

### TÜV SÜD America Inc.

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

Phone: 734.455.4841

## Surfacing Material Report - ASTM F1292-13

	Surfacing W	iateriai ive	JOIL - ASTIVI I 1232	-10		
	TigerSports America Americas	s dba TigerTurf		Project No.:	72105807-10	
Manufacturer:	TigerSports America Americas	s dba TigerTurf	· "	Report Date:	9/22/2015	
Manufacturing Location:	and the state of t			Test Date:		
Phone: Commercial Name of product: Date of Manufacture: No. of samples submitted:	<u>Unknown</u>			Receipt Date:	☐Ref Job: 9/16/2015 23.0°C	
		Test Equ	ıipment:			
	Triax System 4:	abla	Environmental C	hamber No.:	N/A	
	Triax System 1:		Calibratio	n Due Date:	N/A	
	Accelerometer ID:	PLYP00144	Environmental C	hamber No.:	N/A	
Accelerometer Ca	alibration Due Date:	3/11/2016	Calibratio	on Due Date:	N/A	
	Loose fil	II Material S	ample Description:			
Engineered Wood Fiber:	П		Un-compacted Depth:	<u>Unknown</u>	Inches	
Loose Fill Wood						
Rubber:			*			
Sand:			Compacted Depth:	4	Inches	
Aggregate:						
Other:						
	<u>T</u>	urf Sample	Description:			
Diamon	d Light Fescue Turf	☑	Total	Thickness:	2.93in.	
	Poly Pad	_ _		Top Layer:		
	Durafil Infill	abla			30mm (1.18in	.)
Comments:  .) Turf system received fully assembled .) System: 1.75in. pile Diamond Light F unknown un-compacted depth). Total sy	escue Turf, infilled w/ 2.0	Olbs. per sq. ft. Dur f appoximately 6.93	Bin.	Pad, overlayir	ng 4in. compacte	d aggregate
he results reported herein reflect the po the described samples. Samples of so n accurate representation of the test re	urfacing materials that do	not closely match	the described samples will perforr	n differently. T	reported. The re he following dat	sults are specific a sheet provides
ample in compliance with ASTM F1	292-13 at the tempera	ture and rating s	pecified? Yes	$\Box$	No	
Signature:	ty Familia	Title: Preje	et Coordinator	Date:	9/22/15	
Reviewed by:	Sol	Title:	et Coordinator uoi Salety Enginee	C Date:	9/22/1	5

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

	Specified	Refe	rence Tempe	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 (ft/s)	Theoretical Drop Height (ft.)	G-Max	НІС	Velocity (ft/s)	Theoretica Drop Heigl (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
A۱	rerage	0	0			140	640.5		BEIFERSAL	0	0		
Measured Sur	face Temperature	(-6°C)	Max. Ch	ange from refe (5°F)	rence + 5°C,	23°C	Max. Cha	nge from refe (5°F)	rence ± 3°C,	49°C	Max. Change from r -3°C, (-5°F)		
Sample	Condition:	DRY			Б	RY		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 (ft/s)	Theoretical Drop Height (fl.)	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	
Ave	erage	0	0			0	0			0	0			
Measured 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 (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	rerage	0	0			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:												



America



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#### **Product Safety Services**

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Phone: 734.455.4841

# Surfacing Material Report - ASTM F1292-13

Client:	TigerSports America	s dba TigerTurf		Project No.: 7	<u> 2105807-12</u>	
Manufacturer:	Americas TigerSports America	s dba TigerTurf		Report Date: 9	0/22/2015	
Manufacturing Location:	Americas			Test Date: 9	0/18/2015	
Phone: Commercial Name of product: Date of Manufacture: No. of samples submitted:	Unknown			Initial Test [ Follow up Test [ e Receipt Date: 9 ir Temperature: 2 Humidity: 3	⊒Ref Job: 0/16/2015 23.1°C	
		Test Equi	ipment:			
	Triax System 4:	✓		l Chamber No.:	N/A	
Y Y	Triax System 1:		Calibr	ation Due Date:	N/A	
	Accelerometer ID:	PLYP00144	Environmenta	l Chamber No.:	N/A	
Accelerometer C	alibration Due Date:	3/11/2016	Calibr	ation Due Date:	N/A	
	Loose fil	l Material Sa	ample Description	<u>:</u>		
Engineered Wood Fiber:		ι	Jn-compacted Depth:	<u>Unknown</u> Ir	nches	
Loose Fill Wood						
Rubber:						
Sand:	_		Compacted Depth:	<u>4</u> Ir	nches	
Aggregate:	$   \overline{\mathbf{Z}} $					
Other:					v	
	To	urf Sample I	Description:			
Diamor	nd Light Fescue Turf	V		otal Thickness: <sub>4</sub>	111in	
	Poly Pad	☑		Top Layer: 1	75in	
	Durafil Infill	☑		Base Layer: 6		
Comments:		_		-		
Turf system received fully assemble     System: 1.75in. pile Diamond Light     (unknown un-compacted depth). Total	Fescue Turf, infilled w/ 2.0 system depth/thickness of	Olbs. per sq. ft. Dura appoximately 8.11i	n.	oly Pad, overlaying	4in. compacted a	ggregate
The above of	lescribed sample	was tested at	<u>: 7 Ft.</u>			
The results reported herein reflect the p to the described samples. Samples of s an accurate representation of the test r	surfacing materials that do	not closely match t	he described samples will per	form differently. The	eported. The result e following data sh	s are specific eet provides
Sample in compliance with ASTM F	1292-13 at the temperat	ture and rating sp	ecified? Yes	$\Box$	No	
Signature:	they Fambia	Title: Proje	est Coordinator	Date:	9/22/15	<u></u>
Reviewed by:	m Albert	Title: Prad	uct Safety Engin	MBEC Date:	1/22/15	

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)	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 (fl/s)	Theoretical Drop Height (ft.)	G-Max	HIC	Velocity (fl/s)	Theoretical Drop Height (ft.)	G-Max	НІС	Velocity (ft/s)	Theoretical Drop Height (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 state of the		102.5	504.5	ZEIAHA W		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 fron -3°C, (-5°			
Sample	Condition: DRY					E	RY		DRY					

		Refe	rence Tempe	rature -6°C, (2	21.2°F)	Refe	rence Tempe	rature 23°C, (	73.4°F)	Refere	nce Temper	ature 49°C, (1	20.2°F)
Drop	One foot over (Ft.)	G-Max	HIC	Velocity (fl/s)	Theoretical Drop Height (ft.)	G-Max	НІС	Velocity (ft/s)	Theoretical Drop Height (ft.)	G-Max	НІС	Velocity (ft/s)	Theoretical Drop Height (fl.)
1					0.000				0.000				0.000
2					0.000	3			0.000				0.000
3					0.000				0.000				0.000
Av	rerage	0	0			0	0			0	0	Spin (w)	
Measured Sur	Measured Surface Temperature		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°I	
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	НІС	Velocity (ft/s)	Theoretical Drop Height (ft.)	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
A۱	/erage	0	0			0	0			0	0		
Measured Sur	Measured Surface Temperature		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:												



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