

Test Report Summary
1375AW UniVent Window, PI Hopper DG
 AIR – WATER – STRUCTURAL – AUXILIARY TESTING




AAMA/WDMA/CSA 101/I.S.2/A440-11 & A440-17 & A440S1-19 (Class AW-PG80)			
TEST DESCRIPTION	TEST METHOD	TEST RESULTS	
Air Infiltration (A3 Level)	ASTM E283	0.4 L/s•m ² @ 300 Pa	0.09cfm/ft ² @ 6.27 psf
Air Exfiltration (A3 Level)	ASTM E283	0.4 L/s•m ² @ 300 Pa	0.09 cfm/ft ² @ 6.27 psf
Cyclic Water Penetration	ASTM E547	720 Pa	15 psf
Static Water Penetration	ASTM E331	720 Pa	15 psf
Life Cycle Testing	AAMA 910	PASS (4000 cycles)	
Thermal Cycling	AAMA 501.5	-18 °C to 82 °C	0 °F to 180 °F
Structural Design Load	ASTM E330	+/- 3.84 kPa	+/- 80 psf
Structural Overload	ASTM E330	+/- 5.76 kPa	+/- 120 psf
Forced Entry Resistance	ASTM F588	Grade 40	
Insect Screen Serviceability (A440S1-19)	ASTM E1748	PASS	

TEST LAB

Element
 Mississauga, ON L5K-1B3

REPORT NUMBER	21-06-B0106-4N
TEST DATE	1/12/2022
REPORT DATE	2/9/2022

Test results and test methods listed below are from the test reports in the above table. Contact a Tubelite/Alumicor representative for complete test information.


 4/15/2022
 Tim Fookes - Vice President of Engineering Tubelite/Alumicor

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TEST METHODS

AAMA/WDMA/CSA 101/I.S.2/A440-11

AAMA/WDMA/CSA 101/I.S.2/A440-17

AAMA/WDMA/CSA 101/I.S.2/A440S1-19

Air Infiltration/Exfiltration: ASTM E283, *Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen.*

Cyclic Static Water Penetration: ASTM E547, *Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, Curtain Walls by Cyclic Static Air Pressure Difference.*

Static Water Penetration: ASTM E331, *Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, Curtain Walls by Uniform Static Air Pressure Difference.*

Life Cycle: AAMA 910, *Voluntary “Life Cycle” Specifications and Test Methods for AW Class Architectural Windows and Doors.*

Thermal Cycling: AAMA 501.5, *Standard Test Method for Thermal Cycling of Exterior Walls.*

Structural Design and Overload: ASTM E330, *Standard Test Method for Structural Performance of Exterior Windows, Skylights and Curtain Walls by Uniform Static Air Pressure Difference.*

Forced Entry: ASTM F588, *Standard Test Methods for Measuring The Forced Entry Resistance of Window Assemblies, Excluding Glazing Impact.*

Insect Screen Serviceability: ASTM E1748, *Standard Test Method for Evaluating the Engagement Between Windows and Insect Screens as an Integral System.*