



# G-MAX TEST REPORT

## CLIENTS:

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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 – Jelleff Recreation Center

Site address - 3265 S Street NW, Washington, DC

Test Type - Onsite G-max Test - 10 Locations

Field Type - Soccer/Baseball (Sand/Rubber)

Test Date - 06-18-2019

Time of Test - 10:00am

Weather - Cloudy 78°F

Installation Date - 2010

Field Temp - 85°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 Jelleff 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.

**Jelleff Rec Center - Synthetic Turf Field  
Overall G-max = 198**

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

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Jellef Rec Center - Combo 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	171	543	170	535	173	545	171.50	38	85
2	197	639	206	679	203	653	204.50	28	85
3	182	604	191	651	191	644	191.00	32	85
4	156	464	164	495	166	497	165.00	35	85
5	122	354	127	372	127	370	127.00	38	85
6	228	761	251	872	230	747	240.50	15	85
7	250	920	261	977	253	926	257.00	22	85
8	162	493	199	699	224	838	211.50	0	85
9	179	577	197	677	199	677	198.00	23	85
10	205	644	212	675	219	714	215.50	25	85
							198	Overall Average G-max	

Location	Specific Location Description
1	East Penalty Kick Area at Center of Field
2	East Goal Area at Center of Field
3	SE Corner Kick Area
4	Center Field
5	South Midfield Sideline
6	2nd Base Area 3ft off towards 1st base
7	1st Base Area 3ft off towards 2nd base
8	Home Plate Left Handed Batters Box
9	3rd Base Area 3ft off towards 2nd Base
10	Center of Pitchers Mound





# G-MAX TEST REPORT



Location #1



Location #2



Location #3



Location #4



Location #5



Location #6



Location #7



Location #8



Location #9



Location #10