



COMMERCIAL TESTING COMPANY

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This report is a presentation of results of a surface flammability test on a material submitted by Lori Weitzner Design, Inc., New York, New York.

The test was conducted in accordance with the ASTM International test method standard E 84-08a, Surface Burning Characteristics of Building Materials, sometimes referred to as the Steiner tunnel test. This test is applicable to exposed surfaces such as walls and ceilings. The test is conducted with the specimen in the ceiling position with the surface to be evaluated exposed face down to the ignition source. The ASTM E 84 test method is the technical equivalent of NFPA No. 205 and UL No. 721.

This standard is used to measure and describe the response of materials, products, or assemblies to heat and flame under controlled conditions. It incorporates all factors required for fire-based or fire-risk analysis.

Standard Method of Test for Surface Burning Characteristics of Building Materials

ASTM E 84-08a

The purpose of the test is to provide an objective measurement of surface flame spread and smoke development of materials with the use of a test and fire-retarded gypsum board, Grade II, under specific fire exposure conditions. A new 24-foot long by 20-inch wide test specimen is a controlled size that is placed on a 24-foot long by 20-inch wide test specimen of a red oak specimen in a Steiner tunnel furnace. The flame spread over the specimen surface and density of smoke are measured and recorded. Test results are calculated relative to red oak, which is a reference material, and fire-retarded cement board, Grade II, which has a rating of 0.

~~Isernio~~

ECLIPSE

Report Number 08-09209

Test Number 4027-4355

September 18, 2008

The test results are expressed as a Flame Spread Index. The Flame Spread Index is defined in ASTM E 84 as "a number or classification resulting from the ratio of the average flame spread of a material under defined test conditions to the average flame spread of a reference material under defined test conditions." The Flame Spread Index is a number or classification defined in ASTM E 84 as "a number or classification resulting from a comparative average flame spread measurement data collected during the test for surface burning characteristics. There is not necessarily a relationship between the two measurements."

Lori Weitzner Design, Inc.
New York, New York

The method used provides for measurement of flame spread through the surface tested, the effect of regression flame spread behavior of an assembly resulting from the proximity of combustible walls and ceilings, in classifying a material as combustible solely by means of a Flame Spread Index.

The test reference and other parameters critical to furnace operation were verified on the day of the test by conducting a 30-minute test using 1, 4-inch fire-retarded cement board, Grade II, Perforic using NFPA certified 23/32-inch solid grade red oak flooring per NFPA 205.

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(Authorized Signature)

The test results reported by the client were verified by the Commercial Testing Company with a total weight of 9.3 ounces per square yard. The test results were prepared by adhering the material to a 24-foot long by 20-inch wide fire-retarded cement board, Grade II, using Carlson-Chowen Dymond 2500 Fire Resisting Adhesive. The adhesive was applied with a roller to the back of the wallcovering, tested 5 to 7 minutes, the material placed onto the smooth side of the cement board, and smoothed with a brush and roller. After dead-stacking overnight, the prepared panels were transferred to testing racks and conditioned to equilibrium in an atmosphere with 50% relative humidity.

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
Isernio	20	5

OBSERVATIONS

Specimen ignition over the burners occurred at 0.12 minute. Surface flame spread was observed to a maximum distance of 4.28 feet beyond the zero point at 2.80 minutes. The maximum temperature recorded during the test was 618°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: 4027-4355
Material Tested: Isernio
Date: September 18, 2008

Test Results:

Time to Ignition = 00.12 minutes
Maximum Flamespread Distance = 04.28 feet
Time to Maximum Spread = 02.80 minutes

Flame Spread Index = 20
Smoke Developed Index = 5

