



TESTING SERVICES, INC.
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TEST REPORT

CLIENT:	MNY Group, LLC	REPORT NUMBER:	60267D
	2010 East Hennepin Avenue #8	LAB TEST NUMBER:	2591-8707
	Building 8 Suite 206	DATE:	March 25, 2014
	Minneapolis, MN 55413	PAGE:	1 of 2

Tile Identification	020614D
Tile Thickness	22mm
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	4'
Hot, 120°F (49°C)	3'
Cold, 25°F (-6°C)	Not Tested Per Client

<u>Critical Fall Height (CFH):</u>	3'
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Prepared and signed by:

 Erle Miles, Jr. VP
 Testing Services Inc.



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AMBIENT Sample Condition: Dry Temperature: 61.7 °F 38% RH	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
	1	8.3	3	1'	1.07	62	103
	2	8.4	7	1'	1.10	62	102
	3	8.4	10	1'	1.10	62	104
	Average			Drops 2, 3		62	103
	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
	1	11.6	5	2'	2.09	92	261
	2	11.6	3	2'	2.09	98	276
	3	11.6	0	2'	2.09	95	265
	Average			Drops 2, 3		97	271
	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
	1	14.1	4	3'	3.09	130	476
	2	14.1	7	3'	3.09	131	489
	3	14.2	4	3'	3.13	130	486
	Average			Drops 2, 3		131	488
	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
	1	16.2	1	4'	4.08	183	847
	2	16.2	2	4'	4.08	184	855
3	16.2	3	4'	4.08	191	880	
Average			Drops 2, 3		188	868	
Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC	
1	18.0	3	5'	5.04	261	1438	
2	18.0	5	5'	5.04	290	1612	
3	18.0	2	5'	5.04	264	1442	
Average			Drops 2, 3		277	1527	

HEATED Sample Condition: Dry Temperature 120 °F 20% RH	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
	1	11.6	7	2'	2.09	92	244
	2	11.5	8	2'	2.06	104	280
	3	11.7	3	2'	2.13	92	244
	Average			Drops 2, 3		98	262
	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
	1	14.1	5	3'	3.09	174	639
	2	14.2	7	3'	3.13	186	682
	3	14.2	8	3'	3.13	173	632
	Average			Drops 2, 3		180	657
	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
	1	16.2	7	4'	4.08	358	1782
	2	16.2	9	4'	4.08	333	1625
	3	16.2	6	4'	4.08	311	1491
	Average			Drops 2, 3		322	1558

END OF REPORT # 60267D