

## TEST REPORT FOR VPI QUALITY WINDOWS

Report No.: J1819.01-901-44 R0

Date: 05/16/19

### REPORT ISSUED TO

#### VPI QUALITY WINDOWS

3420 E. Ferry Avenue

Spokane, Washington 99202

### SECTION 1

#### SCOPE

Intertek Building & Construction (B&C) was contracted by VPI Quality Windows to perform testing in accordance with AAMA/WDMA/CSA 101/I.S.2/A440 on their Endurance – PVC Composite Assembly with Three Fixed Lites – 3H-PW – 120" x 96". Results obtained are tested values and were secured by using the designated test method(s). Testing was conducted at the Intertek B&C test facility in Kent, Washington. This report does not constitute certification of this product nor an opinion or endorsement by this laboratory.



### SECTION 2

#### SUMMARY OF TEST RESULTS

TITLE	TEST SPECIMEN #1	TEST SPECIMEN #2
AAMA/WDMA/CSA 101/I.S.2/A440-17	Class-CW PG35 Size Tested: 3048 x 2438 mm (120 x 96 in) Type FW	Class-LC PG40 Size Tested: 3048 x 2438 mm (120 x 96 in) Type FW
Design Pressure	±1680 Pa (±35.09 psf)	±1920 Pa (±40.10 psf)
Air Infiltration	<0.1 L/s/m <sup>2</sup> (<0.01 cfm/ft <sup>2</sup> )	<0.1 L/s/m <sup>2</sup> (<0.01 cfm/ft <sup>2</sup> )
Air Exfiltration	<0.1 L/s/m <sup>2</sup> (<0.01 cfm/ft <sup>2</sup> )	<0.1 L/s/m <sup>2</sup> (<0.01 cfm/ft <sup>2</sup> )
Canadian Air Level	Fixed	Fixed
Cyclic Water Test Pressure	260 Pa (5.43 psf)	290 Pa (6.06 psf)
Static Water Test Pressure	260 Pa (5.43 psf)	290 Pa (6.06 psf)

Reference must be made to Intertek B&C Report No. J1819.01-901-44 R0, dated 05/15/19 for complete test specimen description and detailed test results.

For INTERTEK B&C:

<b>COMPLETED BY:</b>	Erick Caldera	<b>REVIEWED BY:</b>	Brian Rasmussen
<b>TITLE:</b>	Technician	<b>TITLE:</b>	Regional Manager
<b>SIGNATURE:</b>	 Digitally Signed by: Erick Caldera	<b>SIGNATURE:</b>	 Digitally Signed by: Brian L. Rasmussen
<b>DATE:</b>	05/16/19	<b>DATE:</b>	05/16/19

EC:cns

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#### TEST SPECIFICATION(S)/METHOD(S)

The specimens were evaluated in accordance with the following:

**AAMA/WDMA/CSA 101/I.S.2/A440-17**- *North American Fenestration Standard/Specification for Windows, Doors, and Skylights*

The following test methods were used during testing:

**ASTM E283-04(2012)**, *Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen*

**ASTM E330/E330M-14**, *Standard Test Method for Structural Performance of Exterior Windows, Doors, Skylights and Curtain Walls by Uniform Static Air Pressure Difference*

**ASTM E547-00(2016)**, *Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, and Curtain Walls by Cyclic Static Air Pressure Difference*

**ASTM F588-17**, *Standard Test Methods for Measuring the Forced Entry Resistance of Window Assemblies, Excluding Glazing Impact*

### SECTION 4

#### MATERIAL SOURCE/INSTALLATION

Test specimen was provided by the client. Representative samples of the test specimen will be retained by Intertek B&C for a minimum of four years from the test completion date.

The specimen was installed into a Douglas-Fir wood buck. The rough opening allowed for a 1/4" shim space, and the exterior perimeter of the specimen was sealed to the test buck. Installation of the tested product was performed by the Intertek.

LOCATION	ANCHOR DESCRIPTION	ANCHOR SPACING
Nail fin	#8 x 1" Phillips truss head screws	4" from corners and 4" on center

### SECTION 5

#### LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Jamie Dunning	VPI Quality Windows
Che Rodriguez	Intertek B&C
Erick Caldera	Intertek B&C