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

TEST REPORT

CLIENT:	Shaw Industries/Patcraft 616 Duvall Road Chatsworth GA 30705	**REPORT NUMBER:** **LAB TEST NUMBER:** **DATE:**	30385D 1600-1667 April 26, 2005

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:	Earth grounded metal plate
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%

PRE-TEST: The test material was tested as received. A jute/hair pad was placed under the test material and over the earth grounded metal plate for use as an underlayment.

TEST RESULTS:

Sample ID	Day	Mode	Reading
Style: Best Foot Forward I0104	1	Step	-1.75 kv
Backing: ActionBac	2	Step	-2.25 kv
	AVERAGE		**-2.00 kv**
	3	Scuff	-2.75 kv
	4	Scuff	-3.00 kv
	AVERAGE		**-2.88 kv**

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.

Erle Miles, Jr. VP
Testing Services Inc

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TEST REPORT

CLIENT:	Shaw Industries/Patcraft 616 Duvall Road Chatsworth GA 30705	**REPORT NUMBER:** **LAB TEST NUMBER:** **DATE:**	30385C 1600-1667 April 27, 2005

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: ***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.

SAMPLE ID: Style: Best Foot Forward I0104
Backing: ActionBac

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)	3.7	3.7	4.3	20	20	20
Specific Optical Density (Ds) at 1.5 min.	12	2	1	1	1	2
Specific Optical Density (Ds) at 4.0 min.	208	274	217	17	25	22
Maximum Specific Optical Density (D_M)	210	280	218	109	183	151
Clear Beam (DC)	22	21	13	1	1	1
DMC (Corrected D_M)	188	260	205	108	182	150

TEST RESULTS:

	FLAMING	NON-FLAMING
Average D_s, 1.5 Min.	5	1
Average D_s, 4.0 Min.	233	21
Average D_M	236	148
Average D_M, (Corrected)	218	147

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TEST REPORT

CLIENT:	Shaw Industries/Patcraft 616 Duvall Road Chatsworth GA 30705	**REPORT NUMBER:** **LAB TEST NUMBER:** **DATE:**	30385A 1600-1667 April 27, 2005

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.

SAMPLE ID: Style: Best Foot Forward I0104
Backing: ActionBac

TEST METHOD: ***ASTM E648: 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:	Parabond Multi Purpose. No adhesive set up time before adhesion of carpet to silicate board.
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:

Specimen	Time	Distance	Critical Radiant Flux
#1	77.0 min	34.9 cm	0.60 W/cm²
#2	54.1 min	34.0 cm	0.62 W/cm²
#3	23.1 min	37.2 cm	0.56 W/cm²
Standard Deviation: 0.03 Coefficient of Variation: 5.22 %			

TEST RESULTS:

Average Critical Radiant Flux	NFPA Classification
0.59 W/cm²	I

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

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