Tested For:

Luke Russell

Camira Fabrics Ltd.

The Watermill, Wheatley Park

Mirfield, West Yorkshire, WF14 8HE, UK

Phone: Fax:

011 44 0333 032 4733

Received: Completed: 6/1/2021

Test Report:

6/9/2021

Code:

3-43920-1

D1

Mobile: PO#:

83A11951

luke.russell@camirafabrics.com

Email:

Key Test:

ASTM E84/ACT

700

Client's Identification:

Style: Craggan Flax. Color: HCRA18 Trek. Product End Use: Contract Upholstery & Vertical Surfaces. Additional Information: Batch: 465961.

Test Category: Tunnel Test

Specifier: ACT

LE 2019; V 12/19

PC: ME

dI/SM BB/mg

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 (February 2021)

APPROXIMATE THICKNESS OF SPECIMEN (as measured by SGS North America): 0.066"

SPECIMEN WEIGHT (to include substrate when applicable):

Prior to Conditioning:

112.2 lbs.

Stabilized Weight (taken twice within 24 hours): 111.6 lbs.

PRODUCT CATEGORY:

☐ Vinyl Type Product

	Other than	Textile	Type or	Vinyl	Type	Product:	
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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.

JG

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011 44 0333 032 4733 Received: **Tested For:** Luke Russell Phone: Fax: Completed: Camira Fabrics Ltd. The Watermill, Wheatley Park Mobile: Code: PO#: 83A11951 **Test Report:** Emall: luke.russell@camirafabrics.com Mirfield, West Yorkshire, WF14 8HE, UK

Key Test: ASTM E84/ACT 700

SPE	CIMEN MOUNTING:						
[☐ Self-supporting: The test specimen was rigid enough to be self-supporting when placed into test position. No additional support was required.						
[\square Adhered to IRC: The test specimen was bonded to ½" Inorganic Reinforced Cement (IRC) boards.						
Į	☑ Adhered to Gypsum: The test specimen was adhered to 5/8" thick Type X gypsum board.						
(☐ Unadhered: The specimen was not adhered to any substrate. Instead, it was laid over a 2" hexagonal wire mesh screen and ½" rods.						
[□ Other:						
SPE	CIMEN LENGTH: The 24 ft. length was comprised of:						
	□ Continuous unbroken 24 ft. length ☑ Sections: ☑ Three 8 ft. sections butted end to end □ Three 8 ft. sections positively joined □ Other:						
ADHESIVE (applied by SGS North America): □ No ☑ Yes (specify): Roman Pro 880							
OBS	SERVATIONS: No unusual observations Delamination Sagging Shrinkage Fallout (specimen displacement from ceiling mount) Other:						
REM	MARKS: ⊠ None □ Other:						

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6/1/2021

6/9/2021

3-43920-1

D1

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Received: **Tested For:** Luke Russell Phone: 011 44 0333 032 4733 6/1/2021 Camira Fabrics Ltd. Fax: Completed: 6/9/2021 The Watermill, Wheatley Park Code: Mobile: D1 PO#: 83A11951 **Test Report:** 3-43920-1 Emall: luke.russell@camirafabrics.com Mirfield, West Yorkshire, WF14 8HE, UK **Key Test: ASTM E84/ACT** RESULTS: Flame Spread Index: 25 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 Nearest multiple of 50 200 or more 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: Complies □ Does not comply DATA SUMMARY: Time to Ignition (minutes:seconds): 00:27 5.2

Maximum Flame Spread "Distance" (feet): Maximum Flame Spread "Time" (seconds): 76

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.)

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700

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700

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

Bobby Brown

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.

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

AUTHORIZED SIGNA SGS NORTH AMERICA

/jab /a/

Enclosure: Graphis

JUN 1 0 2021

Test Engineer: Jillian Guillem

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Program: ASTM E84 (Version 2.10)

Test Method Test Report # : ASTM E84 : 3-43920-1-D1

Date

: 6/9/2021

Client

: Camira Fabrics Ltd

Operator

: Jillian Guillem

Details of Preparation

: The test specimen was adhered to 5/8" thick Type X gypsum board using Roman Pro 880 adhesive. The 24 ft specimen was comprised of three 8 ft sections butted end to end.

Observations

: No unusual observations

Area Under Flame Curve (ft min) : 47.55
Raw Flame Spread Index (ft min) : 24.49
Rounded Flame Spread Index (ft min) : 25

Ignition Time

: 00:27 mm:ss

Area Under Smoke Curve (%A min)

: 7.50

Raw Smoke-Developed Index

: 6.97

 ${\bf Rounded\ Smoke-Developed\ \underline{I}ndex}$

: 1431.6

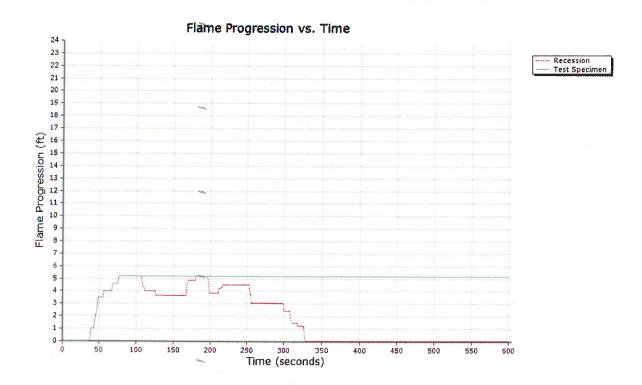
: 5

Total Gas Flow(L)
Total Gas Flow(ft³)

: 50.6

Maximum Flame Front Achieved(ft)

: 5.2 (@76s)





Program: ASTM E84 (Version 2.10)

Test Method Test Report # : ASTM E84 : 3-43920-1-D1

