

TÜV SÜD America Inc.

Product Safety Services 47523 Clipper Drive Plymouth, MI 48170

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<u>IPEMA Surfacing Material Report – ASTM F1292-09</u>

	in touristoning in				
Main Office Address:	Bohemia, NY 11716 (631) 231-1300 Bohemia, NY Bondflex 5.5in. Unknown	<u>s</u>		TUV Report No.: Report Date: Test Date: Initial Follow up ple Receipt Date: Air Temperature: Humidity:	7/27/2012 7/27/2012 ☑ Ref Job: 7/24/2012 22.4°C
	Ī	est Equipme	nt:		
	Triax System 1:	☑	Environmen	tal Chamber No.:	PLYP00101
	Triax System 2:		Calil	oration Due Date:	8/1/12
	Accelerometer ID:	PLYP00036	Environmen	tal Chamber No.:	PLYP00069
Acceleromet	ter Calibration Due Date:	3/7/2013	Calil	oration Due Date:	8/1/12
	Loose fill Ma	aterial Sample	e Description	<u>ı:</u>	
Engineered Wood Fiber:	п		Un-compacted D	epth: <u>4</u>	Inches
Loose Fill Wood					
Rubber:					
Sand:			Compacted D	epth: <u>4</u>	Inches
Gravel:					
Other:					
	Unitary	Sample Des	cription:		
	Tiles			Total Thickness:	1 5in
	Poured in Place			Top Layer:	N/A
	Other			Base Layer:	N/A
Comments:				•	
Samples arrived in wooden boxes, pre system thickness of 5.5in.	e-assembled by Hanover \$	Specialties. Samples	s are: 1.5in. Poured	l in place over 4.0	in. Loose rubber. Total
The maximum determined co	ritical fall height of t described s		<u>12</u> <u>Ft.</u>		
The results reported herein reflect the results are specific to the described sa The following data sheet provides an a	imples. Samples of surfac	ing materials that de			
Sample in compliance with ASTM F	1292-09 at the temperatu	ire and rating spec	ified?	Yes 🔽	No 🔲
Signature: Simoli	by Forulia		Date:7/2	30/12	
Reviewed by:	Sketter		Date:	30/12	

Client: Hanover Specialties

TUV Report No. QI1208004

Test Date: 7/27/2012

Manufacturer: Hanover Specialties

Drop Impac	Specified	Reference Temperature -6°C, (21.2°F)			Reference Temperature 23°C,(73.4°F)			Reference Temperature 49°C,(120.2°F)		
	Impact Height (Ft.)	G-Max	HIC	Velocity (fl/s)	G-Max	НІС	Velocity (ft/s)	G-Max	HIC	Velocity (fl/s)
1	12	135	1012	27.6	112	719	27.7	90	683	27.7
2	12	131	955	27.6	106	649	27.7	100	681	27.7
3	12	128	892	27.7	115	742	27.7	100	683	27.7
Av	/erage	129.5	923.5		110.5	695.5		100	682	SACTOR STATE
Measured Surface Temperature		(-6°C)	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	Sample Condition: DRY		DRY			DRY				

Drop	One foot over	Reference Temperature -6°C, (21.2°F)			Refe	rence Temperature 23°	C,(73.4°F)	Reference Temperature 49°C,(120.2°F)		
	(Ft.)	G-Max	HIC	Velocity (ft/s)	G-Max	ніс	Velocity (ft/s)	G-Max	HIC	Velocity (ft/s)
1	13	140	1092	28.7	120	851	28.7	109	806	28.7
2	13	132	964	28.7	115	771	28.7	113	826	28.8
3	13	145	1114	28.7	119	816	28.7	108	785	28.8
Av	verage	138.5	1039	Top Late Side of the	117	793.5		110.5	805.5	WE TO WITH
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 under	Reference Temperature -6°C, (21.2°F)			Reference Temperature 23°C,(73.4°F)			Reference Temperature 49°C,(120.2°F)		
	(Ft.)	G-Max	HIC	Velocity (ft/s)	G-Max	HIC	Velocity (ft/s)	G-Max	HIC	Velocity (fl/s)
1	11	125	966	26.5	99	547	26.4	98	699	26.4
2	11	132	941	26.5	103	600	26.5	92	606	26.4
3	11	124	837	26.6	99	535	26.5	80	486	26.4
A۱	verage	128	889		101	567.5		86	546	
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						



America