DocuSign Envelop	e ID: 9115FF7A-2	159-46CC-987C	-5D95E848A9E2

363					
Tested For:	Bente Ellingsoe Gabriel A/S Hjulmagervej 55,	Phone: Fax: Mobile:	+45 2926 3066	Received: Completed: Code:	12/18/2023 12/20/2023 C
	DK-9000 Aalborg Denmark	PO#: Email:	bea@gabriel.dk	Test Report:	3-54174-0
(ey Test:	ASTM E84/ACT				
Client's Identi Style: Nobel	f ication: . Composition: 100% NZ Wo	ol. Weight: 800 g/lm. F	Product End Use: Screen	and panel.	
		CT LE 2023c; V 12/23	3 BG PC: ME		
	: Tunnel Test Specifier: A0 FORMED: ASTM E84 - Sta 18]			aracteristics of Building	Materials [LE
As cited	l by the Association of Con	tract Textiles (ACT) \	/oluntary Performance	e Guidelines (December	2021)
APPROXIM	IATE THICKNESS OF SPE	ECIMEN (as measure	ed by SGS North Ame	ica): 0.091"	
SPECIMEN	I WEIGHT (to include subs	trate when applicable	e):		
Prior to	Conditioning:	4.8 lbs	5.		
Stabilize	ed Weight (taken twice with	nin 24 hours): 4.8 lbs	S.		
PRODUCT	CATEGORY:				
🗆 Vinyl	le Type Product Type Product r than Textile Type or Viny	Type Product:			
	CRIPTION OF TEST: This conditions. The test is per	formed in a 25 ft. long	g tunnel/duct-like appa	5	red to as 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.

n
к

Ver. 2021-03-09 10:35

test. The near face of the specimen is subjected to a 4.5 ft. flame insult of approximately 88 kW for ten minutes. The

Page 1 of 5

The results contained in this report relate only to the item(s) tested. The test report shall not be reproduced except in full, without written approval from SGS North America.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/terms-e-document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at 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.

		-987C-5D95E84	

Sign Envelope I	D: 9115EE7A-2159-46CC-987C-5D	95E848A9F2			
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 C 3-54174-0
Key Test:	ASTM E84/ACT				630
SPECIMEN	I MOUNTING:				
addit	supporting: The test specime ional support was required. ered to IRC: The test specime				
	ered to Gypsum: The test spe		-		
⊠ Unac	thered: The specimen was n en and ¼" rods.				onal wire mesh
□ Othe	r:				
structurally supports. E additional s (1) Pric effe (2) Dur spe	DN: 3.2.1.1: Self-supporting s capable of supporting their of xamples of self-supporting s upporting elements: or to and during the test, the sect of the burner flame. ring the test, the specimen do comen may still be considered g as this behavior does not in	wn weight prior to pecimen behavior i specimen stays in bes not interrupt th d self-supporting it	the test and during the nclude the ability to do its position to such an e progression of the fla it sags during the test	e test without the use of a b the following without th extent that it does not in ame front along the spec t or if debris falls from the	additional e use of terfere with the simen. A
SPECIMEN	I LENGTH: The 24 ft. length	was comprised of:			
□ Cont ⊠ Sect	inuous unbroken 24 ft. length ions: ⊠ Three 8 ft. section □ Three 8 ft. section □ Four 5 ft. and one □ Other:	is butted end to en is positively joined 4 ft. sections butte			
ADHESIVE	(applied by SGS North Ame	,	cify):		
JR		Ver. 2021-03-0	09 10:35		Page 2 of 5
	ained in this report relate only to the item			n full, without written approval fror	
This document http://www.sgs.o http://www.sgs.o issues defined t	is issued by the Company subject to com/en/Terms-and-Conditions.aspx com/en/Terms-and-Conditions/terms herein. Any holder of this document v and within the limits of Client's inst	o its General Conditions and, for electronic form <u>s-e-document.aspx</u> . Att is advised that informa	of Service printed overleaf, at documents, subject to Te ention is drawn to the limitat tion contained hereon reflect	available on request or acces erms and Conditions for Electri- tion of liability, indemnification cts the Company's findings at t	sible at onic Documents at and jurisdiction he time of its

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.

DocuSign Envelope ID: 9115EE7A-2159-46CC-987C-5D95E848A9F2

ested For:	Bente E	llingsoe		Phone:	+45 2926 3066	Received:	12/18/2023
	Gabriel	A/S		Fax:		Completed:	12/20/2023
	Hjulmag	ervej 55,		Mobile:		Code:	С
	DK-9000) Aalborg		PO#:		Test Report:	3-54174-0
	Denmar	k		Email:	bea@gabriel.dk		
ley Test:	ASTM E	84/ACT					
DBSERVA	TIONS:	 ☑ Burning D ☑ Delamina ☑ Sagging ☑ Shrinkage 	tion e pecimen displa	urther qua	lified as: ⊠ Minor; □	Moderate; 🗆 Major	
REMARKS		None Dther:					
RESULTS		e Spread Index: e Developed:	50 50				
	Smok G: Fla	e Developed:	50 ex value has b		led to the nearest mul d to:	Itiple of 5.	
	Smok G: Fla	e Developed: me Spread Indo oke Developed	50 ex value has b	en roundeo		Itiple of 5.	
	Smok G: Fla Sm Raw I s than 200	e Developed: me Spread Indo oke Developed Data	50 ex value has b value has bee Round Nearest multip	en rounded ded ble of 5		Itiple of 5.	
	Smok G: Fla Smo Raw I	e Developed: me Spread Indo oke Developed Data	50 ex value has b value has bee Roun d	en rounded ded ble of 5		Itiple of 5.	
ROUNDIN Less 200	Smok G: Fla Smo Raw I than 200 or more	e Developed: me Spread Indo oke Developed Data	50 ex value has b value has bee Roun Nearest multip Nearest multip	en rounded ded ble of 5		ltiple of 5.	
ROUNDIN Less 200	Smok G: Fla Smo Raw I than 200 or more NCE CRI	e Developed: me Spread Indo oke Developed Data	50 ex value has b value has bee Round Nearest multip Nearest multip d by ACT): ndex Smo	en rounded ded ble of 5	d to: oped	ltiple of 5.	
Clas	Smok G: Fla Smo Raw I than 200 or more NCE CR NCE CR	e Developed: me Spread Inde oke Developed Data) ITERIA (as cite Iame Spread I 0 - 25	50 ex value has be value has been Round Nearest multip Nearest multip ad by ACT): ndex Smoother	en rounded ded ble of 5 ble of 50 oke Devel 450 or les	d to: oped		
ROUNDIN Less 200 ACCEPTA Class	Smok G: Fla Smo Raw I a than 200 or more NCE CR NCE CR S A	e Developed: me Spread Inde oke Developed Data) ITERIA (as cite Iame Spread I 0 - 25 Iso known as C	50 ex value has be value has been Round Nearest multip Nearest multip d by ACT): ndex Smoother Class 1 and mat	en rounded ded ble of 5 ble of 50 oke Devel 450 or les ay be so sp	oped s	?S.	
ROUNDIN Less 200 ACCEPTA Class	Smok G: Fla Smo Raw I than 200 or more NCE CRI NCE CRI NCE CRI SION: Bas	e Developed: me Spread Inde oke Developed Data) ITERIA (as cite Iame Spread I 0 - 25 Iso known as C	50 ex value has be value has been Round Nearest multip Nearest multip d by ACT): ndex Smoother Class 1 and material orted Results a	en rounded ded ble of 5 ble of 50 oke Devel 450 or les ay be so sp	d to: oped s becified in some Code	?S.	
ROUNDIN Less 200 ACCEPTA Class NOTE: Cla CONCLUS	Smok G: Fla Smo Raw I than 200 or more NCE CR NCE CR SION: Bas SION: Bas	e Developed: me Spread Inde oke Developed Data) ITERIA (as cite Iame Spread I 0 - 25 Iso known as C sed on the repo	50 ex value has be value has been Round Nearest multip Nearest multip d by ACT): ndex Smoother Class 1 and material orted Results a	en rounded ded ble of 5 ble of 50 oke Devel 450 or les ay be so sp	d to: oped s becified in some Code	?S.	
200 ACCEPTA Class NOTE: Cla CONCLUS CONCLUS CONCLUS CONCLUS CONCLUS Time to Maxim	Smok G: Fla Smo Raw I than 200 or more NCE CR NCE CR SS A SION: Bas SION: Bas NDI Bas NMARY: D Ignition	e Developed: me Spread Inde oke Developed Data) ITERIA (as cite Iame Spread I 0 - 25 Iso known as C sed on the repo	50 ex value has be value has been Round Nearest multip Nearest multip Nearest multip d by ACT): ndex Smo Class 1 and ma orted Results a comply	en rounded ded ble of 5 ble of 50 oke Devel 450 or les ay be so sp and cited A 00:21 11.0	d to: oped s becified in some Code	?S.	

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions.terms-e-document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at 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 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.

DocuSign Envelope ID: 9115EE7A-2159-46CC-987C-5D95E848A9F2

SGS				
Tested For:	Bente Ellingsoe	Phone: +45 2926 3066	Received:	12/18/2023
	Gabriel A/S	Fax:	Completed:	12/20/2023
	Hjulmagervej 55,	Mobile:	Code:	С
	DK-9000 Aalborg	PO#:	Test Report:	3-54174-0
	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.

JR

Ver. 2021-03-09 10:35

Page 4 of 5

The results contained in this report relate only to the item(s) tested. The test report shall not be reproduced except in full, without written approval from SGS North America.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/terms-e-document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at 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 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.

DocuSign Envelope II		

SGS		6CC-987C-5D95E848A				
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 C 3-54174-0
Key Test:	ASTM E84/ACT					
DocuSigned b Bobby Br F7FE1AA2EFE AUTHORIZI	and equipment s by: YOWN E04EE ED SIGNATURE TH AMERICA	pecified above.	ults were ob	tained after testing spec Test Engir	imens in accordance neer: Jimmy Rosinsky BB	

The results contained in this report relate only to the item(s) tested. The test report shall not be reproduced except in full, without written approval from SGS North America.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/terms-e-document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at 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.



Program: Steiner Tunnel (Version 1.0.3.0)

Test Method	: ASTM E84
Report #	: 3-54174-0-C
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	: Minor burning drips to oven floor.
Results	
Area Under Flame Curve (ft min)	: 101.19
Raw Flame Spread Index	: 52.23
Ignition Time (mm:ss)	: 00:21
Area Under Smoke Curve (%A min)	: 40.65
Raw Smoke Developed Index	: 51.51
Total Gas Flow (ft ³)	: 56.0
Maximum Flame Front Achieved (ft)	: 11.0 @ 84s
Flame Spread Index	: 50
Smoke Developed Index	: 50
Material Classification	: B

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)



