

On-Site Testing

GMAX Impact Evaluation



New England Turf
Management

Project Information

Customer:	Fairfield Public Schools/ Ludlowe High School				
Site Address:	785 Unquowa Road		Field Info	Ludlowe Synthetic Turf Field	
	Fairfield	CT			
Report Date:	6/26/2026		Test Date	6/26/2026	
Report Status:	Complete		Job/ PO#	26500768	
Prepared By:	Ken Ordonez				
Checked By:	James Leszuk				

within the limitations of the resources devoted to it.

2. This report is confidential to the Client and New England Turf Management accepts no responsibility whatsoever to third parties to whom this report, or any part thereof, is made known. Any such party relies upon the report at their own risk.

3. This report shall not be used for engineering or contractual purposes unless signed by the Author and the Checker and unless the report status is "Final".

Summary

New England Turf Management was commissioned to perform on-site Gmax impact testing per ASTM F1936. A complete test was performed in accordance with the ASTM F1936 Standard. The results have been summarized in the quick reference table below. Complete results and background can be found in the subsequent sections of this report.

Quick Results Table

	Average	(min)	range	(max)	Max score per ASTM
GMAX (g's)	156.9	119	to	191	200
Infill Depth (mm)	28.9	24	to	32	N/A



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General Information

Testing Device	ASTM F1936 Apparatus TRIAX 2010 Data Acquisition	Test Method	GMAX
Install Date	unknown	Test Date	6/26/2026
Field Orientation	Location #9 = North East	Primary Sport	Football
Test Specification	ASTM F1936	Infill System	Crumb Rubber
Underlayment	Gravel	Air Temp (°F)	69
Turf Cover %	100	Weather Conditions	Overcast
Average GMAX Score	156.9	Humidity %	90
PASS/ FAIL	Pass	Technician	Ken Ordonez

Explanation of Testing Methods and Procedures



Method Background ASTM F355 Procedure A and ASTM F1936 are test methods used to measure the impact attenuation properties of synthetic turf playing systems. ASTM F355 Procedure A covers the overall test method and ASTM 1936 specifies the method for measurement in the field on an installed synthetic turf playing surface.

The test procedure involves dropping a 20 lb impacting missile three times at each location from a consistent height of 24 inches. The test is typically performed at 10 locations. The locations are based on the primary sport and the discretion of the tester. The first drop conditions / compacts the loose infill. This value is recorded but not included in the location average. The second and third drops are recorded and averaged for the location average. The location averages are used to determine the field average.

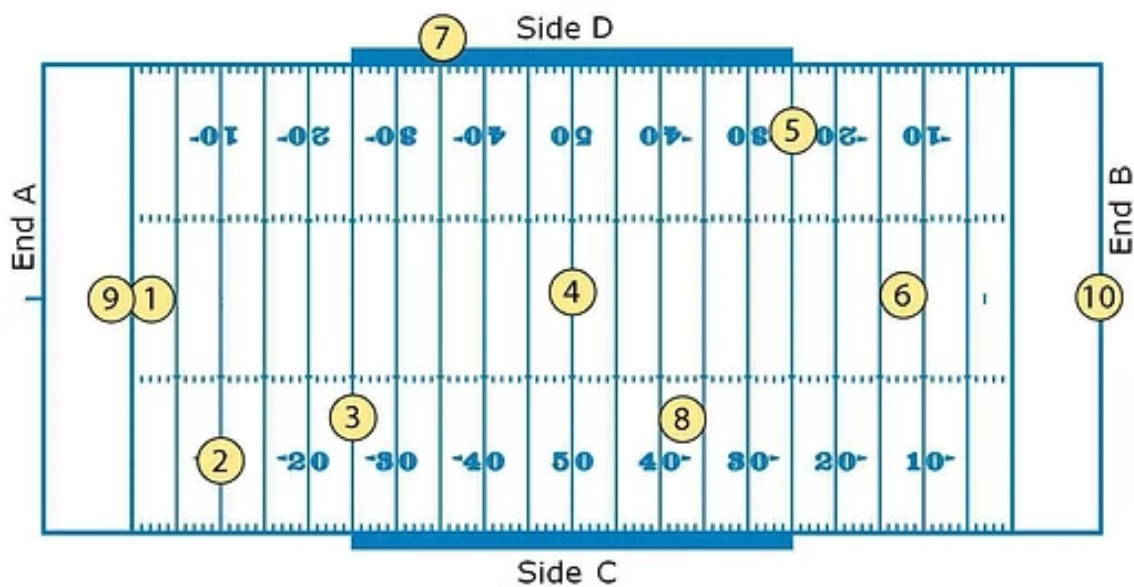
The impacting missile contains an accelerometer sensor that measures the magnitude of deceleration (measured in units of gravity or g's) for the duration of impact. The deceleration measured during impact creates a curve. The peak of that curve is referred to as the "Gmax". This is the primary value measured with this test. The maximum allowable Gmax as specified in the current ASTM F1936 test specification is 200 g's.



Results Table

Location #	Drop #1 G's	Drop #2 G's	Drop #3 G's	GMAX Average (G's)	Infill Depth (mm)	Surface Temp (°F)
Location #1	179.00	183.00	191.00	187	24.00	81.00
Location #2	133.00	142.00	145.00	143.5	31.00	78.00
Location #3	141.00	146.00	148.00	147	29.00	80.00
Location #4	159.00	162.00	167.00	164.5	31.00	76.00
Location #5	158.00	167.00	164.00	165.5	25.00	83.00
Location #6	178.00	183.00	186.00	184.5	29.00	85.00
Location #7	137.00	134.00	146.00	140	32.00	77.00
Location #8	140.00	151.00	154.00	152.5	30.00	78.00
Location #9	117.00	119.00	120.00	119.5	27.00	91.00
Location # 10	152.00	166.00	164.00	165	31.00	79.00

Location Map





Site Photo



Location #1

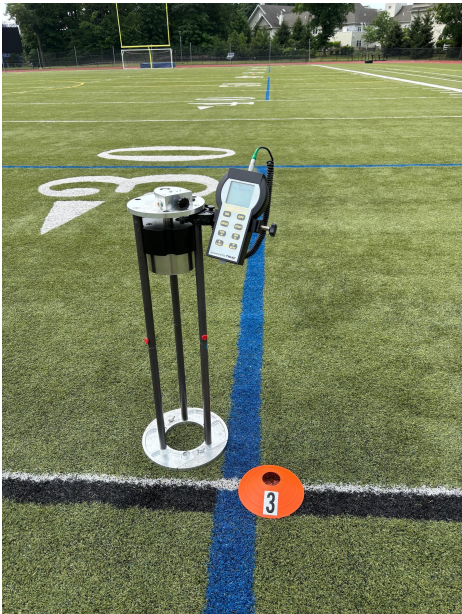




Location #2

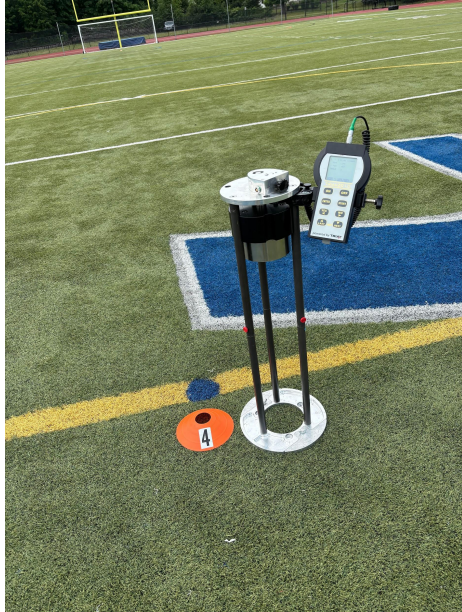


Location #3





Location #4



Location #5





Location #6



Location #7





Location #8



Location #9





Location #10



Technician Notes

The field is still in playable condition. The fibers are beginning to mat. There are several seams that have seperated it is too wet for glue today. I plan to come back Friday July 3rd to make those repairs.

Time In: 8:30:00 AM

Checked for Quality By: James Leszuk

Date: 6/26/2026