



TUV SUD America Inc.

Product Safety Services

47253 Clipper Drive
Plymouth, MI 48170

Phone: 734.455.4841

IPEMA Surfacing Material Report – ASTM F1292-09

Client: **XGrass**
Manufacturer: **XGrass**
Manufacturing Location: **Dalton, GA**

TUV Report No.: **QI1003408-2 Rev. 1**
Report Date: **5/17/2010**
Test Date: **4/13/10 and 4/14/10**
Initial Test
Follow up Test **Ref Job:**

Phone: **(877) 881-8477**
Commercial Name of product: **Luxury Pro 80 oz. 3" System w/base as described**
Sample Selection: **Yes** **No: X**
Date of Manufacture: Unknown
No. of samples submitted: 1 system in wood box

Receipt Date **3/22/2010**
Ambient Air Temperature: **21.0°C**
Humidity: **30%**

Test Equipment:

Triax 2000 Accelerometer Calibration Due Date: **Nov-10**
Temperature Probe Calibration Due Date: **Apr-10**

Environmental Chamber No.: **6**
Calibration Due Date: **11/11/10**
Environmental Chamber No.: **DE006**
Calibration Due Date: **4/12/11**

Loose fill Material Sample Description:

- Loose Fill Wood:
- Engineered Wood Fiber:
- Rubber:
- Sand:
- Stone:
- Dirt:

Base consisted of approximately 2.5" dirt and 2.75" Stone

Unitary Sample Description:

- Tiles Thickness: **1 in.**
- Poured in Place Thickness:
- Turf Thickness: **2 in.**

Comments:

One 18 in. x 18 in. sample was prepared and submitted by XGrass in a wood box. Infill amount: 2lbs. per sq. ft. of SofFill.
Total System Depth : 8.25 in. Revision 1 to clarify product description.

The above described sample was tested at : 6 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: Timothy Franklin

Date: 5/17/2010

Reviewed by: Kirk C. Smith

Date: 5/17/2010

Client: **XGrass**

TUV Report No. **Q11003408-2 Rev. 1**

Manufacturer: **XGrass**

Test Date: **4/13/10 and 4/14/10**

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	6	87	306	19.7	73	194	19.7	83	234	19.7
2	6	93	337	19.9	74	219	19.8	79	236	19.7
3	6	93	341	19.8	73	247	19.9	77	238	19.8
Average		93	339		73.5	233		78	237	
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:										

