



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>QI1404331-1</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>5/6/14 & 5/7/14</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 6-8 FT</u>	Follow up:	<input type="checkbox"/> Ref Job:
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 2" Foam 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>3.25</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>2</u> Inches

Comments:

Total system depth = 7.25in.

Determined maximum critical fall height was determined at : 8 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.

QI1404331-1

Manufacturer: Shaw-Southwest Greens International

Test Date:

5/6/14 & 5/7/14

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	8	119	724	22.7	8.011	101	574	22.6	7.940	117	637	22.6	7.940
2	8	121	699	22.8	8.081	108	581	22.7	8.011	149	850	22.7	8.011
3	8	122	700	22.8	8.081	118	635	22.7	8.011	167	981	22.8	8.081
Average		121.5	699.5			113	608			158	915.5		
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			

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	9	137	830	24.1	9.029	147	902	24.0	8.954	143	867	24.1	9.029
2	9	139	851	24.1	9.029	154	921	24.1	9.029	177	1119	24.2	9.104
3	9	135	797	24.1	9.029	164	981	24.1	9.029	192	1248	24.2	9.104
Average		137	824			159	951			184.5	1183.5		
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			

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	7	107	556	21.2	6.987	99	494	21.3	7.053	132	630	21.2	6.987
2	7	109	562	21.2	6.987	98	473	21.3	7.053	148	749	21.2	6.987
3	7	111	563	21.3	7.053	104	506	21.3	7.053	147	765	21.2	6.987
Average		110	562.5			101	489.5			147.5	757		
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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