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TEST REPORT

CLIENT:	Robertson Industries	REPORT NUMBER:	48731	
	4401 E. Baseline Road Suite 105	LAB TEST NUMBER:	2150-2268	
	Phoenix, AZ 85042	DATE:	July 13, 2010	
		PAGE:	1 of 2	

Product Description: TT Synthetic Pro 3.25" (1.75" Pile Ht Synthetic Turf w/Thatch Layer infilled with 2.5 lbs/sq/ft 12-20 Silica Sand over 1.5" Ht Pour-In-Place **Tested Dimension:** 18" x 18" X 3.25" Concrete Sub Base: Center of Test Material Impact Location: Date of Receipt: May 10, 2010 **Testing Period:** June 23--29, 2010 Steve Scaturro Authorization: **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 Missle: Hemispherical (Triaxial Accelerometer): Total Drop Assembly Weight (46g) 10 lbs Test Equipment: Triax 2000 Surface Impactor Date of Last Calibration: 3/24/2010 by Alpha Automation Sample Pre-Condition: 50±10 RH, 7sF±5F for a minimum of 24 hrs piror 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 1000 or less Ambient, 72°F (23°C) 5' Hot, 120°F (49°C) 5' Cold, 25°F (-6°C) 5' Critical Fall Height (CFH): 5'

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



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				PAGE:		Page 2 of 2		
	_			5		_		
	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC	
: Dry C)	1	16.2	3	4'	4.08	125	516	
	2	16.3	6	<u> </u>	4.13	131	547	
	3	16.3	2	4 Drops 2, 3	4.13	129 130	532 540	
tion 23°	Average				130	540		
ndi T (2	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC	
AMBIENT Sample Condition: Dry Temperature: 70°F (23°C)	1	18.1	6	5'	5.09	155	775	
	2	18.0	1	5'	5.04	155	774	
am	3	18.1	2	5'	5.09	161	819	
T Sc erat	Average			Drops 2, 3		158	797	
-N =								
1BII Ter	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC	
AN	2	19.7 19.8	1	<u> </u>	6.03 6.09	191 201	1145	
	2	19.8	3	6'	6.09	201	1236 1243	
	Average	19.0	3	Drops 2, 3	0.09	204 203	1243 1240	
	Average			D10p3 2, 3		203	1240	
	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC	
	1	16.2	5	4'	4.08	132	553	
	2	16.2	6	4'	4.08	137	585	
≥ົດ	3	16.2	1	4'	4.08	139	601	
6	Average			Drops 2, 3		138	593	
HOT Sample Condition: Dry Temperature: 120°F (49°C)	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC	
ndit 0°F	1 DIUD #	18.1	Angle 1	5'	5.09	163	884	
12(Co	2	18.2	2	5'	5.15	165	884	
ole re:	3	18.1	2	5'	5.09	168	908	
amj	Average			Drops 2, 3	0107	167	896	
per								
e P	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC	
	1	19.7	3	6'	6.03	203	1231	
	2	19.8	02	<u> </u>	6.09	217	1358	
	3 Average	19.8	2	Drops 2, 3	6.09	221 219	1389 1374	
	Average			Di 0p3 2, 3		217	13/4	
	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC	
	1	16.2	5	4'	4.08	125	529	
	2	16.3	6	4'	4.13	127	540	
yry 🙂	3	16.3	6	4'	4.13	124	522	
°C I	Average			Drops 2, 3		126	531	
COLD Sample Condition: Dry Temperature: 25°F (-6°C)	Dron #	Volocity ft/coo	Anglo	Drop Ht/Actual	Drop Ut/Theoretical	Cmay	HIC	
ndi ₽	Drop #	Velocity ft/sec 18.0	Angle	5'	Drop Ht/Theoretical 5.04	Gmax 145	701	
CC 25	2	18.1	4	5'	5.04	145	701	
ple. Jre:	3	18.1	2	5'	5.09	147	672	
am	Average	10.1	٤.	Drops 2, 3	0.07	145	693	
D S Dpe								
OLI	Drop #	Velocity ft/sec	Angle	Drop Ht/Actual	Drop Ht/Theoretical	Gmax	HIC	
οΓ	1	19.8	5	6'	6.09	167	929	
	2	19.8	5	6'	6.09	177	1012	
	3	19.8	3	6'	6.09	177	1001	
	Average			Drops 2, 3		177	1007	

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