



**TÜV SÜD America Inc.**  
**Product Safety Services**  
47523 Clipper Drive  
Plymouth, MI 48170  
Phone: 734.455.4841

## Surfacing Material Report – ASTM F1292-13

Client: TigerSports Americas dba TigerTurf  
Americas  
Manufacturer: TigerSports Americas dba TigerTurf  
Americas  
Manufacturing Location: Union City, GA  
Phone: (855) 773-6688  
Commercial Name of product: Diamond Light Spring - 30mm  
Date of Manufacture: Unknown  
No. of samples submitted: 3 - 18in. X 18in. Turf Systems

Project No.: 72105807-9  
Report Date: 9/22/2015  
Test Date: 9/21/15 and 9/22/15  
Initial Test ☒  
Follow up Test ☐ Ref Job:  
Sample Receipt Date: 9/16/2015  
Ambient Air Temperature: 22.0°C  
Humidity: 38.0%

### Test Equipment:

Triax System 4: ☒ Environmental Chamber No.: PLYP00101  
Triax System 1: ☐ Calibration Due Date: 6/22/2016  
Accelerometer ID: PLYP00144 Environmental Chamber No.: PLYP00069  
Accelerometer Calibration Due Date: 3/11/2016 Calibration Due Date: 6/22/2016

### Loose fill Material Sample Description:

Engineered Wood Fiber: ☐ Un-compacted Depth: Unknown Inches  
Loose Fill Wood: ☐  
Rubber: ☐  
Sand: ☐ Compacted Depth: 4 Inches  
Aggregate: ☒  
Other: ☐

### Turf Sample Description:

Diamond Light Spring Turf ☒ Total Thickness: 2.93in.  
Poly Pad ☒ Top Layer: 1.75in.  
Durafil Infill ☒ Base Layer: 30mm (1.18in.)

### Comments:

- 1.) Turf system received fully assembled in wooden boxes from Client.
- 2.) System: 1.75in. pile Diamond Light Spring Turf, infilled w/ 2.0lbs. per sq. ft. Durafil infill, over 30mm (1.18in.) Poly Pad, overlaying 4in. compacted aggregate (unknown un-compacted depth). Total system depth/thickness of approximately 6.93in.

The above described sample was tested at : 5 Ft.

The results reported herein reflect the performance of the above described samples at the time of testing and at the temperature(s) reported. The results are specific to the described samples. Samples of surfacing materials that do not closely match the described samples will perform differently. The following data sheet provides an accurate representation of the test results. Compliance with this Standard does not constitute product certification.

Sample in compliance with ASTM F1292-13 at the temperature and rating specified? Yes ☒ No ☐

Signature: Timothy Franklin Title: Project Coordinator Date: 9/22/15

Reviewed by: Jim Gotsch Title: Product Safety Engineer Date: 9/22/15

Client: **TigerSports Americas dba TigerTurf Americas**Project No.: **72105807-9**Manufacturer: **TigerSports Americas dba TigerTurf Americas**Test Date: **9/21/15 and 9/22/15**

Drop	Specified Impact Height (Ft.)	Reference Temperature -6°C, (21.2°F)				Reference Temperature 23°C, (73.4°F)				Reference Temperature 49°C, (120.2°F)			
		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	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
Average		149	700.5			137	618			153	729.5		
Measured Surface Temperature		(-6°C)	Max. Change from reference + 5°C, (5°F)			23°C	Max. Change from reference ± 3°C, (5°F)			49°C	Max. Change from reference -3°C, (-5°F)		
Sample Condition:		DRY				DRY				DRY			

Drop	One foot over (Ft.)	Reference Temperature -6°C, (21.2°F)				Reference Temperature 23°C, (73.4°F)				Reference Temperature 49°C, (120.2°F)			
		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
Average		0	0			0	0			0	0		
Measured Surface Temperature		°C	Max. Change from reference + 5°C, (5°F)			°C	Max. Change from reference ± 3°C, (5°F)			°C	Max. Change from reference -3°C, (-5°F)		
Sample Condition:													

Drop	One foot under (Ft.)	Reference Temperature -6°C, (21.2°F)				Reference Temperature 23°C, (73.4°F)				Reference Temperature 49°C, (120.2°F)			
		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
Average		0	0			0	0			0	0		
Measured Surface Temperature		°C	Max. Change from reference + 5°C, (5°F)			°C	Max. Change from reference ± 3°C, (5°F)			°C	Max. Change from reference -3°C, (-5°F)		
Sample Condition:													



America



**TÜV SÜD America Inc.****Product Safety Services**

47523 Clipper Drive

Plymouth, MI 48170

Phone: 734.455.4841

**Surfacing Material Report – ASTM F1292-13**Client: TigerSports Americas dba TigerTurf  
AmericasProject No.: 72105807-11Manufacturer: TigerSports Americas dba TigerTurf  
AmericasReport Date: 9/22/2015Manufacturing Location: Union City, GATest Date: 9/21/15 and 9/22/15Phone: (855) 773-6688Initial Test ☒Follow up Test ☐ Ref Job:Commercial Name of product: Diamond Light Spring - 60mmSample Receipt Date: 9/16/2015Date of Manufacture: UnknownAmbient Air Temperature: 22.0°CNo. of samples submitted: 3 - 18in. X 18in. Turf SystemsHumidity: 38.0%**Test Equipment:**Triax System 4: ☒Environmental Chamber No.: PLYP00101Triax System 1: ☐Calibration Due Date: 6/22/2016Accelerometer ID: PLYP00144Environmental Chamber No.: PLYP00069Accelerometer Calibration Due Date: 3/11/2016Calibration Due Date: 6/22/2016**Loose fill Material Sample Description:**Engineered Wood Fiber: ☐Un-compacted Depth: Unknown InchesLoose Fill Wood: ☐Rubber: ☐Sand: ☐Compacted Depth: 4 InchesAggregate: ☒Other: ☐**Turf Sample Description:**Diamond Light Spring Turf ☒Total Thickness: 4.11in.Poly Pad ☒Top Layer: 1.75in.Durafil Infill ☒Base Layer: 60mm (2.36in.)**Comments:**

1.) Turf system received fully assembled in wooden boxes from Client.

2.) System: 1.75in. pile Diamond Light Spring Turf, infilled w/ 2.0lbs. per sq. ft. Durafil infill, over 60mm (2.36in.) Poly Pad, overlaying 4in. compacted aggregate (unknown un-compacted depth). Total system depth/thickness of approximately 8.11in.

**The above described sample was tested at : 7 Ft.**

The results reported herein reflect the performance of the above described samples at the time of testing and at the temperature(s) reported. The results are specific to the described samples. Samples of surfacing materials that do not closely match the described samples will perform differently. The following data sheet provides an accurate representation of the test results. Compliance with this Standard does not constitute product certification.

Sample in compliance with ASTM F1292-13 at the temperature and rating specified?

Yes



No

Signature: Timothy FranklinTitle: Project CoordinatorDate: 9/22/15Reviewed by: [Signature]Title: Product Safety EngineerDate: 9/22/15

Client: TigerSports Americas dba TigerTurf AmericasProject No.: 72105807-11Manufacturer: TigerSports Americas dba TigerTurf AmericasTest Date: 9/21/15 and 9/22/15

Drop	Specified Impact Height (ft.)	Reference Temperature -6°C, (21.2°F)				Reference Temperature 23°C, (73.4°F)				Reference Temperature 49°C, (120.2°F)			
		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	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
Average		127.5	741.5			118.5	632.5			124.5	633		
Measured Surface Temperature		(-6°C)	Max. Change from reference + 5°C, (5°F)			23°C	Max. Change from reference ± 3°C, (5°F)			49°C	Max. Change from reference -3°C, (-5°F)		
Sample Condition:		DRY				DRY				DRY			

Drop	One foot over (Ft.)	Reference Temperature -6°C, (21.2°F)				Reference Temperature 23°C, (73.4°F)				Reference Temperature 49°C, (120.2°F)			
		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
Average		0	0			0	0			0	0		
Measured Surface Temperature		°C	Max. Change from reference + 5°C, (5°F)			°C	Max. Change from reference ± 3°C, (5°F)			°C	Max. Change from reference -3°C, (-5°F)		
Sample Condition:													

Drop	One foot under (Ft.)	Reference Temperature -6°C, (21.2°F)				Reference Temperature 23°C, (73.4°F)				Reference Temperature 49°C, (120.2°F)				
		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	
Average		0	0			0	0			0	0			
Measured Surface Temperature		°C	Max. Change from reference + 5°C, (5°F)				°C	Max. Change from reference ± 3°C, (5°F)				°C	Max. Change from reference -3°C, (-5°F)	
Sample Condition:														



America