

## AAMA Test Reports

### AAMA Test Report Summaries: Zenith Series Windows

When you buy fiberglass super-insulating Alpen high performance windows, you can rest assured in knowing you are getting windows that meet the standards of AAMA (the American Architectural Manufacturers Association). AAMA a third-party organization, is a leading window industry source of performance standards and certification. Tests focus on the window's ability to withstand wind loads, water resistance, air infiltration and force entry.

Test Summaries			
Description		Performance Grade (Test size)	Performance Grade (Test size)
Zenith Series Casement			
AAMA/WDMA/CSA 101/I.S.2/A440-11			
Performance Grade (PG)		CW-PG50 (36" x 72")	
		Results	
Design Pressure psf (Pa)		50.13 psf (2400 Pa)	
Structural Test Pressure psf (Pa)		75.19 psf (3600 Pa)	
Air Infiltration @1.57 psf (@75 Pa)		0.02 cfm/ft <sup>2</sup> (0.1L/s/m <sup>2</sup> )	
Water Penetration Resistance Test Pressure psf (Pa)		7.52 psf (360 Pa)	
Forced Entry Resistance (ASTM F-588)		Grade 10	
		Expiration: 07-14-2025	
Zenith Series Awning			
AAMA/WDMA/CSA 101/I.S.2/A440-11			
Performance Grade (PG)		CW-PG80 (47" x 32")	
		Results	
Design Pressure psf (Pa)		80.2 psf (3840 Pa)	
Structural Test Pressure psf (Pa)		120.3 psf (5760 Pa)	
Air Infiltration @1.57 psf (@75 Pa)		<0.01 cfm/ft <sup>2</sup> (<0.05 L/s/m <sup>2</sup> )	
Water Penetration Resistance Test Pressure psf (Pa)		15.04 psf (720 Pa)	
Forced Entry Resistance (ASTM F-588)		Grade 20	
		Expiration: 05-02-2025	
Zenith High Profile (HP) Picture Window			
AAMA/WDMA/CSA 101/I.S.2/A440-11			
Performance Grade (PG)		CW-PG45 (60" x 60")	CW-PG35 (72" x 96")
		Results	Results
Design Pressure psf (Pa)		45.11psf (2160 Pa)	35.09 psf (1680 Pa)
Structural Test Pressure psf (Pa)		67.67 psf (3240 Pa)	52.63 psf (2520 Pa)
Air Infiltration @1.57 psf (@75 Pa)		0.02 cfm/ft <sup>2</sup> (0.05 L/s/m <sup>2</sup> )	<0.01 cfm/ft <sup>2</sup> (<0.05 L/s/m <sup>2</sup> )
Water Penetration Resistance Test Pressure psf (Pa)		15.04 psf (720 Pa)	7.52 psf (360 Pa)
Forced Entry Resistance (ASTM F-588)		Grade40	Grade40
		Expiration: 05-11-2025	
		Expiration: 05-12-2025	
Zenith Low Profile (LP) Picture Window			
AAMA/WDMA/CSA 101/I.S.2/A440-11			
Performance Grade (PG)		CW-PG70 (60" x 60")	CW-PG45 (72" x 96")
		Results	Results
Design Pressure psf (Pa)		70.18 psf (3360 Pa)	45.11psf (2160 Pa)
Structural Test Pressure psf (Pa)		105.26 psf (5040 Pa)	67.67 psf (3240 Pa)
Air Infiltration @1.57 psf (@75 Pa)		<0.01 cfm/ft2 (<0.05 L/s/m <sup>2</sup> )	<0.01 cfm/ft <sup>2</sup> (<0.05 L/s/m <sup>2</sup> )
Water Penetration Resistance Test Pressure psf (Pa)		12.11psf (580 Pa)	7.52 psf (360 Pa)
Forced Entry Resistance (ASTM F-588)		Grade40	Grade40
		Expiration: 10-26-2025	
		Expiration: 10-25-202	

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\*\*\*Single-hung, double-hung and horizontal sliders are available only in 525, 625 and 725 Series.

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Description		Performance Grade (Test size)	Performance Grade (Test size)
Zenith Single-hung			
AAMA/WDMA/CSA 101/I.S.2/A440-011			
Performance Grade (PG)		LC-PG55 (45" x 76")	
		Results	
Design Pressure psf (Pa)		55.14 psf (2640 Pa)	
Structural Test Pressure psf (Pa)			
Air Infiltration @1.57 psf (@75 Pa)		0.05 cfm/ft <sup>2</sup> (0.23 L/s/m <sup>2</sup> )	
Water Penetration Resistance Test Pressure psf (Pa)		12.95 psf (610 Pa)	
Forced Entry Resistance (ASTM F-588)		Grade 20	
		Expiration: 05-04-2025	
Zenith Double-hung Window - Standard performance			
AAMA/WDMA/CSA 101/1.S.2/A440-11			
Performance Grade (PG)		R-PG55 (40" x 64")	
		Results	
Design Pressure psf (Pa)		55.14 psf (2640 Pa)	
Structural Test Pressure psf (Pa)		82.71 psf (3960 Pa)	
Air Infiltration @1.57 psf (@75 Pa)		0.09 cfm/ft <sup>2</sup> (0.47 L/s/m <sup>2</sup> )	
Water Penetration Resistance Test Pressure psf (Pa)		15.04 psf (720 Pa)	
Forced Entry Resistance (ASTM F-588)		Grade 20	
		Expiration: 02-07-2025	
Zenith Horizontal Slider Window (2-panel)			
AAMA/WDMA/CSA 101/1.S.2/A440-11			
Performance Grade (PG)		CW-PG30 (108" x60")	
		Results	
Design Pressure psf (Pa)		30.08 psf (1440 Pa)	
Structural Test Pressure psf (Pa)		37.59 psf (1800 Pa)	
Air Infiltration @1.57 psf (@75 Pa)		0.09 cfm/ft <sup>2</sup> (0.5 L/s/m <sup>2</sup> )	
Water Penetration Resistance Test Pressure psf (Pa)		5.43 psf (260 Pa)	
Forced Entry Resistance (ASTM F-588)		Grade 10	
		Expiration: 10-25-2025	
Zenith Horizontal Slider Window (3-panel)			
AAMA/WDMA/CSA 101/I.S.2/A440-11			
Performance Grade (PG)		R-PG25 (XOX 132" x48")	
		Results	
Design Pressure psf (Pa)		25.06 psf (1200 Pa)	
Structural Test Pressure psf (Pa)		37.59 psf (1800 Pa)	
Air Infiltration @1.57 psf (@75 Pa)		0.09 cfm/ft <sup>2</sup> (0.5 L/s/m <sup>2</sup> )	
Water Penetration Resistance Test Pressure psf (Pa)		3.76 psf (180 Pa)	
Forced Entry Resistance (ASTM F-588)		Grade 10	
		Expiration: 08-02-2025	
Tested unit configuration:			

Tested unit configuration:

1/3 - 1/3 - 1/3

Tested window size qualifies

1/4-1/2 -1/4 at tested