



TESTING TECHNOLOGY FOR SPORT

# Field Performance Report

## Plot 28 TPE

Report Number: 95971 / 7367

Report Status: Final

Client: AstroTurf

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# Field Performance Report

Report Number	95971 / 7369	Report Date	8/21/2024
Project Name	Plot 28 TPE	Test Date	8/5/2024
Client Information	AstroTurf		
Site Address	Ut Farm Roads, Knoxville, TN 37920		
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Checked by	Kieran O'Donnell	<i>Kieran O'Donnell</i>	

## Introduction

On-Site field performance testing was carried out in accordance with EN & ASTM test methods cited within standards developed by industry governing bodies and the OneTurf Concept

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## Foreword

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## 1.0 – Test Methods

- Determination of Shock Absorption – ASTM 3189-20
- Determination of Vertical Deformation – ASTM 3189-20
- Determination of Energy Restitution - ASTM 3189-20
- Determination of Rotational Resistance – EN 15301:2007
- Determination of Critical Fall Height – EN 1177:2018 Method 2
- Determination of Impact Attenuation – ASTM F1936-19

## 2.0 – Test Results Summary

	Shock Absorption (%)	Vertical Deform. (mm)	Energy Restitution (%)	Rotational Resistance (Nm)	HIC (m)	Gmax (g)	Infil Depth	Free Pile
Limits*	55 - 70	5.5 – 11.0	20 - 50	25 - 50	≥ 1.30	<200	Info only	Info only
Mean	67	9.4	33	32	1.74	94	25	16

\*Test Limits based on industry standard specifications developed by governing bodies and adopted by the OneTurf Concept.

## 3.0 – Field Information & Test Condition

System Details		Testing Conditions		
Carpet Product	3G		am	pm
		Air Temp. (F)	90	-
Performance Infill	TPE	Surface Temp. (F)	95	-
Stabilizing Infill	Sand	Humidity (%)	56	-
Test Condition	Dry	Wind Speed (m/s)	0.2	-
Underlayment	Shockpad	Weather Conditions	Sunny	
Substrate Type	Dynamic Stone	Operator	EG & JD	

**END REPORT**