## **TEST REPORT**

CLIENT:	Global Syn-Turf	REPORT NUMBER:	52943
	2482 Technology Drive	LAB TEST NUMBER:	2363-9600
	Hayward, CA 94545	DATE:	August 24, 2011
		PAGE:	1 of 2

Test Material:	GST-90A58				
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 1823, 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.				
<u>Missile:</u>	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 $\pm$ 10 RH, 70F $\pm$ 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'					

Reference Gmax Curves Included

Prepared and signed by:

Erle Miles, Jr. VP Testing Services Inc.

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LIENT:	Global Syn-Turf REPORT NUMBER: 52943								
		2482 Technology Drive			LAB TE	ST NUMBER:	2363-960	00	
	Hayward, CA 94545				DATE:		August 2	4, 2011	
					PAGE:		Page 2 of 2		
	Drop #	Velocity ft/sec	Angle	Drop Ht/Ac	tual	Drop Ht/Theoretical	Gmax	HIC	
AMBIENT Sample Condition: Dry Temperature: 70°F (23°C)	1	21.3	4	7'		7.05	105	583	
	2	21.3	0	7'		7.05	111	637	
	3	21.3	5	7'		7.05	119	684	
	Average	4		Drops 2,	Drops 2, 3		115 661		
	Drop #	Velocity ft/sec	Angle	Drop Ht/Ac	tual	Drop Ht/Theoretical	Gmax	HIC	
	1	22.8	6	8'		8.08	128	800	
e: 7	2	22.8	2	8'		8.08	137	877	
sam iture	3	22.8	9	8' Drana 2	2	8.08	151	984	
NT S	Average			Drops 2,	3		144	931	
BIEI 「em	Drop #	Velocity ft/sec	Angle	Drop Ht/Ac	tual	Drop Ht/Theoretical	Gmax	HIC	
AM	1	24.1	7	9'		9.03	144	996	
	2	24.2	9	9'		9.10	159	1165	
	3 Average	24.1	6	9' Drops 2, 3		9.03	165 <b>162</b>	1210 <b>1188</b>	
	Average			Drups 2,	3		102	1188	
	Drop #	Velocity ft/sec	Angle	Drop Ht/Ac	tual	Drop Ht/Theoretical	Gmax	HIC	
	1	19.8	8	6'		6.09	111	542	
_	2	19.8	6 3	6' 6'		6.09	120	624	
ည် ပိ	3 Average	19.7	3	Drops 2,	2	6.03	108 114	530 <b>577</b>	
n:   [49°	Average			Di 0p3 2,	5		114		
Π, C	Drop #	Velocity ft/sec	Angle	Drop Ht/Ac	tual	Drop Ht/Theoretical	Gmax	HIC	
ione 20°	1	21.3	1	7'		7.05	142	780	
е <del>–</del>	2	21.3	6	<u>7'</u>		7.05	142	795	
mpl	3	21.3	4	7' Drong 2	2	7.05	129	714	
HOT Sample Condition: Dry Temperature: 120°F ( <b>49°C</b> )	Average Drops 2, 3 136 755								
emi HOT	Drop #	Velocity ft/sec	Angle	Drop Ht/Ac	tual	Drop Ht/Theoretical	Gmax	HIC	
	1	22.8	4	8'		8.08	161	1003	
	2	22.8	8	8' 8'		8.08	173	1093	
	3 Average	22.8	6	o Drops 2,	3	8.08	156 <b>165</b>	999 <b>1046</b>	
	Drop #	Velocity ft/sec	Angle	Drop Ht/Ac	tual	Drop Ht/Theoretical		HIC	
		21.4	/	/* 7'		7.12	119	701	
>	2	21.3 21.3	4 3	/ 7'		7.05 7.05	124 121	748 735	
	Average	۲۱٫۵	5	, Drops 2,	3	1.05	121	735	
ion: (-6°									
°F	Drop #	Velocity ft/sec	Angle	Drop Ht/Ac 8'	tual	Drop Ht/Theoretical	Gmax	HIC	
C0 25	2	22.7 22.8	9 10	8'		8.01 8.08	130 125	<u>861</u> 804	
COLD Sample Condition: Dry Temperature: 25°F (-6°C)	3	22.8	8	o 8'		8.08	125	804	
	Average	22.0	0	Drops 2,	3	0.00	129	823	
		Volochuft	۸						
	Drop #	Velocity ft/sec	Angle	Drop Ht/Ac 9'	luai	Drop Ht/Theoretical	Gmax	HIC	
U	2	24.1 24.1	5 0	9 9'		9.03 9.03	140 148	<u>1020</u> 1110	
	3	24.1	0	9'		9.03	148	1057	
	Average		U	Drops 2,	3	7.00	143	1037	

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