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 – Joseph Cole Recreation Center
Site address - 1200 Morse Street NE, Washington, DC
Test Type - Onsite G-max Test - 10 Locations
Field Type - Soccer (Sand/Rubber)

Test Date -	06-18-2019
Time of Test -	4:00pm
Weather -	Sun 88°F
Installation Date -	2010
Field Temp -	101°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 Joseph Cole 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.

Joseph Cole Rec – Synthetic Turf Field
Overall G-max = 167

APPROVED BY - RYAN TEETER, P.E. - LDD Sports
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Joesph Cole Recreation Center									
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	169	554	180	605	181	606	180.50	24	101
2	185	644	199	714	201	724	200.00	23	101
3	150	447	150	435	146	408	148.00	25	101
4	143	417	150	443	149	440	149.50	23	101
5	156	495	158	500	156	484	157.00	24	101
6	135	389	143	419	144	424	143.50	27	101
7	155	446	153	440	156	440	154.50	28	101
8	206	663	200	620	220	609	210.00	6	101
9	164	495	168	501	166	492	167.00	28	101
10	160	501	165	507	159	481	162.00	28	101
							167	Overall Average G-max	

Location	Specific Location Description
1	N Penalty Kick at Center of the Field
2	N Goal area at center of field
3	NW Corner of White Lines
4	NW Approx 25 yd line 30 ft from midfield
5	Center of field
6	SE Approx 25 yd line at the numbers
7	S Center of field at White Arc
8	S Soccer Goal Area at center of field
9	SW 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