



COMMERCIAL TESTING COMPANY

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Standard Method of Test for
Surface Burning Characteristics of Building Materials

ASTM E 84-03b

Mandal / MEDEA

Report Number 04-03596

Test Number 3538-9728

March 26, 2004

Lori Weitzner Design, Inc.
New York, New York

Commercial Testing Company is certified 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

Jonathan 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. Flame spread and smoke development data are presented graphically in the computer print-out at the end of this report.

Test Specimen	Flame Spread Index	Smoke Developed Index
Reinforced Cement Board	0	0
Red Oak Flooring	100	100
Mandal	20	0

OBSERVATIONS

Specimen ignition over the burners occurred at 0.07 minute. Surface flame spread was observed to a maximum distance of 4.13 feet beyond the zero point at 4.95 minutes. The maximum temperature recorded during the test was 617°F.

CLASSIFICATION

The Flame Spread Index and Smoke Developed Index values obtained by the ASTM E 84 test 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: Lori Weitzner Design, Inc.

Test Number: 3538-9728

Material Tested: Mandal

Date: March 26, 2004

Test Results:

Time to Ignition = 00.07 minutes

Maximum Flamespread Distance = 04.13 feet

Time to Maximum Spread = 04.95 minutes

Flame Spread Index = 20

Smoke Developed Index = 0

