



TUV SUD America Inc.
Product Safety Services
 47523 Clipper Drive
 Plymouth, MI 48170
 Phone: 734.455.4841

IPEMA Surfacing Material Report – ASTM F1292-09

Participant: **Soil Express**
 Main Office Address: **166 W. Frontier Parkway**
Prosper, TX
 Phone: **972.347.2994**
 Manufacturing Location ID: **Prosper, TX**
 Commercial Name of product: **EcoKid Express**
 Date of Manufacture: **Unknown**
 No. of samples submitted: **Approximately 8 Cu. Ft.**

TUV Report No.: **QI1300754-3**
 Report Date: **2/1/2013**
 Test Date: **1/31/13 & 2/1/13**
 Selection: Initial:
 Follow up: **Ref Job:**
 Sample Receipt Date: **1/23/2013**
 Ambient Air Temperature: **22.0 °C**
 Humidity: **26.0%**

Test Equipment:

Triax System 1:	<input checked="" type="checkbox"/>	Environmental Chamber No.:	PLYP00101
Triax System 2:	<input type="checkbox"/>	Calibration Due Date:	7/31/13
Accelerometer ID:	PLYP00089	Environmental Chamber No.:	PLYP00069
Accelerometer Calibration Due Date:	6/29/2013	Calibration Due Date:	7/31/13

Loose fill Material Sample Description:

Engineered Wood Fiber:	<input checked="" type="checkbox"/>	Un-compacted Depth:	14 Inches
Loose Fill Wood:	<input type="checkbox"/>		
Rubber:	<input type="checkbox"/>		
Sand:	<input type="checkbox"/>	Compacted Depth:	12 Inches
Gravel:	<input type="checkbox"/>		
Other:	<input type="checkbox"/>		

Unitary Sample Description:

Tiles	<input type="checkbox"/>	Total Thickness:	_____
Poured in Place	<input type="checkbox"/>	Top Layer:	_____
Other	<input type="checkbox"/>	Base Layer:	_____

Comments:

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 Lockster* Date: 2/1/13

Reviewed by: *Keith G. Smith* Date: 2/1/13

Client: **Soil Express**

TUV Report No.

QI1300754-3

Manufacturer: **Soil Express**

Test Date:

1/31/13 & 2/1/13

Drop	Specified Impact 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	12	71	310	27.5	11.757	71	298	27.6	11.842	87	414	27.7	11.928
2	12	85	399	27.5	11.757	82	375	27.7	11.928	109	574	27.7	11.928
3	12	99	501	27.7	11.928	102	515	27.8	12.014	120	681	27.8	12.014
Average		92	450			92	445			114.5	627.5		
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					0.000				0.000				0.000
2					0.000				0.000				0.000
3					0.000				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 (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					0.000				0.000				0.000
2					0.000				0.000				0.000
3					0.000				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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