



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 – Roosevelt High School

Site address - 4301 13th St NW, Washington, DC

Test Type - Onsite G-max Test - 10 Locations

Field Type - Football (Sand/Rubber)

Test Date - 06-18-2019

Time of Test - 11:00am

Weather - Sun 81°F

Installation Date - N/A

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 Football Field at Roosevelt High 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.

**Roosevelt HS – Stadium Field
Overall G-max = 159**

APPROVED BY - RYAN TEETER, PE

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G-MAX TEST REPORT

Roosevelt HS - Football									
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	165	467	167	477	163	458	165.00	36	102
2	168	503	171	511	172	513	171.50	35	102
3	143	424	143	424	148	445	145.50	41	102
4	144	427	139	414	143	431	141.00	41	102
5	143	428	126	324	123	301	124.50	40	102
6	133	357	138	377	137	372	137.50	36	102
7	181	474	207	567	205	556	206.00	9	102
8	181	548	184	567	186	578	185.00	27	102
9	138	368	149	417	148	414	148.50	25	102
10	159	470	167	505	163	483	165.00	34	102
							159	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	North sideline at midfield





G-MAX TEST REPORT



Location #1



Location#2



Location #3



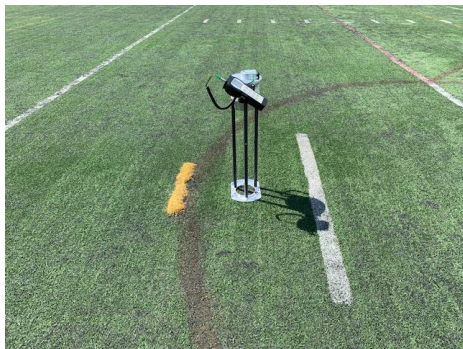
Location #4



Location #5



Location #6



Location #7



Location #8



Location #9



Location #10