



CLIENT: MARLITE

1 Marlite Drive Dover, OH 44622

Test Report No: TJ3507 Date: February 16, 2016

SAMPLE ID: The client identified the following test material as "CERAMIC STEEL"

SAMPLING DETAIL: Test samples were submitted to the laboratory directly by the client. No special

sampling conditions or sample preparation were observed by QAI.

**DATE OF RECEIPT:** Samples were received at QAI facilities on February 4, 2016

**TESTING PERIOD:** February 12, 2016

**AUTHORIZATION:** Signed work order FB-2015-110202

**TEST REQUESTED:** Perform standard flame spread and smoke density developed classification tests on

the sample supplied by the Client in accordance with ASTM Designation E84-15, "Standard Method of Test for Surface Burning Characteristics of Building Materials". The foregoing test procedure is comparable to UL 723, ANSI/NFPA No. 255, and UBC

No. 8-1.

0

TEST RESULTS: Flame Spread Smoke Developed

75

**CLASSIFICATION:** The material resulted in a class "A". Detailed test results are presented in the

subsequent pages of this report.

Prepared By

Signed for and on behalf of QAI Laboratories, Inc.

Jeff Foster

Fire Test Technician

J. Brian McDonald Operations Manager



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**PREPARATION AND CONDITIONING:** The sample was submitted in three panels 8 feet long measuring 24 inches wide and approximately  $\frac{1}{4}$ " thick. The sample material was placed into conditioning at 73°F ( $\pm$ 5°F) and 50% ( $\pm$ 5%) relative humidity until day of testing.

### **E 84 TEST DATA SHEET:**

**MOUNTING METHOD:** The sample was self-supporting and the white side was exposed to the burner flames. The samples were butted end to end in the test chamber, with cement board place between the lid and sample.

CLIENT: Marlite DATE: February 16, 2016

**SAMPLE:** Ceramic Steel

IGNITION: 0 minutes, 0 seconds

FLAME FRONT: 0 feet maximum

TIME TO MAXIMUM SPREAD: 0 minutes, 00 seconds

TEST DURATION: 10 minutes, 00 seconds

**SUMMARY:** FLAME SPREAD: 0 (0.0 unrounded) SMOKE DEVELOPED: 75 (76 unrounded)

#### **OBSERVATIONS:**

Bubbling and blistering were both seen at 15 seconds. Warping could be seen a short time later at 1 minute 24 seconds. There was no sample ignition or flame spread. Duration of the ten minute test was uneventful. No afterglow was seen at the conclusion of the test.

### **CALIBRATION DATA:**

Time to Ignition of Last Red Oak (sec): 50 Red Oak Smoke Area (%A\*Min): 130.8 Total Fuel Burned (ft³) 60.49



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# **SUMMARY OF ASTM E84 RESULTS:**

Because of the possible variations in reproducibility, the results are adjusted to the nearest figure divisible by 5. Smoke Density values over 200 are rounded to the nearest figure divisible by 50.

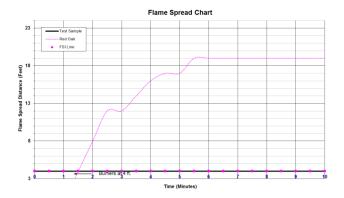
In order to obtain the Flame Spread Classification, the above results should be compared to the following table:

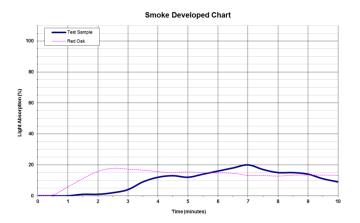
NFPA CLASS	IBC CLASS	FLAME SPREAD	SMOKE DEVELOPED
A	A	0 through 25	Less than or equal to 450
В	В	26 through 75	Less than or equal to 450
С	С	76 through 200	Less than or equal to 450

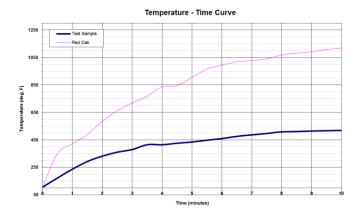
#### **BUILDING CODES CITED:**

- 1. National Fire Protection Association, ANSI/NFPA No. 101, "Life Safety Code", 2006 Edition.
- 2. International Building Code, 2006 Edition, Chapter 8, Interior Finishes, Section 803.









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# **PHOTOS: AFTER TEST IMAGES**









# \*\*\*END OF TEST REPORT\*\*\*

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