



**Tested For:**

FlameOff Coating, Inc.  
3915 Beryl Road, Suite 130  
Raleigh, NC 27607  
USA

**Phone:**

**Fax:**  
**Mobile:**  
**PO#:**  
**Email:**

**Received:** 8/11/2023**Completed:** 8/15/2023**Code:** A**Test Report:** 3-52671-0-DU**Key Test:** ASTM E2768 , ASTM E84 (Extended)

375

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: \_\_\_\_\_

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## REMARKS:

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

## RESULTS TO ASTM E84 (10 minute):

Flame Spread Index: 5  
Smoke Developed: 90

## 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): 01:15  
Maximum Flame Spread "Distance" (feet): 1.7  
Maximum Flame Spread "Time" (seconds): 226

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): 7 ft.6 in.  
10 minute Flame Spread Index: 5  
10 minute Smoke Index (optional): 90

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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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

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:

F7FE1AA2EFE84EE

AUTHORIZED SIGNATURE  
SGS NORTH AMERICA

9/19/2023

/gb /ab

DU.09.15.23 /tm

Test Engineer: Jimmy Rosinsky

DS  
BB

Enclosure: Graphs



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Program: Steiner Tunnel (Version 1.0.3.0)

Test Method : ASTM E84  
Report # : 3-52671-0-DU-A  
Test Date : 8/15/2023  
Client : FlameOff Coating, Inc.  
Operator : Jimmy Rosinsky  
Details of Preparation : The test specimen was rigid enough to be self-supporting when placed into test position. 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) : 11.67  
Raw Flame Spread Index : 6.01  
Ignition Time (mm:ss) : 01:15  
Area Under Smoke Curve (%A min) : 71.19  
Raw Smoke Developed Index : 90.22  
Total Gas Flow (ft<sup>3</sup>) : 56.9  
Maximum Flame Front Achieved (ft) : 1.7 @ 226s  
**Flame Spread Index : 5**  
**Smoke Developed Index : 90**  
**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 # : 3-52671-0-DU-A

