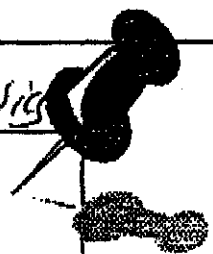
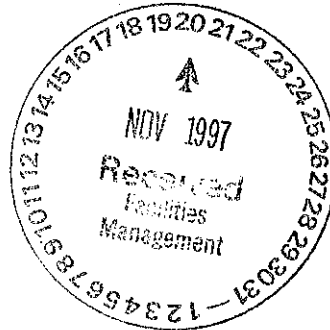


*Ruth  
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F.Y.I.  
RPS  
MS05*

# TILE & CARPET ONE Fax Cover Page

Date: <i>2/26/97</i>	No. of Pages Including Cover: <i>8</i>
To: <i>Syracuse City Schools; Dak Stefanko</i>	From: <i>Bob Shapiro</i>
At Fax No.: <i>435-4235</i>	

SUBJECT: *Lees Faculty Classis*



3185 ERIE BLVD. EAST  
DEWITT, NY 13214  
PHONE: (315) 448-9100  
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8319 BREWERTON RD.  
CICERO, NY 13039  
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193 GRANT AVE.  
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BAYBERRY PLZ., RTE. 57  
LIVERPOOL, NY 13090  
PHONE: (315) 652-9070  
FAX: (315) 652-1884



# COMMERCIAL TESTING COMPANY

Standard Method of Test for  
Critical Radiant Flux of Floor-Covering Systems  
Using a Radiant Heat Energy Source

ASTM E 648-95a

GSA Contract Number: GS-00F-8455A  
Material Tested: Faculty III, L2746

Report Number 107450

Test Number 2740-1620  
July 19, 1996

Prepared for:  
Burlington Industries, Inc.  
Glasgow, Virginia

Commercial Testing Company

Jonathan Jackson  
President

**TESTING • RESEARCH • ENGINEERING**

1215 S. HAMILT ST. P.O. BOX 985 DALTON, GA 30722-0885 706/278-3935  
FEB 26 '97 11:48AM LEE'S CARPETS GSO 5880-82/80

P.2/7

**Introduction:**

This test report is a presentation of results of a flammability test on a material submitted by Burlington Industries, Inc., of Glasgow, Virginia. The test was conducted in accordance with the American Society for Test and Materials fire test response standard E 648-95a, *Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source*. This method is sometimes referred to as the flooring radiant panel.

This test method, which has been approved for use by agencies of the Department of Defense and for listing in the DoD *Index of Specifications and Standards*, is technically identical to the method described in NFPA Number 253. It measures the critical radiant flux at flame-out of horizontally mounted complete flooring-covering systems that duplicate or simulate accepted installation practices. Tests on individual components are of limited value and are not valid for evaluation of floor-covering systems.

This standard should be used to measure and describe the response of materials, products, or assemblies to heat and flame under controlled laboratory conditions and should not be used to describe or appraise the fire-hazard or fire-risk of materials, products, or assemblies under actual fire conditions. However, results of the test may be used as elements of a fire-hazard assessment or a fire-risk assessment which takes into account all of the factors pertinent to an assessment of the fire hazard or fire risk of a particular end use.

**Purpose:**

The flooring radiant panel test measures the level of incident radiant heat energy at flame-out of a floor-covering system. It provides a basis for estimating one aspect of fire behavior of systems installed in corridors or exitways. Imposed radiant flux simulates thermal radiation levels likely to impinge on the floors of a building whose upper surfaces are heated by flames or hot gases, or both, from a fully developed fire in an adjacent room or compartment.

**Test Procedure:**

A gas and air fueled radiant heat energy panel is mounted in the test chamber at a 30° angle to the horizontal plane of the specimen. The panel generates an energy flux distribution, ranging along the length of the test specimen from a nominal maximum of 1.0 W/cm<sup>2</sup> to a minimum of 0.1 W/cm<sup>2</sup>. Air flow through the chamber is controlled at a velocity of 250 feet per minute. The test is initiated using a gas pilot burner brought into contact with the specimen and extinguished after a specified time.

The floor-covering system, fully described in Table I, is tested in triplicate, each specimen measuring 20 cm wide by 100 cm long. Prepared specimens are conditioned a minimum of 96 hours in an atmosphere maintained at 71 ± 2°F and 50 ± 3% relative humidity. Chamber operating conditions are verified on the day of the test by measuring the flux level at the 40 cm mark. An incident flux level of 0.50 ± 0.02 W/cm<sup>2</sup> indicates proper operation and calibration of the test chamber.

Specimens are placed in the chamber and allowed to preheat for 5.0 minutes followed by a 3.0-minute application of the pilot burner. The specimens are allowed to burn until they self-extinguish, at which time they are removed from the test chamber and the farthest point of flame propagation measured. The critical radiant flux is determined from the flux profile determined during calibration of the test instrument.

**Test Result:**

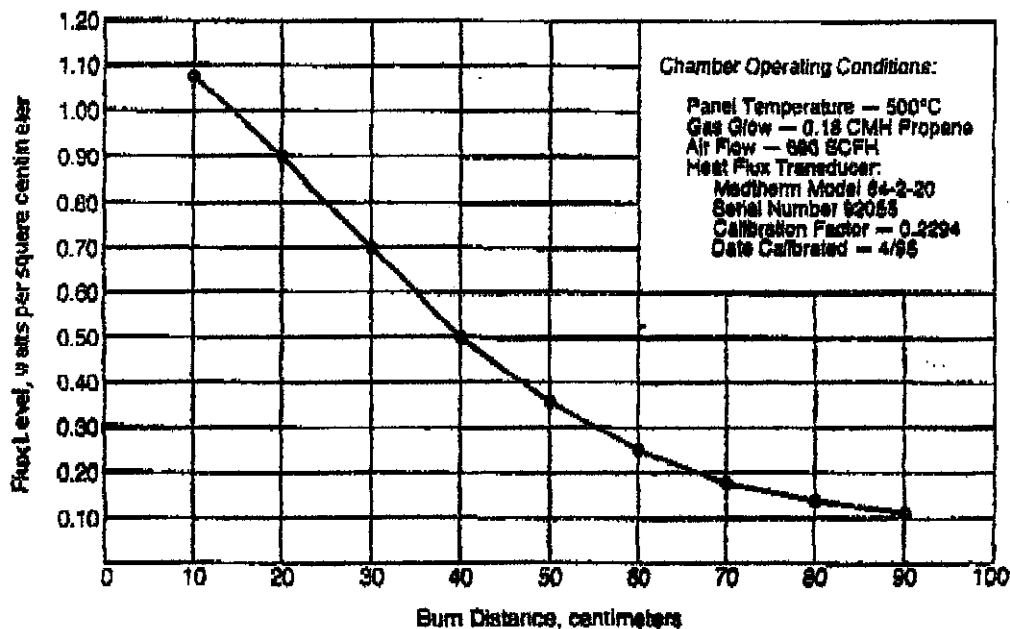
The test result is presented as the average value of the three specimens tested expressed in terms of Critical Radiant Flux in units of W/cm<sup>2</sup>. All pertinent individual specimen data are presented in Table II. The flux profile shown in the figure is typical of that determined during calibration of the flooring radiant panel instrument used for this test.

The general classification for the floor-covering system identified in this report is based on criteria published in the NFPA 101 *Life Safety Code*. The GSA classification is based on criteria published in Amendment 6 to GSA Solicitation Number 3FNI-92-F301-N, effective June 16,

1994. However, care must be exercised in their use as a material may be otherwise classified by the authority having jurisdiction.

Table I. Floor Covering System	
<u>Floor Covering:</u>	
GSA Contract No: GS-00F-8455A	Test Number: FRP-2603
Division: Lees	Face Fiber: CF Nylon
Name: Faculty III	Pile Yarn Weight: 28.0 oz/yd <sup>2</sup>
Pattern Number: L2746	Total Weight: 76.7 oz/yd <sup>2</sup>
Color Number: 3001	Primary Back: Polypropylene
Roll Number: 2921183	Secondary Back: Polypropylene
Yarn Lot Number: 301821	Laminate: Hot Melt
<u>Floor Covering System:</u>	
Application: Direct Glue Down	
Subfloor: GRC Board	
Adhesive: BI Wet Set by Lees	

Table II. Test Result			
	#1	#2	#3
Maximum Burn Distance (cm)	30.2	37.2	40.5
Time to Flame Out (min)	30.6	37.5	38.9
Critical Radiant Flux (W/cm <sup>2</sup> )	0.69	0.55	0.49
Standard Deviation	0.1004		
Average Critical Radiant Flux	0.58 W/cm <sup>2</sup>		
NFPA 101 Classification	Type I		
GSA Classification	Class A		



# CERTIFIED *Testing* LABORATORIES, Inc.

1105 RIVERBEND DRIVE • P.O. BOX 2041 • DALTON, GEORGIA 30722-2041  
 PHONE: (706) 226-1400 FAX: (706) 226-6118

NATIONAL BUREAU OF STANDARDS



CARPET LAP NO. 0108

REPORT OF TEST

NUMBER 66851

August 17, 1995

CLIENT: BURLINGTON INDUSTRIES INC.  
 404 ANDERSON STREET  
 GLASGOW, VA 24555-2801

Lab. Test No. 4654221025

SUBJECT: One (1) sample submitted and identified by client as indicated below:

FACULTY III L2746; COLOR# 3514 ROLL# 95427 YARN LOT# 95427 TEST NO. SC-1179 CF NYLON FACE WT: 26.0 oz/sy TOTAL WT: 76.7 oz/sy PRIMARY & SECONDARY; POLYPROPYLENE LAMINATE; HOTMELT GS-00F-8455A

**SMOKE DENSITY (NBS)**

Smoke density tests were performed as directed in ASTM Test Method E 662-79, also designated NFPA 258.

The results of testing are as reported below. Detailed data are attached hereto.

Operating Radiometer Output: 8.1 sv Irradiance: 2.5 watts/sq. cm.  
 Conditions: Furnace Voltage: 117 v Burner Fuel: Propane  
 Pressure: Positive Under Three Inches of Water

TEST RESULTS		
Item	Flaming Mode Average	Non-Flaming Mode Average
Corrected Maximum Specific Optical Density DM (Corrected)	194	146
Specific Optical Density (DS) At 4.0 Min.	152	25

For CERTIFIED TESTING LABORATORIES, INC.

*John A. Frank*  
 JOHN A. FRANK, President

kdb

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 OF CERTIFIED TESTING LABORATORIES, INC. MUST RECEIVE OUR PRIOR WRITTEN APPROVAL. THE REPORTS AND LETTERS, AND OUR NAME, OR OUR SEAL, OR OUR ADDRESS ARE NOT UNDER ANY CIRCUMSTANCES TO BE USED IN ADVERTISING TO THE GENERAL PUBLIC.

P.57

FEB 26 09 11:50AM LEE'S CARPETS GSO

**CERTIFIED** *Testing* LABORATORIES, Inc.  
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 PHONE: (706) 226-1400 FAX: (706) 226-8118

NATIONAL  
BUREAU OF STANDARDS

**NVLAP**

CARPET LAP  
NO. 0108

ATTACHMENT TO REPORT NUMBER 66851

FLAMING MODE				
Chamber Temperature (Start)	100°F	100°F	100°F	
Specimen Numbers	1	2	3	Avg.
Minimum % Transmission (TM)	1.8	9.0	2.2	4.5
Time To Attain TM (Minutes)	9	6	7	7.5
Maximum Specific Optical Density (DM)	230	138	219	196
Clear Beam (DC)	2	2	2	
DNC (Corrected DM)	228	136	217	194
Specific Optical Density (DS) At 1.5 Minutes	9	21	20	17
Specific Optical Density (DS) At 4.0 Minutes	144	122	189	152

NON-FLAMING MODE				
Chamber Temperature (Start)	100°F	100°F	100°F	
Specimen Numbers	1	2	3	Avg.
Minimum % Transmission (TM)	7.0	7.4	6.6	7.1
Time To Attain TM (Minutes)	20	20	20	20.0
Maximum Specific Optical Density (DM)	152	148	154	152
Clear Beam (DC)	2	6	10	
DNC (Corrected DM)	150	142	146	146
Specific Optical Density (DS) At 1.5 Minutes	3	3	3	4
Specific Optical Density (DS) At 4.0 Minutes	26	23	21	23

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FEB 26 '97 11:50AM LEE'S CARPETS GSO

# Independent Textile Testing Service, Inc.

TEST REPORT # 964852

P.O.Box 1948

1503 Murray Ave.

Dalton, Georgia 30722-1948 • Phone 706-278-3013 • Fax 706-272-7057

TEST REPORT

Customer: Burlington Industries, Inc. August 22, 1996

Subject: One (1) sample of carpet was submitted by the Customer for testing and identified as below:

Sample Identification: Name: Faculty III / Pattern: L2746  
 Color: 3001/ Roll: 2821183  
 Lot: 301821/ Fiber: Nylon  
 Brand Name: Antron/Legacy/DuPont  
 Secondary Backing: Hotmelt  
 GSA Contract: GS-COF-8455A

**TEST METHOD CONDUCTED \***  
**AATCC 134 - ELECTROSTATIC PROPENSITY OF CARPETS**

TEST CONDITIONS: 70 DEGREES F. 20 % RH

<u>SAMPLE IDENTIFICATION</u>	<u>SOLE*</u>	<u>UNDERLAY</u>	<u>KV STEP</u>	<u>KV SCUFF</u>
	1	Plate	Neg. 0.5	Neg. 0.9
	1	Plate	Neg. 0.4	Neg. 1.2
	2	Plate	Pos. 0.2	Pos. 0.2

\*AATCC 138 shampoo conducted on sample prior to static testing as per GSA requirements.

**\*SOLE**

- 1) Standard Neolite
- 2) Standard Chrome Leather
- 3) UNDERLAY: Plate/A grounded metal plate approximately 3'x 4',  
 E-3/ A standard 40 oz./sq.yd. rubberized Esir/Jute cushion  
 approximately 3'x 4'.

  
 \_\_\_\_\_  
 AUTHORIZED SIGNATURE

Our letters and reports are for the exclusive use of the customer to whom they are addressed, and their communication to any others or the use of the name of Independent Textile Testing Service, Inc. must receive our prior written approval. Our letters and reports apply only to the sample tested and are not necessarily indicative of the qualities of apparently identical or similar products. The reports and letters and the name of the Independent Textile Testing Service, Inc. are not to be used under any circumstances in advertising to the general public.

**SECTION I**  
 MANUFACTURED FOR: LEE'S COMMERCIAL CARPETS • 350 W. FRIENDLY AVE.  
 GREENSBORO, NC 27420 • EMERGENCY TEL. NO.: 819-379-2000  
 (CHARLOTTE) 1-800-424-9300 • PRODUCT CLASS: WATER BASED ADHESIVE  
**SECTION II • HAZARDOUS INGREDIENTS**  
 MANUFACTURER CODES: UNBOND BY LESS SOLVENT FREE/USER SAFE ADHESIVE  
 HAZARDOUS INGREDIENTS/OSHA: NONE  
 HAZARDOUS INGREDIENTS/OSHA / NTP / TSCA: NONE  
**SECTION III • PHYSICAL DATA**  
 VAPOR DENSITY IS HEAVIER THAN AIR. EVAPORATES THE SAME AS WATER.  
 BOILING POINT: 212° F. WEIGHT: 8.8 LBS/GALLON  
 PERCENT VOLATILE BY WEIGHT: 20% MAXIMUM  
**SECTION IV • FIRE AND EXPLOSION DATA**  
 NOT CATEGORY: NON-FIAMMABLE FLASH POINT: N.A. (END) EXTINGUISHING  
 MEDIA: WATER MIST, DRY CHEMICAL, CARBON DIOXIDE, UNUSUAL FIRE AND  
 EXPLOSION HAZARDS: LIQUID ADHESIVE WILL NOT IGNITE, DRIED ADHESIVE WILL  
 IGNITE IF HEATED OVER 400° F. AND/OR EXPOSED TO IGNITION SOURCE, PRODUCE  
 CARBON DIOXIDE, SMOKE AND HYDROCARBONS. SPECIAL FIRE FIGHTING  
 PROCEDURES: IF DRIED ADHESIVE IGNITES, USE DRY CHEMICAL OR FOAM  
 EXTINGUISHERS, OR USE A FOG NOZZLE. FOR SMALL FIRES, CARBON DIOXIDE  
 EXTINGUISHERS CAN BE USED. USE MASK WHEN COMBATING DRIED ADHESIVE FIRES.  
**SECTION V • HEALTH HAZARD DATA**  
 PERMISSIBLE EXPOSURE LEVEL: NOT ESTABLISHED. THRESHOLD LIMIT VALUE: NOT  
 ESTABLISHED. EFFECTS OF EXPOSURE • INHALATION: NO ACUTE NERVE EFFECTS  
 SKIN: NOT KNOWN. EYE: CONTACT WITH EYES MAY CAUSE MINIMAL IRRITATION.  
 INGESTION: NONE KNOWN. TARGET ORGANS: NONE KNOWN. FIRST AID - EYES:  
 FLUSH EYES WITH AMPLE WATER. SKIN: WASH WITH SOAP AND WATER. INGESTION:  
 RINSE MOUTH WITH WATER UNTIL TASTE IS GONE. FOR LARGE  
 AMOUNTS, DO NOT INDUCE VOMITING. CONTACT PHYSICIAN.  
**SECTION VI • REACTIVITY DATA**  
 HAZARDOUS POLYMERIZATION: CANNOT OCCUR. STABILITY: STABLE  
 INCOMPATIBILITY: NONE. CONDITIONS TO AVOID: STRONG ACIDS OR OXIDANTS.  
**SECTION VII • SPILL OR LEAK PROCEDURES**  
 TEMPERATURES BELOW 55° F  
 SPILL: SCOOP UP EXCESS WITH SHOVEL, WASH REMAINDER WITH WATER.  
 WASTE DISPOSAL METHOD: LANDFILL OR INCINERATOR AS PER LOCAL AND  
 STATE REGULATIONS.  
**SECTION VIII • PROTECTIVE EQUIPMENT TO BE USED**  
 VENTILATION: NO SPECIAL REQUIREMENTS. DOES NOT RELEASE HAZARDOUS  
 VAPORS. PROTECTIVE GLOVES: NO SPECIAL REQUIREMENTS.  
 EYE PROTECTION: RECOMMENDED.  
**SECTION IX • SPECIAL PRECAUTIONS OR OTHER COMMENTS**  
 STORAGE AND HANDLING: STORE IN COOL, DRY PLACE. OPTIMUM TEMPERATURE  
 AND OTHER PRECAUTIONS: KEEP FROM FREEZING. KEEP SEALED WHEN NOT IN USE.  
**HAZARD RATING: HEALTH - 1 FIRE - 0 FLAMMABILITY - 0**

MATERIAL SAFETY DATA SHEET FOR FLOOR COVERING ADHESIVES  
 DATE OF PREPARATION: 7-1-94

40055  
 Wet-set