

## TÜV SÜD America Inc.

**Product Safety Services** 47523 Clipper Drive Plymouth, MI 48170

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## IPEMA Surfacing Material Report - ASTM F1292-09

11 1-	INA Carracing IV	iateriai Neport	ACTIVITIESE OF								
Manufacturer: Manufacturing Location:	(800) 858-0519 TotTurf Synthetic Turf (S		TUV Report No.: Report Date: Test Date: Initial Test Follow up Test Sample Receipt Date: Ambient Air Temperature: Humidity:	: <u>2/27/2012</u> : <u>2/24/12 and 2/27/12</u> :t ☑ :t ☑Ref Job: : <u>2/22/2012</u> :: <u>21.7°C</u>							
	I	est Equipment	<u>.</u>								
	Triax System 1:	☑	Environmental Chamber No.:	PLYP00101							
	Triax System 2:		Calibration Due Date:	8/1/12							
	Accelerometer ID: I	PLYP00089	Environmental Chamber No.:	PLYP00069							
Acceleromet	ter Calibration Due Date:	6/1/2012	Calibration Due Date:	8/1/12							
	Loose fill Ma	aterial Sample I	Description:								
Engineered Wood Fiber:		U	n-compacted Depth:	Inches							
Loose Fill Wood			and the same production and the same								
Rubber:	V.										
Sand:			Compacted Depth:	Inches							
Gravel:	_										
Other:											
Unitary Sample Description:											
			Total Thickness:	7 0in							
	12,4004.7		Top Layer:								
	2 100000 P		Base Layer:	5.5in.							
Comments:											
0	D b Tout bell a colle		and d								
System: 1.5in. turf overlaying 5.5in. SE	sk base. Turf infilled with a	approximately 6lbs. or s	sand.								
The above desc	cribed sample was te	ested at : 12	<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 surfaci	ing materials that do no									
Sample in compliance with ASTM F	1292-09 at the temperatu	re and rating specifie	ed? Yes ☑	No 🔲							
Signature: Tuny	Jones Forelin		Date: 2/27/12  Date: 3/37/2013 -								

Revision 2 08/05/11

Client: Robertson Industries

Manufacturer: Robertson Industries

TUV Report No. QI1201149

Test Date: 2/24/12 and 2/27/12

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)	G-Max	HIC	Velocity (ft/s)	G-Max	HIC	Velocity (ft/s)
1	12	71	479	27.7	69	459	27.7	74	478	27.7
2	12	77	513	27.7	73	476	27.8	82	528	27.8
3	12	79	524	27.7	77	501	27.8	86	542	27.8
Av	rerage	78	518.5	The state of the s	75	488.5		84	535	
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 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)	G-Max	HIC	Velocity (fl/s)	G-Max	HIC	Velocity (ft/s)
1										
2										
3									× ·	
Av	erage	0	0		0	0		0	0	
Measured Surface Temperature		°C	Max. Change from reference + 5°C ,(9°F)		°C	Max. Change from reference + 3°C, (5.4°F)		°C	Max. Change from reference -3°C ,(-5.4°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 (fl/s)	G-Max	HIC	Velocity (fl/s)	G-Max	HIC	Velocity (ft/s)
1										
2										
3										
A	verage	0	0		0	0		0	0	
Measured Surface Temperature		°C	Max. Change from reference + 5°C ,(9°F)		°C	Max. Change from reference ± 3°C ,(5.4°F)		°C	Max. Change from reference 3°C ,(-5.4°F)	
Sample	Condition:	- 0								



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