









10 Mauney Court Columbia, SC 29201

Test Lab: NEMO | etc.

# Date of Issuance: 2022-02-01

4393 Discovery Line Petrolia, ON Canada NON 1R0 c/o: Christopher Chartrand

**Prepared for: sofSURFACES Rubber Tile Solutions** 

of

# sofSURFACES Soft Surface Tile System

Panels SSF-B1

in accordance with

**UL 1897** 

# **Static Wind Uplift Testing**

Laboratory Report 4a-SSF-22-LSWUS-01.A Pages = 4

**EVALUATE** 

TEST

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CONSULT

NEMO etc.

ENGINEER



### LABORATORY REPORT

### **CLIENT:** sofSURFACES Rubber Tile Solutions

c/o: Christopher Chartrand

**SCOPE:** 10 x 10-ft. simulated wind uplift testing of sofSURFACES Soft Surface Tile system in accordance with UL 1897.

TEST PROGRAM									
PROJECT NO.	MD NOTIFICATION	RECEIVED	TEST DATES Start End		TECHNICIANS		WITNESSES		
4a-SSF-22-LSWUS-01	NA	2021-12-17	2022-01-06	2022-01-24	C. I Z. T	Phillips Faylor	-		
Samples									
TILE		<u>B</u> Y							
Soft Surface Tile		sofSURFACES							
Sheet goods		<u>BY</u>							
reinforced PVC membrane (60-mil)		Client-supplied, unlabeled							
INSULATION		<u>BY</u>							
Styrofoam <sup>™</sup> RoofMate <sup>™</sup>		Dupont de Nemours							
Adhesive / Primers		<u>BY</u>							
Sikaflex		Sika							
TEST & EQUIPMENT LOG									
PROPERTY	Standard	Equipment		Asset #	CALIBI CURRENT	RATION Next			
Simulated uplift – 10 x 10 UL 1897		10x10	PRESSURE VESSEL						
		Dwyer 475 MARK III manometer		0534	2021-04-02	2022-04-02			
STANDARDS									

UL 1897, Seventh Edition - Standard for Safety Uplift Tests for Roof Covering Systems, © 2015, UL LLC



UL 1897

### 1. STATIC WIND UPLIFT RESISTANCE – 10 x 10 FT:

## 1.1 <u>Specimen Preparation</u>:

One specimen measuring 10 x 10-ft. is constructed for each assembly (Fig. 1), using specifications provided by client.



(Fig. 1 - Framed test specimen)

Specimens are allowed to cure 5-days at ambient conditions.

1.2 <u>Procedure</u>:

The simulated wind uplift pressure tests utilize the 10-ft. (7.3 m) long by 10-ft. (3.7 m) wide panel as a pressure vessel with the test panel forming the top side of the chamber.

A net pressure of 30 psf (1.4 kPa) is applied to the test sample and maintained for 1 minute. The pressure is increased in increments of 15 psf (0.7 kPa) and held for 1 min until failure occurs.

1.3 <u>Results</u>:

TABLE 1: TEST RESULTS, WIND UPLIFT 10 x 10 FT, PANEL SSF-B1						
COMPONENT	TESTED COMPONENT	ATTACHMENT				
Dеск:	19/32" Plywood					
WATERPROOFING:	reinforced PVC membrane (60-mil)	Loose-laid				
Insulation:	2-inch Styrofoam RoofMate (shiplap edges) staggered joints	Loose-laid				
INSULATION 2:	2-inch Styrofoam RoofMate (shiplap edges) staggered joints	Loose-laid				
DRAINAGE MAT:	reinforced PVC membrane (60-mil)	Loose-laid				
Tile:	Soft Surface Tile	Loose-laid, joints sealed with Sikaflex, 12 linear ft./cartridge				
Failing Pressure, psf:	120					
Failure Time, sec:	38					
Failure Mode:	Open of side joint					
Passing Pressure, psf:	105					
Allowable Design Pressure, psf:	-52.5					



#### 2. **CONCLUSIONS:**

NEMO|etc. has conducted static wind uplift resistance testing of sofSURFACES Soft Tile System in accordance with UL 1897, with results presented herein.

Signed:	0.0.	Rulia	Signed:		<			
	Charles Phillips			Robert Niemir	nen, P.E.			
	Section Lead, Large-	Scale Tests		President				
REPORT HISTORY	<i>(</i> :							
<u>Date</u>	Event		<u>Notes</u>			Authorized By:		
2022-01-31	DRAFT 1 issued	For client review			RN			
2022-02-01	FINAL issued		After client	review		RN		
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	NE-RPT- 0003	Rev. D	Date of release: 2	021-07-14	Released by: MDA			
Appendix 1: Stat Appendix 2: Dec	tement of Limitation tision Rule 1							

### -END OF REPORT-

#### **APPENDIX 1: STATEMENT OF LIMITATION**

The results presented are applicable solely to the products tested herein.

#### **APPENDIX 2: DECISION RULE 1**

All results reported to the client reflect observed values without incorporating measurement uncertainty. Determination of conformity to specifications will depend on acceptance limits, where results will be declared to pass if within the limits, and fail if outside the limits.