

**TEST REPORT****DATE: 10/28/2009****TEST NUMBER: 124429**

|               |                 |
|---------------|-----------------|
| <b>CLIENT</b> | Masland Carpets |
|---------------|-----------------|

|                              |                                                                                                                                                                            |
|------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>TEST METHOD CONDUCTED</b> | 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 |                                |
|----------------------------|--------------------------------|
| <b>IDENTIFICATION</b>      | T438 Delineate                 |
| <b>COLOR</b>               | 04121 Infrared                 |
| <b>ROLL</b>                | -----                          |
| <b>CONSTRUCTION</b>        | Pattern Loop                   |
| <b>FIBER</b>               | Antron® Legacy Nylon           |
| <b>BACKING</b>             | Vinyl                          |
| <b>REFERENCE</b>           | GSA INITIAL<br>GSA SIN #31-303 |

**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 |                            |                     |                                                                |
|--------------------------|----------------------------|---------------------|----------------------------------------------------------------|
| <b>SUBSTRATE</b>         | Mineral-Fiber/Cement Board | <b>UNDERLAYMENT</b> | Direct Glue Down                                               |
| <b>ADHESIVE</b>          | Advanced Adhesive 272      | <b>CONDITIONING</b> | Minimum of 96 hours at 70 ± 5° F and 50 ± 5% relative humidity |

|                   | Distance Burned | Time To Flame Out | Critical Radiant Flux |
|-------------------|-----------------|-------------------|-----------------------|
| <b>Specimen 1</b> | 33 cm           | 11 minutes        | 0.63 watts/square cm  |
| <b>Specimen 2</b> | 37 cm           | 12 minutes        | 0.55 watts/square cm  |
| <b>Specimen 3</b> | 31 cm           | 8 minutes         | 0.67 watts/square cm  |

|                                      |                      |
|--------------------------------------|----------------------|
| <b>Average Critical Radiant Flux</b> | 0.62 Watts/Square Cm |
| <b>Standard Deviation</b>            | 0.05 Watts/Square Cm |
| <b>Coefficient of Variation</b>      | 8.09 %               |

**\* 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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