



TESTING SERVICES, INC.
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TEST REPORT

CLIENT:	MNY Group, LLC	REPORT NUMBER:	60267B
	2010 East Hennepin Avenue #8	LAB TEST NUMBER:	2591-8705
	Building 8 Suite 206	DATE:	March 25, 2014
	Minneapolis, MN 55413	PAGE:	1 of 2

Tile Identification	020614B
Tile Thickness	10mm
Sub Base	Concrete

Tested Dimension: 24" X 24"

Impact Locations: Various

Date of Receipt: February 20, 2014

Testing Period: March 5 & 6, 2014

Authorization: Jason Bahrke

Test Procedure: The submitted sample was evaluated for Shock Absorbing Properties in Accordance with the procedures outlined in ASTM F 1292-10; 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

Temperature: **Maximum Drop Height That Gives a Gmax of 200 or Less and A HIC of 1000 or less**

Ambient, 61.7°F 38% RH

1'

Hot, 120°F (49°C)

1'

Cold, 25°F (-6°C)

Not Tested Per Client

<u>Critical Fall Height (CFH):</u>	1'
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Prepared and signed by:

 Erle Miles, Jr. VP
 Testing Services Inc.



TEST REPORT

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AMBIENT Sample Condition: Dry Temperature: 61.7 of 38% RH	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC	
	1	8.3	8	1'	1.07	117	197	
	2	8.4	8	1'	1.10	118	197	
	3	8.4	9	1'	1.10	126	213	
	Average				Drops 2, 3		122	205
	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC	
	1	11.5	6.0	2'	2.06	435	1846	
	2	11.7	4.0	2'	2.13	426	1786	
	3	11.7	7.0	2'	2.13	430	1829	
	Average				Drops 2, 3		428	1808
	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC	
	1	N/A	N/A	N/A	#VALUE!	N/A	N/A	
2	N/A	N/A	N/A	#VALUE!	N/A	N/A		
3	N/A	N/A	N/A	#VALUE!	N/A	N/A		
Average				Drops 2, 3		#####	#####	

HEATED Sample Condition: Dry Temperature: 120 9F 20% RH	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC	
	1	8.3	6	1'	1.07	145	265	
	2	8.3	3	1'	1.07	207	396	
	3	8.4	6	1'	1.10	160	277	
	Average				Drops 2, 3		184	337
	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC	
	1	11.5	3	2'	2.06	498	2604	
	2	11.5	5	2'	2.06	165	2268	
	3	11.6	6	2'	2.09	479	2359	
	Average				Drops 2, 3		322	2314
	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC	
	1	N/A	N/A	N/A	#VALUE!	N/A	N/A	
2	N/A	N/A	N/A	#VALUE!	N/A	N/A		
3	N/A	N/A	N/A	#VALUE!	N/A	N/A		
Average				Drops 2, 3		#####	#####	

END OF REPORT 60267B