

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.: 19-014-1

General Project Information

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

Project Name: Stanton Elementary School – Softball Field
Project Address: 2701 Naylor Road SE, 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: NW, SE Home Plate to 1st Base (End to End)

Field Surface Type: Duraspine

Manufacturer: FieldTurf

Installation Date: 2008

Field Planarity: no deviations noted

Test Point	Infill Depth (mm)	Temperature (F.) Air Field		Drop No. 1	Drop No. 2	Drop No. 3	Average Drop (2 and 3)
1	39	88	128	121	111	102	107
2	25	88	122	180	159	151	155
3	26	88	130	177	178	173	176
4	26	88	128	182	169	158	164
5	38	88	132	126	128	126	127
6	40	88	121	134	133	130	132
7	37	88	125	146	143	139	141
8	39	88	134	128	134	134	134
9	34	88	128	127	130	127	129
10	39	88	128	121	124	122	123
Average GMAX Value for Entire Field							139
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 Stanton Elementary School – 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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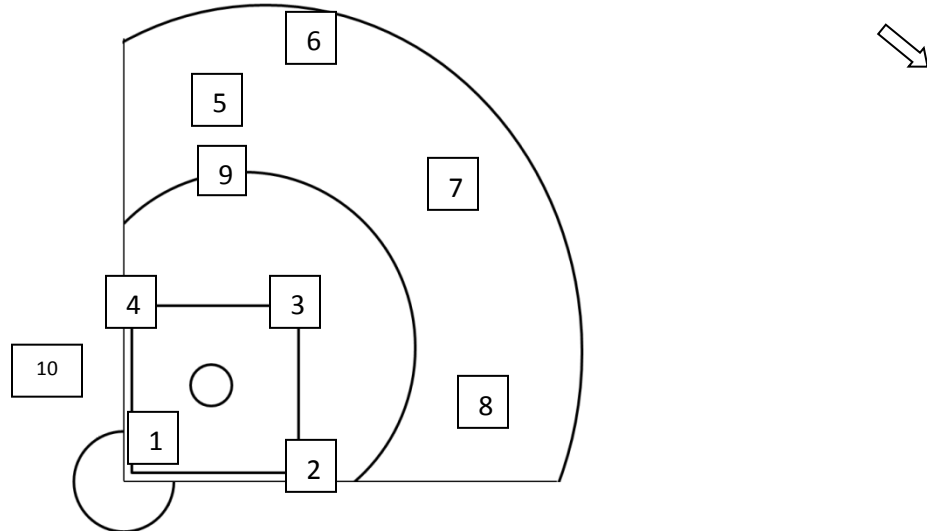
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Test Point Location Diagram (Baseball/Softball Field)



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 dugout 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

General

Field Accessibility: Multiple

Sporting Event Accessories and Maintenance Equipment Storage: On Field - soccer goal behind home plate

Frequency of Use: Unknown

Maintenance Equipment: Unknown

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

Inlays: Laying Over/Excess Fiber Wear

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 (11 years old), amount of play it receives, mechanical wear, geographical location and possible UV degradation. There is gravel laying on the field from the unpaved area around the bleachers, which needs to be removed. 3rd base is missing and the steel plate is exposed, which is a hazard. Performance Sports Turf Management was on site removing and replacing a section of turf at the entrance to the field from the dugout adjacent to the 1st baseline, at the time testing was being performed. This area is 25 feet from the baseline and well away from the field of play. 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

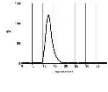
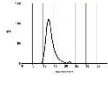
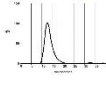
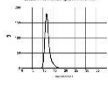
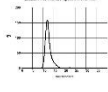
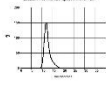
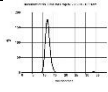
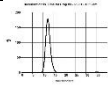
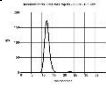
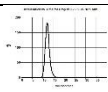
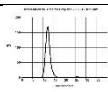
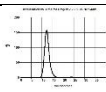
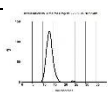
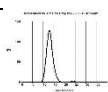
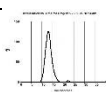
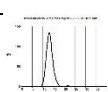
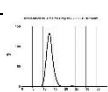
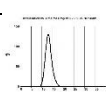
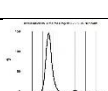
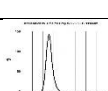
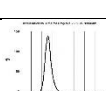
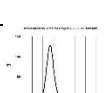
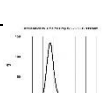
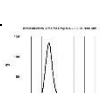
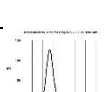
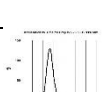
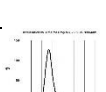
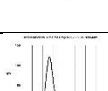
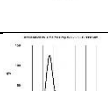
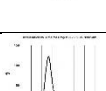
(Acceleration Time Curve)

Project Name: Stanton ES – Softball Field

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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. 7 Drop Point No. 1		Test Point No. 7 Drop Point No. 2		Test Point No. 7 Drop Point No. 3	
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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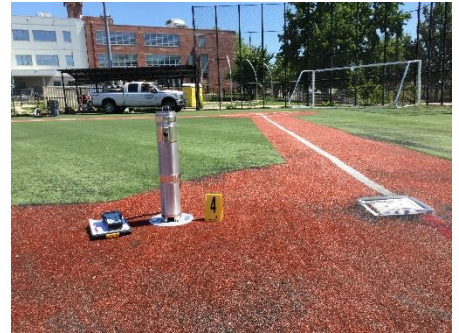
Test No. 1



Test No. 2



Test No. 3



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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