



LEADING
DESIGN AND DEVELOPMENT, LLC

RYAN TEETER, PE, LEED® AP
(607) 351-8254

G-MAX TEST REPORT

CLIENT

Weymouth Public Schools
111 Middle Street
Weymouth, MA 02190

REPORT NUMBER

2013-284

Date 12-9-13

DESCRIPTION

An independent analysis of a synthetic turf system 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. 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 - Weymouth High School

Site address - One Wildcat Way, Weymouth, MA 02190

Test Type - Onsite G-max Test - 10 Locations

Field Type - Stadium (Slit Film w/rubber infill)

Test Date - 12-6-13

Time of Test - 7:30

Weather - Overcast, 54°F

Installation Date - 2013

Field Temp - 54°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 reflect the conditions of the tested field at the time and temperatures noted.*

TEST CONCLUSION

The Weymouth High School Stadium Athletic Field as characterized above and in the following report has been verified to be in compliance and meets the requirements for play based on the specifications as referenced in ASTM F1936-10 with all locations below the maximum allowable limit of 200. There are observed signs of excessive wear with numerous repairs to seams and inlays. The colored turf will require replacement due to the worn fibers and uneven surface.

Weymouth High School - Stadium Field
Overall G-max = 145

APPROVED BY - RYAN TEETER, PE



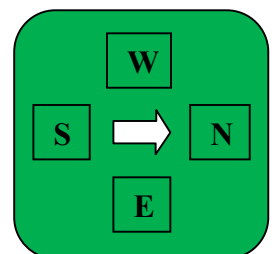
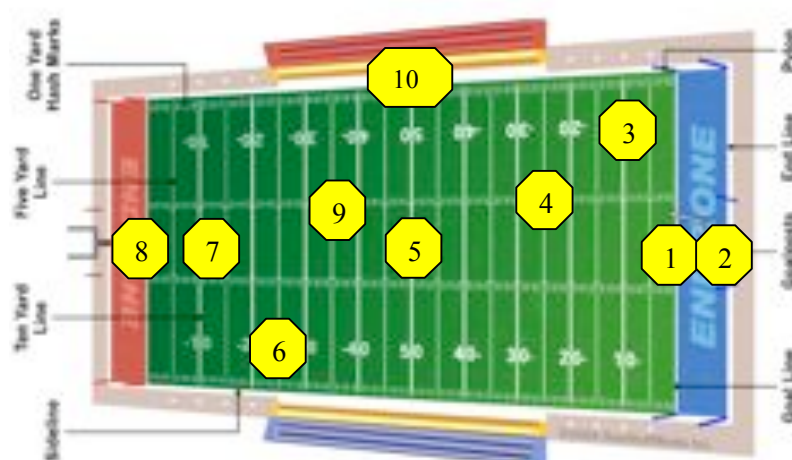
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Weymouth High School - Stadium Field						
G-max Values						
12.6.13						
Test Location	Drop 1	Drop 2	Drop 3	Average	Infill Depth (mm)	Field Temp (F)
1	155	157	162	159.50	24	55
2	129	142	148	145.00	27	55
3	139	151	155	153.00	27	54
4	153	166	166	166.00	22	54
5	125	137	141	139.00	28	56
6	122	125	137	131.00	32	55
7	127	137	139	138.00	30	55
8	128	142	145	143.50	28	54
9	125	136	141	138.50	26	54
10	124	135	139	137.00	26	55
				145.05	Overall Average G-max of Field area	

Test Location	Specific Location Description
1	N Goal line at center of field
2	N Back of Endzone at center of field
3	NW area on 10yd line at numbers
4	NW area on 25yd line at the hash mark
5	Midfield at Centerfield
6	SE area at 25yd line at numbers
7	S 12 yd line at the center of the field
8	S back of Endzone at center of field
9	SW 37 yd line at 50ft off south sideline
10	West sideline at midfield





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G-MAX TEST REPORT



Worn Fiber



Uneven transition at worn colored fibers



Previous Turf Repair



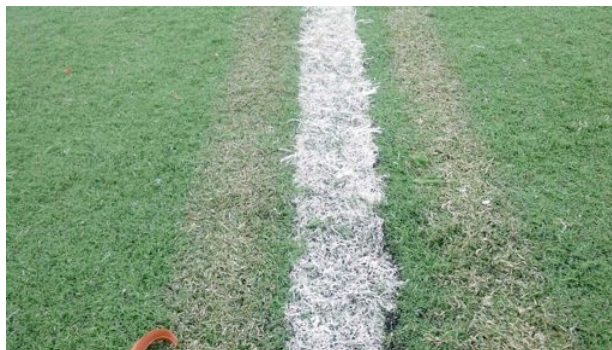
Excessively Worn Fibers with Shedding



One of several seam issues



One of several seam issues



Shedding, Worn Fibers, Seam Issue