

Flammability (ASTM E84)

1. Test Standard

1.1 Test Procedure

ASTM E84-17 "Standard Method of Test for Surface Burning Characteristics of Building Materials"

1.2 Sample Preparation and Conditioning

Three pieces of 8 foot long panels measuring 24 feet long, 24 inches wide and 1/2 inch thickness were placed into fire chamber with $23\pm 3^{\circ}\text{C}$ ($73\pm 5^{\circ}\text{F}$) and $50\pm 5\%$ relative humidity until day of testing. The sample was self-supporting with the face side 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.

1.3 Flame Spread Classification

Flame Spread	Smoke Developed	Class (NFPA, IBC)
0 through 25	Less than or equal to 450	A
26 through 75	Less than or equal to 450	B
76 through 200	Less than or equal to 450	C

※ **Building Codes Cited**

- **NFPA:** National Fire Protection Association "Life Safety Code" (ANSI/NFPA No. 101)
- **IBC:** International Building Code, Interior Finishes, Section 803

2. Test Result

Flame Spread: 15

Smoke Development: 15

Classification: Class A

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