TEST REPORT

CLIENT:	Rubber Designs, LLC	REPORT NUMBER:	50947-01
	PO Box 128	LAB TEST NUMBER:	2295-7202
	Ranger, GA 30734	DATE:	February 15, 2011
		PAGE:	1 of 2

<u>Test Material:</u> Rubber Designs Interlocking Tile

Tested Dimension: 18" x 18" x 2.75"

Sub Base: Concrete

Impact Location: Center of Test Material

Date of Receipt: February 11, 2011

Testing Period: February 11-15, 2011

<u>Authorization:</u> Terry Harris

<u>Test Procedure:</u> 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

Triax 2000 Surface Impactor

Date of Last Calibration: 3/4/2010 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

Maximum Drop Height That Gives a

Temperature: Gmax of 200 or Less and A HIC of 750 or less

Ambient, 72°F (23°C) 7'

Hot, 120°F (49°C) 6'

Cold, 25°F (-6°C) 6'

Critical Fall Height (CFH): 6'

Reference Gmax Curves Included

Prepared and signed by:

Erle Miles, Jr. VP Testing Services Inc.



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CLIENT:	Rubber Designs, LLC PO Box 128			REPORT NUMBER: LAB TEST NUMBER:		50947-01 2295-7202		
	Ranger, C	GA 30734		DATE:	DATE:		February 15, 2011	
	5			PAGE:			Page 2 of 2	
	D //	Mala di Glass	Al .	Dron Ht/Actual	D		ШО	
AMBIENT Sample Condition: Dry Temperature: 70°F (23°C)	Drop #	Velocity ft/sec 19.7	Angle	Drop Ht/Actual 6'	Drop Ht/Theoretical 6.03	Gmax 119	HIC 639	
	2	19.7	6	6'	6.03	117	631	
	3	19.7	3	6'	6.03	123	664	
	Average		Ü	Drops 2, 3	0.00	120	648	
	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC	
	1	21.1	1	7'	6.92	129	784	
	2	21.2	3	7'	6.98	128	781	
	3	21.2	4	7'	6.98	119	718	
	Average			Drops 2, 3		124	750	
EN T	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC	
MBI Tel	1	22.7	3	8'	8.01	162	1104	
A	2	22.7	6	8'	8.01	156	1075	
	3	22.7	2	8'	8.01	154	1083	
	Average			Drops 2, 3		155	1083 1079	
	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC	
HOT Sample Condition: Dry Temperature: 120°F (49°C)	1 1	19.7	5	6'	6.03	117	648	
	2	19.7	3	6'	6.03	116	643	
	3	19.7	2	6'	6.03	120	679	
	Average		•	Drops 2, 3		118	661	
ion .	Drop #	Valacity ft/cac	Anglo	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC	
ndit P•(1 DIOD #	Velocity ft/sec 21.2	Angle 2	7'	6.98	117	729	
Col 12(2	21.2	2	7'	6.98	138	877	
ole re:	3	21.2	3	7'	6.98	144	950	
am _l ratu	Average			Drops 2, 3		141	914	
T S	Dron #	Valacity ft/coa	Analo	Drop Ht/Actual	Drop 1 It/Theoretical	Cmay	HIC	
오 년	Drop #	Velocity ft/sec 22.7	Angle 3	8'	Drop Ht/Theoretical 8.01	Gmax 158	1159	
	2	22.7	<u> </u>	8'	8.01	148	1081	
	3	22.7	2	8'	8.01	159	1186	
	Average			Drops 2, 3		154	1134	
	Dron #	Volocity ft/ccc	Anala	Dron Ut/Actual	Drop Ut/Theoretical	Cmay	ШС	
COLD Sample Condition: Dry Temperature: 25°F (-6°C)	<u>ווט #</u> 1	Velocity ft/sec 18.0	Angle 4	Drop Ht/Actual 5'	Drop Ht/Theoretical 5.04	<u>Gmax</u> 118	HIC 620	
	2	18.0	1	<u> </u>	5.04	117	601	
	3	18.0	4	5'	5.04	123	662	
	Average			Drops 2, 3		120	632	
	Dron #	Volocity ft/ccc	Anala	Drop Ht/Actual	Drop Ut/Theoretical	Cmay	HIC	
ibu 🗜	Drop #	Velocity ft/sec 19.6	Angle 5	6'	Drop Ht/Theoretical 5.97	Gmax 122	689	
nple Co ure: 25	2	19.7	1	6'	6.03	123	691	
	3	19.6	5	6'	5.97	124	698	
Sarr	Average			Drops 2, 3		124	695	
JD S	Dron #	Volocity ft/cos	Angla	Dron Ut/Actual	Drop Ut/Theoretical	Cmay	ШС	
COL	Drop #	Velocity ft/sec 21.2	Angle 2	Drop Ht/Actual 7'	Drop Ht/Theoretical 6.98	Gmax 148	HIC 984	
	2	21.2	3		6.98	149	999	
		21.2	5	, ,	0.70	117	,,,	

Drops 2, 3

7.05

1041