



SportCare

Synthetic Field Maintenance

January 5, 2011

Scott,

Happy New Year!

I hope all is well and you survived the Holiday Season Madness!

Enclosed please find your GMAX Test for the Soccer and Lacrosse Field referred to as Duderstadt. You will also find some information I enclosed about the importance of GMAX TESTING!

With regard to your field. Your field AVERAGE was 141 or 142 (Solid, OK)
For a field installed in 2007 or 2008, it is fine.

However, as the field ages, we do not want this number to start creeping above the 150 or 160 area.

The key is Rubber Infill. Rubber infill is the shock absorbency property that will absorb the impact and keep the field soft. Additionally, at least two annual grooming sessions per year as well as paying careful attention to high use areas as the field ages.

Now, we have bench mark to go by for future GMAX Testing.

As long as the field is below the ASTM # of 200 your field is declared safe for play.

Top Dressing High Use activity areas (if infill levels are low) will be the key for this field to receive maximum field longevity.

Please feel free to call me anytime to discuss at (917) 586-0302.

Best,

Andrew Schwartz
(917) 586-0302

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A DIVISION OF NATURAL GREEN



Duderstadt Field

Warren, New Jersey

“G” Max Testing
November 5, 2010

Prepared for:

Mr. Scott Seltzer

Director, Warren Soccer Association

S. Seltzer Construction Corporation

701 Springfield Road

Kenilworth, New Jersey 07033

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"G" Max Testing Report

STRIVING to provide excellent playability for all sport fields

Prepared for: Mr. Scott Seltzer
S. Seltzer Construction Corporation
701 Springfield Avenue
Kenilworth, New Jersey 0733

Operator: Mike Woody, Vice President

Re: "G" Max Testing, Soccer Field in Warren, NJ
(Multi-Use): Primary Sport: Lacrosse, Soccer

Installation: December 2007 Installation

Test/Inspection Date: November 05, 2010 12:00 pm

Weather: Cool, Cloudy, Wet and Damp
Air Temperature 51°F
Turf Temperature 53°F

Surface Type: FieldTurf – Durapsine
2.0 inch, 87,750 sq.ft.
Infill: Sand and Rubber

Report Results

"G" Max Testing was performed on the above-mentioned field. Testing was performed in accordance with ASTM 1936-07/F355 standards. Equipment used to perform these tests was a TRIAX 2000 "A" Missile 30-8724, which was **calibrated on 2/25/2010 (calibration certificate available upon request)**.

Eight drop locations were tested in accordance with ASTM 1936 (see attached diagram).

Drops were made at (8) different field locations. Each location, (3) drops were made, the second and third drops at all locations were averaged to develop a "G" Max value for each drop point. This field falls within the guidelines for ASTM 1936

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Referring to the attached test data, the drops are numbered 1-24 (for the drop locations). The peak reference column is the "G" Max result. The HIC column is the (Head Injury Criteria), which should have values below 1000. The FT/SEC column is the speed of the weight used in the test and the comment section column is the location of the drop test.

Infill measurements ranged from 26mm to 36mm evenly spread throughout the field.

The "G" Max rating of the field tested in this report ranged from *111-154*. ASTM 1936/F355 requires a "G" Max <200.

Field Average	141.5 G's	<150G's
Lowest Single Point	111 G's	
Highest Single Point	154 G's	<200G's

Conclusions

Under the test conditions listed in this report, all test locations **met** the requirement of <200 Average "G" Max (ASTM Specification 1936/F355), along with an average of <150 "G" Max for the Synthetic Field referred to as Duderstadt, when tested in accordance with Specification ASTM 1936 guidelines. The test results reported herein reflect the conditions of the field at the time of testing and at the temperatures reported.

Respectfully submitted,

Michael Woody, Vice President
SportCare

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GMAX Testing was performed on the following 8 drop locations on the field (see numbered boxes).

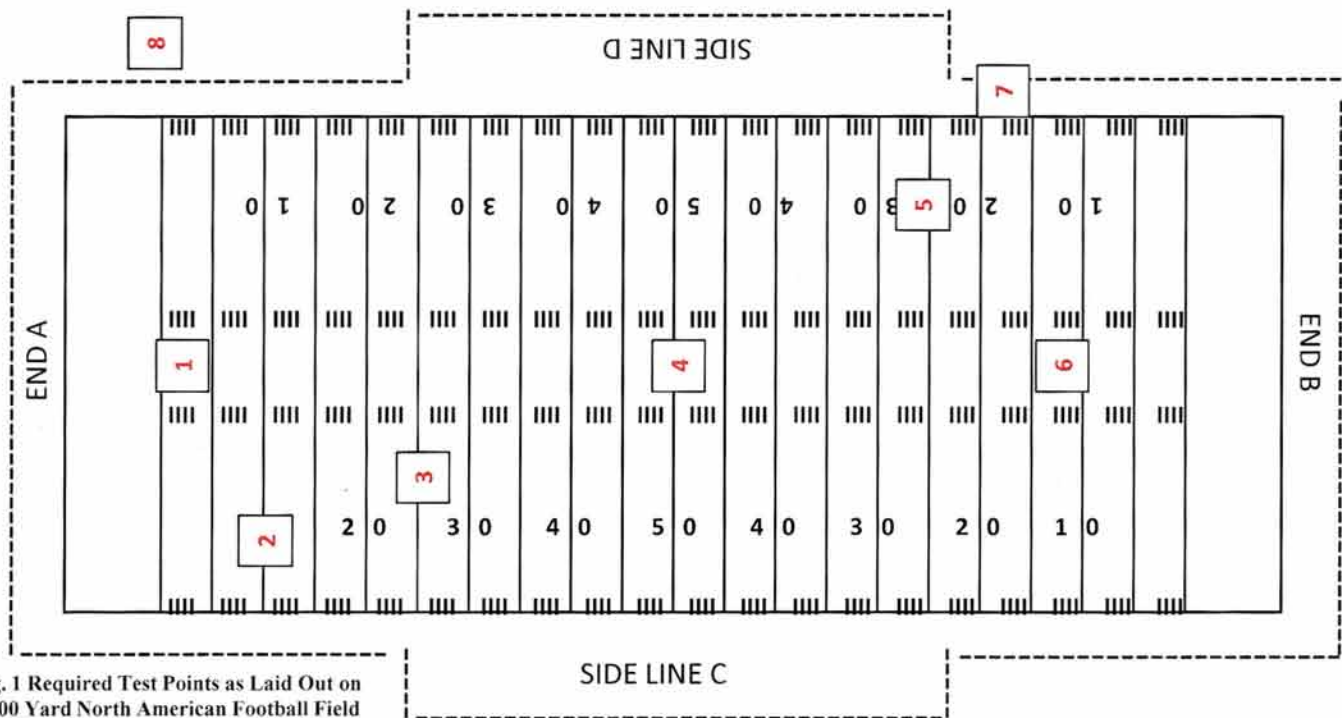


Fig. 1 Required Test Points as Laid Out on a 100 Yard North American Football Field

- Drop 1: Goal Line, End A, Center field
- Drop 2: 10 Yard Line, End A, and $\frac{1}{4}$ the distance measured from side line C toward the center of the field
- Drop 3: 25 Yard Line, End A, and $\frac{1}{2}$ the distance measured from side line A toward the center of the field
- Drop 4: Center field
- Drop 5: 25 Yard Line, End B, and $\frac{1}{4}$ the distance measured from side line D toward the center of the field
- Drop 6: 12 Yard Line, End B, and Center of Field
- Drop 7: A high traffic area located within the limit lines but outside of the inbounds lines on sites where conditions allow
- Drop 8: A test point within the limit lines as specified in the scope that represents conditions that may present adverse shock-absorbing properties
 - Actual drop site(s) shall be located within 36 in. (91 cm) in any direction of a required test point location
 - For North American football fields with Canadian or other configurations differing from Figure 1, adjust the test point location to like locations on the field and record the test points in accordance with 11.1.9
 - Additional test points – Additional test points may be required by the client. Additional test points within the limit of lines of the sport(s) shall be included in the performance requirements outlined in this standard.

- In the case of locating the test points on an unlined field: locate the above test points as accurately as possible noting the unlined condition in the test report as a site abnormality
- Deviations in a test point location in excess of the stated tolerance must be recorded in the test report as a site abnormality

Test Procedure

1. Record the general overall weather conditions for each day of testing (sunny, light rain, gusting wind, ect.). Include a general description of the field conditions as influenced by the weather (damp, dry, areas of standing water, ice, ect.).
2. Test point locations should be recorded with enough detail for them to be uniquely identified. For example, north may be indicated on the diagram. Record at each test point during testing the air temperature in the shade and the surface system temperature, as detailed in this section for this specific type of surface system, with all temperatures recorded in °F (°C). Additionally, it shall be noted if the test point is located on a line and, if so, the nature of the line.

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