



TÜV SÜD America Inc.
Product Safety Services
 1755 Atlantic Blvd.
 Auburn Hills, MI 48326
 Phone: (616) 546-4600

Surfacing Material Report - Least Favorable Impact Location – ASTM F1292-

Client: <u>Rubberecycle, LLC</u>	Project No.: <u>72119435</u>
Manufacturer: <u>Rubberecycle, LLC</u>	Report Date: <u>9/1/2016</u>
Manufacturing Location: <u>1985 Rutgers University Blvd.</u>	Test Date: <u>8/31/2016</u>
<u>Lakewood, NJ 08701</u>	Initial Test <input type="checkbox"/>
Phone: <u>732.363.0600</u>	Follow up Test <input checked="" type="checkbox"/> Ref Job: 721190
Commercial Name of Product: <u>3.5 inch AVEER Tile</u>	Sample Receipt Date: <u>8/29/2016</u>
Date of Manufacture: <u>Unknown</u>	Ambient Air Temperature: <u>24.6°C</u>
No. of samples submitted: <u>Six, (6)</u>	Humidity: <u>36.0%</u>

Test Equipment:

Alpha Automation, Triax, TUV System 5: <input checked="" type="checkbox"/>	Environmental Chamber No.: PLYP00101
Alpha Automation, Triax, TUV System 4: <input type="checkbox"/>	Calibration Due Date: 9/29/2016
Accelerometer ID: PLYP00144	Environmental Chamber No.: PLYP00069
Accelerometer Calibration Date: 2/16/2017	Calibration Due Date: 9/29/2016

Unitary Sample Layer Description:

Total Thickness: 3.5 Inch
 Top Layer: _____
 Base Layer: 3.5 inch

Determine Least Favorable Impact Location: • HIC Value used in establishing least favorable impact location.
Three Impacts per Location, (Center, Seam, Interlock, etc...) at 23°C.

<u>Impact Location:</u>	<u>Reference Temperature:</u>
<u>Least Favorable Impact Location was determined at:</u> <u>Center of Tile</u>	<u>23°C</u>

Comments:

- 1.) Samples tested in laboratory environment, overlying poured concrete floor.
- 2.) Calculate the average g-max and HIC scores by averaging results from the second and third impacts.
- 3.) Per customer request, Worst Case Location was determined at ambient conditions 23° ±3°. A full test was performed at that location (-6°C, 2

The above described sample was tested 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 representative of 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: Jim Lockstein Title: Product Safety Engineer Date: 9/1/2016

Reviewed by: [Signature] Title: Regional Manager Date: 9/1/2016

Client: Rubberecycle, LLCProject No.: 72119435Manufacturer: Rubberecycle, LLCTest Date: 8/31/2016**Impact Location: Tile Interlock (fastening system)**

Drop	Specified Impact Height (Ft.)	Reference Temperature -6°C, (21.2°F)				Reference Temperature 23°C, (73.4°F)				Reference Temperature 49°C, (120°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)
1	8				0.000	51	209	22.7	8.011			
2	8				0.000	65	248	22.7	8.011			
3	8				0.000	62	243	22.7	8.011			
Average		0	0			63.5	245.5			0	0	
Measured Surface Temperature		(-4°C)	Max. Change from reference + 5°C, (5°F)			24.3°C	Max. Change from reference ± 3°C, (5°F)			48°C	Max. Change from reference ± 3°C, (5°F)	
Sample Condition:		Dry				Dry				Dry		

Impact Location: Corner (intersection of 4 tiles)

Drop	Specified Impact Height (Ft.)	Reference Temperature -6°C, (21.2°F)				Reference Temperature 23°C, (73.4°F)				Reference Temperature 49°C, (120°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)
1	8				0.000	71	320	22.7	8.011			
2	8				0.000	77	303	22.7	8.011			
3	8				0.000	75	292	22.7	8.011			
Average		0	0			76	297.5			0	0	
Measured Surface Temperature		(-5°C)	Max. Change from reference + 5°C, (5°F)			24.3°C	Max. Change from reference ± 3°C, (5°F)			49°C	Max. Change from reference ± 3°C, (5°F)	
Sample Condition:		Dry				Dry				Dry		

Impact Location: Seam (between 2 tiles)

Drop	Specified Impact Height (Ft.)	Reference Temperature -6°C, (21.2°F)				Reference Temperature 23°C, (73.4°F)				Reference Temperature 49°C, (120°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)
1	8				0.000	60	253	22.7	8.011			
2	8				0.000	58	264	22.7	8.011			
3	8				0.000	73	277	22.7	8.011			
Average		0	0			65.5	270.5			0	0	
Measured Surface Temperature		(-5°C)	Max. Change from reference + 5°C, (5°F)			24.3°C	Max. Change from reference ± 3°C, (5°F)			48°C	Max. Change from reference ± 3°C, (5°F)	
Sample Condition:		Dry				Dry				Dry		

Impact Location: Center (individual tile)

Drop	Specified Impact Height (Ft.)	Reference Temperature -6°C, (21.2°F)				Reference Temperature 23°C, (73.4°F)				Reference Temperature 49°C, (120°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)
1	8				0.000	62	299	22.7	8.011			
2	8				0.000	66	294	22.7	8.011			
3	8				0.000	66	302	22.7	8.011			
Average		0	0			66	298			0	0	
Measured Surface Temperature		(-5°C)	Max. Change from reference + 5°C, (5°F)			24.8°C	Max. Change from reference ± 3°C, (5°F)			48°C	Max. Change from reference ± 3°C, (5°F)	
Sample Condition:		Dry				Dry				Dry		





Client: Rubberecycle, LLC

Project No.: 72119435

Manufacturer: Rubberecycle, LLC

Test Date: 8/31/2016

Impact Location: Center (individual tile)

Drop	Specified Impact Height (Fl.)	Reference Temperature -6°C, (21.2°F)				Reference Temperature 23°C, (73.4°F)				Reference Temperature 49°C, (120°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)
1	8	69	338	22.7	8.011	62	299	22.7	8.011	60	248	22.7
2	8	63	303	22.7	8.011	66	294	22.7	8.011	65	262	22.7
3	8	63	318	22.7	8.011	66	302	22.7	8.011	66	271	22.7
Average		63	310.5			66	298			65.5	266.5	
Measured Surface Temperature		-6°C	Max. Change from reference + 5°C, (5°F)			24.8°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 (Fl.)	Reference Temperature -6°C, (21.2°F)				Reference Temperature 23°C, (73.4°F)				Reference Temperature 49°C, (120°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)
1					0.000				0.000			
2					0.000				0.000			
3					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 (Fl.)	Reference Temperature -6°C, (21.2°F)				Reference Temperature 23°C, (73.4°F)				Reference Temperature 49°C, (120°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)
1					0.000				0.000			
2					0.000				0.000			
3					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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Theoretical Drop Height (ft.)
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