

Fenestration Testing Laboratory, Inc.  
10235 8th. Street, Rancho Cucamonga, CA 91730

**REPORT SUMMARY:**

**REPORT #: T15-012**

**TESTED FOR: International Window Corporation**

**PRODUCT TYPE: Vinyl Fixed Window O**

**SERIES: 5320**

**SPECIFICATION:** NAFS – North American Fenestration Standard/specification for windows, doors, and skylights AAMA/WDMA/CSA 101/I.S.2/A440-11

**PERFORMANCE GRADE: PG30**

**TEST COMPLETION DATE: 1/19/2015**

**REPORT DATE: 12/14/15**

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**1.0 Tested For: International Window Corporation**  
**A/P Dept.**  
**1551 E. Orangethorpe Ave**  
**Fullerton , Ca 92831**

**2.0 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) Vinyl Fixed Window described in paragraph 4.0 of this report.

**3.0 Test References:**

**3.1** NAFS – North American Fenestration Standard/specification for windows, doors, and skylights AAMA/WDMA/CSA 101/I.S.2/A440-11

**3.2** ASTM F 588 -14 Forced Entry Resistance Tests for Windows.

**3.3** CAWM 301 - 90 Forced Entry Resistance Tests for Windows.

**4.0 Compliance Statement:** The test results in paragraph 6.0 indicate that the test sample described in paragraph 5.0 of this report met the performance requirements of the above specifications for the performance grade shown in 4.1 below.

**4.1 Class LC -PG 30 1829 mm x 1829 mm (72" x 72") Type: FW**

**5.0 Sample Submitted**

**5.1 Product Type:** Vinyl Fixed Window

**5.2 Series/Model:** 5320 PW

**5.3 Configuration:** O

<b>5.4 Product Size:</b>	<b>Millimeters</b>	<b>Inches</b>
Frame:	1816 mm x 1816 mm	71.50" x 71.50"
Fixed Panel DLO	1759 mm x 1759 mm	69.25" x 69.25"

5.5 Glass and Glazing				
Glass Type	Spacer Type	Interior Lite	Exterior Lite	Glazing Method
.75 Overall	.40" wide metal Spacer	.18" annealed	.18" annealed	The glass lite rested on (2) rubber setting blocks placed 4" in from each end. The glass was glazed from the exterior with double-sided adhesive foam tape and pvc snap-in glazing beads

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<b>5.6 Weepage</b>			
<b>Draining Method</b>	<b>Size</b>	<b>Quantity</b>	<b>Location</b>
Weep slot with weep covers	1.75" x 0.125"	2	2 " from each end of the sill.

<b>5.7 Weatherstripping/ Sealant</b>		
<b>Type:</b>	<b>Quantity</b>	<b>Location</b>
Sealant	1	Interior- cap bead on sill entire length and 4" up the jambs

<b>5.8 Hardware</b>		
<b>Type:</b>	<b>Quantity</b>	<b>Location</b>
N/A	N/A	N/A

<b>5.9 Construction</b>			
<b>Location</b>	<b>Joinery Type</b>	<b>Number of Fasteners</b>	<b>Fastener size</b>
All frame corners	Mitered and welded	N/A	N/A
Frame- full perimeter	Snap in glazing bead	N/A	N/A

<b>5.10 Reinforcement</b>		
<b>Drawing #</b>	<b>Location</b>	<b>Material</b>
N/A	N/A	N/A

<b>5.11 Installation</b>		
The test specimen was installed into a 2" x 8" wooden rough opening.		
<b>Location on frame</b>	<b>Anchor type</b>	<b>Spacing</b>
Head, jambs, and sill	#8 x 1.25" PFH screws applied through the nail- fin	4" from each corner and 12" on center in the field.

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6.0 Test Procedures and Results: All testing procedures were conducted in accordance with the performance requirements of the test specifications referenced in paragraph 3.0 of this report. (Laboratory conditions during test were 23.8 degrees Celsius (75 degrees Fahrenheit))			
Test Description	Results	Allowed	Comments
<b>9.3.2 - Air Leakage (ASTM E 283-04 (2012))</b>			
75 Pa	0.00 L/s*sq.m	1.5 L/s*sq.m	
1.57 psf	0.00 cfm/sq.ft.	0.30 cfm/sq.ft.	
The tested specimen meets (or exceeds) the performance levels specified in AAMA/WDMA/CSA 101/I.S.2/A440 for air leakage resistance.			
<b>9.3.3 Water Penetration (ASTM E 547-00 (2009))</b>			
220 Pa (4.59 psf)	Pass	No Leakage	
<b>9.3.4.2 Uniform Load Deflection at Design Pressure (ASTM E 330-14)</b>			
1440 Pa (30.08 psf) Pos	0.00 mm (0.00")	Report	
1440 Pa (30.08 psf) Neg	0.00 mm (0.00")	Report	
<b>9.3.4.3 Uniform Load Structural Test (ASTM E 330-14)</b>			
2160 Pa (45.11 psf) Pos	0.00 mm (0.00")	7.36 mm (0.29")	
2160 Pa (45.11 psf) Neg	0.00 mm (0.00")	7.36 mm (0.29")	
<b>9.3.5 Forced Entry Resistance</b>			
ASTM F 588-14 Type D Grade 10	Pass	No Entry	
CAWM 301-90 Type V	Pass	No Entry	
<b>9.3.6.2 Thermoplastic Corner Weld Test</b>			
Frame	Pass	Break shall not extend along entire weld line.	



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For a complete description of the tested sample refer to the attached five (5) pages consisting of the bill of materials, cross section drawings, and individual die drawings. This report is complete only when all of the above referenced drawings and bill of materials are attached.


Cross section drawings 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.

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

The preceding test results relate only to the tested specimen and were obtained by using the applicable test methods listed in sections 3.0 and 6.0 above. This report does not constitute certification of this product or an endorsement by this laboratory. It is the property of the client named in section 1.0 above. Certification can only be granted by an approved administrator and/or validator.

Date Testing Completed: January 19, 2015

Date Report Completed: December 14, 2015



Pete Cruz  
Test Engineer



James Farmer  
Test Consultant