Doo

Tested For:					
resteu For.	Lone Henriksen	Phone:	011 45 89 53 18 60	Received:	2/13/2023
	Kvadrat A/S	Fax:		Completed:	2/21/2023
	Lundbergsvej 10 DK-8400 Ebeltoft	Mobile:		Code:	К2
	Denmark	PO#: Email:	06164621 lh@kvadrat.dk	Test Report:	3-50499-2
		Email:	III@KVdulat.uk		
(ey Test:	CAN/ULC-S102				
Client's Ident					
	n 2 - Item 600689. Composition: 1009 -3mm. Product End Use: Upholstery/C		Width: 140cm /55 inches. F	inish: None. Weight: A	pp. 510g/m².
_E: 2018 V 02	/23 BG PC: ME	CODE: I=15	520 F=3230 CLEAN=1105 /dv		
	FORMED: CAN/ULC-S102-18 - Stand Assemblies	andard Meth	od of Test for Surface Bu	rning Characteristics	of Building
TEST CON	DUCTED:				
⊠ Indicativ ⊒ Formal	e				
PRODUCT	CATEGORY: □ Composite Panel ⊠ Textile Type Proc □ Vinyl Type Produ	duct			
materials u Spread Val	SCRIPTION OF TEST METHOD: T nder specific test conditions. Resul ue (FSV) and Smoke Developed V produce average values expressed	ts of less tha alue (SDV).	n three identical specime Results of three or more i	ns are expressed in t eplicate tests on ider	erms of Flar htical
	OF TEST PROCEDURE: The tun		ports, and allowed to coc	l to 40°C, as measur	
hermocoup backwall-er sample is p owered. Up spread dista lame sprea area under Smoke Dev	ble located 7090 mm downstream of mbedded thermocouple located 400 laced along the ledges of the tunne bon ignition of the gas burners, the ance versus time is plotted, ignorin ad characteristics of select red oak, the curve (AT) is less than or equa reloped Value is determined by cor- binforced cement board and red oa	el so as to fo flame spread g any flame determined al to 29.7 m ² r nparing the a	rm a continuous ceiling al d distance is observed an front recessions. Calculat in calibration trials and ar min, FSV=1.85 [.] AT; if gre- area under the obscuratio	bove the floor and the d recorded every sec ions are based on co bitrarily established a ater, FSV=1640/(59.4 n curve for the test sa	, and the tes en the lid is cond. Flame mparison wi is 100. If the I-AT). The
hermocoup backwall-er sample is p owered. Up spread dista lame sprea area under Smoke Dev	nbedded thermocouple located 400 laced along the ledges of the tunne oon ignition of the gas burners, the ance versus time is plotted, ignorin ad characteristics of select red oak, the curve (AT) is less than or equa veloped Value is determined by cor	el so as to fo flame spread g any flame determined al to 29.7 m ² r nparing the a	rm a continuous ceiling al d distance is observed an front recessions. Calculat in calibration trials and ar min, FSV=1.85 [.] AT; if gre area under the obscuratio d as 0 and 100, respectiv	bove the floor and the d recorded every sec ions are based on co bitrarily established a ater, FSV=1640/(59.4 n curve for the test sa	, and the tes en the lid is cond. Flame mparison wi is 100. If the I-AT). The

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ested For:	Lone Henriksen		Phone:	011 45 89 53 18 6	50	Received:	2/13/2023	
esteu For.	Kvadrat A/S		Fax:	011 45 85 55 18 (Completed:	2/13/2023	
		DK-8400 Ebeltoft	Mobile:			Code:	K2	
	Denmark		PO#:	06164621		Test Report:	3-50499-2	
			Email:	lh@kvadrat.dk				
(ey Test:	CAN/ULC-S102							15
SAMPLE P	REPARATION:							
butte	d together to fo	ed of two sections of r orm the requisite spec d cement board subst	imen lengt					
🗆 Adhe	ered to IRC: The	e test specimen was t	ponded to 1	¼" Inorganic Re	inforced Cement (IRC) boards.		
🗆 Adhe	ered to Gypsum	: The test specimen v	was bonded	d to 5/8" thick T	ype X gypsum boa	ard.		
⊠ Othe	•	cimen was laid over a ed of three 2,438 mm	-			s. The 7,314	mm specim	ner
ADHESIVE	(applied by SG	S North America): 🗵	〗No □ Yes – spo	ecify:				
REPORTE	D AS:							
	CATIVE (Single	e Specimen Test):						
	e Spread Value ke Developed V	e (FSV): 6.0 /alue (SDV): 239.7						
	MAL (Average	Value of three replica	te tests rou	unded to the nea	arest multiple of fiv	ve points):		
	ie Spread Ratir ke Developed (ng (FSR): Classification (SDC):						
RESULTS:								
Speci	imen #	Flame Spread Value		Developed /alue	Burn Distance (meters)	(\$	Time seconds)	
	1	6.0	2	239.7	0.3		00:33	
	2	NT		NT	NT		NT	

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	D: 37CC6D0F-1B0F-4ADC-A697-9D86BD8E80	208				
Tested For:	Lone Henriksen Kvadrat A/S Lundbergsvej 10 DK-8400 Ebeltoft Denmark	Phone: Fax: Mobile: PO#: Email:	011 45 89 53 18 60 06164621 Ih@kvadrat.dk	Received: Completed: Code: Test Report:	2/13/2023 2/21/2023 K2 3-50499-2	
Key Test:	CAN/ULC-S102					1520
2. NT 3. NT REMARKS: CERTIFICA procedures <i>Bolly</i> B50EB941 AUTHORIZ SGS NORT /ab/gb	INT = Not tested TION: I certify that the above results and equipment specified above.	-		ccordance wit	th the	
JT		/er. 2021-03-(09 10:35		Page	e 3 of 3
	ined in this report relate only to the item(s) tested. Th s issued by the Company subject to its Genera					erica.

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Program: Steiner Tunnel (Version 1.0.1.0)

Test Method	: CAN S-102
Report #	: 3-50499-2
Test Date	: 2/21/2023
Client	: Kvadrat A/S
Operator	: John Tighe
Details of Preparation	: Three 8' x 24" pieces butted end to end laid over chicken wire and rods
Observations	: dripping pooled on floor and burned on tunnel floor

	Specimen 1
Area Under Flame Curve (m min)	3.2
Flame Spread Value	6.0
Ignition Time (mm:ss)	00:13
Area Under Smoke Curve (%A min)	128.2
Smoke Developed Value	239.7
Total Gas Flow (L)	1608.2
Maximum Flame Front Achieved (m)	0.3 @ 33s

Flame Spread Rating	:	5
Smoke Developed Classification	;	240

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

John Tighe

AUTHORIZED SIGNATURE



Test Method: CAN S-102Test Report #: 3-50499-2

Flame Progression 0.50 0.45 0.40 0.35 Flame Progression (m) 0.30 0.25 0.20 0.15 0.10 0.05 0.00 25 50 75 100 125 150 175 200 225 250 275 300 325 350 375 400 425 450 475 500 525 550 575 600 Time (seconds)

.



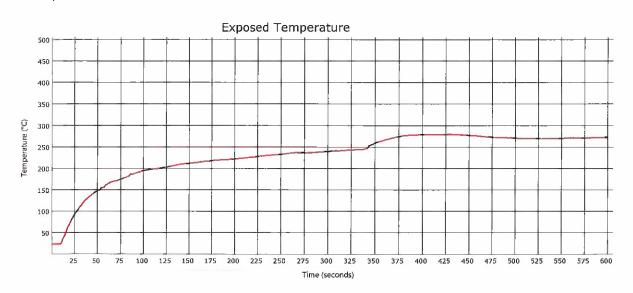
Smoke Density 100 90 80 70 Light Absorption (%) 60 50 40 30 20 10 25 50 75 100 125 150 175 200 225 250 275 300 325 350 375 400 425 450 475 500 525 550 575 600 Time (seconds) -Specimen 1

96D Allen Blvd. | Farmingdale, NY 11735 | (631) 293-8944 | www.govmark.com

Program: Steiner Tunnel (Version 1.0.1.0)



Test Method : CAN S-102 Test Report # : 3-50499-2



Program: Steiner Tunnel (Version 1.0.1.0)

Docu

Tested For:	Lone Henriksen Kvadrat A/S Lundbergsvej 10 DK-8400 Ebeltoft Denmark	Phone: Fax: Mobile: PO#: Email:	011 45 89 53 18 60 06164621 Ih@kvadrat.dk	Received: Completed: Code: Test Report:	2/13/2023 2/22/2023 K3 3-50499-3
Key Test:	CAN/ULC-S102.2				33
Client's identi					
	on 2 - Item 600689. Composition 2-3mm. Product End Use: Uphol		Width: 140cm /55 inches. F	inish: None. Weight: A	App. 510g/m².
LE: 2018 V 02	2/23 BG PC: ME	CODE: I=13	375 F=2925 CLEAN=1000	/rb /dv	
	FORMED: CAN/ULC-S102.2 pring and Miscellaneous Mate		thod of Test for Surface B	urning Characteristi	cs of Flooring,
TEST CON	NDUCTED:				
□ Indic ⊠ Form					
PRODUCT	CATEGORY: □ Composite ⊠ Textile Type □ Vinyl Type	e Product			
materials u Spread Val	SCRIPTION OF TEST METH inder specific test conditions. lue (FSV) and Smoke Develo produce average values exp	Results of less tha ped Value (SDV).	n three identical specime Results of three or more r	ns are expressed in eplicate tests on ide	terms of Flame ntical
thermocoup backwall-en sample is p ignition of t versus time characteris curve (AT) Value is de	Y OF TEST PROCEDURE: The ple located 7090 mm downstre mbedded thermocouple locate blaced along the floor of the tu- the gas burners, the flame spin e is plotted, ignoring any flame stics of select red oak, determ is less than or equal to 29.7 re- termined by comparing the a cement board and red oak, est	eam of the burner ed 4000 mm from unnel so as to form read distance is ob e front recessions. ined in calibration m ² min, FSV=1.85 rea under the obsc	ports, and allowed to coo the burners. At this time th a continuous surface and served and recorded even Calculations are based o trials and arbitrarily establ AT; if greater, FSV=1640 curation curve for the test	I to 40°C, as measu the tunnel lid is raised then the lid is lowe ry second. Flame sp n comparison with fl ished as 100. If the /(59.4-AT). The Smo	red by the d, and the test red. Upon read distance ame spread area under the bke Developed
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sted For:	Lone Henriksen Kvadrat A/S Lundbergsvej 10 DK- Denmark	8400 Ebeltoft	Phone: Fax: Mobile: P0#: Email:	011 45 89 53 18 0 06164621 Ih@kvadrat.dk	50	Received: Completed: Code: Test Report:	2/13/2023 2/22/2023 K3 3-50499-3
y Test:	CAN/ULC-S102.2						
AMPLE P	REPARATION:						
butte	•	n the requisite sp	becimen lengt		ately 445 mm in wi en was free laid (n	•	-
🗆 Adh	ered to IRC: The t	est specimen wa	as bonded to ?	¼" Inorganic Re	einforced Cement	(IRC) boards	.
□ Adh	ered to Gypsum:	The test specime	en was bonded	d to 5/8" thick T	ype X gypsum bo	ard.	
□ Othe	er:						
EPORTE	: (applied by SGS D AS:	North America).	☐ Yes - spe	ecify			
	CATIVE (Single S	Specimen Test):					
	ne Spread Value (ke Developed Va						
	MAL (Average Va	alue of three repl	icate tests):				
	ne Spread Rating ske Developed Cla	· /					
Specim	en # Fla	me Spread Value	Smoke D Val		Burn Distance (meters)		Time (seconds)
1		9.1	236		0.8		07:11
2		9.7	222		0.8		06:44
3		8.8	327	7.4	0.8		03:21
			Ver. 2021-03-0	9 10:35			Pag
							1 48

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SGS							
Tested For:	Lone Henriksen Kvadrat A/S Lundbergsvej 10 DK-84(Denmark	00 Ebeltoft	Phone: Fax: Mobile: PO#: Email:	011 45 89 53 18 60 06164621 Ih@kvadrat.dk	Received: Completed: Code: Test Report:	2/13/2023 2/22/2023 K3 3-50499-3	
Key Test:	CAN/ULC-S102.2						33
2. No u	TIONS: nusual observations nusual observations nusual observations						
REMARKS	: None.						
ACCEPTAI	NCE CRITERIA: Nor	ne cited.					
CONCLUS	ION: Not applicable.						
Docusi Bolly B50EBG	ATION: I certify that t and equipment spe gned by: (Brown 4D593C454 ED SIGNATURE TH AMERICA		were obta	ined after testing specim	nens in accordance w	ith the	
Enclosure:	Graphs				Ø]	

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Page 3 of 3

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Program: Steiner Tunnel (Version 1.0.1.0)

lest Method	: CAN S-102
Report #	: 350499-3-k3
Test Date	: 2/22/2023
Client	: Kvadrat A/S
Operator	: John Tighe
Details of Preparation	: The sample consisted of two sections of materials, each
	aproximately 445mm in width by 3658mm in length butted
	together to form the requisite legnth. the specimen was fre laid
	(no adhesive) on top of a 6mm fiberglass reinforced cement
	board substrate.

CANLC 100

Observations

Task Mashles al

: No unusual observations.

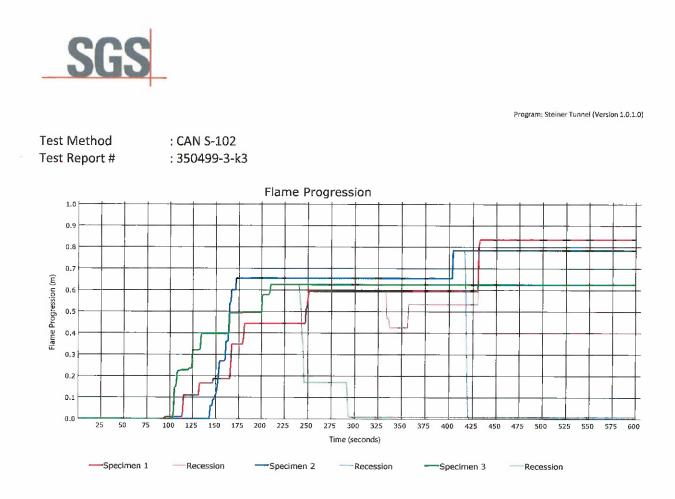
	Specimen 1	Specimen 2	Specimen 3
Area Under Flame Curve (m min)	4.9	5.2	4.8
Flame Spread Value	9.1	9.7	8.8
Ignition Time (mm:ss)	01:33	02:04	01:32
Area Under Smoke Curve (%A min)	126.3	119.0	175.1
Smoke Developed Value	236.2	222.5	327.4
Total Gas Flow (L)	1608.2	1608.2	1605.9
Maximum Flame Front Achieved (m)	0.8 @ 431s	0.8 @ 404s	0.6 @ 201s

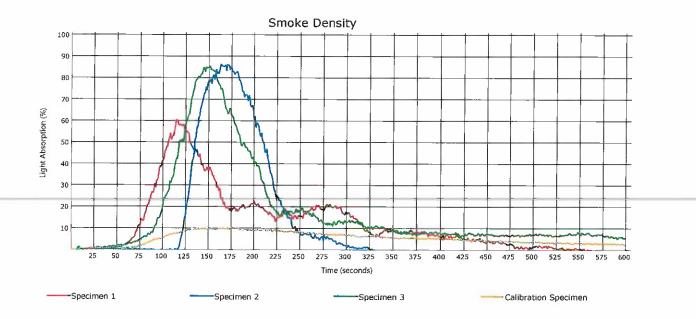
Flame Spread Rating	:	10
Smoke Developed Classification	:	260

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

John Tighe

AUTHORIZED SIGNATURE





: CAN S-102



Test Method

Program: Steiner Tunnel (Version 1.0.1.0)

