

Test Report Summary

1375AW UniVent Window, PO Casement 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	ASTM E283	0.2 L/s•m ² @ 300 Pa	0.04cfm/ft ² @ 6.27 psf
Air Exfiltration	ASTM E283	0.3 L/s•m ² @ 300 Pa	0.06 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 910-10	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	ASTM E1748	PASS	

TEST LAB

Element

Mississauga, ON L5K-1B3

REPORT NUMBER	21-06-B0106-2N RV1
TEST DATE	1/6/2022
REPORT DATE	2/8/2022

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.*