



TEST REPORT

CLIENT:

| | | | |
|----------------------|------------------------|------------------------------|-----------|
| Company: | Mannington Commercial | Report Number: | 700011-01 |
| Address: | PO Box 12281 | Lab Test Numbers: | 2886-1328 |
| | Calhoun, GA 30703-7004 | Test Completion Date: | 2/3/2017 |
| | | Report Date: | 2/16/2017 |
| Requested By: | Ragan Hayes | Page: | 1 of 1 |

TEST MATERIAL:

| | | | |
|----------------------------|---|-----------------------|-----------|
| Material Type: | Carpet | Date Received: | 1/20/2017 |
| Material Condition: | EXCELLENT: XXX GOOD: POOR: REJECTED: | | |
| Style: | Camus | | |
| Backing: | Infinity Modular | | |

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: | 1/20/2017 |
| <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 | 27.4 cm | 19:52 min | 0.75 W/m ² |
| | | Specimen #2 | 29.2 cm | 26:33 min | 0.72 W/m ² |
| | | Specimen #3 | 24.6 cm | 22:11 min | 0.80 W/m ² |
| | | Average | | | 0.76 W/m² |
| | NFPA Classification | Class I | | | |
| | STDEV | 0.04 | | | |
| | COF of Variation | 5.38 % | | | |

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

Adhesive: Infinity
Calibration Curve: 355L

Trowel: 1/16" X 1/16" X 1/16" 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.

| | | | |
|----------------------|---|-----------------------|--------------------|
| Form: | Rev: | Revision Date: | Page 1 of 1 |
| Release Date: | Control Type: Electronic – Expires 24 hours after this date: Feb. 21, 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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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: | 1/20/2017 |
| <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) | 5.7 |
| Specific Optical Density (DS) @ 1.5 Min | 6 |
| Specific Optical Density (DS) @ 4.0 Min | 194 |
| Maximum Specific Optical Density (DM) | 217 |
| Clear Beam (DC) | 16 |
| Corrected (DMC) | 202 |

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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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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