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ABORATORY

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*[Signature]*

780 E. Francis St., Unit "T", Ontario, CA 91761 • Ph. (909) 923-6260 • Fax (909) 923-6262

**LETTER OF AUTHORIZATION**

<b>FROM:</b>	<b>Brad Long (Hy-Lite Windows)</b>
<b>TO:</b>	<b>Fenestration Testing Laboratory</b>


I have reviewed the entire AAMA/NWWDA 101/I.S.2-97 test report, **A00F-146** prepared by **Fenestration Testing Laboratory** on November 21, 2000.

I am completely satisfied with the contents of the report and take the responsibility for the accuracy of all the information provided to the laboratory.

I approve and authorize **Fenestration Testing Laboratory** to issue this report to the Inspection Agency.

<b>Name of Inspection Agency:</b>	<b>Associated Laboratories, Inc.</b>
<b>Contact:</b>	

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*[Signature]*  
\_\_\_\_\_  
Signature

*PROJECTS*  
*MANAGER*  
\_\_\_\_\_  
Title

*12-28-00*  
\_\_\_\_\_  
Date

\* Please fax this authorization letter to **Fenestration Testing Laboratory**. Our fax number is (909) 923-6262, in order for our laboratory to send your report to the Inspection Agency.

*Thank You*

# FENESTRATION TESTING LABORATORY

780 E. Francis St., Unit "T", Ontario, CA 91761 • Ph. (909) 923-6260 • Fax (909) 923-6262

## TESTED FOR

HY-LITE WINDOWS  
101 California Avenue  
Beaumont, CA 92223-2812

Report No. : A00F-146  
Date : November 21, 2000  
Page : 1 of 3

## 1.0 PURPOSE

The purpose of this report is to present the testing methods employed and the test results obtained during the performance testing of one (1) **Thermally Broken Aluminum Fixed Window** described in paragraph 4.0 of this report.

## 2.0 TEST REFERENCES

- 2.1 Voluntary Specifications for Aluminum, Vinyl (PVC), and Wood Windows and Glass Doors  
AAMA/NWWDA 101/I.S. 2 - 97: F- C 30 98 x 98
- 2.2 CAWM 301 - 90 Forced Entry Resistance Tests for Windows.

## 3.0 SUMMARY

The test results in paragraphs 5.0 and 6.0 indicate that the test sample described in paragraph 4.0 of this report complied with the performance requirements of the above referenced specifications.

## 4.0 SAMPLE SUBMITTED

<u>SERIES:</u>	800
<u>CONFIGURATION:</u>	One fixed block lite composed of 12 columns and 12 rows of individual block lites
<u>FRAME SIZE:</u>	98.00" x 98.00"
<u>DAYLIGHT OPENING:</u>	95.75" x 95.75"
<u>GLAZING MATERIAL:</u>	8" x 8" x 3" thick translucent acrylic blocks with a sealed air space.
<u>GLAZING:</u>	The perimeter of the composite block lite was wet glazed to the frame from the interior and exterior with a thermal plastic. In addition, the individual block lites were sealed to each other from the interior and exterior with a thermal plastic.
<u>WEEPAGE:</u>	None
<u>WEATHERING:</u>	None
<u>HARDWARE:</u>	None.

**CONSTRUCTION:** Individual block lites were stacked together, vertically and horizontally, to form the overall composite size. When stacking, the blocks were mechanically fastened together, at each inside and outside corner, with an I-shape plastic key that fit into built-in slots at each block center.

The perimeter of the composite block lite fit into the aluminum frame such that the frame's inner legs served as stops for the composite block lite. In addition, the blocks along the jambs contained their respective I-shape keys at the corners, which protruded into the channels, created by the most outer and inner legs of the aluminum frame.

The aluminum frame corners were sealed full profile and fastened with a pair of screws.

**ANCHORING:** The frame nail-on fin was sealed and anchored to the 2" x 6" wood rough opening with screws every 12" on center. Wood framing was applied over the nail-on fin and fastened to the wooden buck with screws.

5.0 **TEST PROCEDURES AND RESULTS**

5.1 All testing procedures were performed in accordance with the performance requirements of the test specifications referenced in paragraph 2.0 of this report.

5.2 **TEST RESULTS PARAGRAPH**

	<b><u>TEST DESCRIPTION</u></b>	<b><u>MEASURED</u></b>	<b><u>ALLOWED</u></b>
2.1.2	Air Infiltration (ASTM E 283) 1.57 PSF The tested specimen exceeds the performance requirements specified in AAMA/NWWDA 101/1.S.2-97 for Air Infiltration.	0.0 CFM/Ft <sup>2</sup>	0.30 CFM/ Ft <sup>2</sup>
2.1.3	Water Penetration (ASTM E 547) 4.50 PSF	No Leakage	No Leakage
2.1.4	Uniform Load Structural (ASTM E 330) 45.0 PSF POS 45.0 PSF NEG	No Damage No Damage	No Damage No Damage

6.0 2.1.8 **CAWM 301 - 90 FORCED ENTRY TEST RESULTS**

2.4.5 Type "V" Window

	<b><u>TEST</u></b>	<b><u>RESULTS</u></b>	<b><u>DESCRIPTION</u></b>
5.4.1	A	Passed	Disassembly Test.
5.4.2	B	Passed	Hand and Tool Manipulation.

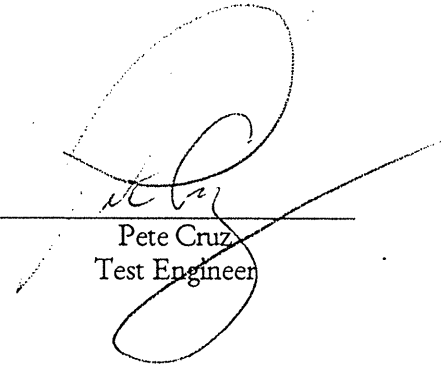
For a complete description of the tested sample refer to the attached cross section drawings.

Assembly and die drawings of frame members are on file and have been compared to the sample submitted. Test sample sections, drawings and a copy of this report will be retained at the test laboratory for four years.

The above test results were obtained by using the applicable ASTM & CAWM Test Methods. This report does not constitute Certification of this product. Certification can only be granted by an approved Administrator/Validator.

This test report may not be modified in any way without the written consent of Fenestration Testing Laboratory.

Testing Completed: November 21, 2000  
Report Completed: November 21, 2000



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Pete Cruz  
Test Engineer



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Reginaldo Espinoza  
Test Technician

