COMMERCIAL TESTING COMPANY
Post Office Box 985 • 1215 South Hamilton Street • Dalton, Georgia 30722
Telephone (706) 278-3935 • Facsimile (706) 278-3936

Standard Method of Test for
Surface Burning Characteristics of Building Materials

ASTM E 84–03b

Circles /CASCADE

Report Number 06–03659

Test Number 3761–9977
March 30, 2006

Weitzner Limited
New York, New York

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 conformance with criteria set forth in NIST Handbook 150:2001, and all requirements of ISO/IEC 17025:1999.

Commercial Testing Company

Dewane Jackson

(Authorized Signature)

tested with no auxiliary support mechanism. This method of sample preparation is described in Appendix X1 of the E 84 standard, Guide to Mounting Methods, Section X1.9.3.

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
Circles	**20**	**5**

OBSERVATIONS

Specimen ignition over the burners occurred at 0.23 minute. Surface flame spread was observed to a maximum distance of 4.29 feet beyond the zero point at 5.32 minutes. The maximum temperature recorded during the test was 624°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: Weitzner Limited
Test Number: 3761-9977
Material Tested: Circles
Date: March 30, 2006

Test Results:

Time to Ignition	=	00.23 minutes
Maximum Flamespread Distance	=	04.29 feet
Time to Maximum Spread	=	05.32 minutes
Flame Spread Index	=	20
Smoke Developed Index	=	5