TESTING SERVICES, INC.
817 SHOWALTER AVE. • P.O. BOX 2041
DALTON, GEORGIA 30722-2041
PHONE: (706) 226-1400 • FAX: (706) 226-6118

NVLAP Code # 100108-0

TEST REPORT

CLIENT:	Shaw Contract	REPORT NUMBER:	56035D-01
	PO Drawer 2128	LAB TEST NUMBER:	2474-4113
	Dalton, GA 30722-2128	DATE:	August 23, 2012

SAMPLE ID:

Style	Roll #	Backing	MO#
5A188 Essential BL	RP00RRU	ClassicBac	R4238

SUBJECT: Testing Services Inc was instructed by the client to assess static generating propensity of submitted floor covering material.

TEST METHOD: *AATCC Method 134: Electrostatic Propensity of Carpets*

SCOPE OF TEST: The test material is brought to equilibrium at controlled atmospheric conditions and is walked on by a test operator in a specified manner with specified shoe soles and heels. The static charge, which builds up on the operator, is monitored continuously by a voltage indicator or recorder.

TEST EQUIPMENT:

Base:	Earthed Metal Base Plate 2000 mm x 1000 mm
Underlayment:	Jute/Hair Pad
Sandals:	Neolite in accordance with Annex A
Reference Carpets:	AATCC Protected/Un Protected
Voltage Measuring:	Input Resistor(Leasametric) and Hand Electrode
Voltage Recording:	Continuous Chart (Esterline Angus)
Chamber Measuring:	Wall Chart (Dickson)/ Hand Held (Dickson)
Chamber Conditions:	70°F ±1° 20% RH ± 3%

TEST RESULTS:

Day	Mode	Reading		Polarity
1	Step	0.50	kv	Negative
2	Step	0.50	kv	Negative
Average	Step	0.50	kv	Negative

Day	Mode	Reading		Polarity
1	Scuff	1.25	kv	Negative
2	Scuff	1.00	kv	Negative
Average	Scuff	1.13	kv	Negative

NOTE: The results of this test relate to the sample tested. Its static performance may be altered in service as a result of wear, soiling, cleaning, temperature, relative humidity, etc.

Approved By:

Digitally signed by Erle Miles, Jr. VP
DN: cn=Erle Miles, Jr. VP, o=Testing Services Inc., ou, email=tsioffice@windstream.net, c=US
Date: 2012.11.12 12:49:47 -05'00'

Erle Miles, Jr. VP
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NVLAP Code # 100108-0

TEST REPORT

CLIENT:	Shaw Contract	REPORT NUMBER:	56035B-01
	PO Drawer 2128	LAB TEST NUMBER:	2474-4113
	Dalton, GA 30722-2128	DATE:	August 23, 2012

SAMPLE ID:

Style	Roll #	Backing	MO#
5A188 Essential BL	RP00RRU	ClassicBac	R4238

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 662-09: *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.^{2}
Burner Fuel:	Propane

TEST DATA:

	FLAMING			NON-FLAMING		
Specimen Number:	1	2	3	1	2	3
Time to Attain TM (Minutes)	2.4	2.2	2.3	11.3	10.8	11.8
Specific Optical Density (Ds) at 1.5 min.	108	111	126	4	3	3
Specific Optical Density (Ds) at 4.0 min.	178	195	156	89	104	99
Maximum Specific Optical Density ($D_{M)}$	185	216	171	200	273	254
Clear Beam (DC)	18	18	21	3	3	3
DMC (Corrected $D_{M)}$	167	198	150	197	270	252

TEST RESULTS:

	FLAMING	NON-FLAMING
Average D_s, 1.5 Min.	115	3
Average D_s, 4.0 Min.	*176	*97
Average D_M	191	242
Average D_M, (Corrected)	172	240

* Meets Local Law # 16 of the City of New York of < 300 @ 4 minutes

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NVLAP Code # 100108-0

TEST REPORT

CLIENT:	Shaw Contract	REPORT NUMBER:	56035A-01
	PO Drawer 2128	LAB TEST NUMBER:	2474-4113
	Dalton, GA 30722-2128	DATE:	August 23, 2012

SAMPLE ID:

Style	Roll #	Backing	MO#
5A188 Essential BL	RP00RRU	ClassicBac	R4238

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 E648-10e1: 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/cm²).

Mounting Board:	Astone Fabricators Inc. (AFI) Tunnel Board Z Calcium Silicate Board
Adhesive:	Taylor 900 Workhorse Multi Purpose
Trowel:	1/8" X 1/8" X 1/8"
Conditioning:	Minimum 96 hrs @ 70°F 50% RH

CLASSIFICATIONS: NFPA:

Class I= 0.45 W/cm² or higher
Class II = 0.22 – 0.44 W/cm²
No Classification= <0.21 W/cm²

TEST DATA: Calibration Curve: 937L Radiometer #: 5356

Specimen	Time	Distance	Critical Radiant Flux
#1	20 min	26.7 cm	0.77 W/cm²
#2	42 min	38.2 cm	0.54 W/cm²
#3	25 min	32.1 cm	0.66 W/cm²
Standard Deviation: 0.11 Coefficient of Variation: 17.26 %			

TEST RESULTS:

Average Critical Radiant Flux	NFPA Classification
0.66 W/cm²	I

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