

Athletic Field Consultants, Inc.

G-MAX Test and Field Inspection Report

Test Performed By: Jeff Clise
on behalf of Athletic Field Consultants, Inc.

Report No.: 19-013-1

General Project Information

Date of Test: 6/30/2019 (hot, sunny, breezy)

Project Name: Deanwood Recreation – Softball Field
Project Address: 1350 49th Street NE, Washington, D. C.
Contact Name: Will Johnson, FieldTurf - Sr. FieldCare Specialist
Contact Phone: c 302-507-6671
Contact Email: Will_Johnson@fieldturf.com



Field Conditions and Description of Field on Date of Test

Field Play Configuration: Softball

Field Orientation: N, S Home Plate to 1st Base (End to End)
Field Surface Type: Duraspine Manufacturer: FieldTurf
Field Planarity: no deviations noted

Installation Date: 2010

Test Point	Infill Depth (mm)	Temperature (F.)		Drop No. 1	Drop No. 2	Drop No. 3	Average Drop (2 and 3)
1	35	86	84	177	189	189	189
2	35	86	83	153	161	162	162
3	36	86	117	167	169	167	168
4	36	86	116	153	163	166	165
5	38	86	112	136	143	142	143
6	33	86	119	161	171	173	172
7	40	86	113	135	143	144	144
8	37	86	93	145	155	156	156
9	40	86	112	139	140	138	139
10	40	86	82	146	158	159	159
Average GMAX Value for Entire Field							160
Values in Bold/Red Exceed the ASTM Maximum Allowed G-MAX of 200							
ASTM Specified Drop Height: 2' Producing an Impact Velocity 11.35 FPS \pm 0.56							
Test Method: ASTM F 355, Test Method for Shock-Absorbing Properties of Playing Surface Systems and Materials.							
ASTM F1936-10, Standard Specification for Impact Attenuation of Turf Playing Systems as measured in the Field (G-MAX)							
Test equipment calibrated January 2019.							

Report Summary

Introduction:

An independent analysis of the FieldTurf synthetic playing surface, relative to gmax and general field conditions, was requested by the client. G-MAX Testing and Field Inspections were performed on the Deanwood Recreation – Softball Field on June 30, 2019.

Ten separate locations were tested for G-MAX values. Each test location had three G-MAX tests performed in order to obtain the average G-MAX. The tests were performed using ASTM certified and calibrated equipment, and were performed at locations on the field as determined by the ASTM F 1936-10 Specifications. The test results reported herein reflect the performance of the points tested at the time of testing and at the temperatures reported.

Findings/Recommendations:

No site abnormalities were found and there were no deviations from standard test procedures. All test points met the requirement of less than 200 average G-MAX when tested except for those indicated by Bold Red and shown in the Test Result G-Max Table.

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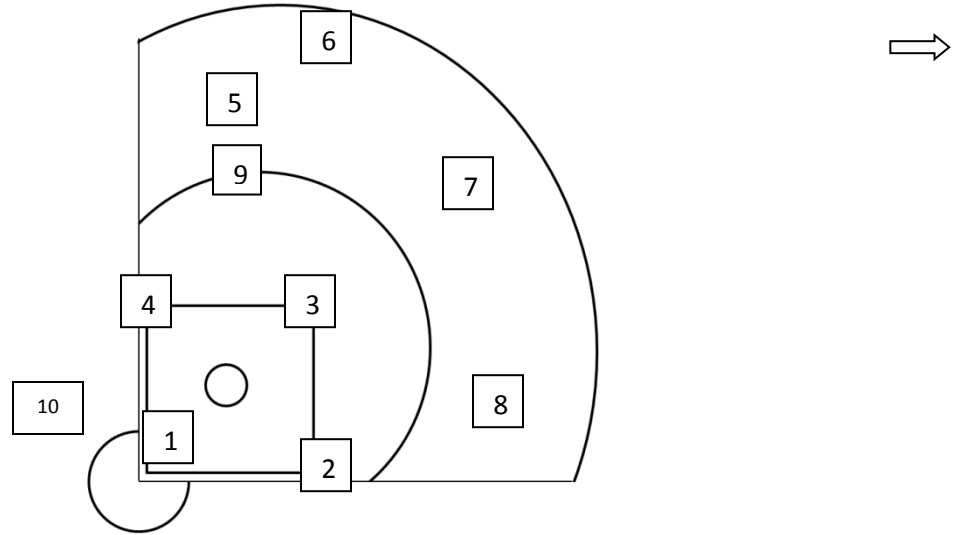
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Test Point Location Diagram (Baseball/Softball Field)



Test No.	Test Point Location Description
1	25 ft from the tip of Home Plate to the center of the Pitcher's Mound
2	6 ft. from 1 st Base to 2 nd Base
3	3 ft. from 2 nd Base to 1 st Base
4	4 ft. from 3 rd Base to 2 nd Base
5	Perpendicular to the Mid-Point of 3 rd Base Line, Half the Distance from the Base Line to the Left Field Fence or Boundary Line
6	20 ft from the Left Field Fence or Boundary line toward 2 nd Base, in line with 1 st Base
7	Halfway from 2 nd Base to the Center Field fence or Boundary Line, in line with Home Plate
8	Perpendicular to the Mid-Point of 2 nd Base Line, Half the Distance from the Base Line to the Right Field Fence or Boundary Line
9	Midpoint from 2 nd base to 3 rd base, perpendicular from the baseline to the outside of the colored arc
10	Walkway from on deck area to batter's box

*All test point locations are in accordance with ASTM specifications, but performed in sequence determined by tester.

Contact Discussions

Field Use: Softball

Maintenance Schedule: Unknown

Turf Condition (Standing, Starting to Lay Over, Laying Over, Excess Fiber Wear, Inlays)

Home Plate Area: Laying Over, Excess Fiber Wear

Center Field: Laying Over, Matted Down

Sidelines: Laying Over, Matted Down

Access Points to Field: Laying Over, Matted Down

Frequency of Use: Unknown

Maintenance Equipment: Unknown

Logo/Colored Areas: Red-Laying Over/Excess Fiber Wear

Inlays: Laying Over/Excess Fiber Wear

General

Field Accessibility: Multiple

Sporting Event Accessories and Maintenance Equipment Storage: Off Field

Observations/Recommendations: In general, the green fibers across the field are laying over. The inlays and red fibers (baselines, area around home plate) area heavily worn, have become brittle are breaking off and are shedding. This is a result of the age of the field (9 years old), amount of play it receives, mechanical wear, geographical location and possible UV degradation. The right-handed batter's box has been replaced. Regularly monitor the infill depths in high wear areas (baselines, home plate) and add rubber, as needed. Continue annual GMAX testing to ensure proper shock attenuation of field. The field is out of warranty, it appears to receive heavy play and is approaching the end of its useful life. Future plans for removal and replacement should be made.

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Impact Test Data

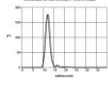
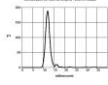
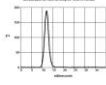
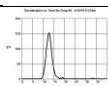
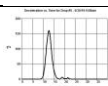
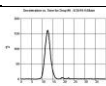
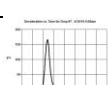
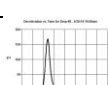
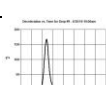
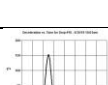
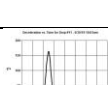
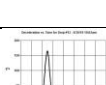
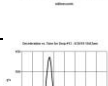
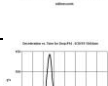
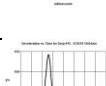
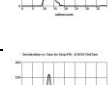
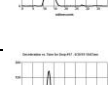
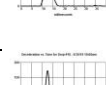
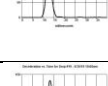
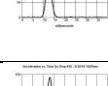
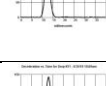
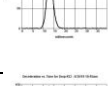
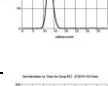
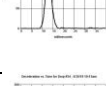
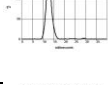
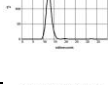
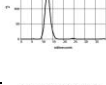
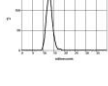
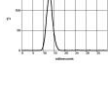
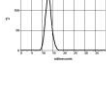
(Acceleration Time Curve)

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Test Point No. 1 Drop Point No. 1		Test Point No. 1 Drop Point No. 2		Test Point No. 1 Drop Point No. 3	
Test Point No. 2 Drop Point No. 1		Test Point No. 2 Drop Point No. 2		Test Point No. 2 Drop Point No. 3	
Test Point No. 3 Drop Point No. 1		Test Point No. 3 Drop Point No. 2		Test Point No. 3 Drop Point No. 3	
Test Point No. 4 Drop Point No. 1		Test Point No. 4 Drop Point No. 2		Test Point No. 4 Drop Point No. 3	
Test Point No. 5 Drop Point No. 1		Test Point No. 5 Drop Point No. 2		Test Point No. 5 Drop Point No. 3	
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Test Point No. 8 Drop Point No. 1		Test Point No. 8 Drop Point No. 2		Test Point No. 8 Drop Point No. 3	
Test Point No. 9 Drop Point No. 1		Test Point No. 9 Drop Point No. 2		Test Point No. 9 Drop Point No. 3	
Test Point No. 10 Drop Point No. 1		Test Point No. 10 Drop Point No. 2		Test Point No. 10 Drop Point No. 3	

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Test Point Location Photographs

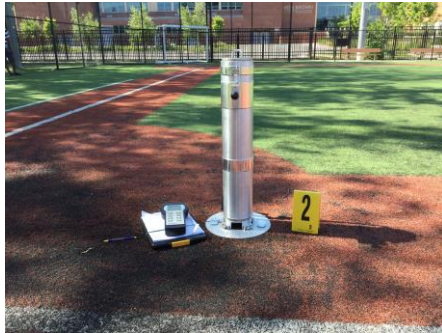
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Test No. 1



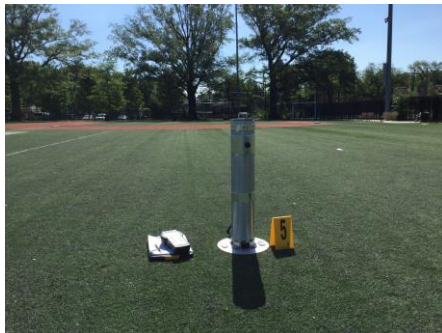
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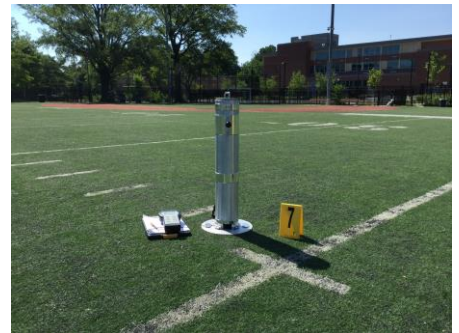
Test No. 4



Test No. 5



Test No. 6



Test No. 7



Test No. 8



Test No. 9



Test No. 10

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Location Photographs

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