



# COMMERCIAL TESTING COMPANY

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## Standard Method of Test for Surface Burning Characteristics of Building Materials

ASTM E 84-08a

**Balazote**

Report Number 08-07237

Test Number 4018-3928

July 24, 2008

Lori Weitzner Design, Inc.  
New York, New York

Commercial Testing Company

*Devarae Jackson*

(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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### 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
Balazote	20	55

### OBSERVATIONS

Specimen ignition over the burners occurred at 0.50 minute. Surface flame spread was observed to a maximum distance of 4.11 feet beyond the zero point at 2.22 minutes. The maximum temperature recorded during the test was 604°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. They do not preclude a material being otherwise classified by the authority of jurisdiction.



### ASTM E 84 TEST DATA

Client: Lori Weitzner Design, Inc.

Test Number: 4018-3928

Material Tested: Balazote

Date: July 24, 2008

#### Test Results:

Time to Ignition = 00.50 minutes  
Maximum Flamespread Distance = 04.11 feet  
Time to Maximum Spread = 02.22 minutes

Flame Spread Index = 20  
Smoke Developed Index = 55

