



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

Project No.: 72105807-10

Manufacturer: TigerSports Americas dba TigerTurf Americas

Report Date: 9/22/2015

Manufacturing Location: Union City, GA

Test Date: 9/18/2015

Initial Test

Phone: (855) 773-6688

Follow up Test  Ref Job:

Commercial Name of product: Diamond Light Fescue - 30mm

Sample Receipt Date: 9/16/2015

Date of Manufacture: Unknown

Ambient Air Temperature: 23.0°C

No. of samples submitted: 1 - 18in. X 18in. Turf System

Humidity: 33.0%

#### Test Equipment:

Triax System 4:

Environmental Chamber No.: N/A

Triax System 1:

Calibration Due Date: N/A

Accelerometer ID: PLYP00144

Environmental Chamber No.: N/A

Accelerometer Calibration Due Date: 3/11/2016

Calibration Due Date: N/A

#### 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 Fescue 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 Fescue 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: [Signature]

Title: Product Safety Engineer

Date: 9/22/15

Client: TigerSports Americas dba TigerTurf Americas

Project No.: 72105807-10

Manufacturer: TigerSports Americas dba TigerTurf Americas

Test Date: 9/18/2015

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				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	
Average		0	0			140	640.5			0	0			
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:														



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**Surfacing Material Report – ASTM F1292-13**

Client: TigerSports Americas dba TigerTurf Americas

Project No.: 72105807-12

Manufacturer: TigerSports Americas dba TigerTurf Americas

Report Date: 9/22/2015

Manufacturing Location: Union City, GA

Test Date: 9/18/2015

Initial Test

Phone: (855) 773-6688

Follow up Test  Ref Job:

Commercial Name of product: Diamond Light Fescue - 60mm

Sample Receipt Date: 9/16/2015

Date of Manufacture: Unknown

Ambient Air Temperature: 23.1°C

No. of samples submitted: 1 - 18in. X 18in. Turf System

Humidity: 33.0%

**Test Equipment:**

Triax System 4:

Environmental Chamber No.: N/A

Triax System 1:

Calibration Due Date: N/A

Accelerometer ID: PLYP00144

Environmental Chamber No.: N/A

Accelerometer Calibration Due Date: 3/11/2016

Calibration Due Date: N/A

**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 Fescue 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 Fescue 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 appoximately 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 Franklin Title: Project Coordinator Date: 9/22/15

Reviewed by: [Signature] Title: Product Safety Engineer Date: 9/22/15

Client: TigerSports Americas dba TigerTurf Americas

Project No.: 72105807-12

Manufacturer: TigerSports Americas dba TigerTurf Americas

Test Date: 9/18/2015

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				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	
Average		0	0			102.5	504.5			0	0			
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:														



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