

**PRODUCT**                    **24650 SSG Series Storefront**  
 2" x 6-1/2" (non-thermal, single thermal barrier, dual thermal barrier)

**TEST RESULTS**

Air Infiltration	ASTM E283	0.06 cfm/ft <sup>2</sup> @ 6.24 psf
Static Pressure Water Resistance	ASTM E331	12 psf
Dynamic Pressure Water Resistance	AAMA 501.1	12 psf
Structural – Design Load	ASTM E330	30 psf
Thermal Cycling	AAMA 501.5	-20 °F to 180 °F
Structural – Overload	ASTM E330	45 psf

**TEST LAB**

**INTERTEK – ATI**  
 West Palm Beach, FL 33407

Report Number	J2424.02-450-32-R0
Test Date	2/25/19 - 4/18/19
Report Date	8/15/19

Reference above report for complete test specimen description and data.

Tubelite Representative:

 (sign) 8/27/2019 (date)  
Tim Fookes - Vice President of Engineering (title)

## TEST METHODS

**Air Infiltration:** *ASTM E283-0 (2012), Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen.* Testing was conducted at 6.24 psf positive static air pressure difference.

**Static Pressure Water Resistance:** *ASTM E331-00 (2016), Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, Curtain Walls by Uniform Static Air Pressure Difference.* Testing was conducted at 12 psf positive static air pressure difference for 15 minute duration. Water applied at a minimum rate of 5 gal/ft<sup>2</sup>/hr.

**Dynamic Pressure Water Resistance:** *AAMA 501.1-17, Standard Test Method for Water Penetration of Windows, Curtain Walls, and Doors Using Dynamic Pressure.* Testing was conducted with a dynamic pressure equivalent of 12 psf for a 15 minute duration. Water applied at a minimum rate of 5 gal/ft<sup>2</sup>/hr.

**Structural Performance:** *ASTM E330/E330M-14, Standard Test Method for Structural Performance of Exterior Windows, Skylights and Curtain Walls by Uniform Static Air Pressure Difference.* Testing was conducted at +/- 30 psf design loads and +/- 45 psf overloads. Allowable Criteria: Design - L/175 deflection normal to wall plane for clear spans up to 13'-6". Overload – net permanent set shall not exceed 0.2% of the clear span.

**Thermal Cycling:** *AAMA 501.5-07, Standard Test Method for Thermal Cycling of Exterior Walls.* Testing was conducted with three thermal cycles. Each cycle maintained for two hours after establishing the following temperatures and consist of:

- a. Low exterior temperature of -20 °F.
- b. High exterior temperature of 180 °F.
- c. Interior temperature maintained between 70 °F and 80 °F.
- d. System components shall withstand thermal movements without buckling, distortion, cracking, failure or glass, and failure of joint seals or undue stress on the finished surfaces, materials, or fixing assemblies.