



# COMMERCIAL TESTING COMPANY

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Standard Method of Test for  
Surface Burning Characteristics of Building Materials

ASTM E 84-03b

Boomerang Saddle, HFT-1618

ABODE, BEACON, MANOR

Report Number 05-07115

Test Number 3686-6587

July 12, 2005

Majilite Corporation  
Dracut, Massachusetts

Commercial Testing Company is accredited for the ASTM E 84 test by the United States Department of Commerce, National Institute of Standards and Technology (NIST), through the National Voluntary Laboratory Accreditation Program (NVLAP) for compliance with criteria set forth in NIST Handbook 150:2001, all requirements of ISO/IEC 17025:1999, and relevant requirements of ISO 9002:1994.

Commercial Testing Company

(Authorized Signature)

*This report is provided for the exclusive use of the client to whom it is addressed. It may be used in its entirety to gain product acceptance from duly constituted authorities. The test results presented in this report apply only to the samples tested and are not necessarily indicative of apparent identical or similar materials. Sample selection and identification were provided by the client. A sampling plan, if described in the referenced test procedure, was not necessarily followed. This report, or the name of Commercial Testing Company, shall not be used under any circumstance in advertising to the general public.*

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Appendix X1 of the E 84 standard, Guide to Mounting Methods, Section X1.10.1 for Heavy Textile Materials.

### Test Sample

Identification: Boomerang Saddle, HFT-1618  
Lot Number: 132504  
Color: 3235  
Total Weight: 9.3 ounces per square yard

### TEST RESULTS

The test results, calculated on the basis of observed flame propagation and the integrated area under the recorded smoke density curve, are presented below. The Flame Spread Index obtained in E 84 is rounded to the nearest number divisible by five. Smoke Developed Indices are rounded to the nearest number divisible by five unless the Index is greater than 200. In that case, the Smoke Developed Index is rounded to the nearest 50 points. The flame spread and smoke development data are presented graphically on Page 4 of this report.

Test Specimen	Flame Spread Index	Smoke Developed Index
Fiber-Reinforced Cement Board, Grade II	0	0
Red Oak Flooring	100	100
<b>Boomerang Saddle, HFT-1618</b>	<b>15</b>	<b>5</b>

### OBSERVATIONS

Specimen ignition over the burners occurred at 0.03 minute. Surface flame spread was observed to a maximum distance of 3.30 feet beyond the zero point at 7.07 minutes. The maximum temperature recorded during the test was 636°F.

### CLASSIFICATION

The Flame Spread Index and Smoke Developed Index values obtained by ASTM E 84 tests are frequently used by code officials and regulatory agencies in the acceptance of interior finish materials for various applications. The most widely accepted classification system is described in the National Fire Protection Association publication NFPA 101 *Life Safety Code*, where:

Class A	0 - 25 Flame Spread Index	0 - 450 Smoke Developed Index
Class B	26 - 75 Flame Spread Index	0 - 450 Smoke Developed Index
Class C	76 - 200 Flame Spread Index	0 - 450 Smoke Developed Index

Class A, B, and C correspond to Type I, II, and III respectively in other codes such as SBCCI, BOCA, and ICBO. They do not preclude a material being otherwise classified by the authority of jurisdiction.

# ASTM E 84 TEST DATA

Client: Majilite Corporation  
Test Number: 3686-6587  
Material Tested: Boomerang Saddle, HFT-1618  
Date: July 12, 2005

## Test Results:

Time to Ignition = 00.03 minutes  
Maximum Flamespread Distance = 03.30 feet  
Time to Maximum Spread = 07.07 minutes

Flame Spread Index = 15  
Smoke Developed Index = 5

