



## Diamond Pro Fescue

A 1.875 inch pile, polyethylene monofilament with thatch construction. Designed specifically for landscape application to enhance recovery.

Recommended Use: Moderate to Heavy Traffic

Main Application: Landscape

Colors: Field Green/Olive Green

### LEAD FREE PRODUCTS:

- All of our products undergo rigorous stringent testing to ensure safety and non-toxicity.
- Our products contain no detectable traces of lead or other RCRA hazardous waste heavy metals.



## Main Advantage

- Designed to truly replicate grass
- A 1.875 inch blade height helps to achieve a natural appearance
- Uniquely formulated polyurethane coated backing provides greater seam strength and durability
- Not water soluble
- Heat and frost resistant
- UV stabilized
- No harmful environmental effects
- Non-flammable, ant-acid yarn resistant to chemical attack

LEAD  
FREE  
PRODUCT

## Yarn Characteristics

Type: Monofilament PE with Thatch  
 Composition/Structure: Polyethylene  
 Denier: 10,800/5,000  
 Colors: Field Green/Olive Green

## Manufactured Rolls

Width: 15 feet  
 Length: 100 feet  
 Shipping Weight: 1209 pounds\*  
 Roll Diameter: 24 inches  
 Total Product Weight: Approximately 116 ounces per square yard

## Additional Info

Recommended Maintenance:  
 Rinse and groom as needed to limit matting

Drainage Rate:  
 30+ inches of rain per hour per square yard

\*Approximate Weight

## Turf Characteristics

Pile/Face Weight: 80 ounces\*  
 Pile Height: 1.875 inches  
 Machine Gauge: 3/8 inch  
 Thatch Color: Brown

## Particulate Infill

Type: Quality Infill  
 Weight: 1.5-2.5 pounds per square foot\*  
 Height: Approximately .5 inch to .75 inch  
 Colors: Green, Black or Natural

**For IPEMA Certification, infill must be 2 pounds of Durafill per square foot.**

## Backing Characteristics

Primary Backing 1  
 Composition/Structure: K29 Dual Layered Non-Expansive Backing  
 Weight: 7.3 ounces per square yard\*  
 Finish Coating: Polyurethane 20 ounces per square yard\*

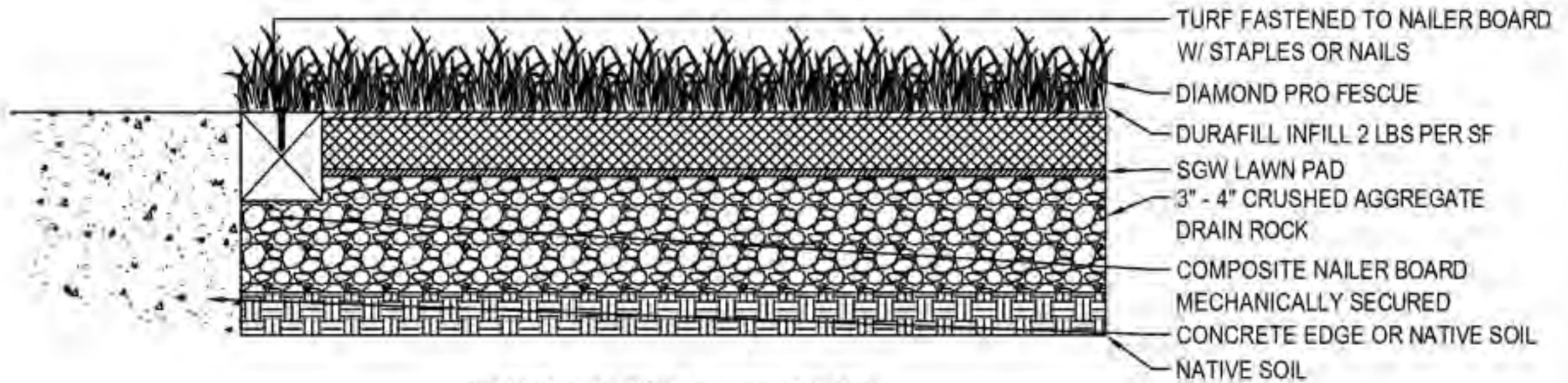


To verify product certification, visit [www.ipema.org](http://www.ipema.org)

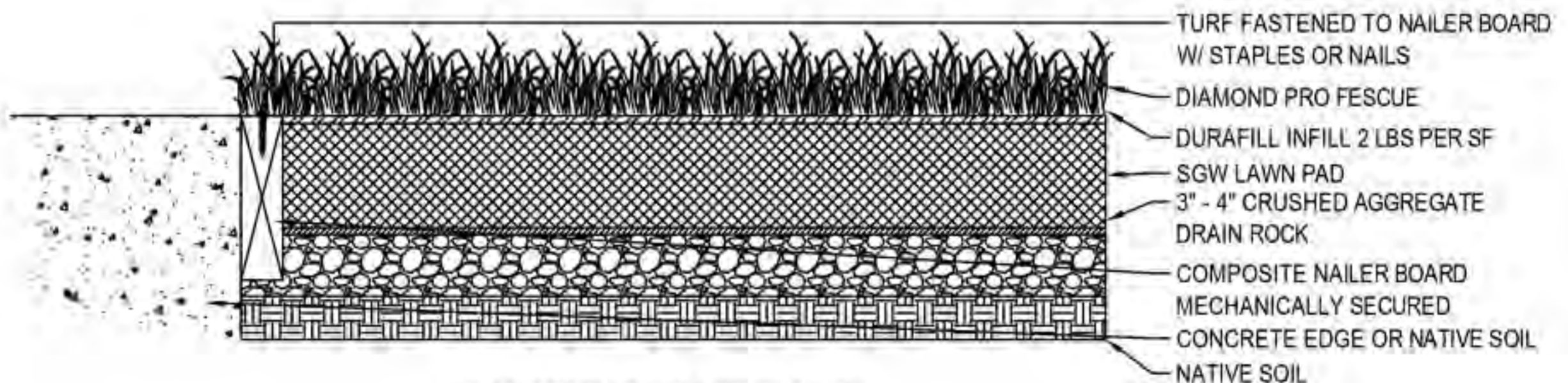
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PLAYGROUND INSTALL WITH 1 1/8" PAD



PLAYGROUND INSTALL WITH 2 1/8" PAD

**SPECIFICATIONS:**

**BRAND:** TIGER TURF

**MODEL:** DIAMOND PRO FESCUE

**RECOMMENDED USE:** PLAYGROUND

**YARN COLORS:** FIELD GREEN / OLIVE GREEN, BROWN THATCH

**YARN TYPE:** MONOFILAMENT

**YARN COMPOSITION:** PE WITH THATCH

**THATCH COLOR:** BROWN

**YARN DENIER:** 10800 / 5000

**FACE WEIGHT:** 80 OZ/YD

**TOTAL WEIGHT:** 116 OZ/YD

**PILE HEIGHT:** 1 7/8"

**GAUGE:** 3/8"

**ROLL WIDTH:** 15'

**ROLL LENGTH:** 100'

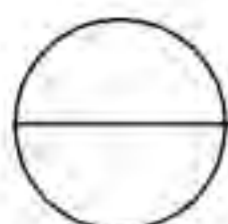
**ROLL WEIGHT:** 1209 LB

**RECOMMENDED INFILL:** 2 LBS/S.F. DURAFILL

**WEIGHT/SQ.FT:** 0.81 LB

**NOTES:**

1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
2. DO NOT SCALE DRAWING.
3. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, CONTRACTORS, CONSULTANTS AND DESIGN PROFESSIONALS FOR PLANNING PURPOSES ONLY. THIS DRAWING MAY NOT BE USED FOR CONSTRUCTION.
4. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.
5. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION VISIT [www.CADdetails.com/info](http://www.CADdetails.com/info) AND ENTER REFERENCE NUMBER 5028-018.



SYNTHETIC GRASS WAREHOUSE

DIAMOND PRO FESCUE PLAYGROUND CROSS SECTION





## Surface Install Instructions

Surface shall meet the requirements of ASTM F1292

- Peak deceleration of no more than 200 g's
- Head Impact Criteria (HIC) of no more than 1000 for a headfirst fall from the accessible height of the play equipment

The turf system shall consist of

- IPEMA Certified Synthetic grass product (SGW – TigerTurf product XYZ) See Section Certified Turf
- Pad Underlayment system of porous closed cell composite material – SGW Lawn Pad thickness and density shall be sufficient to achieve ASTM F1292 See Section Pad Underlayment
- Synthetic grass infill – Durafill an anti-microbial acrylic coated round monocrystalline quartz See Section Synthetic Grass Infill
- 2" x 2" Polyurethane Edging secured in place with stakes and mechanical fasteners
- 4"  $\frac{3}{4}$ " minus aggregate or crushed angular hard stone compacted to 90% of max density per AASHTO T99

## General

- $\frac{3}{4}$ " minus or aggregate sub base to be mechanically compacted to a minimum of 90% compaction with the surface area smooth.
- General slope of area to be graded to allow drainage – maximum grade not to exceed 3%
- Polyurethane edging to be installed around the perimeter
- Closed cell foam pad underlayment to be cut and placed into position with  $\frac{1}{4}$ " -  $\frac{3}{8}$ " spacing between panels.
- Turf cut and configured to fit the entire base area.
- Seams and relief cuts to be spliced together using manufacturers' approved turf adhesive and seam tape.
- Durafill Infill to be applied evenly using a drop spreader and after turf fibers have been broomed to stand up using a stiff bristled push broom or power broom.
  - Spread rate of 2 pounds per square foot.
- Edges of turf to be secured to edging with mechanical fasteners.

## Maintenance

- Groom and clean as necessary
- Add Durafill infill periodically to area as needed when dissipation has occurred.









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

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

Client: <u>TigerSports Americas dba TigerTurf Americas</u>	Project No.: <u>72105807-6</u>
Manufacturer: <u>TigerSports Americas dba TigerTurf Americas</u>	Report Date: <u>9/22/2015</u>
Manufacturing Location: <u>Union City, GA</u>	Test Date: <u>9/18/2015</u>
Phone: <u>(855) 773-6688</u>	Initial Test <input checked="" type="checkbox"/>
Commercial Name of product: <u>Diamond Pro Fescue - 30mm</u>	Follow up Test <input type="checkbox"/> Ref Job: <input type="checkbox"/>
Date of Manufacture: <u>Unknown</u>	Sample Receipt Date: <u>9/16/2015</u>
No. of samples submitted: <u>1 - 18in. X 18in. Turf System</u>	Ambient Air Temperature: <u>23.1°C</u>
	Humidity: <u>33.0%</u>

**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 Fanchia      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.: 72105807-6

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	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





TUV SUD America Inc.

Product Safety Services  
47523 Clipper Drive  
Plymouth, MI 48170

Phone: 734.455.4841

### Surfacing Material Report – ASTM F1292-13

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

#### 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 Americas

Project No.: 72105807-8

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	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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