



G-MAX TEST REPORT

CLIENTS:

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Department of General Services
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REPORT NUMBER

2019

Date 06-18-2019

DESCRIPTION

An independent analysis of synthetic turf relative to G-max was requested by the client. The Test was performed by a Licensed Professional Engineer at the below referenced location with ASTM certified and calibrated equipment via Triax "A" Missile SN30-9887 1683. The Test Methods are as follows;

*Method A - ASTM F 355, Test Method for Shock-Absorbing Properties of Playing Surface Systems and Materials.
ASTM F 1936-10, Standard Specification for Shock-Absorbing Properties of North American Football Field
Playing Systems as Measured on the Field, (G-max)*

The particulars of this on-site analysis are described below.

TEST INFORMATION

Project Name – Upshur Recreation Center

Site address - 4300 Arkansas NW, Washington, DC

Test Type - Onsite G-max Test - 10 Locations

Field Type - Soccer (Sand/Rubber)

Test Date - 06-18-2019

Time of Test - 11:45am

Weather - Sun 83°F

Installation Date - 2013

Field Temp - 100°F Average

TEST RESULTS

The following test results indicate G-max values for ten individual locations with three separate tests performed at each location. A table has been provided indicating the values associated with each test and a location map showing the ten individual tests at designated and described locations. ***The test results reported herein reflects the conditions of the tested field at the time and temperatures noted.***

TEST CONCLUSION

The Synthetic Turf Athletic Field at Upshur Recreation Center as characterized above and in the following report has been verified to be **out of compliance** for shock attenuation and **does not meet the requirements** for play based on the specifications as referenced in ASTM F1936-10 with locations above the maximum allowable limit of 200.

**Upshur Rec Center – Synthetic Turf Field
Overall G-max = 193**

APPROVED BY - RYAN TEETER, P.E. - LDD Sports

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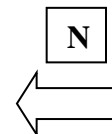
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Upshur Recreation Center - Turf Field									
G-max Values - 06.18.2019									
Test Location	Drop 1		Drop 2		Drop 3		Gmax Average	Infill Depth (mm)	Field Temp (°F)
	Gmax	HIC	Gmax	HIC	Gmax	HIC			
1	200	653	209	699	207	679	208.00	28	100
2	270	853	275	857	270	824	272.50	15	100
3	165	498	179	561	183	577	181.00	32	100
4	228	659	233	663	238	680	235.50	31	100
5	143	428	126	324	123	301	124.50	28	100
6	165	505	181	579	179	565	180.00	32	100
7	193	642	213	756	216	771	214.50	25	100
8	189	621	202	686	201	686	201.50	26	100
9	141	430	156	510	160	528	158.00	39	100
10	141	412	154	473	156	480	155.00	34	100
							193	Overall Average G-max	

Location	Specific Location Description
1	S Penalty Kick at Center of the Field
2	S Goal area at center of field
3	SE Corner of White Lines
4	SE Approx 25 yd line 30 ft from midfield
5	Center of field
6	NW Approx 25 yd line at the numbers
7	N Center of field at White Arc
8	N Soccer Goal Area at center of field
9	NE Corner kick white line
10	East sideline at midfield





G-MAX TEST REPORT



Location #1



Location#2



Location #3



Location #4



Location #5



Location #6



Location #7



Location #8



Location #9



Location #10