22155 68th Avenue South
Kent, Washington 98032

Telephone: 253-395-5656
Facsimile: 717-764-4129
www.intertek.com/building

TEST REPORT FOR VPI QUALITY WINDOWS

Report No.: L3038.01-901-44

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 Endurance 2P-CP-2P Casement/Fixed Lite Composite Window - 96" x 111". Results obtained are tested values and were secured by using the designated test method(s). Testing was conducted at 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	LC RESULTS
AAMA/WDMA/CSA 101/I.S.2/A440-17	Class LC-PG30: Size tested 2438 x 2819 mm* (96 x 111 in*) – Type C
Design Pressure	±1440 Pa (±30.08 psf)
Canadian Air Infiltration/Exfiltration Level	A3
Air Infiltration	<0.1 L/s/m^2 (<0.01 cfm/ft^2)
Air Exfiltration	<0.1 L/s/m^2 (<0.01 cfm/ft^2)
Cyclic & Static Water Test Pressure	220 Pa (4.60 psf)

Reference must be made to Intertek B&C Report No. L3038.01-901-44, dated 10/21/20 for complete test specimen description and detailed test results. **Reference Intertek B&C Report No. J5924.01-901-44, dated 10/29/19 for complete Gateway test specimen description and test results.*

For INTERTEK B&C:

COMPLETED BY:	Arbind Raj	**REVIEWED BY:**	Brian Rasmussen
TITLE:	Technician III	**TITLE:**	Lab Manager
SIGNATURE:	Digitally Signed by: Arbind Raj	**SIGNATURE:**	Digitally Signed by: Brian L. Rasmussen
DATE:	10/21/20	**DATE:**	10/21/20

AR/CR/BLR:pac

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SECTION 3
TEST SPECIFICATION(S)/METHOD(S)

The specimens were evaluated in accordance to AAMA/WDMA/CSA 101/I.S.2/A440-17.

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 E331-00(2016), *Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, 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(s) will be retained by Intertek B&C for a minimum of two years from the test completion date.

The specimens were installed into a Douglas-Fir wood buck. The rough opening allowed for net fit and the exterior perimeter of the specimen was sealed with polyurethane to the test buck. Installation of the tested product was performed by Intertek.

LOCATION	ANCHOR DESCRIPTION	ANCHOR SPACING
Frame nail fin perimeter	#8 X 1" screws	3" from corners and every 4" OC

SECTION 5
LIST OF OFFICIAL OBSERVERS

NAME	COMPANY
Arbind Raj	Intertek B&C
Willie Brice	VPI Quality Windows