## **TEST REPORT**

CLIENT:	Rubber Designs, LLC	REPORT NUMBER:	50790-01
	PO Box 128	LAB TEST NUMBER:	2290-7027
	Ranger, GA 30734	DATE:	January 31, 2011
		PAGE:	1 of 2

Test Material:	Rubber Designs Interlocking Tile (29)				
Tested Dimension:	18" x 18" x 3.25"				
Sub Base:	Concrete				
Impact Location:	Center of Test Material				
Date of Receipt:	January 25, 2011				
Testing Period:	January 25 27, 2011				
Authorization:	Terry Harris				
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: 3/4/2010 by Alpha Automation				
Sample Pre-Condition:	$50\pm10$ RH, 70F $\pm5F$ 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 750 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'				

Reference Gmax Curves Included

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



## **TEST REPORT**

CLIENT:	Rubber Designs, LLC REPORT NUMBER:				50790-0	1	
	PO Box 128			LAB TEST NUM	IBER:	2290-702	27
	Ranger, GA 30734 DATE:				January	31, 2011	
	ÿ			PAGE:		Page 2 c	
	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual 7'	Drop Ht/Theoretical	Gmax	HIC
_	2	21.3 21.3	4 6	// 7'	7.05 7.05	112 113	634 636
Dry	3	21.3	5	<u> </u>	7.05	113	669
C	Average	21.5	5	Drops 2, 3	1.00	115	653
ditic (23							
AMBIENT Sample Condition: Dry Temperature: 70°F (23°C)	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
	2	22.7 22.7	/	8' 8'	8.01 8.01	116 112	676 660
	3	22.7	5	8'	8.01	112	648
	Average		0	Drops 2, 3	0.01	112	654
ENT			Anarla		Dreve LH/The eventional		
1BII Ter	Drop #	Velocity ft/sec 24.0	Angle 6	Drop Ht/Actual 9'	Drop Ht/Theoretical 8.95	Gmax 144	HIC 1004
AN	2	24.0	9	9'	9.03	144	998
	3	24.0	4	9'	8.95	135	912
	Average			Drops 2, 3		139	955
	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
	1	21.3	1		7.05	105	582
	2	21.3	1	7'	7.05	108	606
ົ	3	21.3	3	7'	7.05	104	580
0.6	Average			Drops 2, 3		106	593
HOT Sample Condition: Dry Temperature: 120°F (49°C)	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
hnd Pnd	1	22.8	5	8'	8.08	121	750
: 12	2	22.7	1	8'	8.01	118	751
ure	3	22.7	7	8'	8.01	115	707
San erat	Average Drops 2, 3 117 729						
: TC	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
H( Te	1	24.0	5	9'	8.95	147	1070
	2	24.0	1	9'	8.95	145	978
	3	23.9	6	9' Drana 2, 2	8.88	133	869
	Average			Drops 2, 3		139	924
	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
	1	21.3	3	7'	7.05	112	622
$\sim$	2	21.3 21.3	3	<u>7'</u> ''	7.05 7.05	112	636
Ĕ Q	3 Average	21.3	4	/ Drops 2, 3	CU. 1	120 <b>116</b>	680 658
COLD Sample Condition: Dry Temperature: 25°F (-6°C)							
`F (	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
Cor 25°	1	22.7	2	8' 8'	8.01	115	680
ole - re:	2	22.7 22.7	3	<u> </u>	<u>8.01</u> 8.01	113 114	<u>640</u> 657
amp	Average	22.1	1	Drops 2, 3	0.01	114	<u>649</u>
D S Ipel							
OLI	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
U '	1 2	24.0	5	9' 9'	8.95 9.03	131	849
	2	24.1 24.0	0 5	9 9	9.03	135 141	890 955
	Average	27.0	5	Drops 2, 3	0.75	138	<u>933</u>

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