



TEST REPORT

CLIENT:

Company:	Mannington Commercial	Report Number:	70112A-02
Address:	PO Box 12281	Lab Test Numbers:	2890-1488
	Calhoun, GA 30703-7004	Test Completion Date:	2/17/2017
		Report Date:	3/1/2017
Requested By:	Ragan Hayes	Page:	1 of 1

TEST MATERIAL:

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

TESTING METHODS REQUESTED:

Testing Services Inc. was instructed by the client to test for the following...			
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"> Specimen sampling is performed in the sampling department at TSI beside the ground level dock door. The sampling size of specimens is determined by the test method requirements. 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. All samples are subjected to the outside environmental conditions of temperature and relative humidity. 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

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	39.5 cm	43:55 min	0.53 W/m ²
		Specimen #2	44.5 cm	43:19 min	0.45 W/m ²
		Specimen #3	45.0 cm	50:10 min	0.44 W/m ²
		Average		0.47 W/m²	
	NFPA Classification	Class I			
	STDEV	0.05			
	COF of Variation	10.44 %			

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 #: NVLAP 100108-0.

Form:	Rev:	Revision Date:	Page 1 of 1
Release Date:	Control Type: Electronic – Expires 24 hours after this date: Sep. 6, 17 Printed copies are uncontrolled		

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. OUR REPORTS, LETTERS, NAME, SEALS, OR INSIGNIA ARE NOT UNDER ANY CIRCUMSTANCES TO BE USED IN ADVERTISING TO THE GENERAL PUBLIC.

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Material Condition:	EXCELLENT: XXX GOOD:	POOR:	REJECTED:
Style:	Gaskell		
Backing:	Integra HP		

TESTING METHODS REQUESTED:

<i>Testing Services Inc. was instructed by the client to test for the following...</i>			
Standard:	ASTM E662	Test Method:	Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials

SAMPLING PLAN:

Sampling Date:	2/2/2017
<ul style="list-style-type: none"> Specimen sampling is performed in the sampling department at TSI beside the ground level dock door. The sampling size of specimens is determined by the test method requirements. 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. All samples are subjected to the outside environmental conditions of temperature and relative humidity. 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 	

DEVIATION FROM TEST METHOD:

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

TEST SUMMARY:

	AVERAGE FLAMING MODE
Time to Attain (Minutes)	8.0
Specific Optical Density (DS) @ 1.5 Min	42
Specific Optical Density (DS) @ 4.0 Min	368
Maximum Specific Optical Density (DM)	475
Clear Beam (DC)	34
Corrected (DMC)	441

Requirements: ≤ 450 DMC
Radiometer Output: 8.1 mv

NYC: ≤ 300 @ 4 Minutes
Furnace Voltage: 117v

Irradiance: 2.5 W/cm²
Pressure: Positive Under 3" Water

Uncertainty:

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Erle Miles, III, Lab Director, Testing Services Inc

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