COMMERCIAL TESTING COMPANY
1215 South Hamilton Street • Dalton, Georgia 30720
Telephone (706) 278–3935 • Facsimile (706) 278–3936

Report Number 17–10495

Shaw Contract
Dalton, Georgia

Test Number 5114–5467–1017R
October 23, 2017

Flammability Test

Test Procedure: The flammability was determined in accordance with Title 16 CFR Chapter II, Subchapter D, Part 1630, *Standard for the Surface Flammability of Carpets and Rugs (FF 1–70)*, commonly referred to as the pill test.

Terminology: For purposes of this test, an individual specimen meets the *Test Criteria* if the charred portion does not extend to within 1.0 inch of the edge of the hole in the flattening frame. The *Acceptance Criteria* is based on at least 7 of 8 specimens meeting the Test Criteria in order for the material to conform to this standard.

Material Tested:

Identification:	60783 Sophistication ULT MB	Backing Type:	Ultra Loc MB
Construction:	Cut/Uncut Pile	MO Number:	J5994
Roll Number:	CU0G0C1	Shaw Test Number:	R–171006–43019

Test Result:

Un–Charred Surface Area (inches)								Test Result
1	2	3	4	5	6	7	8	
>3	>3	>3	>3	>3	>3	>3	>3	PASS

Requirement: For machine–made carpets, at least one test is performed after commencement of production, one test after production of the first 25,000 linear yards, and one test after production of the first 50,000 linear yards. If all 24 specimens of the three required tests meet the test criteria (i.e., Pass 8 of 8), then it is necessary to test after each additional 100,000 linear yards are produced.

Commercial Testing Company

Deviane Jackson

(Authorized Signature)

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 standard, 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.

COMMERCIAL TESTING COMPANY
1215 South Hamilton Street • Dalton, Georgia 30720
Telephone (706) 278–3935 • Facsimile (706) 278–3936

Report Number 17–10491

Shaw Contract
Dalton, Georgia

Test Number 5114–5463–1017R
October 23, 2017

Smoke Density Test

Test Method: The test was conducted in accordance with the ASTM International fire test response standard E662–17a, *Specific Optical Density of Smoke Generated by Solid Materials*. It provides a means of determining specific optical density of smoke generated by materials mounted in a vertical position. Results are expressed in terms of specific optical density. The method employs an electrically heated radiant–energy source positioned so as to produce an irradiance level of 2.5 W/cm^2 over the center of a vertically mounted 76.2 mm square specimen. This exposure provides the nonflaming condition of the test. For the flaming condition, a six–tube burner is used to apply a row of equidistant flamelets across the lower edge of the specimen in addition to the specified irradiance level from the heating element. Specimens are exposed to the flaming and nonflaming conditions within a closed chamber while varying light transmission is measured using a photometric system with a vertical light path. These measurements are used to calculate specific optical density of the smoke generated during the time period to reach the maximum value.

Material Tested:

Identification:	60783 Sophistication ULT MB	MO Number:	J5994
Construction:	Cut/Uncut Pile	Shaw Test Number:	R–171006–43019
Roll Number:	CU0G0C1	Total Weight:	66.3 oz/yd^2
Backing Type:	Ultra Loc MB		

Test Result:

	Flaming Exposure			*Non–Flaming Exposure*		
Specimen	#1	#2	#3	#1	#2	#3
Ds @ 1.5 minutes	40	25	34	3	5	4
Ds @ 4.0 minutes	109	102	105	46	53	45
Dm	117	102	105	177	174	179
Time to Dm	6.2	4.0	4.0	19.8	19.0	19.4
Dc	11	9	9	2	2	2
Dm (corrected)	106	93	96	175	172	177
Average Ds @ 1.5 minutes		33			4	
Average Ds @ 4.0 minutes		105			48	
Average Dm		108			177	
Average Dm (corrected)		**98**			**175**	

Commercial Testing Company

Deviane Jackson

(Authorized Signature)

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 standard, 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.

COMMERCIAL TESTING COMPANY
1215 South Hamilton Street • Dalton, Georgia 30720
Telephone (706) 278–3935 • Facsimile (706) 278–3936

Report Number 17–10490

Shaw Contract
Dalton, Georgia

Test Number 5114–5455–1017R
October 23, 2017

Flooring Radiant Panel Test

Test Method: The test was conducted in accordance with ASTM International fire test response standard E648–17, *Critical Radiant Flux of Floor–Covering Systems Using a Radiant Heat Energy Source*. This test measures the critical radiant flux at flame–out of horizontally mounted floor–covering systems that duplicate or simulate accepted installation practices. The floor–covering system is exposed to a flaming ignition source in a graded radiant heat energy environment generated by a radiant panel inclined at a 30° angle to the sample. The panel generates a heat distribution along the sample length ranging from a nominal maximum of 1.0 W/cm^2 to a minimum of 0.1 W/cm^2. Tests on individual components are of limited value and are not valid for evaluation of floor–covering systems.

Floor Covering:

Identification:	60783 Sophistication ULT MB	MO Number:	J5994
Construction:	Cut/Uncut Pile	Shaw Test Number:	R–171006–43019
Roll Number:	CU0G0C1	Total Weight:	66.3 oz/yd^2
Backing Type:	Ultra Loc MB		

Flooring System: The floor covering was tested as a glue–down application over a simulated concrete (reinforced cement board) subfloor using Shaw 1000 adhesive.

Note: This test report relates to the installation in accordance with the criteria set forth in the report. Any variation in the installation criteria may produce different results.

Test Result:

	#1	#2	#3
Maximum Burn Distance (cm)	39.1	41.0	42.5
Time to Flame Out (min)	22.4	20.3	21.8
Critical Radiant Flux	0.51	0.48	0.46
Average Critical Radiant Flux		**0.48 W/cm^2**	
Standard Deviation		0.03	

Classification: The floor–covering system tested may be classified as a **Class I** based on the NFPA 101 *Life Safety Code*, and the GSA Technical Requirements. However, care must be exercised in their use as a material may be otherwise classified by the authority having jurisdiction.

Commercial Testing Company

Deviane Jackson

(Authorized Signature)

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 standard, 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.

P.O. Box 2128
Dalton, Ga. 30722
Email: Charles.tidwell@shawinc.com
Phone 706-532-2234

CENTRAL LABORATORY REPORT
ASTM D5252 Hexapod Drum Test

Test#: R-171006-43019 **Date Completed: 10-15-2017**

Division: Shaw Contract
Style: 60783 Sophistication ULT MB

Testing Summary

Cycles Exposed	TARR	Traffic Classification
12,000	2.50	Moderate

Samples were assessed using ASTM D7330, Assessment of Surface Appearance Change in Pile Floor Coverings Using Standard Reference Scales.

Test Method Explanation: Carpet specimens are exposed to the Hexapod Tumble Drum Test ASTM D5252. After exposure, the specimens are assessed using ASTM test method D7330. This test method uses the Carpet and Rug Institute's CRI Reference Scales (aka. CRI-Texture Appearance Retention Rating Scales or TARR Scales).

Approved by:

Note: This report shall not be reproduced except in full, without the written approval of the laboratory.
* This facility is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP) for the specific scope of accreditation under Lab Code 100193-0. This report is provided for the exclusive use of the client to whom it is addressed. Results of the report are related only to the material identified and tested. This report cannot be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the Federal Government.

NVLAP®
TESTING
NVLAP LAB CODE 100193-0

COMMERCIAL TESTING COMPANY
1215 South Hamilton Street • Dalton, Georgia 30720
Telephone (706) 278–3935 • Facsimile (706) 278–3936

Report Number 17–10494

Shaw Contract
Dalton, Georgia

Test Number 5114–5459–1017R
October 23, 2017

Electrostatic Propensity

Test Method: The test was conducted in accordance with the AATCC Test Method 134, *Electrostatic Propensity of Carpets*. The purpose of the test is to assess the static propensity of carpets under controlled laboratory conditions simulating those that may exist in actual installations. The most important factors in determining the static charge are: (1) the basic natures of the two materials being rubbed together or separated, i.e., shoe soles and carpet; (2) surface contamination on either; (3) the nature of the rubbing or separation, i.e., stepping or scuffing; and, (4) the ambient atmospheric contains. A sample is conditioned at 70°F and 20% relative humidity and the static properties characterized by performing the following tests:

- TEST I — The step test is performed by wearing AATCC TM 134 test sandals with Neolite™ soles and heels and walking on the carpet for one minute.
- TEST II — The scuff test is conducted by scuffing or wiping in a backward motion for one minute wearing test sandals with Neolite™ soles and heels.

Material Tested:

Identification:	60783 Sophistication ULT MB
Construction:	Cut/Uncut Pile
Roll Number:	CU0G0C1
Backing Type:	Ultra Loc MB
MO Number:	J5994
Shaw Test Number:	R–171006–43019

Test Conditions:

Environmental:	21 ± 1°C, 20 ± 2% RH
Underlayment:	TM 134 Pad
Shampoo:	None

Test Result:

Test Mode	Polarity	Voltages
Test I — Step	negative	0.3 kV
Test II — Scuff	negative	1.3 kV

Classification: A carpet classified in accordance with the CRI *Carpet Specifiers Handbook*, Appendix A, Carpet Test Methods and Suggested Physical Requirements, page 72, is suitable for residential use if the maximum voltage is 5.0 kV, and suitable for commercial use if the maximum voltage is 3.5 kV.

Commercial Testing Company

Deviane Jackson

(Authorized Signature)

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 standard, 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.