



**TÜV SÜD America Inc.**  
**Product Safety Services**  
 47523 Clipper Drive  
 Plymouth, MI 48170  
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**IPEMA Surfacing Material Report – ASTM F1292-09**

Client: X Grass Worldwide Turf Solutions  
 Manufacturer: X Grass Worldwide Turf Solutions  
 Manufacturing Location: Dalton, GA

TUV Report No.: Q11102001-2 Rev 2

Report Date: 8/21/2012

Test Date: 5/12/11 & 5/17/11

Initial Test

Follow up Test  Ref Job:

Sample Receipt Date: 4/29/2011

Selection Date: 3/1/2011

Ambient Air Temperature: 23°C

Humidity: 31%

Phone: 706-272-0140  
 Commercial Name of product: 50 oz Turf / 12' CFH  
 Sample Selection: Yes: X No:  
 Date of Manufacture: Unknown  
 No. of samples submitted: 3 Samples

**Test Equipment:**

Triax 2000 Accelerometer Calibration Due Date: Jan-12

Temperature Probe Calibration Due Date: Jan-12

Environmental Chamber No.: PLYP00101

Calibration Due Date: 8/18/11

Environmental Chamber No.: PLYP00069

Calibration Due Date: 8/18/11

**Loose fill Material Sample Description:**

- Loose Fill Wood:
- Engineered Wood Fiber:
- Rubber:
- Sand:
- Gravel:
- Other:

Un-compacted Depth: \_\_\_\_\_ Inches

Compacted Depth: \_\_\_\_\_ Inches

**Unitary Sample Description:**

- Tiles
- Poured in Place
- Turf

Thickness: \_\_\_\_\_

Thickness: \_\_\_\_\_

Thickness: See Comments

**Comments:**

Rev 1: Requested by X grass to change the name of the product from SG 10009B to 50 oz Turf.

Rev 2: Change the name of product name from 50 oz Tuft to 50 oz Turf / 12' CFH

50 ozTurf consists of four - 1" Pads. And 3.5lbs per square foot of Envirofill.

**The above described sample was tested at :     12     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.

Sample in compliance with ASTM F1292-09 at the temperature and rating specified?

Yes

No

Signature: Jim Rock

Date: 8/21/12

Reviewed by: Scott CoShack

Date: 8/21/12

Client: X Grass Worldwide Turf Solutions

TUV Report No. QI1102001-2 Rev 2

Manufacturer: X Grass Worldwide Turf Solutions

Test Date: 5/12/11 & 5/17/11

Drop	Specified Drop 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)	G-Max	HIC	Velocity (ft/s)	G-Max	HIC	Velocity (ft/s)
1	12	101	755	27.7	86	583	27.6	83	545	27.8
2	12	114	875	27.8	92	645	27.6	93	631	27.7
3	12	119	917	27.8	96	678	27.7	97	678	27.7
Average		116.5	896		94	661.5		95	654.5	
Measured Surface Temperature		-6°C	Max. Change from reference + 5°C ,(9°F)		24°C	Max. Change from reference ± 3°C ,(5.4°F)		49°C	Max. Change from reference -3°C ,(-5.4°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)	G-Max	HIC	Velocity (ft/s)	G-Max	HIC	Velocity (ft/s)
1										
2										
3										
Average		0	0		0	0		0	0	
Measured Surface Temperature		°C	Max. Change from reference + 5°C ,(9°F)		°C	Max. Change from reference ± 3°C ,(5.4°F)		°C	Max. Change from reference -3°C ,(-5.4°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)	G-Max	HIC	Velocity (ft/s)	G-Max	HIC	Velocity (ft/s)
1										
2										
3										
Average		0	0		0	0		0	0	
Measured Surface Temperature		°C	Max. Change from reference + 5°C ,(9°F)		°C	Max. Change from reference ± 3°C ,(5.4°F)		°C	Max. Change from reference -3°C ,(-5.4°F)	
Sample Condition:										



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