



TEST REPORT

DATE: 04/21/2010

TEST NUMBER: 128147

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| CLIENT | Masland Carpets |
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| 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 |
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| DESCRIPTION OF TEST SAMPLE | |
|----------------------------|-----------------------------|
| IDENTIFICATION | 7459 Voluta |
| COLOR | 54901 Athenian Acropolis |
| ROLL | 0072313787 |
| CONSTRUCTION | Multi-Level Cut & Loop Pile |
| FIBER | ----- |
| BACKING | Woven Synthetic |
| 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 | Advanced Adhesive 275 | 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 | 37 cm | 24 minutes | 0.55 watts/square cm |
| Specimen 2 | 34 cm | 24 minutes | 0.61 watts/square cm |
| Specimen 3 | 36 cm | 25 minutes | 0.56 watts/square cm |

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|--------------------------------------|----------------------|
| Average Critical Radiant Flux | 0.57 Watts/Square Cm |
| Standard Deviation | 0.03 Watts/Square Cm |
| Coefficient of Variation | 4.58 % |

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

APPROVED BY: Gay Ashbury

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