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Fested For:	Bente Ellingsoe Gabriel A/S Hjulmagervej 55, DK-9000 Aalborg Denmark	Phone: Fax: Mobile: PO#: Email:	+45 2926 3066 bea@gabriel.dk	Received: Completed: Code: Test Report:	12/18/2023 12/20/2023 F 3-54177-0
Key Test:	ASTM E84/ACT				(
Client's Identi					
Fest Category	: Tunnel Test Specifier: /	ACT LE 2023c; V 12/23	3 BG PC: ME		
TEST PERI 2018a; V 9/	FORMED: ASTM E84 - S '18]	tandard Test Method f	or Surface Burning Ch	naracteristics of Building	Materials [LE
As cited	by the Association of Co	ntract Textiles (ACT) \	Voluntary Performance	e Guidelines (December	2021)
APPROXIM	IATE THICKNESS OF SF	PECIMEN (as measure	ed by SGS North Ame	rica): 0.042"	
SPECIMEN	I WEIGHT (to include sub	strate when applicable	e):		
Prior to	Conditioning:	1.5 lbs	S.		
Stabilize	ed Weight (taken twice wi	thin 24 hours): 1.5 lbs	5.		
PRODUCT	CATEGORY:				
🗆 Vinyl	le Type Product Type Product r than Textile Type or Vin	yl Type Product:			
	SCRIPTION OF TEST: Th t conditions. The test is pe ". The test contemplates a	erformed in a 25 ft. long	g tunnel/duct-like appa	aratus and is often refer	red to as the

test. The near face of the specimen is subjected to a 4.5 ft. flame insult of approximately 88 kW for ten minutes. The time and distance of the spread of flame along the length of the specimen and the smoke developed as read by the photometric system are all recorded. The Flame Spread and Smoke Developed are reported as an Index.

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Tested For:	Bente Ellingsoe Gabriel A/S Hjulmagervej 55, DK-9000 Aalborg Denmark	Phone: Fax: Mobile: PO#: Email:	+45 2926 3066 bea@gabriel.dk	Received: Completed: Code: Test Report:	12/18/2023 12/20/2023 F 3-54177-0
Key Test:	ASTM E84/ACT				63
SPECIMEN	I MOUNTING:				
addit	supporting: The test specim tional support was required.				
	ered to IRC: The test specim		-		
🗆 Adhe	ered to Gypsum: The test sp	becimen was adhere	d to ⁵ /8" thick Type X	gypsum board.	
	dhered: The specimen was en and ¼" rods.	not adhered to any s	substrate. Instead, it v	vas laid over a 2" hexago	onal wire mesh
□ Othe	r:				
structurally supports. E additional s (1) Pric effe (2) Dur spe	DN: 3.2.1.1: Self-supporting capable of supporting their xamples of self-supporting s upporting elements: or to and during the test, the ect of the burner flame. ring the test, the specimen of ecimen may still be consider g as this behavior does not	own weight prior to specimen behavior i e specimen stays in does not interrupt the ed self-supporting if	the test and during th nclude the ability to d its position to such ar e progression of the f it sags during the tes	e test without the use of o the following without th n extent that it does not ir lame front along the spec st or if debris falls from th	additional le use of nterfere with the cimen. A
SPECIMEN	I LENGTH: The 24 ft. length	was comprised of:			
□ Cont ⊠ Sect	Three 8 ft. sectio	ns butted end to end ns positively joined e 4 ft. sections butte			
ADHESIVE	(applied by SGS North Am	•	cify):		
JR		Ver. 2021-03-0	9 10:35		Page 2 of
	ained in this report relate only to the ite				
http://www.sgs.o http://www.sgs.o issues defined t	is issued by the Company subject com/en/Terms-and-Conditions.asp com/en/Terms-and-Conditions/terr herein. Any holder of this documen v and within the limits of Client's in	<u>x</u> and, for electronic form <u>ns-e-document.aspx</u> . Attent nt is advised that informa	at documents, subject to a ention is drawn to the limitation contained hereon refle	Terms and Conditions for Electration of liability, indemnification ects the Company's findings at	onic Documents a and jurisdiction the time of its

intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for a maximum of 45 days only.

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Teste	d For:	Bente Ellingsoe Gabriel A/S Hjulmagervej 55, DK-9000 Aalborg Denmark		Phone: Fax: Mobile: PO#: Email:	+45 2926 bea@gal		Received: Completed: Code: Test Report:	12/18/2023 12/20/2023 F 3-54177-0	
Key To	est:	ASTM E84/ACT							630
OBSI	ERVAT	 □ Burning □ Delamin □ Sagging □ Shrinkag □ Fallout (ation	irther qua		□ Minor; □ Moderate; g mount)	□ Major		
REM	ARKS:	⊠ None □ Other:							
RESI	ULTS:	Flame Spread Inde Smoke Developed:							
ROU	NDING	: Flame Spread In Smoke Develope				nearest multiple of 5.			
		Raw Data	Round	led					
	Less t 200 or	han 200 More	Nearest multip Nearest multip						
ACCI	EPTAN	CE CRITERIA (as cit	ted by ACT):						
L .		Flame Spread	Index Smc	ke Deve	oped				
	Class	A 0 - 25		450 or les	S				
		s A is also known as ON [.] Based on the rer				n some Codes. e Criteria, the item teste	əd:		
	⊴ Comp				oooptane				
DATA	A SUMI	MARY:							
N	/laximur	gnition (minutes:secon n Flame Spread "Dis n Flame Spread "Tim	tance" (feet):	00:20 3.3 53					
JR				/er. 2021-03-0	9 10:35			Page	e 3 of 5
The res	ults contai	ned in this report relate only t	o the item(s) tested. Th	e test report	hall not be re	produced except in full, without w	ritten approval from	m SGS North Ame	erica.
This do	cument is	s issued by the Company s	subject to its Genera	I Conditions	of Service	printed overleaf, available on nts, subject to Terms and Cor	request or acces	sible at	

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Tested For:	Bente Ellingsoe	Phone: +45 2926 3066	Received:	12/18/2023
	Gabriel A/S	Fax:	Completed:	12/20/2023
	Hjulmagervej 55,	Mobile:	Code:	F
	DK-9000 Aalborg	PO#:	Test Report:	3-54177-0
	Denmark	Email: bea@gabriel.dk		

Key Test: ASTM E84/ACT

630

CODE CLASSIFICATION: Based on the reported Results and cited Code Classification System, the item tested is assigned a:

⊠ Class I or A rating

□ Class II or B rating

□ Class III or C rating

□ Fails to achieve a minimum classification thereby rendering the product unsuitable in terms of code requirement.

□ Based on product performance*, ASTM E84 is not a suitable test method for the material.

* Severe melt, drip, delamination or other behavior that destroys the continuity of the flame front such that a valid flame spread is unobtainable (See "Remarks" on Page 2 of 4.)

CODE CLASSIFICATION SYSTEM:

	Flame Spread Index	Smoke Developed
Class I or A:	0 - 25	450 or less
Class II or B:	26 - 75	450 or less
Class III or C:	76 - 200	450 or less

LIMITATIONS OF THE ASTM E84 CLASSIFICATION SCHEME: Most building codes will accept the ASTM E84 classifications when the interior finish product is used in a sprinklered area. Certain local authorities such as NYC have more stringent requirements, i.e. Smoke Developed ranges from a maximum 25 to 100.

If the interior finish product is a textile or vinyl wall covering used in a non-sprinklered area, the NFPA 265 room corner fire test applies.

Certain products which give off excessive heat such as but not limited to cellular plastics, cellular foam (either with or without coverings as applicable), polypropylene, and high density polyethylene should be tested by NFPA 286 - Standard Methods of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth. In SGS North America's opinion, the codes require NFPA 286 for such products, even in sprinklered areas.

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Tested For:	Bente Ellingsoe Gabriel A/S Hjulmagervej 55, DK-9000 Aalborg Denmark		Phone: Fax: Mobile: PO#: Email:	+45 2926 3066 bea@gabriel.dk	Received: Completed: Code: Test Report:	12/18/2023 12/20/2023 F 3-54177-0
Key Test:	ASTM E84/ACT					6
Bobby B F7FE1AA2EEF AUTHORIZI	YOWN ERAFE ED SIGNATURE H AMERICA	12/27/2023		Test Engin	eer: Jimmy Rosinsky	

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Program: Steiner Tunnel (Version 1.0.3.0)

Test Method	: ASTM E84
Report #	: 3-54177-0-F
Test Date	: 12/20/2023
Client	: Gabriel A/S
Operator	: Jimmy Rosinsky
Details of Preparation	: The specimen was not adhered to any substrate. Instead, it was laid over a 2" hexagonal wire mesh screen and 1/4" rods. The 24 ft. length was comprised of three 8 ft. sections butted end to end.
Observations	: No unusual observations
Results	
Area Under Flame Curve (ft min)	: 31.33
Raw Flame Spread Index	: 16.14
Ignition Time (mm:ss)	: 00:20
Area Under Smoke Curve (%A min)	: 32.32
Raw Smoke Developed Index	: 40.96
Total Gas Flow (ft ³)	: 55.9
Maximum Flame Front Achieved (ft)	: 3.3 @ 53s
Flame Spread Index	: 15
Smoke Developed Index	: 40
Material Classification	: A

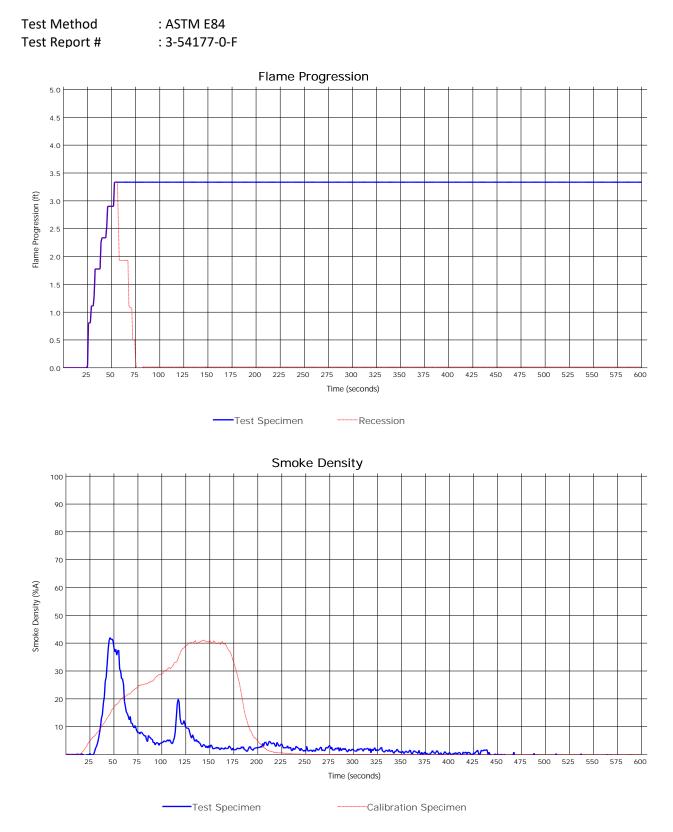
CERTIFICATION : I certify that the above results were obtained after testing the specimens in accordance with the procedures and equipment specified by ASTM E84

Jimmy Rosinsky

AUTHORIZED SIGNATURE



Program: Steiner Tunnel (Version 1.0.3.0)



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