

# Fire Test Certificate – Specimen

**Fabric:** Queen  
**Type:** NFPA 701



96-D Allen Boulevard  
 Farmingdale, New York 11735-5626 USA  
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Page 1

|   |   |                        |  |             |                |              |
|---|---|------------------------|--|-------------|----------------|--------------|
| Received:03/31/2014   | Completed:04/02/2014  | Letter: A              | BG   | P.O.#: 9556 | Test Report #: | 3-01378-0-RV |
| Client's Identification   | Style: Vegas Velvet. Content: 100% Cotton. Finish: dyed and treated with flame retardant solution. Weight: 565 grams / sq. meter. End Use: Stage draperies. |                        |  |             |                |              |
| Tested For: <b>Andrew Walsh</b><br>J & C Joel, Ltd.<br>Corporation Mill, Corporation St.UK<br>Sowerby Brdg, Halifax, W Yorkshire  |   |                        | Key Test: NFPA 701-2010 TM#1 RVNC<br><br>Tel: 011 422 833 835 Ext:<br>Fax: 011 422 835 157 |             |                |              |
| PC: 0.5H DL/jd  |   |                        |  |             |                |              |
| TEST PERFORMED: NFPA 701 - Standard Methods of Fire Tests for Flame Propagation of Textiles and Films - 2010 Edition - Test Method #1                                     |   |                        |  |             |                |              |
| PRODUCT CONFIGURATION: <input checked="" type="checkbox"/> Single Layer; <input type="checkbox"/> Multi Layer   |   |                        |  |             |                |              |
| RESULTS REPORTED: <input checked="" type="checkbox"/> Initially; <input type="checkbox"/> After 3 dry cleanings; <input type="checkbox"/> After 5 launderings @ 160°F     |   |                        |  |             |                |              |
| RESULTS:  |   |                        |  |             |                |              |
| Specimen #  | Afterflame* (seconds)   | Flaming Drip (seconds) | Weight Loss (percent)  |             |                |              |
| 1   | 0   | 0                      | 12.2   |             |                |              |
| 2   | 0   | 0                      | 22.7   |             |                |              |
| 3   | 0   | 0                      | 12.9   |             |                |              |
| 4   | 0   | 0                      | 10.3   |             |                |              |
| 5   | 0   | 0                      | 17.4   |             |                |              |
| 6   | 0   | 0                      | 15.7   |             |                |              |
| 7   | 0   | 0                      | 12.9   |             |                |              |
| 8   | 0   | 0                      | 14.5   |             |                |              |
| 9   | 0   | 0                      | 10.2   |             |                |              |
| 10  | 0   | 0                      | 13.2   |             |                |              |
| Mean:   |   | 0                      | Mean:  | 14.2        |                |              |
| STATISTICAL VALUES: SD = 3.7 3 SD = 11.1 Mean + 3 SD = 25.3   |   |                        |  |             |                |              |
| ABBREVIATIONS USED: SD = Standard deviation. NT = Not tested.   |   |                        |  |             |                |              |
| APPROXIMATE WEIGHT OF MATERIAL (as measured by Govmark): 370 g/m <sup>2</sup>   |   |                        |  |             |                |              |
| PRECONDITIONING: <input checked="" type="checkbox"/> 0.5 hr @ 220°F (Standard)<br><input type="checkbox"/> 24 hrs @ 68±9°F (Alternate: Material shrinks/distorts @ 220°F) |   |                        |  |             |                |              |
| CONVERSION FACTOR: g/m <sup>2</sup> ÷ 28.35 x .835 = oz/yd <sup>2</sup>   |   |                        |  |             |                |              |
| NOTE:   |   |                        |  |             |                |              |
| 1. All specimens prepared in the length direction.  |   |                        |  |             |                |              |
| 2. See addendum for individual specimen weights.  |   |                        |  |             |                |              |
| (Page 1 of 3)   |   |                        |  |             |                |              |

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Page 2

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**REMARKS:**

- Flames did not project above the top of the specimen.
- Flames projected above the top of the specimen; Specimen #'s \_\_\_\_\_
- Other: \_\_\_\_\_

**FAILURE CRITERIA:** As cited by NFPA 701 - 2010 Edition Test Method #1

| Afterflame | Flaming Drip (Mean) | Weight Loss (percent) |                       |
|------------|---------------------|-----------------------|-----------------------|
|            |                     | Mean                  | Individual Specimen   |
| *          | Exceeds 2 seconds   | Exceeds 40%           | Exceeds Mean + 3 SD** |

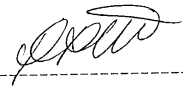
**CONCLUSION:** Based on the Results on page 1 and the above Failure Criteria cited by NFPA 701 - 2010 Edition Test Method #1, the item tested:

- Passes;  Fails;  Requires testing of 10 additional specimens i.e. only one individual specimen failure was noted

\* Afterflame is required to be recorded; however, the NFPA document does not factor it into the Failure Criteria reporting requirements. It should be noted that excessive afterflames (15 seconds or more) could be cause for rejection by local fire authorities performing "match" field tests.

\*\* See "Discussion" on Page 3.

**CERTIFICATION:** I certify that the above results were obtained after testing specimens in accordance with the procedures and equipment specified by NFPA 701 - 2010 Edition Test Method #1.

  
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 AUTHORIZED SIGNATURE  
 THE GOVMARK ORGANIZATION, INC. /je  
**MS. PHYLLIS PETTIT**

RV.04.14.14/tm

JCJ/ROS-NJ-2

APR 18 2014

(Page 2 of 3)

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Page 3

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**\*\* DISCUSSION:**

Weight Loss - Individual Specimen Failure:

The NFPA 701 document, as written, provides for a statistical calculation which provides for retest and a potential failure if any individual value exceeds the mean by three standard deviations. Govmark is of the opinion that this cannot mathematically occur, i.e. no individual result is mathematically capable of exceeding the mean plus three standard deviations. Therefore, in effect, Govmark is of the opinion that this "individual specimen criteria" has no meaning, since it cannot possibly result in a nonconformance.

(Page 3 of 3)

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