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|--------------------|-------------------------------|----------------|------------------------------|---------------------|----------------------|
| <b>Tested For:</b> | <b>Stephen Scala</b>          | <b>Phone:</b>  | <b>(646) 287-4545</b>        | <b>Received:</b>    | <b>5/21/2025</b>     |
|                    | <b>Chestnut Springs, LLC</b>  | <b>Fax:</b>    |                              | <b>Completed:</b>   | <b>5/28/2025</b>     |
|                    | <b>277 Silver Spring Road</b> | <b>Mobile:</b> |                              | <b>Code:</b>        | <b>C</b>             |
|                    | <b>Ridgefield, CT 06877</b>   | <b>PO#:</b>    |                              | <b>Test Report:</b> | <b>3-59474-0-RV1</b> |
|                    | <b>USA</b>                    | <b>Email:</b>  | <b>stephen@aftechusa.com</b> |                     |                      |

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

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**Client's Identification:**

Style: Siding. Finish: Grey intumescent coating. Sherwin Williams Exterior Emerald white topcoat. Composition: Cedar. Color: White. Thickness: 3/4" Product End Use: home siding.

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): 0.739"

SPECIMEN WEIGHT (to include substrate when applicable):

|                                                  |           |
|--------------------------------------------------|-----------|
| Prior to Conditioning:                           | 87.8 lbs. |
| Stabilized Weight (taken twice within 24 hours): | 86.8 lbs. |

PRODUCT CATEGORY: ☐ Textile Type Product  
☐ Vinyl Type Product  
☒ Other than Textile Type or Vinyl Type Product: see client's Identification section above

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

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

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

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
  - ☐ 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: Flaming on the floor

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Ver. 2021-03-09 10:35

Page 2 of 5

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| <b>Tested For:</b> <b>Stephen Scala</b><br><b>Chestnut Springs, LLC</b><br><b>277 Silver Spring Road</b><br><b>Ridgefield, CT 06877</b><br><b>USA</b> | <b>Phone:</b> (646) 287-4545<br><b>Fax:</b><br><b>Mobile:</b><br><b>PO#:</b><br><b>Email:</b> stephen@aftechusa.com | <b>Received:</b> 5/21/2025<br><b>Completed:</b> 5/28/2025<br><b>Code:</b> C<br><b>Test Report:</b> 3-59474-0-RV1 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|

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

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**REMARKS:**

- ☒ None  
☐ Other: \_\_\_\_\_

**RESULTS TO ASTM E84 (10 minute):**

Flame Spread Index: 10  
 Smoke Developed: 5

**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 behavior that destroys the continuity of the flame front such that a valid flame spread is unobtainable (See "Remarks")

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|                    | <b>Ridgefield, CT 06877</b>   | <b>PO#:</b>    |                              | <b>Test Report:</b> | <b>3-59474-0-RV1</b> |
|                    | <b>USA</b>                    | <b>Email:</b>  | <b>stephen@aftechusa.com</b> |                     |                      |

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

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#### DATA SUMMARY:

Time to Ignition (minutes:seconds): 00:30  
 Maximum Flame Spread "Distance" (feet): 2.1  
 Maximum Flame Spread "Time" (seconds): 61

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) 2024 edition, NFPA 101 Life Safety Code
- (2) 2024 edition, NFPA 5000 Building Construction & Safety Code
- (3) 2024 edition, International Building Code

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

30 minute maximum Flame Travel distance (from centerline of burner): 5.3 ft.  
 10 minute Flame Spread Index: 10  
 10 minute Smoke Index (optional): 5

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 symmetrical 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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Page 4 of 5

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|--------------------|--------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------|

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

0

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.

Signed by:

BC915566495A4BD...

6/3/2025

Test Engineer: Ashley Mattern  
RV: 6/3/25; bg

Initial

AUTHORIZED SIGNATURE  
SGS NORTH AMERICA  
/jo/jb

Enclosure: Graphs



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Program: Steiner Tunnel (Version 1.0.3.0)

Test Method : ASTM E84  
Report # : 3-59474-0-RV1-C  
Test Date : 5/28/2025  
Client : Chestnut Springs, LLC  
Operator : Ashley Mattern  
Details of Preparation : The test specimen was rigid enough to be self-supporting when placed into test position. No additional support was required. The 24 ft. length was comprised of three 8 ft. sections butted end to end.  
Observations : Small pieces of specimen fell to the floor resulting in burning on the tunnel floor.

**Results**

Area Under Flame Curve (ft min) : 19.29  
Raw Flame Spread Index : 9.94  
Ignition Time (mm:ss) : 00:30  
Area Under Smoke Curve (%A min) : 5.03  
Raw Smoke Developed Index : 7.21  
Total Gas Flow (ft<sup>3</sup>) : 56.5  
Maximum Flame Front Achieved (ft) : 2.1 @ 61s  
**Flame Spread Index : 10**  
**Smoke Developed Index : 5**  
**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

*Ashley Mattern*

AUTHORIZED SIGNATURE



Program: Steiner Tunnel (Version 1.0.3.0)

Test Method : ASTM E84  
Test Report # : 3-59474-0-C

