



# G-MAX TEST REPORT

## CLIENTS:

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## REPORT NUMBER

2019

Date 06-26-2019

## 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. A passing Gmax value only indicates the field is in compliance with ASTM F1936-10 and does not exclude the field from needing necessary repairs or maintenance to assure a safe playing surface.

## TEST INFORMATION

**Project Name – Riggs Recreation Football Field**

**Site address** - 501 Riggs Street NE, Washington, DC

**Test Type** - Onsite G-max Test - 10 Locations

**Field Type** - Football (Sand/Rubber)

**Test Date** - 06-26-2019

**Time of Test** - 1:00pm

**Weather** - Sun 91°F

**Installation Date** - 2008

**Field Temp** - 113°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 Football Field at Riggs Recreation Center as characterized above and in the following report has been verified to be in compliance for shock attenuation and meets the requirements for play based on the specifications as referenced in ASTM F1936-10 with all locations below the maximum allowable limit of 200.

**Riggs Rec – Football Field  
Overall G-max = 164**

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

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Riggs Community Rec Center - Football									
G-max Values - 06.26.2019									
Test Location	Drop 1		Drop 2		Drop 3		Gmax Average	Infill Depth (mm)	Field Temp (°F)
	Gmax	HIC	Gmax	HIC	Gmax	HIC			
1	168	516	171	523	170	511	170.50	32	113
2	182	576	190	616	190	605	190.00	28	113
3	145	460	151	491	150	491	150.50	38	113
4	143	431	149	545	149	450	149.00	41	113
5	134	395	137	413	135	397	136.00	40	113
6	141	440	149	477	150	479	149.50	41	113
7	177	522	181	531	178	508	179.50	28	113
8	186	629	197	698	201	702	199.00	31	113
9	157	467	160	470	154	444	157.00	42	113
10	159	521	164	546	162	531	163.00	39	113
							164	Overall Average G-max	

Location	Specific Location Description
1	W goal line center of the field
2	W Soccer Goal area at center of field
3	SW 10yd line at the numbers
4	SW 25yd line at the hashes
5	Midfield at Centerfield
6	NE 25 yd line at the numbers
7	E center of the LAX circle
8	E Soccer Goal area at center of field
9	SE 37yd line at the hashes
10	South 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