Test Report Summary

# 2990AW FeatureLine Combination

AIR – WATER – STRUCTURAL – AUXILIARY TESTING

| AAMA/WDMA/CSA 101/I.S.2/ A440-11, A440-22 & CSA A440S1-19 | | |
|---|---|---|
| **TEST DESCRIPTION** | **TEST METHOD** | **TEST RESULTS (Class AW-PG80)** |
| **Test Unit Size:** | Combination<br>Type FW<br>Type FW | 62 5/16" X 100 1/2" [1582mm x 2553mm]<br>31 3/16" X 98 1/2" [792mm x 2502mm]<br>31 3/16" X 98 1/2" [792mm x 2502mm] |
| **Air Infiltration** | ASTM E283 | < 0.1 cfm/ft$^2$ @ 6.27 psf<br>< [0.5 L/s•m$^2$ @ 300 Pa] Level A3 |
| **Air Exfiltration** | ASTM E283 | < 0.1 cfm/ft$^2$ @ 6.27 psf<br>< [0.5 L/s•m$^2$ @ 300 Pa] Level A3 |
| **Cyclic Water Penetration** | ASTM E547 | 15 psf<br>[720 Pa] |
| **Static Water Penetration** | ASTM E331 | 15 psf<br>[720 Pa] |
| **Thermal Cycling** | AAMA 501.5 | 0 ˚F to 180 ˚F<br>[-18 ˚C to 82 ˚C] |
| **Structural Design Load** | ASTM E330 | +/- 80 psf<br>[+/- 3.84 kPa] |
| **Structural Overload** | ASTM E330 | +/- 120 psf<br>[+/- 5.76 kPa] |
| **Forced Entry Resistance** | ASTM F588 | Grade 40 |

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|---|---|
| **TEST LAB** | **Quast Consulting & Testing**<br>Mosinee, WI 54455 |
| **REPORT NUMBER** | QCT23-7076.04 |
| **TEST DATE** | 2/08/2024 |
| **REPORT DATE** | 4/3/2024 |

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.

Tim Fookes - Vice President of Engineering Tubelite/Alumicor

## TEST METHODS

**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.*

**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.*