ASTM F1936-10 Test Report

This test is performed in accordance with ASTM F1936-15, a Standard Specification for Shock Attenuation of Turf Playing Systems as Measured in the Field. The results reported herein reflect the performance of the tested playing field surface at the time of testing and the temperature and ambient conditions reported. Performance will vary with the temperature, moisture content and other factors.

The test is performed using an "A missile" manufactured by Alpha Automation, Inc., in conformance with the technical requirements of ASTM F355 procedure A.

ASTM Standards are available from www.astm.org

FAIL

Field Location: **Crocker Amazon Soccer "Upper Field"**

Date(s) of Test: 5/5/2017

Ambien Temp: 83 degrees F
Surface Temp (½ inch depth): 79 degrees F

Field Layout: Soccer
Product:
Manufacturer:
Date Installed:

Primary Contact:
Name: Dan Mauer
Phone No.: (415)218-1156

Test Performed By: Timothy Golden

Test Locations & Results

Point 1 – Penalty Kick Line, End A, center field

Drop #	Drop Height	Infill Depth	Velocity	GMAX	HIC
1	2'	21	11.3	167	561
2	2'	24	11.2	174	595
3	2'	20	11.3	174	590
Av. 2&3		22		174	592.5

Point 2 – End A, 63' from center of field to Penalty Box corner Sideline C

Drop #	Drop Height	Infill Depth	Velocity	GMAX	HIC
4	2'	26	11.4	141	445
5	2'	27	11.3	153	510
6	2'	27	11.4	155	523
Av. 5&6		27		154	516.5

Point 3 – 75' from Half Line toward End A, 40' measured from center of field to Side C

Drop #	Drop Height	Infill Depth	Velocity	GMAX	HIC
7	2'	26	11.4	158	522
8	2'	27	11.6	169	577
9	2'	24	11.3	171	597
Av. 8&9		25.5		170	587

Point 4 – Center Point, Half Line

Drop #	Drop Height	Infill Depth	Velocity	GMAX	HIC
10	2'	13	11.4	229	899
11	2'	18	11.6	231	911
12	2'	14	11.3	233	908
Av.11&12		16		232	909.5

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Point 5 – 75′ from Half Line toward End B, 63′ from the center of field toward Sideline D

Drop #	Drop Height	Infill Depth	Velocity	GMAX	HIC
13	2′	24	11.3	151	502
14	2′	25	11.4	163	565
15	2′	27	11.2	166	586
Av. 14&15		26		164.5	575.5

Point 6 – ½ the distance from the Penalty Arc to leading edge of Penalty Box at End B, Center of Field

Drop #	Drop Height	Infill Depth	Velocity	GMAX	HIC
16	2′	19	11.4	198	709
17	2′	20	11.4	210	787
18	2′	20	11.4	210	777
Av. 17&18		20		210	782

Point 7 – Selected by Tester, within limit lines, but out of bounds, Sideline D

Drop #	Drop Height	Infill Depth	Velocity	GMAX	HIC
19	2′	28	11.3	155	518
20	2′	26	11.3	167	570
21	2′	29	11.3	173	622
Av. 20&21		27.5		170	596

Point 8 – Selected by Tester, with field limit lines that are anticipated to have different impact attenuation properties, side C

Drop #	Drop Height	Infill Depth	Velocity	GMAX	HIC
22	2′	19	11.3	159	509
23	2′	22	11.4	168	566
24	2′	21	11.3	170	563
Av. 23&24		21.5		169	564.5

Point 9 – 3′ from Goal line toward half line, End A, Center of Field

Drop #	Drop Height	Infill Depth	Velocity	GMAX	HIC
25	2′	16	11.3	229	870
26	2′	16	11.4	232	884
27	2′	29	11.4	228	858
Av. 26&27		22.5		230	871

Point 10 – 15′ from the Goal line toward half line, End B, Center of Field

Drop #	Drop Height	Infill Depth	Velocity	GMAX	HIC
28	2′	25	11.3	158	527
29	2′	25	11.6	170	593
30	2′	26	11.3	173	612
Av. 29&30		25.5		171.5	602.5

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Point 1:

Description (if needed):

Point 2:

Description (if needed):

Point 3:

Description (if needed):

Point 4:

Description (if needed):

Point 5:

Description (if needed):

Point 6:

Description (if needed):

Point 7:

Description (if needed):

Point 8:

Description (if needed):

Point 9:

Description (if needed):

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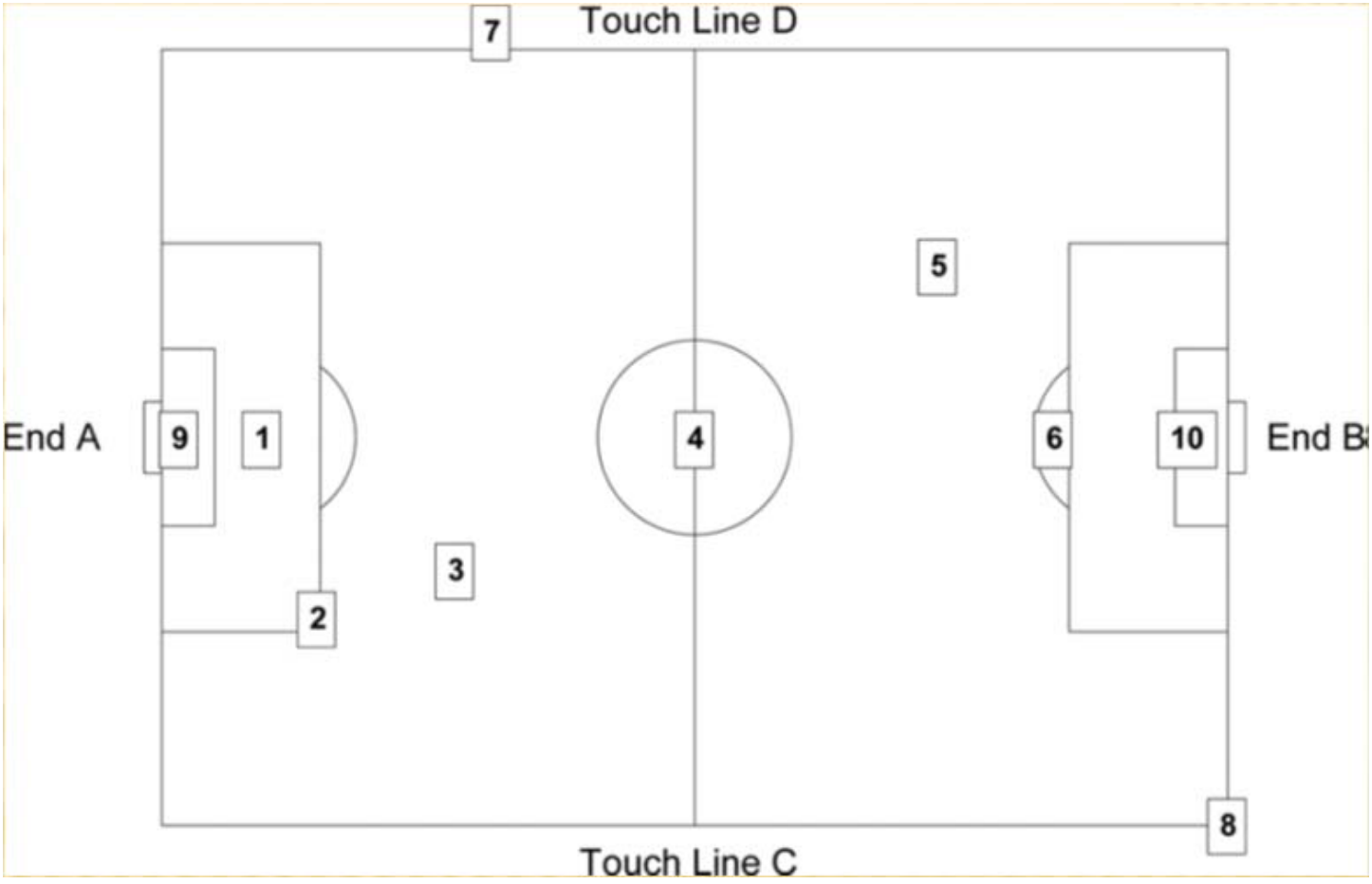
Point 10:

Description (if needed):

Point 11:

Description (if needed):
Location Picture Side A of Field