

## TECHNICAL SPECIFICATIONS

|                     |   |
|---------------------|---|
| Item Name           | Charisma ( CR )                                     |
| Yarn Composition    | 100% BCF Nylon                                      |
| Tufted Construction | Multi-level loop Scroll Tip Shear                   |
| Width               | 12'-0" ( 3.66M )                                    |
| Primary Backing     | Woven Polypropylene                                 |
| Secondary Backing   | Action Back   |
| Tufting Pile Weight | ±1,080 g./m <sup>2</sup> ( 32 oz. Yd <sup>2</sup> ) |
| Tufting Pile Height | ± 1/4" Cut & 7/32" Loop                             |
| Gauge               | 1/8 "   |
| Stitch Rate         | 12 inches per inch                                  |
| Pattern Repeat      | 4" x 1"   |
| Flammability        | ASTM E648-03 / NFPA 253                             |
| Origin              | U.S.A.  |



TEST REPORT

TEST NUMBER: 097984

CLIENT: \_\_\_\_\_

TEST METHOD CONDUCTED: **ASTM E648-03 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             | 836 Charisma    |
| COLOR                      | 0555            |
| ROLL                       | 96566D3         |
| CONSTRUCTION               | 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 | 22 cm           | 19 minutes        | 0.88 watts/square cm  |
| Specimen 2 | 27 cm           | 29 minutes        | 0.72 watts/square cm  |
| Specimen 3 | 27 cm           | 27 minutes        | 0.76 watts/square cm  |

|                               |                      |
|-------------------------------|----------------------|
| Average Critical Radiant Flux | 0.79 Watts/Square Cm |
| Standard Deviation            | 0.08 Watts/Square Cm |
| Coefficient of Variation      | 10.58 %              |

\* NOTE: Meets or exceeds Class 1 rating as specified in NFPA Life Safety Code 101.

APPROVED BY: *[Signature]*

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