

## **TEST REPORT**

CLIENT:	Global Syn-Turf	REPORT NUMBER:	52898		
	2482 Technology Drive	LAB TEST NUMBER:	2363-9599		
	Hayward, CA 94545	DATE:	August 24, 2011		
		PAGE:	1 of 2		

**Test Material:** GST-80A38 Synthetic Turf

Infill: None

Padding: 2.125" Playground Pad

Sub Base: Concrete

**Impact Location:** Center of Test Material

**Date of Receipt:** August 9, 2011

**Testing Period:** August 17--23, 2011

**Authorization:** Andrew Gao

**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: 3/4/2010 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

Maximum Drop Height That Gives a

Gmax of 200 or Less and A HIC of 1000 or less Temperature:

Ambient, 72°F (23°C) 8'

Hot, 120°F (49°C) 8'

9' Cold, 25°F (-6°C)

Critical Fall Height (CFH): 8'

Reference Gmax Curves Included

Prepared and signed by:

Erle Miles, Jr. VP Testing Services Inc.



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					PAGE:			Page 2 of 2	
	Drop #	Velocity ft/sec	Angle	Drop Ht/Act	tual	Drop Ht/Theoretical	Gmax	HIC	
	1	21.3	2	7'		7.05	102	543	
٦٢	3	21.3 21.3	<u>0</u>	7'		7.05 7.05	115 113	641 627	
AMBIENT Sample Condition: Dry Temperature: 70°F (23°C)	Average	21.3	I	Drops 2, 3		7.05	114	634	
iditic (23	Drop #	Velocity ft/sec	Anglo	Drop Ht/Act	hual	Drop Ht/Theoretical	Gmax	HIC	
Con F°F	1 DIOD #	22.8	Angle 2	8'	luai	8.08	130	815	
ple (	2	22.8	1	8'		8.08	133	832	
am	3	22.8	8	8'		8.08	141	875	
IBIENT Sample Condition: Temperature: 70°F (23°C)	Average			Drops 2,	3		137	854	
31E N	Drop #	Velocity ft/sec	Angle	Drop Ht/Act	tual	Drop Ht/Theoretical	Gmax	HIC	
AME	1	24.2	2	9'		9.10	145	976	
	3	24.2 24.2	3	9' 9'		9.10 9.10	159 159	1095 1097	
	Average	24.2	J	Drops 2,	3	9.10	159	1097	
	Drop #	Velocity ft/sec 21.3	Angle	Drop Ht/Act	tual	Drop Ht/Theoretical 7.05	136	HIC 758	
	2	21.3	8 6	7'		7.05	141	800	
> 0	3	21.3	9	7'		7.05	127	711	
J <sub>Q</sub>	Average			Drops 2,	3		134	756	
HOT Sample Condition: Dry Temperature: 120°F (49°C)	Drop #	Velocity ft/sec	Angle	Drop Ht/Act	tual	Drop Ht/Theoretical	Gmax	HIC	
ondi	1	22.8	8	8'		8.08	157	958	
.: 12 12	2	22.8	5	8'		8.08	169	1044	
mple	3 Average	22.8	1	8'	2	8.08	156	954	
Sal	Average Drops 2, 3 163 999								
HOT	Drop #	Velocity ft/sec	Angle	Drop Ht/Act	tual	Drop Ht/Theoretical	Gmax	HIC	
	1	24.2	9	9'		9.10	206	1502	
	3	24.2 24.2	9	9' 9'		9.10 9.10	192 229	1322 1631	
	Average		l l	Drops 2, 3		7.10	211	1477	
	Dron #	Velocity ft/sec	Anglo	Drop Ht/Ac	hiol	Drop Ht/Theoretical	Cmay	HIC	
	<u>Drop #</u>	22.8	Angle 0	8'	luai	8.08	125	795	
	2	22.8	4	8'		8.08	139	945	
COLD Sample Condition: Dry Temperature: 25°F (-6°C)	3	22.8	1	8'		8.08	122	783	
	Average			Drops 2,	3		131	864	
ditio = (-	Drop #	Velocity ft/sec	Angle	Drop Ht/Act	tual	Drop Ht/Theoretical	Gmax	HIC	
Con:	1	24.1	3	9'		9.03	141	987	
ole (	2	24.1	7	9' 9'		9.03	141	960	
amp ²atuı	3 Average	24.1	5	Drops 2,	3	9.03	140 <b>141</b>	969 <b>965</b>	
D S.						<u> </u>	•		
COL Ten	Drop #	Velocity ft/sec	Angle	Drop Ht/Act	tual	Drop Ht/Theoretical	Gmax	HIC	
	2	25.3 25.4	<u>6</u> 7	10' 10'		9.95 10.03	149 158	1098 1174	
	3	25.4	5	10'		10.03	157	11/4	
	Average			Drone 2	2	. 5.00	150	1160	

Drops 2, 3

1168

158