velocity (ft/sec)	Angle	Drop Height	Gmax	HIC
AMBIENT	2	17.6 17.7	<u>5</u> 8	5' 5'	159 170	784 862
72° F	3	17.7	5	5'	178	919
				AVERAGE Gmax/HIC	174	891
	Drop	Velocity (ft/sec)	Angle	Drop Height	Gmax	HIC
	1	19.3	4	6'	188	1119
	3	19.4 19.4	<u>5</u> 5	6'	186 190	1067 1135
		17.4	<u> </u>	AVERAGE Gmax/HIC	188	1101
				•	-	
CONDITIONS	Drop	Velocity (ft/sec)	Angle	Drop Height	Gmax	HIC
	2	15.7 15.8	6	4'	145 158	645 697
	3	15.8	5	4'	163	721
				AVERAGE Gmax/HIC	161	709
	Drop	Velocity (ft/sec)	Angle	Drop Height	Gmax	HIC
HOT	1	17.7	3	5'	190	1002
120° F	3	17.6 17.6	<u>8</u> 1	5'	186 183	971 957
120 1	<u>J</u>	17.0	'	AVERAGE Gmax/HIC	185	964
	Drop	Velocity (ft/sec)	Angle	Drop Height	Gmax	HIC
	1 1	19.3	5	6'	194	1162
	2	19.3	4	6'	201	1200
	3	19.4	8	6'	211	1287
				AVERAGE Gmax/HIC	206	1244
CONDITIONS	Drop	Velocity (ft/sec)	Angle	Drop Height	Gmax	HIC
	1 2	15.7 15.7	4 10	4' 4'	141 160	593 706
	3	15.8	9	4 4'	165	737
				AVERAGE Gmax/HIC	163	722
	Drop	Velocity (ft/sec)	Angle	Drop Height	Gmax	HIC
FROZEN	1	17.6	8	5'	161	822
	2	17.7	4	5'	179	951
25° F	3	17.6	4	5'	173	876
				AVERAGE Gmax/HIC	176	914
	Drop	Velocity (ft/sec)	Angle	Drop Height	Gmax	HIC
	1	19.3	9	6'	203	1225
	3	19.3 19.3	1	6'	220 220	1396 1389
	<u>J</u>	17.3		AVERAGE Gmax/HIC	220	1393
				AVERAGE GIIIAX/FIIC	220	1373