



## TEST REPORT

**CLIENT:**

Company:	Mannington Commercial	Report Number:	70111A-06
Address:	PO Box 12281	Lab Test Numbers:	2890-1487
	Calhoun, GA 30703-7004	Test Completion Date:	2/17/2017
		Report Date:	3/2/2017
Requested By:	Ragan Hayes	Page:	1 of 2

**TEST MATERIAL:**

Material Type:	Carpet	Date Received:	2/2/2017
Material Condition:	EXCELLENT:    XXX    GOOD:    POOR:    REJECTED:		
Style:	Vivaldi		
Backing:	Integra HP		

**TESTING METHODS REQUESTED:**

<i>Testing Services Inc. was instructed by the client to test for the following...</i>			
Standard:	ASTM E648, NFPA 253 FTM Standard 372	Test Method:	Standard Test Method for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source

**SAMPLING PLAN:**

Sampling Date:	2/2/2017
<ul style="list-style-type: none"> <li>Specimen sampling is performed in the sampling department at TSI beside the ground level dock door.</li> <li>The sampling size of specimens is determined by the test method requirements.</li> <li>In the event a specific sampling size is not called for, a determination will be made based on previous testing experience, and approved for use by an authorized manager.</li> <li>All samples are subjected to the outside environmental conditions of temperature and relative humidity.</li> <li>Sample requiring pre-determined exposure to specified environmental conditions based on a specific test method, take place in the departments in which they are tested</li> </ul>	

**DEVIATION FROM TEST METHOD:**

State reason for any Deviation from, Additions to, or Exclusions From Test Method.
None

**TEST SCOPE:**

This test method measures the critical radiant flux of horizontally mounted floor-covering systems exposed to a flaming ignition source positioned on a graded radiant heat energy environment within an enclosed chamber. The results are designed to provide a basis for estimating one aspect of fire behavior of a flooring system.

**TEST SUMMARY:**

TEST METHOD	TEST DESCRIPTION	TEST RESULT			
		Burn Distance	Time to Flame Out	Critical Radiant Flux	
ASTM E648-15e1	Critical Radiant Flux	Specimen #1	44.4 cm	45:08 min	0.45 W/m <sup>2</sup>
		Specimen #2	46.8 cm	54:31 min	0.42 W/m <sup>2</sup>
		Specimen #3	42.5 cm	35:40 min	0.48 W/m <sup>2</sup>
		Average		0.45 W/m <sup>2</sup>	
	NFPA Classification	Class I			
	STDEV	0.03			
	COF of Variation	7.40 %			

Mounting Board: Calcium Silicate Board  
Conditioning: 96 hours @ 70°F 50% RH

Adhesive: Integra  
Calibration Curve: 355L

Trowel: 1/8" X 1/8" X 1/8" U Notch  
Radiometer #: 5356

**Uncertainty:**

We undertake all assignments for our clients on a best effort basis. Our findings and judgments are based on the information to us using the latest test methods available. TSI can only ensure the test results for the specific items tested.

Unless otherwise noted in the deviations sections of this report, all tests performed are in compliance with stated test method.

**Test Report Approval:**

Erle Miles, III, Lab Director, Testing Services Inc

TSi Accreditation: Our laboratory is accredited by the US Dept of Commerce, National Institute of Standards and Technology: ISO/IEC 17025:2005. Our code # is: NVLAP 100108-0.

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