

TÜV SÜD America Inc.

Product Safety Services

47523 Clipper Drive Plymouth, MI 48170

Phone: 734.455.4841

Surfacing N	lateriai Rep	ort – ASTW F1292-13			
Client: TigerSports America Americas	s dba TigerTurf	Proj	ect No.:	<u>72105807-5</u>	
Manufacturer: Americas Manufacturer: Americas	s dba TigerTurf	Repo	rt Date:	9/22/2015	
Manufacturing Location: Union City, GA				9/18/15 and 9/21/1	<u>15</u>
Phone: (855) 773-6688 Commercial Name of product: Diamond Pro Spring Date of Manufacture: Unknown No. of samples submitted: 3 - 18in. X 18in. Turf		Follow Sample Recei _l Ambient Air Temp	pt Date:	☐Ref Job: 9/16/2015 23.1°C	
	Test Equ	ipment:			
Triax System 4:	\square	Environmental Chamb	oer No.:	PLYP00101	
Triax System 1:		Calibration Du	ıe Date:	6/22/2016	
Accelerometer ID:	PLYP00144	Environmental Chamb	per No.:	PLYP00069	
Accelerometer Calibration Due Date:	3/11/2016	Calibration Du	ie Date:	622/2016	
Loose fi	II Material S	ample Description:			
Engineered Wood Fiber: □		Un-compacted Depth: <u>Un</u>	known	Inches	
Loose Fill Wood					
Rubber:					
Sand: □		Compacted Depth:	<u>4</u>	Inches	
 Aggregate: ☑					
Other:			5		
<u> </u>	urf Sample	Description:			
Diamond Pro Spring Turf	abla	Total Thio	:kness:	3.055in.	
Poly Pad	abla			1.875in.	
Durafil Infill	☑			30mm (1.18in.)	
Comments: 1.) Turf system received fully assembled in wooden boxes from 2.) System: 1.875in. pile Diamond Pro Spring Turf, infilled w/ 2.0 (unknown un-compacted depth). Total system depth/thickness of The above described sample	Olbs. per sq. ft. Dura of appoximately 7.05	55in.	overlayinç	g 4in. compacted agg	regate
	10 100 10 10			and The second	are are alfi-
The results reported herein reflect the performance of the above to the described samples. Samples of surfacing materials that dan accurate representation of the test results. Compliance with	o not closely match	the described samples will perform diffe	rature(s) erently. T	reported. The results he following data she	are specific et provides
Sample in compliance with ASTM F1292-13 at the tempera	ature and rating s	pecified? Yes		No	
Signature: Simptly Familia	Title: Proj	rect Constinator	Date:	9/refis	-
Reviewed by:	Title: Plad	ut Solety Enginer	Date:	9/22/15	-

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

Project No.:

72105807-5

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

Test Date:

9/18/15 and 9/21/15

	Specified _ Impact Height (Ft.)	Refe	rence Tempe	rature -6°C, (2	21.2°F)	Refe	rence Tempe	rature 23°C, (73.4°F)	Reference Temperature 49°C, (120.2°F)				
Drop		G-Max	НІС	Velocity (ft/s)	Theoretical Drop Height (ft.)	G-Max	НІС	Velocity (ft/s)	Theoretical Drop Height (ft.)	G-Max	HIC	Velocity (ft/s)	Theoretical Drop Height (ft.)	
1	5	115	492	17.9	4.981	127	572	18.0	5.037	159	736	18.0	5.037	
2	5	131	602	17.9	4.981	128	581	18.1	5.093	175	878	18.0	5.037	
3	5	136	618	17.9	4.981	139	637	18.1	5.093	198	1053	18.1	5.093	
Av	erage	133.5	610			133.5	609			186.5	965.5		CHARLES THE STREET	
Measured Suri	face Temperature	(-6°C)	Max. Cha	ange from refe (5°F)	rence + 5°C,	23°C	Max. Ch	ange from refe (5°F)	rence ± 3°C,	49°C	9°C Max. Change fi -3°C, (
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	НІС	Velocity (fl/s)	Theoretical Drop Height (fl.)	G-Max	HIC	Velocity (fl/s)	Theoretical Drop Height (fl.)	G-Max	HIC	Velocity (ft/s)	Theoretical Drop Height (ft.)
1			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 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	One foot under (Ft.)	G-Max	HIC	Velocity (ft/s)	Theoretical Drop Height (ft.)	G-Max	HIC	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
Ave	erage	0	0		Rest Divertibut	0	0			0	0		
Measured Surface Temperature		°C	Max. Cha	inge from refe (5°F)	rence + 5°C,	°C	Max. Cha	inge from refe (5°F)	rence ± 3°C,	°C	Max.	Change from -3°C, (-5°F	
Sample	Condition:												





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Surfacing Material Report - ASTM F1292-13

	Surfacility ivi	ateriai Nep	OIL - ASTWI I 129		
Client:	TigerSports Americas Americas	dba TigerTurf		Project No.:	72105807-7
Manufacturer:	TigerSports Americas Americas	dba TigerTurf		Report Date:	9/22/2015
Manufacturing Location:				Test Date: Initial Test	<u>9/18/15</u> and <u>9/21/15</u> ✓
Phone: Commercial Name of product: Date of Manufacture: No. of samples submitted:	<u>Unknown</u>		Sample	Follow up Test Receipt Date: Temperature: Humidity:	□Ref Job: 9/16/2015 23.1°C
		Test Equi	pment:		
	Triax System 4:	\square	Environmental	Chamber No.:	PLYP00101
	Triax System 1:		Calibra	tion Due Date:	6/22/2016
	Accelerometer ID:	PLYP00144	Environmental	Chamber No.:	PLYP00069
Accelerometer C	alibration Due Date:	3/11/2016	Calibra	tion Due Date:	6/22/2016
a a	Loose fil	l Material Sa	mple Description:		
Engineered Wood Fiber:		U	n-compacted Depth:	<u>Unknown</u>	Inches
Loose Fill Wood					
Rubber:					
Sand:			Compacted Depth:	<u>4</u>	Inches
Aggregate:	$ \overline{\square} $				
Other:					
	<u>Tu</u>	ırf Sample D	Description:		
Diam	ond Pro Spring Turf	☑	Tot	al Thickness:	4.235in.
	Poly Pad	$ \overline{\square} $		Top Layer:	
	Durafil Infill	<u></u>		Base Layer:	60mm (2.36in.)
Comments: 1.) Turf system received fully assembled 2.) System: 1.875in. pile Diamond Pro S (unknown un-compacted depth). Total s	Spring Turf, infilled w/ 2.0lb system depth/thickness of	os. per sq. ft. Durafil appoximately 8.235	in.	/ Pad, overlayinç	g 4in. compacted aggregate
The above d	escribed sample v	vas 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 re	urfacing materials that do	not closely match th	ne described samples will perfo	orm differently. T	reported. The results are specific he following data sheet provides
Sample in compliance with ASTM F	1292-13 at the temperat	ure and rating spe	ecified? Yes	abla	No . 🗖
Signature:	ty Fourtie	Title: Proje	at Coordinator	Date:	9/22/15
Reviewed by:	leb	Title: P180 W	a Safety Engine	Date:	9/22/15

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

Project No.:

<u>72105807-7</u>

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

Test Date:

9/18/15 and 9/21/15

	Specified	Refe	rence Temper	rature -6°C, (2	21.2°F)	Refe	rence Tempe	rature 23°C, (73.4°F)	Reference Temperature 49°C, (120.2°F)				
Drop	Impact Height (Ft.)	G-Max	НІС	Velocity (ft/s)	Theoretical Drop Height (ft.)	G-Max	HIC	Velocity (ft/s)	Theoretical Drop Height (ft.)	G-Max	HIC	Velocity (ft/s)	Theoretical Drop Heigh (ft.)	
1	7	115	662	21.3	7.053	107	582	21.3	7.053	97	465	21.3	7.053	
2	7	126	727	21.3	7.053	113	618	21.4	7.119	103	500	21.3	7.053	
3	7	128	742	21.3	7.053	117	628	21.4	7.119	106	535	21.3	7.053	
Av	rerage	127	734.5	BALL BURN		115	623	A PROPERTY.		104.5	517.5			
Measured Sur	face Temperature	(-6°C)	Max. Cha	inge from refe (5°F)	rence + 5°C,	23°C	Max. Cha	ange from refe (5°F)	rence ± 3°C,	10°C		Change from -3°C, (-5°F		
Sample	Condition:	DRY			DRY			DRY						

		Refe	rence Tempe	rature -6°C, (2	1.2°F)	Refe	Reference Temperature 23°C, (73.4°F)				Reference Temperature 49°C, (120.2°F)			
Drop	One foot over (Ft.)	G-Max	НІС	Velocity (ft/s)	Theoretical Drop Height (ft.)	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	
Av	erage	0	0	38 JONES		0	0			0	0	all special services	THE RESERVE	
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:													

		Reference Temperature -6°C, (21.2°F)					rence Tempe	rature 23°C, (3.4°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 (ft.)	G-Max	НІС	Velocity (ft/s)	Theoretical Drop Height (ft.)	G-Max	НІС	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	verage	0	0			0	0			0	0	1002 Miles	
Measured Sur	rface Temperature	°C	Max. Ch	ange from refe (5°F)	rence + 5°C,	°C	Max. Cha	ange from refe (5°F)	rence ± 3°C,	90		Change from -3°C, (-5°F	
Sample	Condition:												



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