TEST REPORT

CLIENT

SHAW COMMERCIAL

TEST METHOD CONDUCTED

AATCC Test Method 134-1996 Electrostatic Propensity of Carpets

DESCRIPTION OF TEST SAMPLE

IDENTIFICATION
50875 Movement UPAT

COLOR
-----

ROLL
E59296-1

CONSTRUCTION
Multi-Level Loop Pile

FIBER
-----

BACKING
UltraLoc Pattern

REFERENCE
TEST NO: 040799-10

TEST RESULTS

MAXIMUM VOLTAGE
Neg 1.7 KV

GENERAL PRINCIPLE

This method is designed to assess the static propensity of flooring material by controlled laboratory simulation of conditions which are known from experience to be strongly contributory to excessive accumulation of static charges.

A flooring material preconditioned to equilibrium at controlled atmospheric conditions is walked on by a test subject in a specified manner with specified shoe soles. The static charges which build up on the tester are monitored continuously by a recorder.

A neolite shoe sole has been chosen as the primary reference material because its static performance is much like that of many common leathers. It is a commonly used shoe sole material and can be easily cleaned, while its chemical and physical properties are quite uniform.

A chrome tanned leather shoe sole has been chosen for a secondary reference material because it is representative of a certain class of leathers whose performance differs significantly from that of neolite soles on certain carpet fiber. Statistically, chrome tanned leather comprises a very small percentage of the shoe sole market, but must be considered in critical applications.
TEST REPORT

DATE: 04/26/2005  TEST NUMBER: 095175

CLIENT: Corporate/Div. of Shaw Industries


DESCRIPTION OF TEST SAMPLE

IDENTIFICATION: 50875 Movement UPAT
COLOR: -----
ROLL: M271177
CONSTRUCTION: Textured Loop Pile
FIBER: -----
BACKING: UltraLoc Pattern
REFERENCE: TEST NO: 042005-19

GENERAL PRINCIPLE
This procedure is designed to measure the critical radiant flux at flame out of horizontally mounted floor covering systems exposed to a flaming ignition in a test chamber which provides a graded radiant heat energy environment. The imposed radiant flux simulates the thermal radiation levels likely to impinge on the floors of a building whose upper surfaces are heated by flames from a fully developed fire in an adjacent room or compartment. The test result is an average critical radiant flux (watts/square cm) which indicates the level of radiant heat energy required to sustain flame propagation in the flooring system once it has been ignited. A minimum of three test specimens are tested and the results are averaged. Theoretically, if a room fire does not impose a radiant flux that exceeds this critical level on a corridor floor covering system, flame spread will not occur.

The NFPA Life Safety Code 101 specifies as Class 1 Critical Radiant Flux of .45 watts/sq cm or higher and Class 2 Critical Radiant Flux as .22 - .44 watts/sq cm.

FLOORING SYSTEM ASSEMBLY

<table>
<thead>
<tr>
<th>SUBSTRATE</th>
<th>UNDERLAYMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mineral-Fiber/Cement Board</td>
<td>Direct Glue Down</td>
</tr>
</tbody>
</table>

ADHESIVE: Subset 1000
CONDITIONING: Minimum of 96 hours at 70 ± 5º F and 50 ± 5% relative humidity

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.

<table>
<thead>
<tr>
<th>Specimen</th>
<th>Distance Burned</th>
<th>Time To Flame Out</th>
<th>Critical Radiant Flux</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>25 cm</td>
<td>14 minutes</td>
<td>0.79 watts/square cm</td>
</tr>
<tr>
<td>2</td>
<td>15 cm</td>
<td>17 minutes</td>
<td>0.92 watts/square cm</td>
</tr>
<tr>
<td>3</td>
<td>28 cm</td>
<td>13 minutes</td>
<td>0.71 watts/square cm</td>
</tr>
</tbody>
</table>

Average Critical Radiant Flux: 0.81 Watts/Square Cm

Standard Deviation: 0.11 Watts/Square Cm

Coefficient of Variation: 13%

*NOTE: Meets or exceeds Class 1 rating as specified in NFPA Life Safety Code 101.

APPROVED BY: [Signature]
TEST REPORT

Professional Testing Laboratory Inc.

TEST METHOD CONDUCTED

ASTM E662-97 Specific Optical Density of Smoke Generated by Solid Materials, also referenced as NFPA 258

DESCRIPTION OF TEST SAMPLE

IDENTIFICATION 50875 Movement UPAT
COLOR 75103
ROLL QD2682-1
CONSTRUCTION Textured Loop Pile
FIBER ..... 
BACKING UltraLoc Pattern
REFERENCE TEST NO: 110102-9

TEST RESULTS

FLAMING 249

GENERAL PRINCIPLE

This procedure is designed to measure the specific optical density of smoke generated by the test specimen within a closed chamber. Each specimen is exposed to an electrically heated radiant-energy source positioned to provide a constant irradiance level of 2.5 watts/square cm on the specimen surface. Measurements are recorded through a photometric system employing a vertical beam of light and a photo detector positioned to detect the attenuation of light transmittance caused by smoke accumulation within the chamber. The light transmittance measurements are used to calculate specific optical density, a quantitative value which can be factored to estimate the smoke potential of materials. Two burning conditions can be simulated by the test apparatus. The radiant heating in the absence of ignition is referred to as the Non-Flaming Mode. A flaming combustion in the presence of supporting radiation constitutes the Flaming Mode.

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714 Glenwood Place Dalton, GA 30721 706-226-3283 Fax: 706-226-6787
TEST REPORT

TEST NUMBER: 0075491
DATE: 11/14/02
PAGE: 2 of 2

CLIENT: CORPORATE/DIV. OF SHAW

TEST METHOD CONDUCTED: ASTM E662-97 Specific Optical Density of Smoke Generated by Solid Materials, also referenced as NFPA 258

DESCRIPTION OF TEST SAMPLE

| IDENTIFICATION | 50875 Movement UPAT |
| COLOR          | 75103               |
| ROLL           | QD2682-1            |
| CONSTRUCTION   | Textured Loop Pile  |
| FIBER          |                    |
| BACKING        | UltraLoc Pattern    |
| REFERENCE      | TEST NO: 110102-9   |

CONDITIONS

24 Hours at 140 degrees F
24 Hours at 70 degrees F and 50% relative humidity

FURNACE VOLTAGE 114 V
CHAMBER TEMPERATURE 95 degrees F
TEST MODE Flaming
IRRADIANCE 2.5 watts/sq cm
CHAMBER PRESSURE 3" H2O

AVERAGE MAXIMUM DENSITY CORRECTED (Dm)

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
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<tbody>
<tr>
<td></td>
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| Maximum Density (Dm)   | 314 | 275 | 234 |
| Time to Dm (minutes)   | 4.0 | 3.5 | 3.5 |
| Clear Beam (Dc)        | 26  | 25  | 24  |
| Corr. Max Density (Dmc)| 288 | 250 | 210 |
| Density at 1.5 minutes | 4   | 5   | 6   |
| Density at 4.0 minutes | 314 | 269 | 230 |
| Time to 90% Dm (minutes)| 3.5 | 3.0 | 3.0 |
| Specimen Weight (grams)| 13.6| 13.8| 13.6|

AVERAGE SPECIFIC OPTICAL DENSITY AT 4.0 MINUTES: 271

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**TEST REPORT**

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<tr>
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<tr>
<td>DATE</td>
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**CLIENT**

Shaw Commercial

**TEST METHOD CONDUCTED**

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</table>

**TEST CONDITIONS**

The sample is conditioned to equilibrium and tested at 70 ± 2°F and 20 ± 2% relative humidity.

**SAMPLE PREPARATION**

Tested As Received

**SUBSTRATE**

40 Ounce Rubberized Jute/Hair Pad

**TEST RESULTS**

<table>
<thead>
<tr>
<th>TEST</th>
<th>MAXIMUM VOLTAGE</th>
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<tbody>
<tr>
<td></td>
<td>MAXIMUM</td>
</tr>
<tr>
<td>TEST I:</td>
<td>Step Test/Neolite Sole</td>
</tr>
<tr>
<td>TEST II:</td>
<td>Scuff Test/Neolite Sole</td>
</tr>
<tr>
<td>TEST III:</td>
<td>Step Test/Leather Sole</td>
</tr>
<tr>
<td>TEST IV:</td>
<td>Scuff Test/Leather Sole</td>
</tr>
<tr>
<td><strong>MAXIMUM AVERAGE VOLTAGE</strong></td>
<td>Neg 1.7 KV</td>
</tr>
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*The results of this test relate to the sample of flooring material tested. It's static performance may be altered in service as a result of wear, soiling, cleaning, temperature, relative humidity, etc...*

**APPROVED BY:**

[Signature]

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