



TEST REPORT

CLIENT:	Synthetic Grass Warehouse	REPORT NUMBER:	64236
	1400 N. Daly Street	LAB TEST NUMBER:	2720-3988
	Anaheim, CA 92806	DATE:	June 25, 2015
		PAGE:	1 of 2

Test Assembly:

Turf Identification: Everglade Fescue
 Infill System: 2.5 lbs/ft² 20/40 Silica Sand
 Pad System: 2 layers of 2 1/8" PolyGreen Foam (4.25" total)

Base:

3" Aggregate

Tested Dimension:

18" X 18"

Impact Location:

Various Locations

Date of Receipt:

June 17, 2015

Testing Period:

June 18--25, 2015

Authorization:

Brad Neubauer

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 4/28/15 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 1000 or less

Ambient, 65°F 26% RH	14'
Hot, 120°F (49°C)	14'
Cold, 25°F (-6°C)	12'

Critical Fall Height (CFH): 12'

Prepared and signed by:

Erle Miles, Jr. VP
 Testing Services Inc.



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AMBIENT Sample Condition: Dry Temperature: 75°F 56% RH	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
	1	27.7	1	12'	11.92	91	626
	2	27.7	2	12'	11.92	95	666
	3	27.7	0	12'	11.92	96	676
	Average			Drops 2, 3		96	671
	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
	1	28.8	1	13'	12.89	99	738
	2	28.9	4	13'	12.98	100	735
	3	28.9	6	13'	12.98	102	763
	Average			Drops 2, 3		101	749
	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
	1	29.9	3	14'	13.89	106	834
	2	29.9	4	14'	13.89	105	828
	3	29.9	0	14'	13.89	108	866
	Average			Drops 2, 3		107	847

HOT Sample Condition: Dry Temperature: 120°F (49°C)	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
	1	27.7	2	12'	11.92	90	596
	2	27.7	3	12'	11.92	93	637
	3	27.7	7	12'	11.92	94	666
	Average			Drops 2, 3		94	652
	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
	1	28.8	2	13'	12.89	86	608
	2	28.8	1	13'	12.89	90	630
	3	28.8	2	13'	12.89	92	657
	Average			Drops 2, 3		91	644
	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
	1	29.7	3	14'	13.71	94	696
	2	29.7	1	14'	13.71	98	752
	3	29.8	1	14'	13.80	101	784
	Average			Drops 2, 3		100	768

COLD Sample Condition: Dry Temperature: 25°F (-6°C)	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
	1	26.5	5	11'	10.91	111	813
	2	26.7	5	11'	11.08	116	863
	3	26.6	4	11'	11.00	114	845
	Average			Drops 2, 3		115	854
	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
	1	27.7	0	12'	11.92	120	923
	2	27.7	2	12'	11.92	115	967
	3	27.8	2	12'	12.01	146	992
	Average			Drops 2, 3		131	980
	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
	1	28.8	3	13'	12.89	126	1011
	2	28.8	1	13'	12.89	131	1063
	3	28.7	8	13'	12.80	209	1074
	Average			Drops 2, 3		170	1069

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