



## 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 – Deal Middle School – Soccer Field**

**Site address -** 3815 Fort Drive NW, Washington, DC

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

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

**Test Date -** 06-18-2019

**Time of Test -** 5:00pm

**Weather -** Sun 87°F

**Installation Date -** 2010

**Field Temp -** 102°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 Soccer Field at Deal Middle School 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.

**Deal MS – Soccer Field  
Overall G-max = 148**

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

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Deal MS - 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	186	498	201	563	208	577	204.50	7	102
2	154	479	164	526	164	535	164.00	30	102
3	144	279	116	283	115	277	115.50	39	102
4	123	328	131	358	129	350	130.00	37	102
5	170	493	177	501	168	545	172.50	25	102
6	114	279	119	298	120	299	119.50	37	102
7	126	327	134	353	130	332	132.00	36	102
8	162	449	169	476	169	474	169.00	35	102
9	119	283	127	310	136	404	131.50	36	102
10	141	380	144	385	144	381	144.00	41	102
							148	Overall Average G-max	

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







## G-MAX TEST REPORT



Location #1



Location#2



Location #3



Location #4



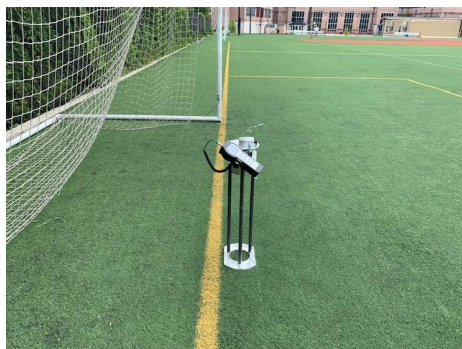
Location #5



Location #6



Location #7



Location #8



Location #9



Location #10