



Test Report

CLIENT:	Innovative Base Technologies	REPORT NUMBER:	60466
	5030 Seminole Blvd	LAB TEST NUMBER:	2604-9391
	St Petersburg, FL 33708	DATE:	April 17, 2014
		PAGE:	1 of 2

Turf Description: 1.5" Pile Height Monofilament with Thatch Layer

Infill System: 1.0 lbs/sq/ft Silica Sand (Bottom Layer) + 1.0 lbs/sq/ft SBR Rubber (Top Layer)

Panel Description: UltraBase Champion

Underlayment: 0.035" Geotextile

Sub Base: 2" Layer # 7 & # 81 Rock
1" Compacted Fines Layer

Discussion: Testing Services Inc was instructed to carry out testing on the resilient playing surface supplied according to the following testing:

- Gmax Attenuation

Material Received: October 4, 2013 (Ambient Testing)
April 8, 2014 (Temperature Testing)

Note: System Set-Up (From Top to Bottom): Turf with Infill System-UltraBase Champion Panel-Geotextile Fabric-Sub Base

Date of Test: October 15, 2014 (Ambient Testing)
April 15-16, 2014 (Temperature Testing)

Test Conditions: 73.0°F 56% RH (Ambient Testing)
57.9°F 37% RH (Temperature Testing)

Procedure: *ASTM F355-10a: Standard Test Methods for Shock-Absorbing Properties of Playing Surface Systems and Materials (Procedure A)*

Test Equipment:

Description:	Clearview Bumper II mfg by TSi (US Patent # 6,925,898 B2)
Tube:	Clear Acrylic
Missile Weight:	9.1 kg (20 lb)
Missile Circumference:	129 cm ² (20 in ²)
Data Collection:	PDA with built in software

Data obtained from this test method are indicative of cushioning properties of the playing surface system and materials under the specific conditions selected. The playing system is impacted at a specified velocity with a missile of given mass and geometry to determine the maximum value of *G encountered during impact*.

The test set-up was positioned over the sub base with the clearview bumper II (gmax test equipment) placed level over the entire system. The missile was released, so as to impact the center of the assembly at a velocity of 3.43 m/s at a drop height of 24". Individual drops were made in five different locations onto the surface of the infilled turf.



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Test Data:

Ambient Conditions

Test Drop Location	Gmax
Center of Panel	91
Quadrant 1	78
Quadrant 2	99
Quadrant 3	79
Quadrant 4	77
Overall Gmax	85

After 15 Hour Exposure @ 20° F 0% RH

Test Drop Location	Gmax
Center of Panel	111
Quadrant 1	87
Quadrant 2	74
Quadrant 3	67
Quadrant 4	92
Overall Gmax	86

After 15 Hour Exposure @ 145° F 30% RH

Test Drop Location	Gmax
Center of Panel	64
Quadrant 1	85
Quadrant 2	98
Quadrant 3	98
Quadrant 4	105
Overall Gmax	90

Approved By:

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 Testing Services Inc