



**TESTING SERVICES, INC.**  
 817 SHOWALTER AVE. • P.O. BOX 2041  
 DALTON, GEORGIA 30722-2041  
 PHONE: (706) 226-1400 • FAX: (706) 226-6118



## TEST REPORT

CLIENT:	Purchase Green	REPORT NUMBER:	63245
	949 North Cataract Avenue Unit B	LAB TEST NUMBER:	2692-2807
	San Dimas, CA 91773	DATE:	April 28, 2015
		PAGE:	1 of 2

**Test Assembly:**

<u>Turf ID</u>	Vista Sport		Top
<u>Infill</u>	3.0 lbs/ft <sup>2</sup> EnviroFill		
<u>Pad</u>	45mm Schmitz Pro Play		
<u>Base</u>	3" Aggregate (2" Rock + 1" Compacted Fines Layer)		Bottom

**Tested Dimension:** 18" X 18"

**Impact Location:** Various Locations

**Date of Receipt:** March 5, 2015

**Testing Period:** March 12-16, 2015

**Authorization:** Tony Vena

**Test Procedure:** The submitted sample was evaluated for Shock Absorbing Properties in Accordance with the procedures outlined in ASTM F 1292-13; Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment. The sub base was deviated from test protocol of concrete and substituted with the above base layer system per client's request

**Missile:** Hemispherical (Triaxial Accelerometer): Total Drop Assembly Weight (46g) 10 lbs

**Test Equipment:** Triax 2000 Surface Impactor Calibration 4/16/14 by Dytran Instruments Report # 1488  
 Thermotron Industries Temperature & Relative Humidity Chamber Calibration 3/18/2015 Cert#: 220205  
 Grieve Air Circulating Oven Calibration (Temp Control) 3/18/2015 Cert#: 220204

**Sample Pre-Condition:** 50±10 RH, 70F±5F for a minimum of 24 hrs prior to testing

**Temperature:** Gmax of 200 or Less and A HIC of 1,000 or less

Ambient, 69°F 49% RH	8'
Hot, 120°F (49°C)	8'
Cold, 25°F (-6°C)	8'

<b>Critical Fall Height (CFH):</b>	<b>8'</b>
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Prepared and signed by:

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 Erle Miles, Jr. VP  
 Testing Services Inc.



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AMBIENT Sample Condition: Dry Temperature: 69°F (27°C), 49% RH	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
	1	21.2	6	7'	6.98	125	713
	2	21.2	5	7'	6.98	133	752
	3	21.2	6	7'	6.98	136	779
	Average			Drops 2, 3		135	766
	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
	1	22.5	2	8'	7.87	131	770
	2	22.6	1	8'	7.94	146	901
	3	22.6	1	8'	7.94	149	934
	Average			Drops 2, 3		148	918
	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
	1	23.9	2	9'	8.88	160	1049
2	23.9	4	9'	8.88	174	1168	
3	23.7	5	9'	8.73	176	1198	
Average			Drops 2, 3		175	1183	

HOT Sample Condition: Dry Temperature: 120°F (49°C)	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
	1	21.1	1	7'	6.92	121	623
	2	21.1	7	7'	6.92	129	675
	3	21.2	3	7'	6.98	138	750
	Average			Drops 2, 3		134	713
	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
	1	22.5	1	8'	7.87	137	775
	2	22.6	0	8'	7.94	156	916
	3	22.6	2	8'	7.94	169	1030
	Average			Drops 2, 3		163	973
	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
	1	24.0	0	9'	8.95	168	1090
2	23.9	5	9'	8.88	183	1236	
3	24.0	0	9'	8.95	190	1298	
Average			Drops 2, 3		187	1267	

COLD Sample Condition: Dry Temperature: 25°F (-6°C)	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
	1	21.2	5	7'	6.98	123	683
	2	21.2	8	7'	6.98	129	730
	3	21.2	4	7'	6.98	132	737
	Average			Drops 2, 3		131	734
	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
	1	22.6	1	8'	7.94	129	782
	2	22.6	7	8'	7.94	142	839
	3	22.6	4	8'	7.94	142	891
	Average			Drops 2, 3		142	865
	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
	1	23.9	1	9'	8.88	155	1022
2	24.0	2	9'	8.95	170	1148	
3	24.0	7	9'	8.95	179	1234	
Average			Drops 2, 3		175	1191	

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