

TEST REPORT

CLIENT:

Company:	The Recreational Group	Report Number:	77365
Address:	205 Boring Drive	Lab Test Number:	3087-9231
	Dalton, GA 30721	Test Completion Date:	4/30/2019
		Report Date:	5/1/2019
Requested By:	Lynette Ogle	Page:	1 of 2

TEST MATERIAL:

Material Type:	Pad only, no turf	Date Received:	2/5/2019
Padding ID:	1 1/8" Playground Pad (Pad #2)	*Subbase:	4" Aggregate (top) plus 4" Soil (bottom)

**Container box built by client, with plywood bottom, and identified subbase installed.*

TESTING METHODS REQUESTED:

<i>Testing Services Inc. was instructed by the client to test for the following...</i>			
Standard:	ASTM F1292	Test Method:	Standard Specification for Impact Attenuation of Surfacing Materials Within the Use Zone of Playground Equipment

SAMPLING PLAN:

Sampling Date:	2/5/2019
<ul style="list-style-type: none"> 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 experience, 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:

<i>State Reason for any Deviation, Additions to, or Exclusions from Test Method</i>	
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 F1292-18	Ambient	72°F	177	942	5'
	Hot	120°F	156	706	4'
	Frozen	25°F	168	875	5'

Full test data reported on page 2 of this report

Critical Fall Height < 200 Gmax < 1000 HIC, All Temperature Ranges	4'
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→ Test Equipment: Triax 2015

Uncertainty:

We undertake all assignments for our clients on a best effort basis. Our findings and

Test Report Approval:

Erle Miles, Jr. VP, Testing Services (TSI) LLC

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





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

CONDITIONS	Drop	Velocity (ft/sec)	Angle	Drop Height	Gmax	HIC	
AMBIENT 72° F	1	16.3	4	4'	135	560	
	2	16.3	8	4'	139	598	
	3	16.3	1	4'	136	573	
					AVERAGE Gmax/HIC	138	586
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		Drop	Velocity (ft/sec)	Angle	Drop Height	Gmax	HIC
		1	18.1	6	5'	146	713
		2	18.2	3	5'	177	935
		3	18.2	4	5'	177	949
					AVERAGE Gmax/HIC	177	942
	<hr/>						
		Drop	Velocity (ft/sec)	Angle	Drop Height	Gmax	HIC
	1	19.9	5	6'	204	1224	
	2	19.9	6	6'	221	1436	
	3	19.9	6	6'	218	1404	
				AVERAGE Gmax/HIC	220	1420	

CONDITIONS	Drop	Velocity (ft/sec)	Angle	Drop Height	Gmax	HIC	
HOT 120° F	1	14.1	5	3'	123	443	
	2	14.1	2	3'	135	492	
	3	14.1	2	3'	138	563	
					AVERAGE Gmax/HIC	137	528
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		Drop	Velocity (ft/sec)	Angle	Drop Height	Gmax	HIC
		1	16.3	5	4'	133	573
		2	16.3	6	4'	154	686
		3	16.3	4	4'	158	725
					AVERAGE Gmax/HIC	156	706
	<hr/>						
		Drop	Velocity (ft/sec)	Angle	Drop Height	Gmax	HIC
	1	18.2	5	5'	201	1084	
	2	18.2	7	5'	207	1121	
	3	18.2	8	5'	208	1129	
				AVERAGE Gmax/HIC	208	1125	

CONDITIONS	Drop	Velocity (ft/sec)	Angle	Drop Height	Gmax	HIC	
FROZEN 25° F	1	16.2	7	4'	107	393	
	2	16.2	3	4'	136	571	
	3	16.2	4	4'	132	545	
					AVERAGE Gmax/HIC	134	558
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		Drop	Velocity (ft/sec)	Angle	Drop Height	Gmax	HIC
		1	18.1	2	5'	143	704
		2	18.1	5	5'	165	853
		3	18.1	5	5'	171	897
					AVERAGE Gmax/HIC	168	875
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		Drop	Velocity (ft/sec)	Angle	Drop Height	Gmax	HIC
	1	19.8	4	6'	195	1108	
	2	19.8	8	6'	195	1129	
	3	19.8	7	6'	203	1261	
				AVERAGE Gmax/HIC	199	1195	

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