



CLIENT:

Company:	Encore Hospitality Carpet,
Address:	a division of Brumlow Carpet Mills
	734 South River Street
	Calhoun, GA 30701

TEST MATERIAL:

Date Material Received:	August 22, 2025
Test Date:	August 27, 2025
Material Type:	Carpet
Material Condition:	Excellent, New
Identification:	INFINITY 280z

TEST METHODS REQUESTED:

Testing Services Inc. was instructed by the client to test for the following...			
Standard:	ASTM E648, NFPA 253 FTM Standard 372	Test Method:	Standard Test Method for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source

SAMPLING PLAN:

Sampling Date:	08/22/25
- Specimen sampling is performed in the sampling department at TSI. - The sampling size of specimens is determined by the test method requirements. - In the event a specific sampling size is not called for, a determination will be made based on previous testing experience and approved for use by an authorized manager. - All samples are subjected to the outside environmental conditions of temperature and relative humidity. - Sample requiring pre-determined exposure to specified environmental conditions based on a specific test method, takes place in the departments in which they are tested	

DEVIATION FROM TEST METHOD:

State reason for any Deviation from, Additions to, or Exclusions From Test Method.
None

TEST SCOPE:

This test method measures the critical radiant flux of horizontally mounted floor-covering systems exposed to a flaming ignition source positioned on a graded radiant heat energy environment within an enclosed chamber. The results are designed to provide a basis for estimating one aspect of fire behavior of a flooring system.

TEST SUMMARY:

TEST METHOD	TEST DESCRIPTION	TEST RESULT			
		Burn Distance	Time to Flame Out	Critical Radiant Flux	
ASTM E648-19ae1	Critical Radiant Flux	Specimen #1	33.2 cm	18:14 min	0.63 W/cm²
		Specimen #2	33.1 cm	19:12 min	0.64 W/cm²
		Specimen #3	33.1 cm	18:12 min	0.64 W/cm²
		Average	0.64 W/cm²		
	NFPA Classification	Class I			
	STDEV	0.22			
	COF of Variation	29.07 %			

Mounting Board: Calcium Silicate Board
Conditioning: 96 hours @ 70°F 50% RH

Adhesive: Multi-Purpose
Calibration Curve: 388R

Trowel: 1/8"x1/8"x1/8"
Radiometer #: 5356

Uncertainty:

We undertake all assignments for our clients on a best effort basis. Our findings and judgments are based on the information to us using the latest test methods available.

TSI can only ensure the test results for the specific items tested.

Unless otherwise noted in the deviations sections of this report, all tests are performed in compliance with stated test method.

Test Report Approval:

Erle Miles, III, Lab Director Testing Services (TSI) LLC

TSI Accreditation:

Our laboratory is accredited by the US Dept. of Commerce, National Institute of Standards and Technology: ISO/IEC 17025:2005. Our code # is: NVLAP 100108-0.
TSI is an Organizational Member of ASTM (American Society for Testing and Materials).



Testing Services (TSI) LLC
817 Showalter Avenue
PO Box 1343
Dalton, GA 30721



TESTING SERVICES

LABORATORY TEST REPORT

Report # 97411A
Lab Test Number: 3573-1994
Report Date: August 29, 2025

ASTM E648 Critical Radiant Flux- NY (Radiant Panel)

www.testingservices.us • (706)226-1400

office@testingservices.us

CLIENT:

Company:	Encore Hospitality Carpet,
Address:	a division of Brumlow Carpet Mills
	734 South River Street
	Calhoun, GA 30701

TEST MATERIAL:

Date Material Received:	August 22, 2025
Test Date:	August 27, 2025
Material Type:	Carpet
Material Condition:	Excellent, New
Identification:	INFINITY 28oz

TEST METHODS REQUESTED:

Testing Services Inc. was instructed by the client to test for the following...			
Standard:	ASTM E648, NFPA 253 FTM Standard 372	Test Method:	Standard Test Method for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source
	NYC 16		Local Law of the City of New York

SAMPLING PLAN:

Sampling Date:	08/22/2025
- Specimen sampling is performed in the sampling department at TSI beside the ground level dock door. - The sampling size of specimens is determined by the test method requirements. - In the event a specific sampling size is not called for, a determination will be made based on previous testing experience and approved for use by an authorized manager. - All samples are subjected to the outside environmental conditions of temperature and relative humidity. - Sample requiring pre-determined exposure to specified environmental conditions based on a specific test method, takes place in the departments in which they are tested	

DEVIATION FROM TEST METHOD:

State reason for any Deviation from, Additions to, or Exclusions from Test Method.
None

TEST SCOPE:

This test method measures the critical radiant flux of horizontally mounted floor-covering systems exposed to a flaming ignition source positioned on a graded radiant heat energy environment within an enclosed chamber. The results are designed to provide a basis for estimating one aspect of fire behavior of a flooring system recorded at the fifteen-minute mark.

TEST SUMMARY:

TEST METHOD		TEST DESCRIPTION		TEST RESULT			
		Specimen #		Burn Distance		Critical Radiant Flux	
ASTM E648-19ae1/NYC Local Law 16		Critical Radiant Flux @ 15 Minutes		Specimen #1	20.2 cm	0.88 W/cm ²	
				Specimen #2	20.5 cm	0.87 W/cm ²	
				Specimen #3	20.5 cm	0.87 W/cm ²	
		Average			0.87 W/cm ²		
Classification		Installation on Floors of Corridors: Minimum: 0.50 W/cm ²			YES	✓	NO
		Installation on Floors of General Area: Minimum: 0.40 W/cm ²			YES	✓	NO

Mounting Board: Calcium Silicate Board
Conditioning: 96 hours @ 70°F 50% RH

Adhesive: Multi-Purpose
Calibration Curve: 388R

Trowel: 1/8"x1/8"x1/8"
Radiometer #: 5356

Uncertainty:

We undertake all assignments for our clients on a best effort basis. Our findings and judgments are based on the information to us using the latest test methods available.

TSI can only ensure the test results for the specific items tested.

Unless otherwise noted in the deviations sections of this report, all tests are performed in compliance with stated test method.

Test Report Approval:

Erle Miles, III, Lab Director Testing Services (TSI) LLC

TSI Accreditation:

Our laboratory is accredited by the US Dept. of Commerce, National Institute of Standards and Technology: ISO/IEC 17025:2005. Our code # is: NVLAP 100108-0.
TSI is an Organizational Member of ASTM (American Society for Testing and Materials).



100108-0



Testing Services (TSI) LLC
817 Showalter Avenue
PO Box 1343
Dalton, GA 30721