



TEST REPORT

DATE: 01-07-2014

TEST NUMBER: 0204559

CLIENT	Avant Contract
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TEST METHOD CONDUCTED	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
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DESCRIPTION OF TEST SAMPLE	
IDENTIFICATION	AMOU
COLOR	NOU43
ROLL NUMBER	1000072328
CONSTRUCTION	Multi-Level Cut & Loop Pile
BACKING	ReNova

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	AAT 272	CONDITIONING	Minimum of 96 hours at 70 ± 5° F and 50 ± 5% relative humidity

	Distance Burned	Time To Flame Out	Critical Radiant Flux
Specimen 1	30 cm	13 minutes	0.70 watts/square cm
Specimen 2	34 cm	18 minutes	0.61 watts/square cm
Specimen 3	31 cm	15 minutes	0.67 watts/square cm

Average Critical Radiant Flux	0.66 Watts/Square Cm
Standard Deviation	0.04 Watts/Square Cm
Coefficient of Variation	5.67 %

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

APPROVED BY:



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