



**TÜV SÜD America Inc.**  
**Product Safety Services**  
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**IPEMA Surfacing Material Report – ASTM F1292-13**

Participant:	<u>Shaw-Southwest Greens Internationa</u>	TUV Report No.:	<u>QI1404331-2</u>
Main Office Address:	<u>PO BOX DWR 2128</u>	Report Date:	<u>5/7/2014</u>
	<u>Dalton, GA 30722</u>	Test Date:	<u>5/2/14 &amp; 5/6/14</u>
Phone:	<u>877 260 7888</u>	Selection:	<input type="checkbox"/>
Manufacturing Location ID:	<u>Calhoun, GA</u>	Initial:	<input checked="" type="checkbox"/>
Commercial Name of product:	<u>Play Safe 50 Turf System 2-5 FT</u>	Follow up:	<input type="checkbox"/> <b>Ref Job:</b>
Date of Manufacture:	<u>Unknown</u>	Sample Receipt Date:	<u>4/29/2014</u>
No. of samples submitted:	<u>3: 18 x 18 Play 50 Turfs, 1 bag Hydro</u>	Ambient Air Temperature:	<u>23.3°C</u>
	<u>Chill Sand, 3: 18 x 18 x 20mm Pads</u>	Humidity:	<u>29.0%</u>

**Test Equipment:**

Triax System 1:	<input checked="" type="checkbox"/>	Environmental Chamber No.:	<u>PLYP00101</u>
Triax System 2:	<input type="checkbox"/>	Calibration Due Date:	<u>7/31/14</u>
Accelerometer ID:	<u>PLYP00089</u>	Environmental Chamber No.:	<u>PLYP00069</u>
Accelerometer Calibration Due Date:	<u>6/27/2014</u>	Calibration Due Date:	<u>7/31/14</u>

**Loose fill Material Sample Description:**

Engineered Wood Fiber:	<input type="checkbox"/>	Un-compacted Depth:	<u>4.5</u> Inches
Loose Fill Wood:	<input type="checkbox"/>		
Rubber:	<input type="checkbox"/>		
Sand:	<input type="checkbox"/>	Compacted Depth:	<u>4</u> Inches
Gravel:	<input checked="" type="checkbox"/>		
Other:	<input type="checkbox"/>		

**Unitary Sample Description:**

Tiles:	<input type="checkbox"/>	Total Thickness:	<u>2</u> Inches
Poured in Place:	<input type="checkbox"/>	Turf/Top Layer:	<u>1.25</u> Inches
Other:	<input checked="" type="checkbox"/>	Foam/Base Layer:	<u>20</u> mm (0.75 inches)

**Comments:**

Total system depth = 6 inches.

**Determined maximum critical fall height was determined 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.

Sample in compliance with ASTM F1292-13 at the temperature and rating specified?      Yes            No     

Signature: 

Date: 5/9/2014

Reviewed by: 

Date: 5/14/2014

Client: Shaw-Southwest Greens International

TUV Report No.

Q11404331-2

Manufacturer: Shaw-Southwest Greens International

Test Date:

5/2/14 & 5/6/14

Drop	Determined Maximum Critical Fall 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	147	730	18.0	5.037	131	613	18.0	5.037	128	545	18.0	5.037
2	5	157	812	18.0	5.037	139	665	18.0	5.037	154	732	18.0	5.037
3	5	158	815	18.0	5.037	155	759	18.1	5.093	157	754	18.1	5.093
Average		157.5	813.5			147	712			155.5	743		
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	6	177	1062	19.7	6.033	170	925	19.7	6.033	160	819	19.7	6.033
2	6	173	1016	19.7	6.033	187	1043	19.7	6.033	175	953	19.8	6.095
3	6	172	989	19.7	6.033	187	1058	19.8	6.095	186	1039	19.8	6.095
Average		172.5	1002.5			187	1050.5			180.5	996		
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 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	4	127	527	16.2	4.080	116	455	16.2	4.080	115	433	16.1	4.030
2	4	141	623	16.2	4.080	124	501	16.2	4.080	116	439	16.2	4.080
3	4	133	583	16.3	4.130	138	574	16.2	4.080	129	518	16.2	4.080
Average		137	603			131	537.5			122.5	478.5		
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			



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