

## TÜV SÜD America Inc.

**Product Safety Services** 47523 Clipper Drive

Plymouth, MI 48170

Phone: 734.455.4841

## Surfacing Material Report - ASTM F1292-13

	Surracing IV	liateriai Kep	JORL - ASTIVI	1 1232-	13		
	TigerSports America	as dba TigerTurf		F	roject No.:	72105807-9	
Manufacturer:	<u>Americas</u> TigerSports America	as dba TigerTurf			eport Date:	SOUTH STATE OF THE	
Manufacturing Location:	<u>Americas</u> Union Citv. GA				Test Date:	9/21/15 and 9/22/	<u>/15</u>
	(855) 773-6688 Diamond Light Sprii Unknown		А		ceipt Date:	□Ref Job: 9/16/2015 22.0°C	
		Test Equ	ipment:				
	Triax System 4:	abla	Envi	ronmental Cha	amber No.:	PLYP00101	
	Triax System 1:			Calibration	Due Date:	6/22/2016	
	Accelerometer ID:	PLYP00144	Envi	ironmental Cha	amber No.:	PLYP00069	
Accelerometer Ca	alibration Due Date:	3/11/2016		Calibration	Due Date:	6/22/2016	
	Loose f	ill Material S	ample Desci	ription:			
**** * ****** * *****	Attourne		Un-compacted De	nth.	Unknown	Inches	
Engineered Wood Fiber:			On-compacted De	pui.	<u>Ommown</u>		
Loose Fill Wood							
Rubber:			Compacted De	nth:	4	Inches	
Sand:	<del></del>		Compacted De	pui.			
Aggregate:							
Other:						8.	
	]	<u>Furf Sample</u>	Description:				
Diamor	nd Light Spring Turf	☑			Thickness:		
	Poly Pad	abla			Top Layer:		
	Durafil Infill	abla		E	Base Layer:	30mm (1.18in.)	
Comments:  .) Turf system received fully assembled: .) System: 1.75in. pile Diamond Light Sunknown un-compacted depth). Total s	Spring Turf, infilled w/ 2.	.0lbs. per sq. ft. Dura of appoximately 6.93	JIII.	(1.18in.) Poly Pa	ad, overlayin	g 4in. compacted ag	jgregate
the results reported herein reflect the poor the described samples. Samples of some courate representation of the test re	urfacing materials that	do not closely match	i the described samp	oles will perform	mperature(s) differently. <sup>-</sup>	reported. The result Fhe following data sh	ts are specific neet provides
Sample in compliance with ASTM F	1292-13 at the temper	rature and rating s	pecified?	Yes	abla	No	
Signature:	the Formeria	Title: Pre	ject Coom	brator	Date:	9/22/15	
Reviewed by:	Stoles	Title: Psy	luct Safety	'Engmee	Date:	9/22/15	

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

Project No.:

72105807-9

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

Test Date:

9/21/15 and 9/22/15

	Specified	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	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)	Theoretical Drop Height (ft.)
1	5	126	557	18.0	5.037	111	454	18.0	5.037	134	624	18.1	5.093
2	5	140	645	18.0	5.037	140	631	18.1	5.093	145	681	18.1	5.093
3	5	158	756	18.1	5.093	134	605	18.1	5.093	161	778	18.1	5.093
Av	erage	149	700.5			137	618			153	729.5		
Measured Sur	d Surface Temperature (-6°C) Max. Change from reference + 5°C, (5°F)		rence + 5°C,	23°C	Max. Ch	ange from refe (5°F)	rence ± 3°C,	49°C	Max. Change from reference -3°C, (-5°F)				
Sample	Condition:	DRY		DRY			DRY						

		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 over (Ft.)	G-Max	HIC	Velocity (fl/s)	Theoretical Drop Height (ft.)	G-Max	HIC	Velocity (ft/s)	Theoretical Drop Height (fl.)	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	
Av	erage	0	0			0	0			0	0			
leasured Surface Temperature		°C	Max. Cha	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:													

		Refe	rence Tempe	rature -6°C, (2	1.2°F)	Refe	rence Tempe	rature 23°C, (7	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	НІС	Velocity (ft/s)	Theoretical Drop Height (fl.)	G-Max	HIC	Velocity (ft/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 Surface Temperature		°C	Max. Cha	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:												



America



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## Surfacing Material Report - ASTM F1292-13

	ouridoing i	naterial Rope	710 710 1111	02 10		
Client:	TigerSports Americ	as dba TigerTurf		Project No.:	72105807-11	
Manufacturer:	Americas TigerSports America	as dba TigerTurf		Report Date:	<u>9/22/2015</u>	
Manufacturing Location:	Americas Union City, GA			Test Date: Initial Test	9/21/15 and 9/22/15	1
Phone: Commercial Name of product: Date of Manufacture: No. of samples submitted:	Unknown			Follow up Test le Receipt Date: Air Temperature: Humidity:	□Ref Job: 9/16/2015 22.0°C	
		Test Equi	pment:_			
	Triax System 4:	abla	Environment	al Chamber No.:	PLYP00101	
	Triax System 1:		Calib	ration Due Date:	6/22/2016	
	Accelerometer ID:	PLYP00144	Environment	al Chamber No.:	PLYP00069	
Accelerometer C	alibration Due Date:	3/11/2016	Calib	ration Due Date:	6/22/2016	
	Looso f	ill Matorial Sa	mple Description	·		
	Loose I	ili Materiai Sa	ilipie Descriptioi	<u>ı.</u>		
Engineered Wood Fiber:		Uı	n-compacted Depth:	<u>Unknown</u>	Inches	
Loose Fill Wood						
Rubber:						
Sand:			Compacted Depth:	<u>4</u>	Inches	
Aggregate:						
Other:						
w .	7	Turf Sample D	escription:			
Diamo	nd Light Spring Turf	abla	Т	otal Thickness:	4,11in.	
	Poly Pad	abla		Top Layer:	1.75in.	
	Durafil Infill	$\square$			60mm (2.36in.)	
Comments:  .) Turf system received fully assemble:  .) System: 1.75in. pile Diamond Light sunknown un-compacted depth). Total sunknown un-compacted depth.	Spring Turf, infilled w/ 2.	Olbs. per sq. ft. Durafil of appoximately 8.11in	infill, over 60mm (2.36in.) F . <u>7 <b>Ft.</b></u>	oly Pad, overlaying	g 4in. compacted aggre	gate
the results reported herein reflect the p the described samples. Samples of s n accurate representation of the test re	urfacing materials that o	to not closely match th	e described samples will pe	rform differently. T	reported. The results a he following data sheet	re specific provides
ample in compliance with ASTM F	1292-13 at the temper	ature and rating spe	cified? Yes	abla	No	
Signature: June	thy Familia	Title: Project	t Coordinator	Date:	9/22/15	2
Reviewed by:	965	Title: Produc	I Safety Engl	neel Date:	9/22/15	

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

Project No.:

<u>72105807-11</u>

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

Test Date:

9/21/15 and 9/22/15

	Specified	Refe	rence Temper	rature -6°C, (2	1.2°F)	Refe	rence Temper	ature 23°C, (7	73.4°F)	Reference Temperature 49°C, (120.2°F)			
Drop	Impact Height (Ft.)	G-Max	HIC	Velocity (ft/s)	Theoretical Drop Height (fl.)	G-Max	HIC	Velocity (fl/s)	Theoretical Drop Height (ft.)	G-Max	HIC	Velocity (ft/s)	Theoretical Drop Heigh (ft.)
1	7	112	635	21.3	7.053	102	515	21.3	7.053	110	537	21.4	7.119
2	7	124	726	21.3	7.053	116	611	21.3	7.053	123	613	21.4	7.119
3	7	131	757	21.4	7.119	121	654	21.4	7.119	126	653	21.4	7.119
Av	erage	127.5	741.5	W 3 18	A STATE OF	118.5	632.5			124.5	633	ALEXA!	
Measured Sur	face Temperature	(-6°C) Max. Change from reference + 5°C, (5°F)		23°C	23°C Max. Change from reference ± 3°C, (5°F)		rence ± 3°C,	49°C Max. Change from reference (-3°C, (-5°F)					
Sample	Condition:	DRY		DRY				DRY					

		Refe	rence Tempe	rature -6°C, (2	21.2°F)	Refer	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 (fl/s)	Theoretical Drop Height (ft.)	G-Max	HIC	Velocity (ft/s)	Theoretical Drop Height (fl.)	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			0	0			0	0		
Measured Surface Temperature		°C	Max. Cha	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:												

		Refe	rence Tempe	rature -6°C, (2	21.2°F)	Refe	rence Tempe	rature 23°C, (7	73.4°F)	Refere	ence Temper	rature 49°C, (1	20.2°F)
Drop	One foot under (Ft.)	G-Max	НІС	Velocity (ft/s)	Theoretical Drop Height (ft.)	G-Max	НІС	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 Surface Temperature		°C	Max. Cha	ange from refe (5°F)	rence + 5°C,	°C	Max. Ch	ange from refe (5°F)	erence ± 3°C,	°C	Max.	Change from -3°C, (-5°F	
Sample	Condition:										7		

