uSign Envelope II	D: A682B303-D43A-4D2A-8C2C-1167944*	1AA0B			
Tested For:	<b>Petra Krücken/Julia Liesenhoff</b> Trevira GmbH Max-Fischer-Str. 11	Phone: Fax: Mobile: PO#: Email:	+49 8234 9688 1331 Petra.Kruecken@trevira.com	Received: Completed: Code: Test Report: m/Julia.Liesenhoff@trevira	8/24/2022 8/30/2022 V1 3-48801-1 a.com
	D-86399 Bobingen, Germany				
Key Test:	CAN/ULC-S102.2				3230
Client's Identi	fication:				
Weight: 335	n Fabric: Article Designation: Step/Sto g/m <sup>2</sup> . Product End Use: Drapes; Uph Frevira CS: Application No. 220658.				
	FORMED: CAN/ULC-S102.2-18 - 3	: I=1375 F=292 Standard Met		o /dv Burning Characteristic	s of Flooring,
	ing and Miscellaneous Materials				
TEST CON	DUCTED:				
□ Indica ⊠ Form					
PRODUCT	CATEGORY: 🗆 Composite Panel	l Material			
materials ur Spread Valu	CRIPTION OF TEST METHOD: T nder specific test conditions. Resul ue (FSV) and Smoke Developed V produce average values expressed	lts of less tha ′alue (SDV). I	n three identical specime Results of three or more	ens are expressed in t replicate tests on ider	erms of Flame

SUMMARY OF TEST PROCEDURE: The tunnel is preheated to 85°C, as measured by the backwall-embedded thermocouple located 7090 mm downstream of the burner ports, and allowed to cool to 40°C, as measured by the backwall-embedded thermocouple located 4000 mm from the burners. At this time the tunnel lid is raised, and the test sample is placed along the floor of the tunnel so as to form a continuous surface and then the lid is lowered. Upon ignition of the gas burners, the flame spread distance is observed and recorded every second. Flame spread distance versus time is plotted, ignoring any flame front recessions. Calculations are based on comparison with flame spread characteristics of select red oak, determined in calibration trials and arbitrarily established as 100. If the area under the curve (AT) is less than or equal to 29.7 m<sup>2</sup>min, FSV=1.85<sup>•</sup> AT; if greater, FSV=1640/(59.4-AT). The Smoke Developed Value is determined by comparing the area under the obscuration curve for the test sample to that of inorganic reinforced cement board and red oak, established as 0 and 100, respectively.

### IG

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Tested For:	Petra Krücken/Julia Liesenhoff	Phone:	+49 8234 9688 1331	Received:	8/24/2022	
	Trevira GmbH	Fax:		Completed:	8/30/2022	
	Max-Fischer-Str. 11	Mobile:		Code:	V1	
		PO#:		Test Report:	3-48801-1	
		Email:	Petra.Kruecken@trevira.com	n/Julia.Liesenhoff@trevira	a.com	
	D-86399 Bobingen, Germany					
Key Test:	CAN/ULC-S102.2					323

## SAMPLE PREPARATION:

- □ The sample consisted of two sections of materials, each approximately 445 mm in width by 3658 mm in length butted together to form the requisite specimen length. The specimen was free laid (no adhesive) on top of a 6 mm fiberglass reinforced cement board substrate.
- ☑ Other: The test sample consisted of three 2.438 mm sections butted end to end to make the 7,315 mm length. The sample was laid along the tunnel floor.

## **REPORTED AS:**

□ INDICATIVE (Single Specimen Test):

Flame Spread Value (FSV): Smoke Developed Value (SDV):

⊠ FORMAL (Average Value of three replicate tests):

Flame Spread Rating (FSR): 25 Smoke Developed Classification: 235

# **RESULTS**:

Specimen #	Flame Spread Value	Smoke Developed Value	Burn Distance (meters)	Time (seconds)
1	16.8	204.6	1.2	355
2	24.9	246.6	1.6	115
3	26.5	260.1	1.7	150

### **OBSERVATIONS:**

- 1. No unusual observations
- 2. No unusual observations

3. No unusual observations

### JG

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Tested For:	Petra Krücken/Julia Lie Trevira GmbH Max-Fischer-Str. 11	esenhoff	Phone: Fax: Mobile: PO#: Email:	+49 8234 9688 1331 Petra.Kruecken@trevira.com/Julia.L	Received: Completed: Code: Test Report: iesenhoff@trevira	8/24/2022 8/30/2022 V1 3-48801-1 a.com
	D-86399 Bobingen, Ge	rmany				
Key Test:	CAN/ULC-S102.2					32
REMARKS:	None.					
ACCEPTAN	ICE CRITERIA: Nor	ne cited.				
CONCLUSI	ON: Not applicable.					
	and equipment spec	cified above.	vere obta	ined after testing specimens in	accordance wit	h the
	ED SIGNATURE H AMERICA	8/31/2022 -				
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JG		V	er. 2021-03-0	9 10:35		Page 3 o

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Test Method : CAN S-102 Report # : 3-48801-1-V1 **Test Date** : 8/30/2022 Client : Trevira GmbH Operator : Jillian Guillem **Details of Preparation** : The test sample consisted of three 2,438 mm sections butted end to end to make the 7,315 mm length. The sample was laid along the tunnel floor. Observations : No unusual observations

Specimen 1 Specimen 2 Specimen 3 Area Under Flame Curve (m min) 9.1 13.4 14.3 **Flame Spread Value** 16.8 24.9 26.5 Ignition Time (mm:ss) 01:18 01:20 00:00 Area Under Smoke Curve (%A min) 109.5 131.9 139.1 Smoke Developed Value 204.6 246.6 260.1 Total Gas Flow (L) 1608.1 1607.4 1608.0 Maximum Flame Front Achieved (m) 1.2 @ 355s 1.6 @ 115s 1.7 @ 150s

Flame Spread Rating		25
Smoke Developed Classification	3	235

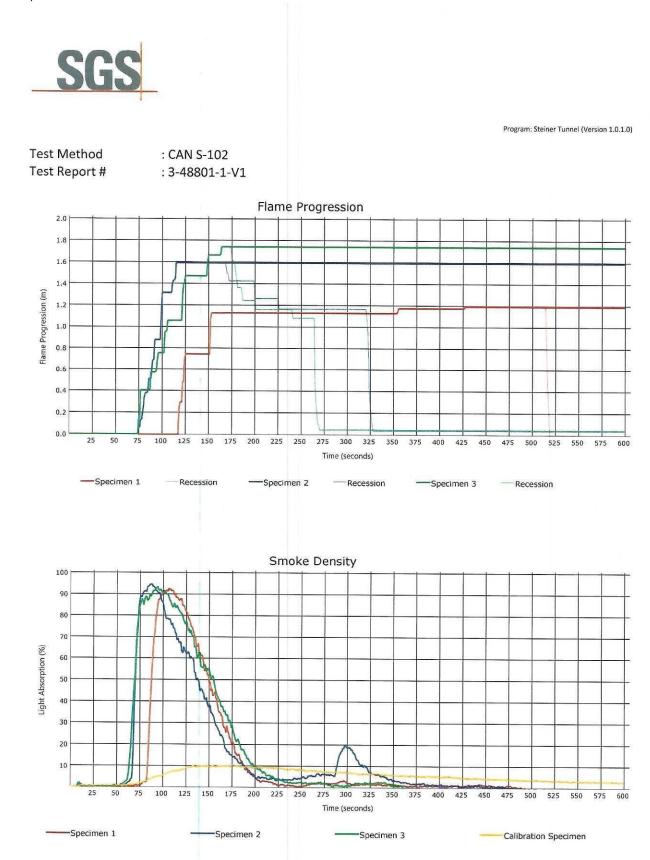
CERTIFICATION : I certify that the above results were obtained after testing the specimens in accordance with the procedures and equipment specified by CAN S-102

Jillian Guillem

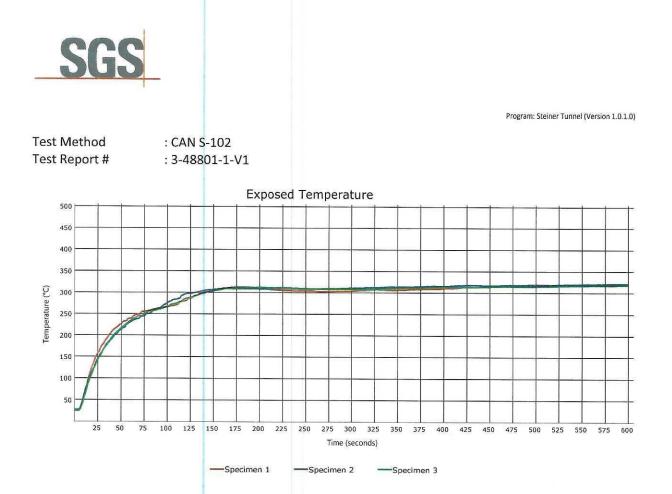
AUTHORIZED SIGNATURE

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Program: Steiner Tunnel (Version 1.0.1.0)



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