



# COMMERCIAL TESTING COMPANY

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Report Number 10-07027

ge Carpets  
Herning, Denmark

Test Number 4152-0253-H  
July 1, 2010

## Effects of a Small Source of Ignition on Textile Floor Coverings (Hot Metal Nut Method)

**Test Procedure:** The material was tested in accordance with the British Standards Institution procedure BS 4790:1987, *British Standard Method for Determination of the Effects of a Small Source of Ignition on Textile Floor Coverings (Hot Metal Nut Method)*. The test is applicable to all types of textile floor coverings. Three 300 mm x 300 mm specimens are taken from a test sample, representing a side-center-side selection, and conditioned for 72 hours in an atmosphere maintained at  $21 \pm 1^\circ\text{C}$  and 63 to 67 percent relative humidity. The specimens are placed with the face upward in a draft protected test cabinet and held flat on the floor by a 250 mm diameter metal ring. A hexagonal metal nut with a mass of 30 grams is heated to a stable temperature of  $900^\circ\text{C}$ . The nut is removed from the furnace and placed in the center of the specimen for  $30 \pm 2$  seconds. Timing is initiated when the hot metal nut is first brought into contact with the specimen. After the nut is removed from the specimen, the elapsed time is recorded to the extinction of flame, of smoldering and afterglow, or the time at which the flame reaches the metal ring. The specimen is then removed from the test cabinet and the longest radius of char measured to the nearest 5 mm.

**Material Tested:**

Identification: Highline 1100 Mod 750  
Construction: Cut Pile Modular Tile  
Backing: MOD 750

**Methods of Mounting:**

Method 1: Loose Laid  
Method 2: Fully Adhered  
Method 3: Loose Laid with Underlay

**Test Result:** The test results relate only to the behavior of the test specimens after application of a small source of ignition; they shall not be used as a means of assessing how the product will contribute to an established fire.

| Method of Mounting – Method 1 |            |                      |                  |      |
|-------------------------------|------------|----------------------|------------------|------|
| Specimen                      | Flame Time | Smoldering/Afterglow | Char Radius (mm) |      |
|                               | (seconds)  | (seconds)            | Face             | Back |
| 1                             | 6          | 0                    | 20               | 10   |
| 2                             | 6          | 0                    | 15               | 15   |
| 3                             | 3          | 0                    | 20               | 15   |
| Average                       | 5          | 0                    | 20               | 15   |

**Performance Requirement:** When assessed in accordance with BS 5287:1988, *Assessment and Labeling of Textile Floorcoverings Tests to BS 4790*, where the Contract Use Key describes the Char Radius as: Low Radius = 35 mm or Less; Medium Radius = 36 mm to 75 mm; and High Radius = Over 75 mm. The carpet tested may be described as:

Basic Performance Requirement — Passes  
Performance for Contract Use — Low Radius

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(Authorized Signature)

This report is provided for the exclusive use of the client to whom it is addressed. It may be used in its entirety to gain product acceptance from duly constituted authorities. The test results presented in this report apply only to the samples tested and are not necessarily indicative of apparent identical or similar materials. Sample selection and identification were provided by the client. A sampling plan, if described in the referenced standard, was not necessarily followed. This report, or the name of Commercial Testing Company, shall not be used under any circumstance in advertising to the general public.