

TEST REPORT

DATE:03-23-2023	Page 1 of 2	TEST NUMBER:0295653
CLIENT	Lions Floor	
TEST METHOD CONDUCTED	ASTM E648 Standard Test Method fo Covering Systems Using A Radiant Heat as NFPA 253 and FTM Standard 372	



	DESCRIPTION OF TEST SAMPLE
IDENTIFICATION	District: 2mm/6mil
COLOR	Carmel
ROLL NUMBER	SKU: LI-DT07
CONSTRUCTION	LVP

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			
SUBSTRATE	Mineral-Fiber/Cement Board	UNDERLAYMENT	Direct Glue Down
ADHESIVE	Acrylic	CONDITIONING	Minimum of 96 hours at 70 \pm 5°F and 50 \pm 5%
			relative humidity

	Distance Burned	Time To Flame Out	Critical Radiant Flux
Specimen 1	14 cm	5 minutes	0.96 watts/square cm
Specimen 2	15 cm	5 minutes	0.95 watts/square cm
Specimen 3	18 cm	5 minutes	0.93 watts/square cm

Average Critical Radiant Flux	0.95 Watts/Square Cm
Standard Deviation	0.01 Watts/Square Cm
Coefficient of Variation	1.32 %

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

APPROVED BY:



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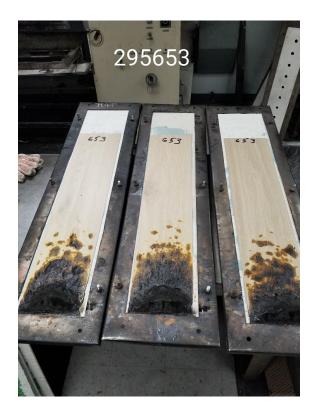
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STING /LAP LAB CODE 100297-0

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