



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 Pro Fescue - 30mm
Date of Manufacture: Unknown
No. of samples submitted: 1 - 18in. X 18in. Turf System

Project No.: 72105807-6
Report Date: 9/22/2015
Test Date: 9/18/2015
Initial Test ☒
Follow up Test ☐ Ref Job:
Sample Receipt Date: 9/16/2015
Ambient Air Temperature: 23.1°C
Humidity: 33.0%

Test Equipment:

Triax System 4:	<input checked="" type="checkbox"/>	Environmental Chamber No.:	N/A
Triax System 1:	<input type="checkbox"/>	Calibration Due Date:	N/A
Accelerometer ID:	<u>PLYP00144</u>	Environmental Chamber No.:	N/A
Accelerometer Calibration Due Date:	<u>3/11/2016</u>	Calibration Due Date:	N/A

Loose fill Material Sample Description:

Engineered Wood Fiber:	<input type="checkbox"/>	Un-compacted Depth:	<u>Unknown</u> Inches
Loose Fill Wood:	<input type="checkbox"/>		
Rubber:	<input type="checkbox"/>		
Sand:	<input type="checkbox"/>	Compacted Depth:	<u>4</u> Inches
Aggregate:	<input checked="" type="checkbox"/>		
Other:	<input type="checkbox"/>		

Turf Sample Description:

Diamond Pro Fescue Turf	<input checked="" type="checkbox"/>	Total Thickness:	<u>3.055in.</u>
Poly Pad	<input checked="" type="checkbox"/>	Top Layer:	<u>1.875in.</u>
Durafil Infill	<input checked="" type="checkbox"/>	Base Layer:	<u>30mm (1.18in.)</u>

Comments:

- 1.) Turf system received fully assembled in wooden boxes from Client.
- 2.) System: 1.875in. pile Diamond Pro 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 7.055in.

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 AmericasProject No.: 72105807-6Manufacturer: TigerSports Americas dba TigerTurf AmericasTest 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	125	550	18.0	5.037				0.000
2	5				0.000	151	734	18.0	5.037				0.000
3	5				0.000	134	601	18.0	5.037				0.000
Average		0	0			142.5	667.5			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:													



America



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Surfacing Material Report – ASTM F1292-13

Client: TigerSports Americas dba TigerTurf Americas Project No.: 72105807-8
Manufacturer: TigerSports Americas dba TigerTurf Americas Report Date: 9/22/2015
Manufacturing Location: Union City, GA Test Date: 9/18/2015
Phone: (855) 773-6688 Initial Test ☒
Commercial Name of product: Diamond Pro Fescue - 60mm Follow up Test ☐ Ref Job:
Date of Manufacture: Unknown Sample Receipt Date: 9/16/2015
No. of samples submitted: 1 - 18in. X 18in. Turf System Ambient Air Temperature: 23.1°C
Humidity: 33.0%

Test Equipment:

Triax System 4:	<input checked="" type="checkbox"/>	Environmental Chamber No.:	N/A
Triax System 1:	<input type="checkbox"/>	Calibration Due Date:	N/A
Accelerometer ID:	<u>PLYP00144</u>	Environmental Chamber No.:	N/A
Accelerometer Calibration Due Date:	<u>3/11/2016</u>	Calibration Due Date:	N/A

Loose fill Material Sample Description:

Engineered Wood Fiber:	<input type="checkbox"/>	Un-compacted Depth:	<u>Unknown</u> Inches
Loose Fill Wood:	<input type="checkbox"/>		
Rubber:	<input type="checkbox"/>		
Sand:	<input type="checkbox"/>	Compacted Depth:	<u>4</u> Inches
Aggregate:	<input checked="" type="checkbox"/>		
Other:	<input type="checkbox"/>		

Turf Sample Description:

Diamond Pro Fescue Turf	<input checked="" type="checkbox"/>	Total Thickness:	<u>4.235in.</u>
Poly Pad	<input checked="" type="checkbox"/>	Top Layer:	<u>1.875in.</u>
Durafil Infill	<input checked="" type="checkbox"/>	Base Layer:	<u>60mm (2.36in.)</u>

Comments:

- 1.) Turf system received fully assembled in wooden boxes from Client.
- 2.) System: 1.875in. pile Diamond Pro 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 approximately 8.235in.

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 AmericasProject No.: 72105807-8Manufacturer: TigerSports Americas dba TigerTurf AmericasTest 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	101	524	21.3	7.053				0.000
2	7				0.000	110	591	21.3	7.053				0.000
3	7				0.000	107	567	21.3	7.053				0.000
Average		0	0			108.5	579			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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