



AAMA Test Reports

AAMA Test Report Summaries: X25 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.

Description	Test Summaries	
	Performance Grade (Test size)	Performance Grade (Test size)
X25 Series Casement Window		
AAMA/WDMA/CSA 101/I.S.2/A440-08 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 ² (0.1 L/s/m ²)	
Water Penetration Resistance Test Pressure psf (Pa)	7.52 psf (360 Pa)	
Forced Entry Resistance (ASTM F-588)	Grade 10	
	Expiration: 07-14-2020	
X25 Series Awning Window		
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 ² (<0.05 L/s/m ²)	
Water Penetration Resistance Test Pressure psf (Pa)	15.04 psf (720 Pa)	
Forced Entry Resistance (ASTM F-588)	Grade 20	
	Expiration: 05-02-2020	
X25 High Profile (HP) Picture Window		
AAMA/WDMA/CSA 101/I.S.2/A440-08 Performance Grade (PG)	CW-PG45 (60" x 60")	CW-PG35 (72" x 96")
	Results	Results
Design Pressure psf (Pa)	45.11 psf (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 ² (0.05 L/s/m ²)	<0.01 cfm/ft ² (<0.05 L/s/m ²)
Water Penetration Resistance Test Pressure psf (Pa)	15.04 psf (720 Pa)	7.52 psf (360 Pa)
Forced Entry Resistance (ASTM F-588)	Grade 40	Grade 40
	Expiration: 05-11-2020	Expiration: 05-12-2020
X25 Low Profile (LP) Picture Window		
AAMA/WDMA/CSA 101/I.S.2/A440-08 Performance Grade (PG)	CW-PG70 (60" x 60")	CW-PG45 (72" x 96")
	Results	Results
Design Pressure psf (Pa)	70.18 psf (3360 Pa)	45.11 psf (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/ft ² (<0.05 L/s/m ²)	<0.01 cfm/ft ² (<0.05 L/s/m ²)
Water Penetration Resistance Test Pressure psf (Pa)	12.11 psf (580 Pa)	7.52 psf (360 Pa)
Forced Entry Resistance (ASTM F-588)	Grade 40	Grade 40
	Expiration: 10-26-2020	Expiration: 10-25-2020



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

Test Summaries

Description	Performance Grade (Test size)	Performance Grade (Test size)
X25 Single-hung Window		
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 ² (0.23 L/s/m ²)	
Water Penetration Resistance Test Pressure psf (Pa)	12.95 psf (610 Pa)	
Forced Entry Resistance (ASTM F-588)	Grade 20	
	Expiration: 05-04-2020	
X25 Double-hung Window - Standard performance		
AAMA/WDMA/CSA 101/I.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 ² (0.47 L/s/m ²)	
Water Penetration Resistance Test Pressure psf (Pa)	15.04 psf (720 Pa)	
Forced Entry Resistance (ASTM F-588)	Grade 20	
	Expiration: 02-07-2020	
X25 Horizontal Slider Window (2-panel)		
AAMA/WDMA/CSA 101/I.S.2/A440-08 Performance Grade (PG)	R-PG25 (72" x 48")	
	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)	0.10 cfm/ft ² (0.51 L/s/m ²)	
Water Penetration Resistance Test Pressure psf (Pa)	3.76 psf (180 Pa)	
Forced Entry Resistance (ASTM F-588)	Grade 10	
	Expiration: 08-25-2019	
X25 Horizontal Slider Window (3-panel)		
AAMA/WDMA/CSA 101/I.S.2/A440-08 Performance Grade (PG)	R-PG25 (XOX 132" x 48")	
	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 ² (0.5 L/s/m ²)	
Water Penetration Resistance Test Pressure psf (Pa)	3.76 psf (180 Pa)	
Forced Entry Resistance (ASTM F-588)	Grade 10	
	Expiration: 08-02-2020	

Tested unit configuration:

1/3 - 1/3 - 1/3

Tested window size qualifies

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