



## TEST REPORT

<b>CLIENT:</b>	Mannington Commercial	<b>REPORT NUMBER:</b>	57196A
	PO Box 12281	<b>LAB TEST NUMBER:</b>	2508-5450
	Calhoun GA 30703-7004	<b>DATE:</b>	February 4, 2013

**TEST MATERIAL:**

<b>Style</b>	<b>Backing</b>
Circ	Infinity Modular

**SUBJECT:** Testing Services Inc was instructed by the client to perform a procedure for measuring the critical radiant flux of horizontally mounted floor-covering systems exposed to a flaming ignition source in a graded radiant heat energy environment in a test chamber.

**SCOPE OF TEST:** This fire test standard is designed to provide a basis for estimating one aspect of the fire exposure behavior of a floor-covering system installed in a building corridor.

**TEST METHOD:** *ASTM E648: Standard Test Method for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source*

**TEST INFORMATION:** Specimens of the sample were tested for critical radiant flux in accordance with ASTM Test Method E-648, NFPA 253 and FTM Standard 372. The value reported is the average of three specimens, reported as Critical Radiant Flux in units of watts per centimeter squared (W/cm<sup>2</sup>).

**Mounting Board:** Astone Fabricators Inc. (AFI) Tunnel Board Z Calcium Silicate Board  
**Adhesive:** Infinity  
**Trowel:** 1/16" x 1/32" x 1/32"  
**Conditioning:** Minimum 96 hrs @ 70°F 50% RH

**CLASSIFICATIONS:** NFPA: **Class I=** 0.45 W/cm<sup>2</sup> or higher  
**Class II =** 0.22 – 0.44 W/cm<sup>2</sup>  
**No Classification=** <0.21 W/cm<sup>2</sup>

**TEST DATA:**

Specimen	Time	Distance	Critical Radiant Flux
#1	14 min	25.5 cm	0.78 W/cm <sup>2</sup>
#2	12 min	23.6 cm	0.82 W/cm <sup>2</sup>
#3	13 min	25.6 cm	0.78 W/cm <sup>2</sup>
Standard Deviation: 0.02 Coefficient of Variation: 2.90%			

**TEST RESULTS:**

<b>Average Critical Radiant Flux</b>	<b>NFPA Classification</b>
0.79 W/cm <sup>2</sup>	I

Approved By:

Erle Miles, Jr. VP  
 Testing Services Inc.

OUR LETTERS AND REPORTS APPLY ONLY TO THE SAMPLE TESTED AND ARE NOT NECESSARILY INDICATIVE OF THE QUALITIES OF APPARENTLY IDENTICAL OR SIMILAR PRODUCTS, THESE LETTERS AND REPORTS ARE FOR THE USE ONLY OF THE CLIENT TO WHOM THEY ARE ADDRESSED AND THEIR COMMUNICATION TO ANY OTHERS OR THE USE OF THE NAME TESTING SERVICES, Inc. MUST RECEIVE OUR PRIOR WRITTEN APPROVAL. THE REPORTS AND LETTERS, AND OUR NAME, OUR SEALS, OR OUR INSIGNIA ARE NOT UNDER ANY CIRCUMSTANCES TO BE USED IN ADVERTISING TO THE GENERAL PUBLIC.

## TEST REPORT

<b>CLIENT:</b>	Mannington Commercial	<b>REPORT NUMBER:</b>	57196B
	PO Box 12281	<b>LAB TEST NUMBER:</b>	2508-5450
	Calhoun GA 30703-7004	<b>DATE:</b>	February 4, 2013

**TEST MATERIAL:**

Style	Backing
Circ	Infinity Modular

**SUBJECT:** Testing Services Inc was instructed by the client to perform testing to determine the specific optical density of smoke generated by solid materials and assemblies mounted in a vertical position.

**TEST PROCEDURE:** **ASTM E 662: Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials, also complies with NFPA 258.**

**SCOPE OF TEST:** This test method employs an electrically heated radiant-energy source where the test specimens are exposed to either flaming or non-flaming (or both modes) conditions within a closed chamber. A photometric system with a vertical light path is used to measure the varying light transmission as smoke accumulates. The light transmittance measurements are used to calculate specific optical density of the smoke generated during the time period to reach the maximum value.

**CHAMBER CONDITIONS:**

Radiometer Output:	8.1 MV
Furnace Voltage:	117 V
Pressure:	Positive Under Three Inches of Water
Irradiance:	2.5 watts/cm. <sup>2</sup>
Burner Fuel:	Propane

**TEST DATA:**

Specimen Number:	FLAMING		
	1	2	3
Time to Attain TM (Minutes)	3.6	3.8	7.4
Specific Optical Density (Ds) at 1.5 min.	13	14	20
Specific Optical Density (Ds) at 4.0 min.	224	279	227
Maximum Specific Optical Density (D <sub>M</sub> )	230	280	233
Clear Beam (DC)	26	40	43
DMC (Corrected D <sub>M</sub> )	204	240	191

**TEST RESULTS:**

	FLAMING
Average D <sub>s</sub> , 1.5 Min.	16
Average D <sub>s</sub> , 4.0 Min.	243
Average D <sub>M</sub>	248
Average D <sub>M</sub> , (Corrected)	212

Approved By:

  
 Erle Miles, Jr. VP  
 Testing Services Inc.

OUR LETTERS AND REPORTS APPLY ONLY TO THE SAMPLE TESTED AND ARE NOT NECESSARILY INDICATIVE OF THE QUALITIES OF APPARENTLY IDENTICAL OR SIMILAR PRODUCTS, THESE LETTERS AND REPORTS ARE FOR THE USE ONLY OF THE CLIENT TO WHOM THEY ARE ADDRESSED AND THEIR COMMUNICATION TO ANY OTHERS OR THE USE OF THE NAME TESTING SERVICES, Inc. MUST RECEIVE OUR PRIOR WRITTEN APPROVAL. THE REPORTS AND LETTERS, AND OUR NAME, OUR SEALS, OR OUR INSIGNIA ARE NOT UNDER ANY CIRCUMSTANCES TO BE USED IN ADVERTISING TO THE GENERAL PUBLIC.