



**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:	Global Syn-Turf, Inc.	REPORT NUMBER:	58172
	2482 Technology Drive	LAB TEST NUMBER:	2538-6605
	Hayward, CA 94545	DATE:	May 31, 2013
		PAGE:	1 of 2

Test Material: W Blade-60

Infill: none

Padding: 2.125" Playground Pad (flat)

Tested Dimension: 18" x 18"

Sub Base: Concrete

Impact Location: Center of Test Material

Date of Receipt: May 27, 2013

Testing Period: May 28--30, 2013

Authorization: Marysol Gomez

Test Procedure: The submitted sample was evaluated for Shock Absorbing Properties in Accordance with the procedures outlined in ASTM F 1292-09; Standard Specification for Impact Attenuation of Surface Systems Under and Around Playground Equipment.

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

Test Equipment: Triax 2000 Surface Impactor  
Date of Last Calibration: 3/18/2013 by Alpha Automation

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

Sample Conditioning: 8 hrs @ each reference temperatures prior to testing

Temperature: **Maximum Drop Height That Gives a  
Gmax of 200 or Less and A HIC of 1000 or less**

Ambient, 72°F (23°C) 8'

Hot, 120°F (49°C) 7'

Cold, 25°F (-6°C) 8'

**Critical Fall Height (CFH): 7'**

Prepared and signed by:

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Erle Miles, Jr. VP  
Testing Services Inc.



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AMBIENT Sample Condition: Dry Temperature: 70°F (23°C)	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
	1	21.3	2	7'	7.05	119	639
	2	21.3	1	7'	7.05	129	728
	3	21.3	4	7'	7.05	131	742
	Average			Drops 2, 3		130	735
	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
	1	22.7	1	8'	8.01	129	784
	2	22.7	5	8'	8.01	128	783
	3	22.8	6	8'	8.08	139	877
	Average			Drops 2, 3		134	830
	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
	1	24.2	0	9'	9.10	151	994
	2	24.2	4	9'	9.10	164	1102
	3	24.2	1	9'	9.10	166	1148
	Average			Drops 2, 3		165	1125

HOT Sample Condition: Dry Temperature: 120°F (49°C)	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
	1	19.7	2	6'	6.03	117	595
	2	19.8	1	6'	6.09	115	592
	3	19.8	1	6'	6.09	124	628
	Average			Drops 2, 3		120	610
	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
	1	21.3	2	7'	7.05	147	876
	2	21.4	7	7'	7.12	141	836
	3	21.4	3	7'	7.12	142	820
	Average			Drops 2, 3		142	828
	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
	1	22.7	1	8'	8.01	167	1084
	2	22.7	7	8'	8.01	165	1088
	3	22.7	1	8'	8.01	174	1143
	Average			Drops 2, 3		170	1116

COLD Sample Condition: Dry Temperature: 25°F (-6°C)	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
	1	21.3	8	7'	7.05	117	649
	2	21.3	5	7'	7.05	123	717
	3	21.3	3	7'	7.05	133	795
	Average			Drops 2, 3		128	756
	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
	1	22.8	6	8'	8.08	130	817
	2	22.8	4	8'	8.08	147	972
	3	22.8	1	8'	8.08	125	771
	Average			Drops 2, 3		136	872
	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
	1	24.1	2	9'	9.03	145	1003
	2	24.1	4	9'	9.03	146	1013
	3	24.1	8	9'	9.03	167	1210
	Average			Drops 2, 3		157	1112