



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 – Tubman Elementary School
Site address - 3103 13th St NW, Washington, DC 20010
Test Type - Onsite G-max Test - 10 Locations
Field Type - Soccer (Sand/Rubber)

Test Date - 06-18-2019
Time of Test - 2:30pm
Weather - Sun 88°F
Installation Date - N/A
Field Temp - 97°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 Tubman Elementary 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.

**Tubman ES - Synthetic Turf Field
Overall G-max = 196**

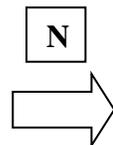
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Tubman ES - Synthetic Turf Field									
G-max Values - 06.18.2019									
Test Location	Drop 1		Drop 2		Drop 3		Gmax Average	Infill Depth (mm)	Field Temp (°F)
	Gmax	HIC	Gmax	HIC	Gmax	HIC			
1	208	593	210	602	213	602	211.50	12	97
2	184	482	210	618	203	566	206.50	10	97
3	194	521	199	585	203	598	201.00	32	97
4	134	320	150	366	143	329	146.50	30	97
5	134	290	139	405	137	389	138.00	28	97
6	194	568	198	586	202	566	200.00	23	97
7	208	631	208	602	206	599	207.00	16	97
8	189	533	222	712	220	693	221.00	14	97
9	201	601	203	603	210	603	206.50	23	97
10	195	599	225	654	220	625	222.50	32	97
							196	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	West 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