



TEST REPORT

CLIENT:	Purchase Green	REPORT NUMBER:	56628
	949 N. Cataract Ave, Unit B	LAB TEST NUMBER:	2494-4887
	San Dimas, CA 91773	DATE:	November 20, 2012
		PAGE:	1 of 2

Test Material: Natures Sod Premier (93 oz/yd²)

Infill: 2.0 lbs/ft² Envirofill

Padding: 45mm Playground Pad

Tested Dimension: 18" x 18"

Sub Base: Concrete

Impact Location: Center of Test Material

Date of Receipt: November 8, 2012

Testing Period: November 13--15, 2012

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: 3/13/2012 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)	8'
Cold, 25°F (-6°C)	8'
Critical Fall Height (CFH):	8'

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	21.2	5	7'	6.98	135	742
	2	21.2	1	7'	6.98	147	814
	3	21.2	3	7'	6.98	144	802
	Average			Drops 2, 3		146	808
	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
	1	22.6	0	8'	7.94	156	918
	2	22.6	1	8'	7.94	153	920
	3	22.6	2	8'	7.94	152	915
	Average			Drops 2, 3		153	918
	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
	1	24.0	5	9'	8.95	182	1179
2	24.0	4	9'	8.95	168	1088	
3	23.9	3	9'	8.88	180	1188	
Average			Drops 2, 3		174	1138	

HOT Sample Condition: Dry Temperature: 120°F (49°C)	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
	1	21.2	3	7'	6.98	150	785
	2	21.3	3	7'	6.98	143	760
	3	21.3	3	7'	7.05	155	829
	Average			Drops 2, 3		149	795
	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
	1	22.6	7	8'	7.94	170	1009
	2	22.6	3	8'	7.94	165	960
	3	22.7	2	8'	8.01	165	949
	Average			Drops 2, 3		165	955
	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
	1	24.0	3	9'	8.95	183	1118
2	24.0	4	9'	8.95	201	1271	
3	23.9	5	9'	8.88	192	1178	
Average			Drops 2, 3		197	1225	

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	9	7'	7.05	132	744
	2	21.3	8	7'	7.05	129	718
	3	21.2	6	7'	6.98	128	720
	Average			Drops 2, 3		129	719
	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
	1	22.7	1	8'	8.01	145	880
	2	22.6	2	8'	7.94	157	939
	3	22.7	9	8'	8.01	149	935
	Average			Drops 2, 3		153	937
	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
	1	24.1	7	9'	9.03	167	1108
2	24.0	3	9'	8.95	160	1045	
3	24.0	9	9'	8.95	170	1142	
Average			Drops 2, 3		165	1094	

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