



<b>Tested For:</b>	<b>Ralph Webdale</b>	<b>Phone:</b> (203) 994-8788	<b>Received:</b> 10/22/2024
	Chestnut Springs, LLC	<b>Fax:</b>	<b>Completed:</b> 10/29/2024
	277 Silver Spring Road	<b>Mobile:</b>	<b>Code:</b> K
	Ridgefield, CT 06877	<b>PO#:</b>	<b>Test Report:</b> 3-57887-0
	USA	<b>Email:</b> ralph@aftechusa.com	

**Key Test:** ASTM E2768 , ASTM E84 (Extended)

2930

**Client's Identification:**

Product Description: Paint for OSB substrate application. Color: White. Thickness: 1/2 inch. Product End Use: Fire Retardant Paint.

Test Category: Tunnel Test      ASTM E84: LE 2024; V 08/24 BG; ASTM E2768: LE 2011(18); V 08/24      PC: ME 73.4±5°F 50%±5% RH

**TEST PERFORMED:** ASTM E2768 - Standard Test Method for Extended Duration Surface Burning Characteristics of Building Materials

The ASTM E2768 test is conducted using the same equipment, apparatus, recording devices, calibration, and calculation of flame spread index and smoke developed index as the ASTM E84 test. The only difference is that the ASTM E2768 test is extended for an additional 20 minutes (30 minutes total) and the maximum distance of surface flame spread is measured (from the centerline of the burner outward) during the 30-minute test.

ASTM E2768 REFERS TO: ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials

APPROXIMATE THICKNESS OF SPECIMEN (as measured by SGS NORTH AMERICA): 0.478"

SPECIMEN WEIGHT (to include substrate when applicable):

Prior to Conditioning: 81.0 lbs.  
Stabilized Weight (taken twice within 24 hours): 81.0 lbs.

PRODUCT CATEGORY:  Textile Type Product  
 Vinyl Type Product  
 Other than Textile Type or Vinyl Type Product: See "Client's Identification" section above

ALL SPECIMEN SURFACES ARE HOMOGENOUS AND SYMETRICAL ABOUT THE LONGITUDINAL AXIS:

YES;  NO (describe surface tested): \_\_\_\_\_

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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: Paint, applied by client, to 1/2 inch thick OSB. Tested as Self-supporting.

**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
  - Other: \_\_\_\_\_

**ADHESIVE** (applied by SGS North America):  No;  Yes - (specify): \_\_\_\_\_

**OBSERVATIONS:**

- No unusual observations
- Burning Drips to Floor further qualified as:  Minor;  Moderate;  Major
- Delamination
- Sagging
- Shrinkage
- Fallout (specimen displacement from ceiling mount)
- Other: \_\_\_\_\_

JR

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**Key Test:** ASTM E2768 , ASTM E84 (Extended) 2930

REMARKS:

- None
- Other: \_\_\_\_\_

RESULTS TO ASTM E84 (10 minute):

Flame Spread Index: 5  
Smoke Developed: 60

ROUNDING (As Per ASTM E84 Reporting Requirements):

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

CONCLUSION: Based on the reported Results and cited Code Classification System, for the ASTM E84 ten-minute portion of the ASTM E2768 test, 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 behaviour that destroys the continuity of the flame front such that a valid flame spread is unobtainable (See "Remarks")

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**DATA SUMMARY:**

Time to Ignition (minutes:seconds): 04:07  
 Maximum Flame Spread "Distance" (feet): 3.1  
 Maximum Flame Spread "Time" (seconds): 425

**CODE CLASSIFICATION SYSTEM (Please see "ASTM E84 Limitations"):**

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

**BUILDING CODE CITATION FOR THE CLASSIFICATION SCHEME:**

- (1) 2015 edition, NFPA 101 Life Safety Code, para. 10.2.3.4
- (2) 2015 edition, NFPA 5000 Building Construction & Safety Code, para. 10.4.2
- (3) 2018 edition, International Building Code, para. 803.1.2

**RESULTS TO ASTM E2768 (30 minutes):**

30 minute maximum Flame Travel distance (from centerline of burner): 18.7 ft.  
 10 minute Flame Spread Index: 5  
 10 minute Smoke Index (optional): 60

**CLASSIFICATION:** The following conditions of classification are cited as requirements for "meeting the conditions of classification of ASTM E2768" (\* Note: the conclusion applies to that surface tested only unless all surfaces are homogenous and symetrical about their longitudinal axis):

1. Flame spread of 25 or less during the 10-minute test period.
2. The flame front shall not progress more than 10.5 ft (3.2 m) beyond the centerline of the burners during the 30-minute test.
3. No Significant Progressive Combustion (defined as flame progression no greater than 10.5 ft)
4. Smoke (no requirements cited, and this component of the test is optional)

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CONCLUSION: Based on the above Results and cited Classification Criteria, the item tested:

- Complies for all surfaces of the product
- Complies for that surface tested only as the specimen was not symmetrical and homogenous about its longitudinal axis
- Does not comply

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

DocuSigned by:  
 11/8/2024  
F7FE1A32EFEB4EE...  
 AUTHORIZED SIGNATURE  
 SGS NORTH AMERICA  
 /jg /jo

Test Engineer: Jimmy Rosinsky

DS  


Enclosure: Graphs



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Program: Steiner Tunnel (Version 1.0.3.0)

Test Method : ASTM E84  
Report # : 3-57887-0-K  
Test Date : 10/29/2024  
Client : Chestnut Springs, LLC  
Operator : Jimmy Rosinsky  
Details of Preparation : Paint applied by client to 1/2" thick OSB. Tested as self-supporting. 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) : 11.97  
Raw Flame Spread Index : 6.16  
Ignition Time (mm:ss) : 04:07  
Area Under Smoke Curve (%A min) : 43.05  
Raw Smoke Developed Index : 59.56  
Total Gas Flow (ft<sup>3</sup>) : 56.1  
Maximum Flame Front Achieved (ft) : 3.1 @ 425s  
**Flame Spread Index : 5**  
**Smoke Developed Index : 60**  
**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

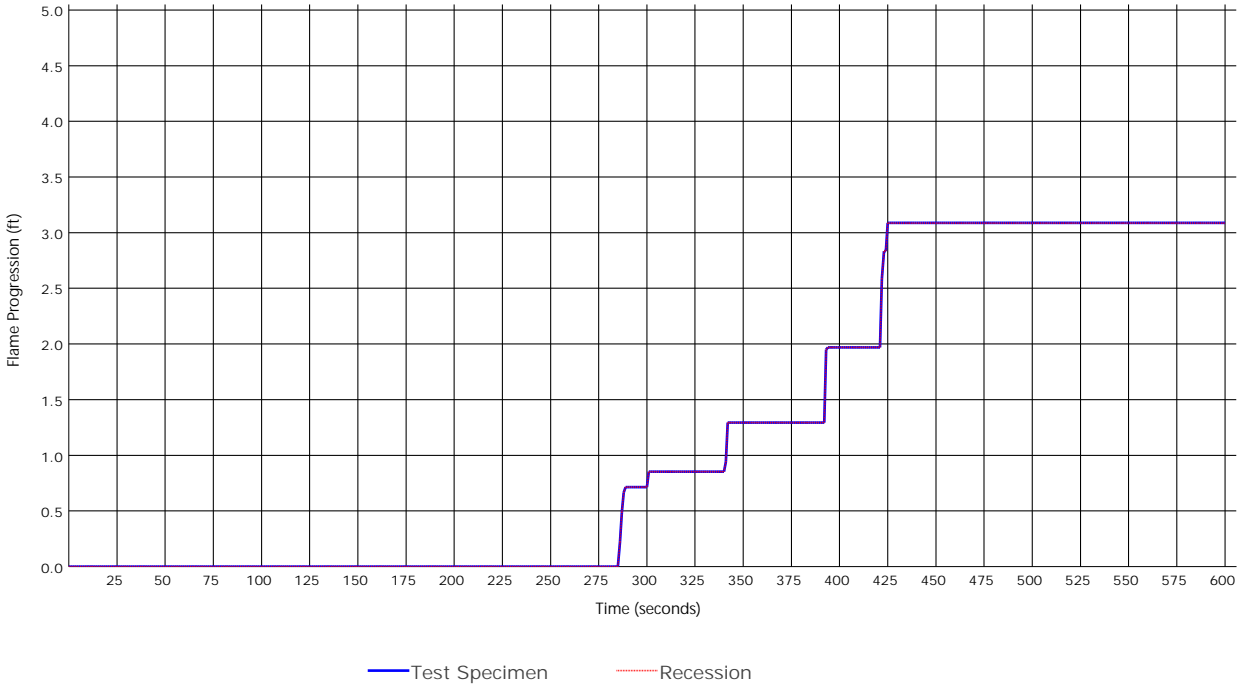
*Jimmy Rosinsky*

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



Test Method : ASTM E84  
Test Report # : 3-57887-0-K

### Flame Progression



### Smoke Density

