

**3155 Arrange was tested and met the following flammability requirements:**

ASTM E84 Adhered Class A  
CAN/ULC-S102



**Tested For:** Teesha Prezeau  
 Designtex  
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 USA

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**Fax:**  
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**Received:** 5/24/2023  
**Completed:** 5/30/2023  
**Code:** J  
**Test Report:** 3-51710-0

**Key Test:** ASTM E84/ACT

735

**Client's Identification:**

Style: Vinyl WC 20oz. Composition: 100% Vinyl. Finish: Cotton/Polyester Osaburg. Weight: 20 oz/Lin yd Product End Use: Wallcovering.

Test Category: Tunnel Test      Specifier: ACT      LE 2023; V 3/23 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): .020"

SPECIMEN WEIGHT (to include substrate when applicable):

Prior to Conditioning: 97.2 lbs.

Stabilized Weight (taken twice within 24 hours): 96.0 lbs.

PRODUCT CATEGORY:

- Textile Type Product  
 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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**SPECIMEN MOUNTING:**

- Self-supporting: The test specimen was rigid enough to be self-supporting when placed into test position. No additional support was required.
- Adhered to IRC: The test specimen was bonded to ¼" Inorganic Reinforced Cement (IRC) boards.
- 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 ¼" rods.
- Other: \_\_\_\_\_

**SPECIMEN 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  
 Four 5 ft. and one 4 ft. sections butted end to end  
 Other: \_\_\_\_\_

**ADHESIVE** (applied by SGS North America):  No  
 Yes (specify): Roman Pro-880

**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: \_\_\_\_\_

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**RESULTS:** Flame Spread Index: 0  
 Smoke Developed: 0

**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
<b>Class A</b>	0 - 25	450 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): 02:06  
 Maximum Flame Spread "Distance" (feet): 0.8  
 Maximum Flame Spread "Time" (seconds): 437

**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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#### CODE CLASSIFICATION SYSTEM:

	Flame Spread Index	Smoke Developed
<b>Class I or A:</b>	0 - 25	450 or less
<b>Class II or B:</b>	26 - 75	450 or less
<b>Class III or C:</b>	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.

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

DocuSigned by:

*Bobby Brown*

B50EB94D593C454...

5/31/2023

AUTHORIZED SIGNATURE  
 SGS NORTH AMERICA  
 /jab /gb

Test Engineer: Chris Gangi

Enclosure: Graphs

<sup>DS</sup>  
*BB*



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Program: Steiner Tunnel (Version 1.0.3.0)

Test Method : ASTM E84  
Report # : 3-51710-0-J  
Test Date : 5/30/2023  
Client : Designtex  
Operator : Chris Gangi  
Details of Preparation : The test specimen was bonded to 1/4" IRC (Inorganic Reinforced Cement) boards. The 24 ft. length was comprised of four 5 ft. and one 4 ft. sections butted end to end.  
Observations : No unusual observations.

**Results**

Area Under Flame Curve (ft min) : 2.60  
Raw Flame Spread Index : 1.34  
Ignition Time (mm:ss) : 02:06  
Area Under Smoke Curve (%A min) : 1.40  
Raw Smoke Developed Index : 1.77  
Total Gas Flow (ft<sup>3</sup>) : 56.4  
Maximum Flame Front Achieved (ft) : 0.8 @ 437s  
**Flame Spread Index** : **0**  
**Smoke Developed Index** : **0**  
**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

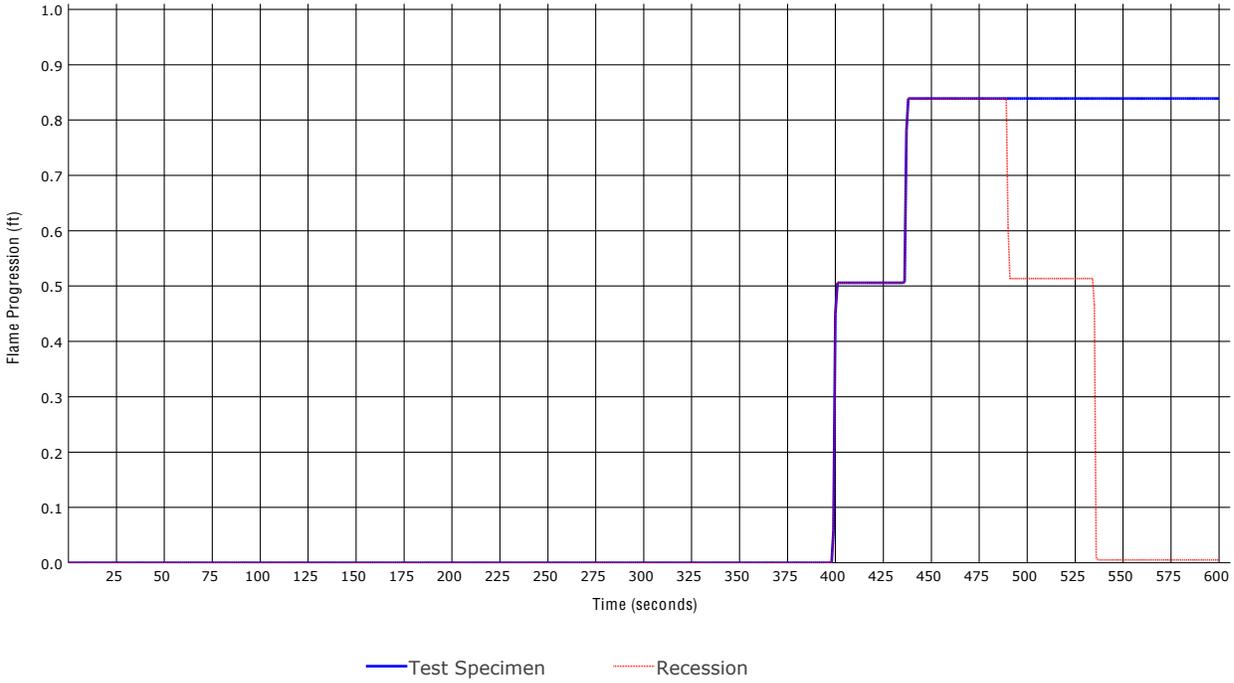
*Chris Gangi*

\_\_\_\_\_  
AUTHORIZED SIGNATURE

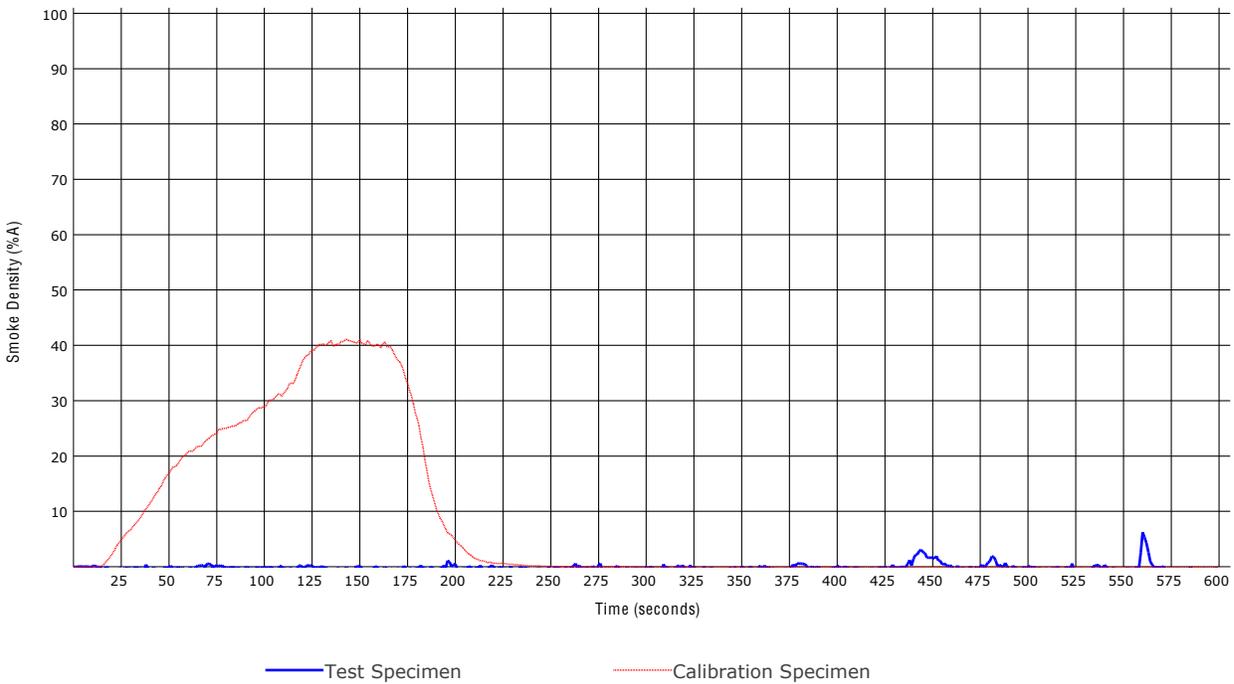


Test Method : ASTM E84  
Test Report # : 3-51710-0-J

### Flame Progression



### Smoke Density





**Tested For:** **Adity Phadnis**  
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**Received:** 4/8/2024  
**Completed:** 4/16/2024  
**Code:** L  
**Test Report:** 3-55419-0-RV

**Key Test:** CAN/ULC-S102

90

**Client's Identification:**

Style: Vinyl WC 20oz Composition 100% Vinyl. Finish: Cotton/Polyester Osnaburg. Weight: 20oz/Lin yd. Product End Use: Wallcovering.

LE: 2018 V 02/23 BG

PC: ME

CODE: I=1520 F=3230 CLEAN=1105 /dv

TEST PERFORMED: CAN/ULC-S102-18 - Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies

TEST CONDUCTED:

- Indicative  
 Formal

PRODUCT CATEGORY:  Composite Panel Material  
 Textile Type Product  
 Vinyl Type Product

**BRIEF DESCRIPTION OF TEST METHOD:** The method is designed to determine the relative burning characteristics of materials under specific test conditions. Results of less than three identical specimens are expressed in terms of Flame Spread Value (FSV) and Smoke Developed Value (SDV). Results of three or more replicate tests on identical specimens produce average values expressed as Flame Spread Rating (FSR) and Smoke Developed Classification (SDC).

**SUMMARY OF TEST PROCEDURE:** The tunnel is preheated to 85°C, as measured by the backwall-embedded thermocouple located 7090 mm downstream of the burner ports, and allowed to cool to 40°C, as measured by the backwall-embedded thermocouple located 4000 mm from the burners. At this time the tunnel lid is raised, and the test sample is placed along the ledges of the tunnel so as to form a continuous ceiling above the floor and then the lid is lowered. Upon ignition of the gas burners, the flame spread distance is observed and recorded every second. Flame spread distance versus time is plotted, ignoring any flame front recessions. Calculations are based on comparison with flame spread characteristics of select red oak, determined in calibration trials and arbitrarily established as 100. If the area under the curve (AT) is less than or equal to 29.7 m<sup>2</sup>/min, FSV=1.85· AT; if greater, FSV=1640/(59.4-AT). The Smoke Developed Value is determined by comparing the area under the obscuration curve for the test sample to that of inorganic reinforced cement board and red oak, established as 0 and 100, respectively.

CG

Ver. 2021-03-09 10:35

Page 1 of 3

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**Received:** 4/8/2024  
**Completed:** 4/16/2024  
**Code:** L  
**Test Report:** 3-55419-0-RV

**Key Test:** CAN/ULC-S102

90

**SAMPLE PREPARATION:**

- The sample consisted of two sections of materials, each approximately 445 mm in width by 3658 mm in length butted together to form the requisite specimen length. The specimen was free laid (no adhesive) on top of a 6 mm fiberglass reinforced cement board substrate.
- Adhered to IRC: The test specimen was bonded to 1/4" Inorganic Reinforced Cement (IRC) boards.
- Adhered to Gypsum: The test specimen was bonded to 5/8" thick Type X gypsum board.
- Other: \_\_\_\_\_

ADHESIVE (applied by SGS North America):  No  
 Yes – specify: Roman Pro-880

**REPORTED AS:**

INDICATIVE (Single Specimen Test):

Flame Spread Value (FSV):  
 Smoke Developed Value (SDV):

FORMAL (Average Value of three replicate tests rounded to the nearest multiple of five points):

Flame Spread Rating (FSR): 5  
 Smoke Developed Classification (SDC): 25

**RESULTS:**

Specimen #	Flame Spread Value	Smoke Developed Value	Burn Distance (meters)	Time (seconds)
1	4.1	21.5	0.2	34
2	3.6	15.6	0.2	54
3	5.6	34.1	0.3	30

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**OBSERVATIONS:**

- 1. No unusual observations
- 2. No unusual observations
- 3. No unusual observations

**REMARKS:** None.

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

Signed by:

*Branden Gallagher*

1/29/2025

BC915566495A4BD

AUTHORIZED SIGNATURE/  
SGS NORTH AMERICA  
/sj /sp

RV: 01/29/25 /bg

Enclosure: 3 Graph Chart (Formal)



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Test Method : CAN/ULC - S102  
 Report # : 3-55419-0-RV-L  
 Test Date : 4/16/2024  
 Client : Designtex  
 Operator : Chris Gangi  
 Details of Preparation : The test specimen was bonded to 1/4" Inorganic Reinforced Cement (IRC) boards using Roman Pro 880 adhesive.  
 Observations : No unusual observations

	Specimen 1	Specimen 2	Specimen 3
Area Under Flame Curve (m min)	2.2	2.0	3.0
Flame Spread Value	4.1	3.6	5.6
Ignition Time (mm:ss)	00:12	00:17	00:21
Area Under Smoke Curve (%A min)	9.2	6.7	14.6
Smoke Developed Value	21.5	15.6	34.1
Total Gas Flow (L)	1596.0	1596.0	1596.0
Maximum Flame Front Achieved (m)	0.2 @ 34s	0.2 @ 54s	0.3 @ 30s

**Flame Spread Rating** : 5  
**Smoke Developed Classification** : 25

CERTIFICATION : I certify that the above results were obtained after testing the specimens in accordance with the procedures and equipment specified by CAN/ULC - S102

*Chris Gangi*

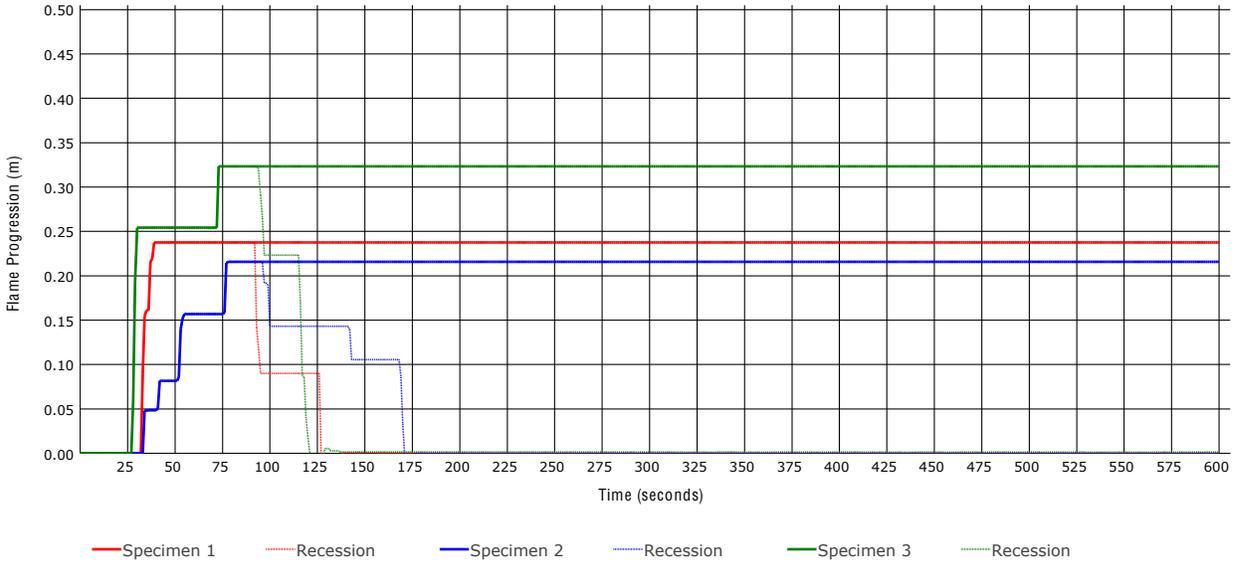
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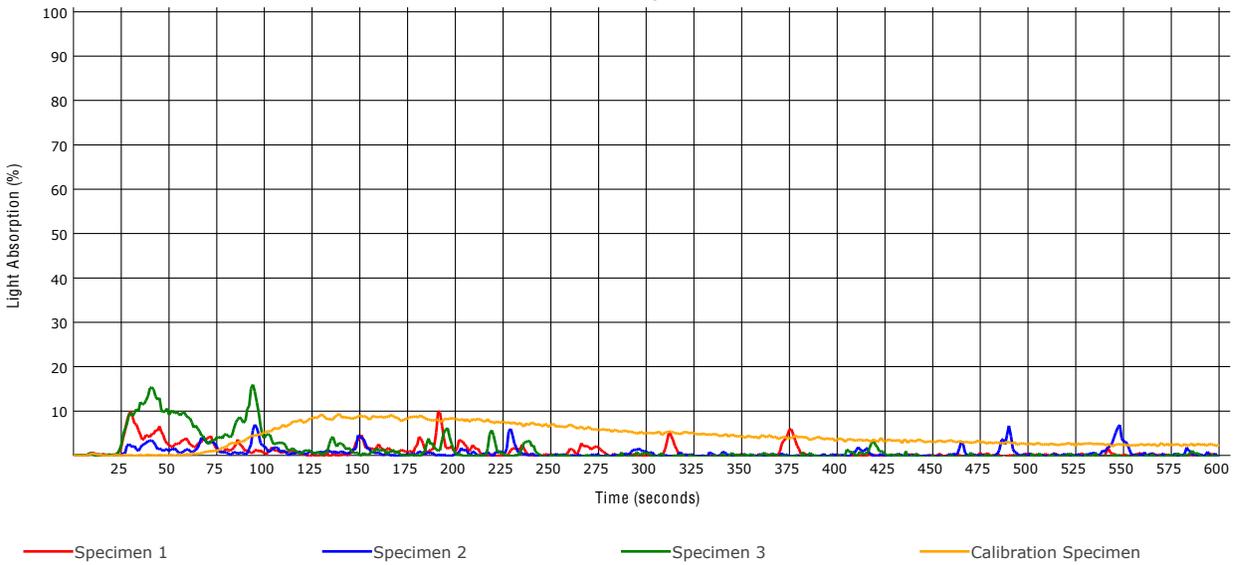


Test Method : CAN/ULC - S102  
Test Report # : 3-55419-0-L

### Flame Progression



### Smoke Density





Test Method : CAN/ULC - S102  
Test Report # : 3-55419-0-L

