



BIOMECHANICA

Playing Surface Impact Test Report: Artificial Football Surface Hermiston High School, Hermiston, OR

Test date July 8, 2013

Report date July 15, 2013

Methods: **ASTM F355:** Standard Test Method for Shock-Absorbing Properties of Playing Surface Systems and Materials, Procedure A. **ASTM F1936-10:** Standard Specification for Impact Attenuation of Turf Playing Systems as Measured in the Field.

Description:	Hellas
Surface Type:	Infilled synthetic
Condition:	new

Summary of Results:	
Field Average G _{max}	101
Field Maximum G _{max}	113
Site Maximum G _{max}	115
Average fill depth (mm)	25

Weather:		7/8/13 14:04		
sunny, warm				
	°F	°C	mph	kph
Mean Temperature	79°	26°	Wind speed/Direction	3.7 6 km/h (NNW)
Max Temperature	93°	34°		
Min Temperature	63°	17°	Relative Humidity	39%
Dew Point	52°	11°		

*reported from Weather Underground www.wunderground.com



Test results reported herein reflect the conditions of the tested field at the time of testing and at the temperature(s) reported. Under the stated test conditions, all points met the requirement of < 200 G max average when tested in accordance with ASTM F1936-10e.



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Site #	Football Site Description: End A is North	Fill Depth (mm)	Drop	Gmax	Temperature			
					Air °F / °C	Surface °F / °C		
1	6 ft from the Goal Line to the back of the End Zone: North end, center field.	28	1 2 3 Avg 2 & 3	91 103 104 103	93°	34°	120°	49°
2	6 ft from the Goal Line to the back of the End Zone: North end, center field.	28	1 2 3 Avg 2 & 3	92 101 104 103	93°	34°	120°	49°
3	10 Yard Line, North end and 1/4 the distance from the Eastern side line toward the center of the field.	26	1 2 3 Avg 2 & 3	91 99 102 101	93°	34°	120°	49°
4	25 yard line, North end and 1/2 the distance from the Eastern side line toward the center of the field.	28	1 2 3 Avg 2 & 3	91 100 106 103	93°	34°	120°	49°
5	Site within limit lines, including in-bounds, that may differ from previous points: East Touchline @ ~ 40 yard line).	29	1 2 3 Avg 2 & 3	89 100 101 101	93°	34°	120°	49°
6	Center field.	27	1 2 3 Avg 2 & 3	82 93 90 91	93°	34°	120°	49°
7	25 yard line, South end and 1/4 the distance from the Western side line toward the center of the field.	27	1 2 3 Avg 2 & 3	100 111 115 113	93°	34°	120°	49°
8	12 yard line, South end, and center of field.	30	1 2 3 Avg 2 & 3	81 91 90 90	93°	34°	120°	49°
9	6 ft from the back of the End Zone to the Goal Line: South end, center field.	27	1 2 3 Avg 2 & 3	96 105 107 106	93°	34°	120°	49°
10	A high-wear area located within the limit lines but outside the in-bounds lines: Southeast corner kick point within 2 feet of the field corner.	0	1 2 3 Avg 2 & 3	86 96 98 97	93°	34°	120°	49°

