

TEST REPORT

DATE: 06-20-2014	TEST NUMBER: 020934	
CLIENT	UPOFLOOR	
	ASTM E648 Standard Test Method for Critical Radiant Flux of Floor	

Covering Systems Using A Radiant Heat Energy Source, also

referenced as NFPA 253 and FTM Standard 372

TEST METHOD CONDUCTED

DESCRIPTION OF TEST SAMPLE		
IDENTIFICATION	Upofloor Zero 5703	
CONSTRUCTION	Sheet	

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	39 cm	14 minutes	0.53 watts/square cm
Specimen 2	41 cm	19 minutes	0.49 watts/square cm
Specimen 3	41 cm	22 minutes	0.49 watts/square cm

Average Critical Radiant Flux	0.50 Watts/Square Cm
Standard Deviation	0.02 Watts/Square Cm
Coefficient of Variation	3.75 %

* NOTE: Meets or exceeds Class 1 rating as specified in NFPA Life Safety Code 101 and IBC 804.2 classification.

Lang atluny APPROVED BY:

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