TESTING SERVICES, INC.
817 SHOWALTER AVE. • P.O. BOX 2041
DALTON, GEORGIA 30722-2041
PHONE: (706) 226-1400 • FAX: (706) 226-6118

TEST REPORT

CLIENT:	Rubber Designs, LLC	REPORT NUMBER:	49956A-01
	PO box 128	LAB TEST NUMBER:	2256-5854
	Ranger, GA 30734	DATE:	October 25, 2010
		PAGE:	1 of 2

Test Material: Rubber Designs Interlocking Tile

Tested Dimension: 18" x 18" x 2.25"

Sub Base: Concrete

Impact Location: Center of Test Material

Date of Receipt: October 15, 2010

Testing Period: October 19--22, 2010

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.

Missile: 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±10 RH, 70F±5F 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)	5'
Hot, 120°F (49°C)	4'
Cold, 25°F (-6°C)	4'
Critical Fall Height (CFH):	**4'**

Reference Gmax Curves Included

Prepared and signed by:

Digitally signed by Erle Miles, Jr. VP
DN: cn=Erle Miles, Jr. VP, o=Testing Services Inc., ou, email=tsioffice@windstream.net, c=US
Date: 2012.08.22 09:04:05 -04'00'

Erle Miles, Jr. VP
Testing Services Inc.

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PHONE: (706) 226-1400 • FAX: (706) 226-611

TEST REPORT

CLIENT:	Rubber Designs, LLC	REPORT NUMBER:	49956A-01
	PO box 128	LAB TEST NUMBER:	2256-5854
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		PAGE:	Page 2 of 2

AMBIENT Sample Condition: Dry
Temperature: 70°F (23°C)

Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
1	16.2	5	4'	4.08	109	512
2	16.2	3	4'	4.08	111	533
3	16.2	3	4'	4.08	107	496
Average			Drops 2, 3		109	515

Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
1	18.8	3	5'	5.49	134	757
2	18.1	3	5'	5.09	124	675
3	18.0	3	5'	5.04	132	740
Average			Drops 2, 3		128	708

Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
1	19.7	2	6'	6.03	159	1074
2	19.7	1	6'	6.03	163	1135
3	19.8	2	6'	6.09	154	1049
Average			Drops 2, 3		159	1092

HOT Sample Condition: Dry
Temperature: 120°F (49°C)

Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
1	16.2	0	4'	4.08	107	522
2	16.2	4	4'	4.08	111	547
3	16.2	0	4'	4.08	110	537
Average			Drops 2, 3		111	542

Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
1	18.1	1	5'	5.09	133	778
2	18.1	3	5'	5.09	140	831
3	18.1	6	5'	5.09	144	856
Average			Drops 2, 3		142	844

Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
1	19.7	4	6'	6.03	151	994
2	19.8	2	6'	6.09	157	1008
3	19.8	1	6'	6.09	158	1064
Average			Drops 2, 3		158	1036

COLD Sample Condition: Dry
Temperature: 25°F (-6°C)

Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
1	16.2	1	4'	4.08	129	647
2	16.2	2	4'	4.08	132	659
3	16.2	6	4'	4.08	124	600
Average			Drops 2, 3		128	630

Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
1	18.1	3	5'	5.09	134	747
2	18.1	1	5'	5.09	136	759
3	18.1	1	5'	5.09	135	753
Average			Drops 2, 3		136	756

Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC
1	19.7	6	6'	6.03	154	1016
2	19.7	8	6'	6.03	157	1030
3	19.8	5	6'	6.09	163	1093
Average			Drops 2, 3		160	1062