



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 – Palisades Spray Park – Turf Field

Site address - 5200 Sherrier PI NW, Washington, DC

Test Type - Onsite G-max Test - 10 Locations

Field Type - Soccer (Sand/Rubber)

Test Date - 06-18-2019

Time of Test - 9:00am

Weather - Cloudy 76°F

Installation Date - 2013

Field Temp - 82°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 Palisades Park 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.

**Palisades Park – Synthetic Turf Field
Overall G-max = 177**

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

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Palisades Park - (Soccer 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	187	558	193	574	191	558	192.00	18	82
2	215	540	215	512	217	505	216.00	12	82
3	158	492	157	487	154	476	155.50	22	82
4	168	513	170	521	168	506	169.00	22	82
5	184	551	192	580	190	568	191.00	18	82
6	130	295	142	343	146	359	144.00	23	82
7	140	326	146	343	144	327	145.00	24	82
8	188	487	195	510	192	496	193.50	22	82
9	151	443	156	469	157	470	156.50	25	82
10	193	645	201	695	204	707	202.50	25	82
							177	Overall Average G-max	

Location	Specific Location Description
1	E Penalty Kick at Center of the Field
2	E 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	W Center of field at White Arc
8	W Soccer Goal Area at center of field
9	NW Corner kick white line
10	North 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