



## **TECHNICAL REPORT**

Technical evaluation of a synthetic turf product.  
Rymar 81.

Report Number **R14545CAN-A1**

Client **Corey Ukroenz**  
**RYMAR**

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*This report contains 5 pages in total.*

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**DESCRIPTION OF THE PRODUCT TESTED**

Name of the product	RYMAR 81	
Sample number	CAN0001579	
Date of the tests	NOVEMBER 2014	
Artificial grass		
Name of the turf carpet/code	RYMAR 81	
Pile height (mm)	50	
Infill		
	Infill	Manufacturer
Sand	SILICEOUS	INFORMATION NOT SUBMITTED
Layer	Infill	Recipe (kg/m <sup>2</sup> )
Lower	SAND	1.75 LBS/FT <sup>2</sup>
Approx. Infill depth (mm)	8	
Shock-pad		
Name	INFORMATION NOT SUBMITTED	
Composition	INFORMATION NOT SUBMITTED	
Thickness	2 INCHES	

**REPORTED BY:**



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**RESULTS**

Property	Test method	Condition	Units	Results
Tuft Bind of pile floor covering	ASTM D1335-05	New	<b>N</b>	<b>66.3</b>
			<i>lbf</i>	14.9
Mass Per Unit Area	ASTM D5848-05	New	<b>g/m<sup>2</sup></b>	<b>3469</b>
			<i>oz/yd<sup>2</sup></i>	102.3
Tuft Height of pile floor covering	ASTM D5823-05a	New	<b>mm</b>	<b>51</b>
			<i>in.</i>	2.01
Breaking Strength of Textile Fabrics Fabrics	ASTM D5034-95	Machine Direction	<b>N</b>	<b>1630</b>
			<i>lbf</i>	366.4
			<i>% elongation</i>	26
		Cross Direction	<b>N</b>	<b>1541</b>
			<i>lbf</i>	346.4
			<i>% elongation</i>	18.4
Relative Abrasiveness	ASTM F1015	With infill	<b>Abrasiveness index</b>	<b>26.5</b>
Total lead content	ASTM F2765	New – Dark Green	<b>ppm</b>	<b>&lt;0.1</b>
		New – Light Green	<b>ppm</b>	<b>&lt;0.1</b>
		New – Green Thatch	<b>ppm</b>	<b>&lt;0.1</b>
		New – Yellow Thatch	<b>ppm</b>	<b>&lt;0.1</b>
Flammability of pile floor covering	ASTM D2859	With infill	<b>Pass/Fail</b>	<b>Pass</b>

Property	Test method	Condition	Parameters	Units	Results
Flammability Flooring radiant panel	ASTM E648	With infill	Radiant Flux at 10 minutes	W/cm <sup>2</sup>	<b>0.89</b>
			Flame spread at 10 minutes	mm	<b>200</b>
			Radiant Flux at 15 minutes	W/cm <sup>2</sup>	<b>0.66</b>
			Flame spread at 15 minutes	mm	<b>330</b>
			Radiant Flux at 30 minutes	W/cm <sup>2</sup>	<b>0.28</b>
			Flame spread at 30 minutes	mm	<b>550</b>
			Critical Radiant Flux at extinguishment	W/cm <sup>2</sup>	<b>0.17</b>
			Extent of flame travel	mm	<b>690</b>
			Burning characteristics		

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PROPERTY	TEST METHOD	CONDITION	FALL HEIGHT	UNITS	REQUIREMENTS	RESULTS
HIC	ASTM F1292	23°C	10' (3.05 m)	H.I.C.	<1000	658
				Gmax	<200	101
			9' (2.74 m)	H.I.C.	<1000	564
				Gmax	<200	95
			8' (2.44 m)	H.I.C.	<1000	497
				Gmax	<200	90
		49°C	10' (3.05 m)	H.I.C.	<1000	402
				Gmax	<200	70
			9' (2.74 m)	H.I.C.	<1000	339
				Gmax	<200	65
			8' (2.44 m)	H.I.C.	<1000	279
				Gmax	<200	60
		-6°C	10' (3.05 m)	H.I.C.	<1000	1105
				Gmax	<200	147
			9' (2.74 m)	H.I.C.	<1000	932
				Gmax	<200	143
8' (2.44 m)	H.I.C.		<1000	843		
	Gmax		<200	127		