

**PRODUCT**            **Standard Entrance Series**  
 Narrow, Medium, and Wide Stile

**TEST RESULTS**

		<b>Narrow – Double</b>	<b>Medium - Single</b>
Air Infiltration	<i>ASTM E283</i>	<b>0.28 (actual) 1.0 (allowed) cfm/ft<sup>2</sup> @ 1.57 psf</b>	<b>0.30 (actual) 1.0 (allowed) cfm/ft<sup>2</sup> @ 1.57 psf</b>
Static Water Resistance	<i>ASTM E331</i>	-	<b>limited water</b> (see page 2 for description)
Structural – Design Load	<i>ASTM E330</i>	<b>+/- 30 psf</b>	<b>+/- 50 psf</b>
Structural – Overload	<i>ASTM E330</i>	<b>+/- 45 psf</b>	<b>+/- 75 psf</b>
Forced Entry Resistance	<i>AAMA 1304-02</i>	<b>300 lb</b>	-
Operating Force	<i>ASTM E2068</i>	-	<b>9.0 lbf (force to latch)</b>
	Specimen Size:	75-1/2" x 85-3/4"	40-1/2" x 86-1/4"
	Leaf Size:	35-13/16" x 83-7/16"	35-13/16" x 83-5/16"

**TEST LAB**

**INTERTEK – ATI**  
 York, PA 17406

	<b>Narrow – Double</b>	<b>Medium - Single</b>
Report Number	C2948.01-450-44	B875.01-109-44
Test Date	10/23/12	4/18/12
Report Date	10/26/12	5/11/12

Reference above ATI reports for complete test specimen description and data.

Tubelite Representative:



(sign) 1/8/2018 (date)

Tim Fookes - Vice President of Engineering (title)

## TEST METHODS

**Air Infiltration:** *ASTM E283-04, 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 1.57 psf positive static air pressure difference.

**Static Pressure Water Resistance:** *ASTM E331-00, Standard Test Method for Water Penetration of Exterior Windows, Skylights, Doors, Curtain Walls by Uniform Static Air Pressure Difference.* Testing was conducted at 0 psf positive static air pressure difference for 15 minute duration. Water applied at a minimum rate of 5 gal/ft<sup>2</sup>/hr.

**Structural Performance:** *ASTM E330-02, Standard Test Method for Structural Performance of Exterior Windows, Skylights and Curtain Walls by Uniform Static Air Pressure Difference.* Testing for the narrow- double configuration was conducted at +/- 30 psf design loads and +/- 30 psf overloads. Testing for the medium - single configuration was conducted at +/- 50 psf design loads and +/- 75 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.

**Forced Entry Resistance:** *AAMA 1304-02, Voluntary Specification for Forced Entry Resistance of Side Hinged Door Systems.* Testing for the narrow-double configuration was conducted at 300 lbs.

**Operating Force:** *ASTM E2068, Standard Test Method for Determination of Operating Force of Sliding Windows and Doors.* Testing for the medium-single at configuration was conducted at 9.0 lbf force to latch.

Reference ATI reports #C2948.01-450-44 dated 10/26/2012 and B875.01-109-44 dated 5/11/2012 for complete test specimen description and data. Contact a Tubelite representative for more information.