Tested For: Bente Ellingsoe Phone: +45 2926 3066 Received: 12/21/2023

Gabriel A/S Fax: Completed: 12/26/2023

Hjulmagervej 55, Mobile: Code: U

DK-9000 Aalborg **PO#: Test Report:** 3-54218-0

Denmark Email: bea@gabriel.dk

Key Test: ASTM E84/ACT 630

Client's Identification:

Style: Contour/Contour Melange. Composition: 100% post-consumer recycled polyester. Weight: 490 g/lm. Product End Use: Screen and panel.

Test Category: Tunnel Test Specifier: ACT LE 2023c; V 12/23 BG PC: ME

TEST PERFORMED: ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials [LE 2018a; V 9/18] --

As cited by the Association of Contract Textiles (ACT) Voluntary Performance Guidelines (December 2021)

APPROXIMATE THICKNESS OF SPECIMEN (as measured by SGS North America): 0.04"

SPECIMEN WEIGHT (to include substrate when applicable):

Prior to Conditioning: 2.9 lbs.

Stabilized Weight (taken twice within 24 hours): 2.9 lbs.

PRODUCT CATEGORY:

🛚 Textile Type Produ	uct
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☐ Vinyl Type Product

☐ Other than Textile Type or Vinyl Type Product: _____

BRIEF DESCRIPTION OF TEST: This test method is used to determine the relative burning behavior of a material under defined test conditions. The test is performed in a 25 ft. long tunnel/duct-like apparatus and is often referred to as the "tunnel test". The test contemplates a calibration where Red Oak burns to the 24 ft. mark in 5.5 minutes \pm 15 seconds. During the actual test, a 24 ft. long x 23" wide specimen rests horizontally in a ceiling configuration inside the test chamber facing downward and toward two upward oriented burners. A furnace lid that rests in a water trough seals the chamber tight. A cement board placed on the backside of each specimen assembly protects the furnace lid during 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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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.

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Tested For:	Bente Ellingsoe	Phone:	+45 2926 3066	Received:	12/21/2023	
	Gabriel A/S	Fax:		Completed:	12/26/2023	
	Hjulmagervej 55,	Mobile:		Code:	U	
	DK-9000 Aalborg	PO#:		Test Report:	3-54218-0	
	Denmark	Email:	bea@gabriel.dk			
Key Test:	ASTM E84/ACT					630
□ Self- addi	N MOUNTING: supporting: The test specime tional support was required.	•	n to be self-supporting w	hen placed into test po	osition. No	
□ Adhe	ered to IRC: The test specinered to Gypsum: The test specimen was	pecimen was adhere	d to ⁵ /8" thick Type X gy _l	osum board.		sh
☐ Adhe	ered to Gypsum: The test sp	pecimen was adhere	d to ⁵ /8" thick Type X gy _l	osum board.		sh

SPECIMEN LENGTH: The 24 ft. length was comprised of:

□ Continuous unbroken 24 ft.	lenath
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☐ Three 8 ft. sections positively joined

 \square Four 5 ft. and one 4 ft. sections butted end to end

☐ Other:

ADHESIVE (applied by SGS North America): ⊠ No

☐ Yes (specify):

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Phone: +45 2926 3066 **Tested For: Bente Ellingsoe** Received: 12/21/2023 Gabriel A/S Completed: 12/26/2023 Fax: Hjulmagervej 55, Mobile: Code: U DK-9000 Aalborg PO#: **Test Report:** 3-54218-0 Denmark **Email:** bea@gabriel.dk **Key Test: ASTM E84/ACT** 630 **OBSERVATIONS:** □ No unusual observations ☑ Burning Drips to Floor further qualified as: ☑ Minor; ☐ Moderate; ☐ Major □ Delamination □ Sagging □ Shrinkage ☐ Fallout (specimen displacement from ceiling mount) ☐ Other: REMARKS: ⋈ None ☐ Other: RESULTS: Flame Spread Index: 5 Smoke Developed: ROUNDING: Flame Spread Index value has been rounded to the nearest multiple of 5. Smoke Developed value has been rounded to: **Raw Data** Rounded Less than 200 Nearest multiple of 5 200 or more Nearest multiple of 50 ACCEPTANCE CRITERIA (as cited by ACT): Flame Spread Index **Smoke Developed** Class A 0 - 25450 or less NOTE: Class A is also known as Class 1 and may be so specified in some Codes. CONCLUSION: Based on the reported Results and cited Acceptance Criteria, the item tested: ☐ Does not comply DATA SUMMARY: Time to Ignition (minutes:seconds): 00:07 Maximum Flame Spread "Distance" (feet): 1.1 Maximum Flame Spread "Time" (seconds): 46

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Tested For: Bente Ellingsoe Phone: +45 2926 3066 Received: 12/21/2023

Gabriel A/S Fax: Completed: 12/26/2023

Hjulmagervej 55, Mobile: Code: U

DK-9000 Aalborg **PO#: Test Report:** 3-54218-0

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 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.

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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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.

^{*} 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.)

Tested For: Bente Ellingsoe Phone: +45 2926 3066 Received: 12/21/2023

Gabriel A/S Fax: Completed: 12/26/2023

Hjulmagervej 55, Mobile: Code: U

DK-9000 Aalborg **PO#:** Test Report: 3-54218-0

Denmark Email: bea@gabriel.dk

Key Test: ASTM E84/ACT 630

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

-- DocuSigned by:

-F7FE1AA2EFE84EE...

12/28/2023

AUTHORIZED SIGNATURE SGS NORTH AMERICA

/sj /dv

Enclosure: Graphs

Test Engineer: Jimmy Rosinsky





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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.



Program: Steiner Tunnel (Version 1.0.3.0)

Test Method : ASTM E84
Report # : 3-54218-0-U
Test Date : 12/26/2023
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 that pooled and continued to

burn.

Results

Area Under Flame Curve (ft min) : 10.32

Raw Flame Spread Index : 5.31

Ignition Time (mm:ss) : 00:07

Area Under Smoke Curve (%A min) : 68.72

Raw Smoke Developed Index : 87.09

Total Gas Flow (ft³) : 56.0

Maximum Flame Front Achieved (ft) : 1.1 @ 46s

Flame Spread Index : 5
Smoke Developed Index : 85
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)

Test Method : ASTM E84
Test Report # : 3-54218-0-U



