



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:	58171
	2482 Technology Drive	LAB TEST NUMBER:	2538-6604
	Hayward, CA 94545	DATE:	May 31, 2013
		PAGE:	1 of 2

Test Material: U Blade-80

Infill: none

Padding: 2.125" Playground Pad (grooved)

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

<u>Temperature:</u>	<u>Maximum Drop Height That Gives a Gmax of 200 or Less and A HIC of 1000 or less</u>
Ambient, 72°F (23°C)	8'
Hot, 120°F (49°C)	7'
Cold, 25°F (-6°C)	9'
Critical Fall Height (CFH):	7'

Prepared and signed by:

 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	7	7'	7.05	104	511
	2	21.3	3	7'	7.05	109	559
	3	21.4	2	7'	7.12	119	607
	Average			Drops 2, 3		114	583
	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
	1	22.8	2	8'	8.08	132	738
	2	22.8	3	8'	8.08	139	761
	3	22.8	3	8'	8.08	153	865
	Average			Drops 2, 3		146	813
	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
	1	24.1	6	9'	9.03	157	971
2	24.0	7	9'	8.95	186	1159	
3	24.1	5	9'	9.03	170	1070	
Average			Drops 2, 3		178	1115	

HOT Sample Condition: Dry Temperature: 120°F (49°C)	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
	1	19.8	1	6'	6.09	126	579
	2	19.8	1	6'	6.09	113	507
	3	19.7	2	6'	6.03	122	551
	Average			Drops 2, 3		118	529
	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
	1	21.3	1	7'	7.05	138	679
	2	21.4	5	7'	7.12	145	748
	3	21.4	4	7'	7.12	162	863
	Average			Drops 2, 3		154	806
	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
	1	22.8	1	8'	8.08	218	1312
2	22.8	4	8'	8.08	182	1059	
3	22.8	6	8'	8.08	209	1254	
Average			Drops 2, 3		196	1157	

COLD Sample Condition: Dry Temperature: 25°F (-6°C)	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
	1	22.8	2	8'	8.08	119	678
	2	22.8	6	8'	8.08	117	671
	3	22.8	0	8'	8.08	120	699
	Average			Drops 2, 3		119	685
	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
	1	24.2	6	9'	9.10	129	813
	2	24.1	5	9'	9.03	137	883
	3	24.1	3	9'	9.03	137	890
	Average			Drops 2, 3		137	887
	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
	1	25.4	7	10'	10.03	155	1052
2	25.3	3	10'	9.95	170	1184	
3	25.3	6	10'	9.95	151	1031	
Average			Drops 2, 3		161	1108	

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