Professional Testing Laboratory, Inc.

TEST REPORT

DATE: 08/18/2009 **TEST NUMBER**: 123246

CLIENT	Biltrite Corporation

TEST METHOD CONDUCTED	ASTM E648-08 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

DESCRIPTION OF TEST SAMPLE	
IDENTIFICATION	Grey Sample
COLOR	-----
ROLL	-----
CONSTRUCTION	-----
FIBER	-----
BACKING	-----
REFERENCE	

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 Adhesive	**CONDITIONING**	Minimum of 96 hours at 70 ± 5º F and 50 ± 5% relative humidity

	Distance Burned	Time To Flame Out	Critical Radiant Flux
Specimen 1	43 cm	32 minutes	0.46 watts/square cm
Specimen 2	39 cm	28 minutes	0.52 watts/square cm
Specimen 3	39 cm	40 minutes	0.52 watts/square cm

Average Critical Radiant Flux	0.50 Watts/Square Cm
Standard Deviation	0.03 Watts/Square Cm
Coefficient of Variation	5.66 %

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

****NOTE: At the client's request, sample was tested smooth side up.***

APPROVED BY: Gary Ashburn

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