

Test Report Summary
1375AW UniVent Window, PI Hopper TG
 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 | 0.07 cfm/ft ² @ 6.27 psf |
| Air Exfiltration (A3 Level) | ASTM E283 | 0.3 L/s•m ² @ 300 Pa | 0.07 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-B0106-8N |
| TEST DATE | 1/25/2022 |
| REPORT DATE | 2/24/2022 |

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.*