

## TÜV SÜD America Inc.

**Product Safety Services** 47523 Clipper Drive Plymouth, MI 48170

Phone: 734.455.4841

#### ASTM F1292-13 Surfacing Material Report

	Surracing I	nateriai Kep	DORT - ASTIM FIZ	32-13		
CHEN	TigerSports America	as dba TigerTurf		Project No.:	72105807-1	0
Manufacturer:	Americas TigerSports America Americas	as dba TigerTurf	4.	Report Date:	9/22/2015	
Manufacturing Location:				Test Date:	0.00	
Phone: Commercial Name of product: Date of Manufacture: No. of samples submitted:	<u>Unknown</u>			Initial Test Follow up Test le Receipt Date: Air Temperature: Humidity:	□Ref Job: 9/16/2015 23.0°C	
		Test Equ	ıipment:_			
	Triax System 4:	abla	Environment	al Chamber No.:	N/A	
	Triax System 1:		Calib	ration Due Date:	N/A	
	Accelerometer ID:	PLYP00144	Environment	al Chamber No.:	N/A	
Accelerometer Ca	alibration Due Date:	3/11/2016	Calib	ration Due Date:	N/A	
	Loose fi	III Material S	ample Description	<u>ı:</u>		
Engineered Wood Fiber:			Un-compacted Depth:	<u>Unknown</u>	Inches	
Loose Fill Wood						
Rubber:						
Sand:			Compacted Depth:	<u>4</u>	Inches	
Aggregate:						
Other:						
2 <u>3</u> ***********************************	Т	urf Sample	Description:			
Diamon	d Light Fescue Turf	✓		otal Thickness:	2 02in	
	Poly Pad	☑		Top Layer:		
	Durafil Infill	☑		Base Layer:		in.)
Comments:  ) Turf system received fully assembled  ) System: 1.75in. pile Diamond Light Funknown un-compacted depth). Total s	escue Turf, infilled w/ 2.	.0lbs. per sq. ft. Dur of appoximately 6.93	Bin.			
he results reported herein reflect the po the described samples. Samples of so n accurate representation of the test re	urfacing materials that d	o not closely match	the described samples will pe	rform differently. Ti	reported. The he following da	results are specific ata sheet provides
ample in compliance with ASTM F1	1292-13 at the tempera	ature and rating s	pecified? Yes	V	No	
Signature: Tampl	thy Familia	Title: Proje	et Coordinator	Date:	9/22/1	5
Reviewed by:	Sol	Title: Plad	et Coordinator un Safety Engine	Date:	9/221	15
Annual Control of the						

Client: <u>TigerSports Americas dba TigerTurf Americas</u>

Project No.:

<u>72105807-10</u>

Manufacturer: <u>TigerSports Americas dba TigerTurf Americas</u>

Test Date:

9/18/2015

	Sussified	Refe	rence Tempe	rature -6°C, (2	1.2°F)	Refer	ence Temper	ature 23°C, (7	'3.4°F)	Reference Temperature 49°C, (120.2°F)			
Drop Impact I	Specified _ Impact Height (Ft.)	G-Max	HIC	Velocity (ft/s)	Theoretical Drop Height (ft.)	G-Max	НІС	Velocity (ft/s)	Theoretical Drop Height (ft.)	G-Max	НІС	Velocity (ft/s)	Theoretica Drop Heigh (ft.)
1	5				0.000	112	477	18.0	5.037				0.000
2	5				0.000	134	612	18.0	5.037				0.000
3	5				0.000	146	669	18.1	5.093				0.000
Av	erage	0	0			140	640.5		BEILDER	0	0		
Measured Sur	face Temperature	(-6°C)	Max. Ch	ange from refe (5°F)	rence + 5°C,	23°C	Max. Cha	inge from refe (5°F)	rence ± 3°C,	49°C	Max. Change from r -3°C, (-5°F)		
Sample	Condition:	DRY			DRY				DRY				

		Refe	rence Tempe	rature -6°C, (2	21.2°F)	Refe	rence Tempe	rature 23°C, (7	73.4°F)	Reference Temperature 49°C, (120.2°F)				
Drop	One foot over (Ft.)	G-Max	HIC	Velocity (ft/s)	Theoretical Drop Height (fl.)	G-Max	НІС	Velocity (ft/s)	Theoretical Drop Height (ft.)	G-Max	HIC	Velocity (ft/s)	Theoretical Drop Heigh (ft.)	
1					0.000				0.000				0.000	
2					0.000				0.000				0.000	
3					0.000				0.000				0.000	
Ave	rage	0	0			0	0			0	0			
Measured Surfa	nce Temperature	°C	Max. Cha	ange from refe (5°F)	erence + 5°C,	°C	Max. Ch	ange from refe (5°F)	rence ± 3°C,	°C	Max. Change from -3°C, (-5°			
Sample C	Condition:													

		Refe	rence Tempe	rature -6°C, (2	1.2°F)	Refe	rence Tempe	rature 23°C, (	73.4°F)	Refere	ence Temper	ature 49°C, (1	20.2°F)
Drop	One foot under (Ft.)	G-Max	HIC	Velocity (ft/s)	Theoretical Drop Height (fl.)	G-Max	HIC	Velocity (ft/s)	Theoretical Drop Height (fl.)	G-Max	HIC	Velocity (fl/s)	Theoretical Drop Height (ft.)
1					0.000				0.000				0.000
2					0.000				0.000				0.000
3					0.000				0.000				0.000
Av	erage	0	0			0	0			0	0		
Measured Sur	face Temperature	°C	Max. Cha	inge from refe (5°F)	rence + 5°C,	°C	Max. Ch	ange from refe (5°F)	om reference ± 3°C, °C		Max.	Change from -3°C, (-5°F	
Sample	Condition:												



America



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### **Product Safety Services**

47523 Clipper Drive Plymouth, MI 48170

Phone: 734.455.4841

# Surfacing Material Report - ASTM F1292-13

	3					
Client:	TigerSports Americas Americas	dba TigerTurf		Project No.:	<u>72105807-12</u>	
Manufacturer:	TigerSports Americas Americas	dba TigerTurf		Report Date:	9/22/2015	
	Union City, GA (855) 773-6688			Test Date: Initial Test ollow up Test	☑ □Ref Job:	
Commercial Name of product: Date of Manufacture: No. of samples submitted:	<u>Unknown</u>			Receipt Date: Temperature: Humidity:	23.1°C	
		Test Equi	pment:_			
	Triax System 4:	✓	Environmental (	Chamber No.:	N/A	
	Triax System 1:		Calibrati	on Due Date:	N/A	
	Accelerometer ID:	PLYP00144	Environmental (	Chamber No.:	N/A	
Accelerometer C	alibration Due Date:	3/11/2016	Calibrati	on Due Date:	N/A	
	Loose fill	Material Sa	mple Description:			
Engineered Wood Fiber:		U	n-compacted Depth:	<u>Unknown</u>	Inches	
Loose Fill Wood						
Rubber:						
Sand:			Compacted Depth:	4	Inches	
Aggregate:	abla					
Other:						
	<u>Tu</u>	ırf Sample D	escription:			
Diamor	nd Light Fescue Turf	☑	Tota	l Thickness:	4.11in.	
	Poly Pad	☑		Top Layer:		
	Durafil Infill	$\checkmark$			60mm (2.36in.)	
Comments: 1.) Turf system received fully assemble 2.) System: 1.75in. pile Diamond Light I (unknown un-compacted depth). Total s	Fescue Turf, infilled w/ 2.0	lbs. per sq. ft. Durafi appoximately 8.11in	il infill, over 60mm (2.36in.) Poly <b>7 Ft.</b>	y Pad, overlayin	g 4in. compacted agg	regate
		**				
The results reported herein reflect the p to the described samples. Samples of s an accurate representation of the test re	surfacing materials that do	not closely match th	e described samples will perfor	m differently. T	reported. The results a he following data shee	are specific et provides
Sample in compliance with ASTM F	1292-13 at the temperate	ure and rating spe	cified? Yes	abla	No	
Signature:	they Fambria	Title: Proje	et Coordinator	Date:	9/22/15	
Reviewed by:	u Aldeb	Title: Pradi	ct Safety Engine	Date:	9/22/15	,

Client: <u>TigerSports Americas dba TigerTurf Americas</u>

Project No.:

72105807-12

Manufacturer: <u>TigerSports Americas dba TigerTurf Americas</u>

Test Date:

9/18/2015

8	Specified	Refe	rence Tempe	rature -6°C, (2	1.2°F)	Refer	ence Temper	ature 23°C, (7	73.4°F)	Reference Temperature 49°C, (120.2°F)			
Drop	Impact Height (Ft.)	G-Max	HIC	Velocity (fl/s)	Theoretical Drop Height (fl.)	G-Max	HIC	Velocity (fl/s)	Theoretical Drop Height (ft.)	G-Max	НІС	Velocity (ft/s)	Theoretica Drop Heigh (ft.)
1	7				0.000	89	418	21.3	7.053				0.000
2	7				0.000	101	494	21.4	7.119				0.000
3	7				0.000	104	515	21.4	7.119				0.000
Av	erage	0	0	THE PARTY OF THE		102.5	504.5			0	0		
Aeasured Sur	face Temperature	(-6°C)	Max. Ch	ange from refe (5°F)	rence + 5°C,	23°C	Max. Cha	inge from refe (5°F)	rence ± 3°C,	49°C	Max. Change from r -3°C, (-5°F)		
Sample	Condition:	DRY				D	RY		DRY				

		Refe	rence Tempe	rature -6°C, (2	1.2°F)	Refe	rence Tempe	rature 23°C, (7	73.4°F)	Reference Temperature 49°C, (120.2°F)			
Drop	One foot over (Ft.)	G-Max	HIC	Velocity (ft/s)	Theoretical Drop Height (ft.)	G-Max	НІС	Velocity (ft/s)	Theoretical Drop Height (ft.)	G-Max	НІС	Velocity (ft/s)	Theoretical Drop Heigh (ft.)
1					0.000				0.000				0.000
2					0.000				0.000				0.000
3					0.000				0.000				0.000
Av	rerage	0	0			0	0	A PROPERTY		0	0	Span (vi)	
feasured Surface Temperature °C		Max. Ch	ange from refe (5°F)	rence + 5°C,	°C	Max. Ch	ange from refe (5°F)	rence ± 3°C,	°C	Max.	Change from -3°C, (-5°F		
Sample	Condition:												

		Refe	rence Tempe	rature -6°C, (2	1.2°F)	Refe	rence Tempe	rature 23°C, (	73.4°F)	Reference Temperature 49°C, (120.2°F)				
Drop	One foot under (Ft.)	G-Max	HIC	Velocity (ft/s)	Theoretical Drop Height (fl.)	G-Max	HIC	Velocity (ft/s)	Theoretical Drop Height (ft.)	G-Max	HIC	Velocity (ft/s)	Theoretical Drop Heigh (ft.)	
1					0.000				0.000				0.000	
2					0.000				0.000				0.000	
3					0.000				0.000				0.000	
Ave	erage	0	0	THE STATE OF		0	0			0	0			
Measured Surface Temperature		°C	Max. Ch	ange from refe (5°F)	rence + 5°C,	°C	Max. Cha	ange from refe (5°F)	rence ± 3°C,	°C	Max.	Change from -3°C, (-5°F		
Sample	Condition:													



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