TEST REPORT

CLIENT:	Rubber Designs, LLC	REPORT NUMBER:	59929
	3125 Skyway Circle	LAB TEST NUMBER:	2589-8540
	Melbourne, FL 32934	DATE:	February 14, 2014
		PAGE:	1 of 2

Test Material:	3.75" Rubber Designs Interlocking Tile				
Tested Dimension:	18" x 18" x 3.75"				
Sub Base:	Concrete				
Impact Location:	Center of Test Material				
Date of Receipt:	February 5, 2014				
Testing Period:	February 57, 2014				
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: 3/18/2013 by Alpha Automation				
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)	10'				
Hot, 120°F (49°C)	10'				
Cold, 25°F (-6°C)	10'				
Critical Fall Height (CFH)	: 10'				

Prepared and signed by:

Erle Miles, Jr. VP Testing Services Inc.

OUR LETTERS AND REPORTS APPLY ONLY TO THE SAMPLE TESTED AND ARE NOT NECESSARILY INDICATIVE OF THE QUALITIES OF APPARENTLY IDENTICAL OR SIMILAR PRODUCTS, THESE LETTERS AND REPORTS ARE FOR THE USE ONLY OF THE CLIENT TO WHOM THEY ARE ADDRESSED AND THEIR COMMUNICATION TO ANY OTHERS OR THE USE OF THE NAME TESTING SERVICES, Inc. MUST RECEIVE OUR PRIOR WRITTEN APPROVAL. THE REPORTS AND LETTERS, AND OUR NAME, OUR SEALS, OR OUR INSIGNIA ARE NOT UNDER ANY CIRCUMSTANCES TO BE USED IN ADVERTISING TO THE GENERAL PUBLIC. VISIT OUR WEBSITE AT www.tsiofdalton.com



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				I AUL.		r aye z U		
	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC	
AMBIENT Sample Condition: Dry Temperature: 70°F (23°C)	1	24.1	4	9'	9.03	121	807	
	2	24.0	4	9'	8.95	114	749	
	3	24.1	5	9' Drong 2, 2	9.03	120	800	
	Average			Drops 2, 3		117	775	
	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC	
	1	25.3	1	10'	9.95	128	940	
	2	25.3	7	10'	9.95	135	1003	
am ture	3	25.3	6	10'	9.95	129	946	
T S; erat	Average			Drops 2, 3		132	975	
EN. mp	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC	
ABI Te	1 <u>1</u>	26.6	3	11'	11.00	149	1212	
AN	2	26.6	2	11'	11.00	135	1070	
	3	26.5	8	11'	10.91	139	1107	
	Average			Drops 2, 3		137	1089	
	Drop #	Velocity ft/sec	Anglo	Drop Ht/Actual	Drop Ht/Theoretical	Cmay	HIC	
	<u>Drop #</u>	24.1	Angle 4	9'	9.03	Gmax 120	809	
	2	24.1	6	9'	9.10	116	800	
$\sim \hat{\alpha}$	3	24.1	5	9'	9.03	119	788	
	Average			Drops 2, 3		118	794	
on: (4)	D #			Duran LIV/Asharal				
°F diti	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC 886	
Cor 120	2	25.3 25.3	3	10' 10'	9.95 9.95	126 126	883	
e: .	3	25.3	8	10'	9.95	120	938	
atur	Average	20.0	0	Drops 2, 3	7.70	127	911	
HOT Sample Condition: Dry Temperature: 120°F (49°C)								
TO	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC	
	1	26.6	/	<u> </u>	11.00	138	1043	
	2	26.5 26.5	0 3	11	<u>10.91</u> 10.91	128 137	933 1090	
	Average	20.0	3	Drops 2, 3	10.91	137	1090	
							1012	
	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC	
	1	24.1	2	9'	9.03	111	804	
COLD Sample Condition: Dry Temperature: 25°F (-6°C)	2	24.0	7	9' 9'	<u>8.95</u> 9.03	111	812	
	3 Average	24.1	1	9 Drops 2, 3	9.03	118 115	856 834	
Ц	Average			Diop3 2, 3		115	034	
ditic	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC	
20N	1	25.3	1	10'	9.95	126	977	
e: 2	2	25.3	0	10'	9.95	114	845	
:OLD Sample Condition: Di Temperature: 25°F (-6°C)	3	25.3	0	10'	9.95	122	939	
Sal	Average			Drops 2, 3		118	892	
imp LD	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC	
COI	1	26.6	2	11'	11.00	136	1133	
	2	26.5	3	11'	10.91	138	1222	
	3	26.6	2	11'	11.00	141	1234	
	Average			Drops 2, 3		140	1228	

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