

Test Report Summary  
**2970AW ShadowLine  
 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 Type FW Type FW	62 5/16" X 100 1/2" [1582mm x 2553mm] 31 3/16" X 98 1/2" [792mm x 2502mm] 31 3/16" X 98 1/2" [792mm x 2502mm]
Air Infiltration	ASTM E283	< 0.1 cfm/ft <sup>2</sup> @ 6.27 psf < [0.5 L/s•m <sup>2</sup> @ 300 Pa] Level A3
Air Exfiltration	ASTM E283	< 0.1 cfm/ft <sup>2</sup> @ 6.27 psf < [0.5 L/s•m <sup>2</sup> @ 300 Pa] Level A3
Cyclic Water Penetration	ASTM E547	15 psf [720 Pa]
Static Water Penetration	ASTM E331	15 psf [720 Pa]
Thermal Cycling	AAMA 501.5	0 °F to 180 °F [-18 °C to 82 °C]
Structural Design Load	ASTM E330	+/- 80 psf [+/- 3.84 kPa]
Structural Overload	ASTM E330	+/- 120 psf [+/- 5.76 kPa]
Forced Entry Resistance	ASTM F588	Grade 40

TEST LAB	Quast Consulting & Testing Mosinee, WI 54455
REPORT NUMBER	QCT23-7076.02
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

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**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.*