



# VTEC Laboratories Inc.

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**Client:** Lotus Windoware  
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**Scope:** This report contains the reference to the test method and procedure, conditioning of the specimens, material description, test results and observations.

**Test Method:** This test was conducted in accordance with NFPA 701 Specification Test 1 - Small Scale Test.

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**Test Method and Procedure:**

Per the NFPA 701 (Test 1) specification, a weighed specimen, of dimensions 150mm x 400mm is suspended vertically from a pin bar near the top rear of an open-face test cabinet. A specified gas flame is applied to the center of the lower edge of the specimen for 45 seconds, and then withdrawn. The specimen is then allowed to burn until the flame self-extinguishes, and there is no further specimen damage. The specimen is then removed from the pin bar and weighed again. The percent weight loss is determined and used as a measure of total flamespread and specimen damage.

A total of ten specimens are tested in the manner above.

**Leaching and Conditioning:**

The specimens are leached in tap water at room temperature for not less than 72 hours and then dried at room temperature. Before testing, the specimens are placed in a forced draft oven to allow free circulation of air around the specimens. The specimens are dried for at least 30 minutes at  $105^{\circ}\text{C} \pm 3^{\circ}\text{C}$ .

**Flame Resistance Performance Criteria:**

1. Where fragments or residues of specimens that fall to the floor of the chamber continue to burn for more than an average 2 seconds per specimen for 10 specimens, the material shall be recorded as failing Test 1.
2. Where the average weight loss of 10 specimens is greater than 40 percent, the material shall be recorded as failing this test.
3. Where the percent weight loss of any individual specimen in the second set of specimens exceeds the mean value of the second set plus three standard deviations calculated for the second set, the material shall be recorded as failing this test.
4. Where the specimens do not demonstrate performance in accordance with any of the above conditions, the material shall be recorded as passing this test and shall be designated as flame resistance.

**Material Tested:**

- 1) Supplier: Lotus Windoware
- 2) Material Description: Aluminum miniblind AM2336WH
- 3) Specimen Dimensions: 150mm x 400mm (5.9" x 15.8")
- 4) Number of Specimens: 10
- 5) Specimen Color: White
- 6) Surface Description: Smooth
- 7) Purpose of Test: Flame Resistance Testing
- 8) Method of Mounting: As specified by NFPA 701 Test 1

**Results:**

Specimen #	Before Weight (g)	After Weight (g)	Weight Loss Percent (%)	Residue/Fragment Burn Time After Falling to Floor (sec)
1	26.1	25.7	1.6	0
2	26.0	25.5	2.1	0
3	26.3	25.4	3.4	0
4	26.2	25.2	3.6	0
5	26.2	24.1	8.0	0
6	26.1	24.3	6.9	0
7	26.2	24.5	6.6	0
8	26.1	24.7	5.4	0
9	26.1	25.3	2.9	0
10	26.1	24.5	6.1	0

*Before Average Weight (g):* 26.1  
*After Average Weight (g):* 24.9  
*Average Residue/Fragment Burn Time (sec):* 0

**Mean Percent Weight Loss:** 4.7  
**Standard Deviation:** 2.2

**Observations:**

No flaming drips or falling particles.

The material provided met the passing criteria according to NFPA 701 Test 1 (small scale).

Flaming



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