

VWP91 Windows Performance Guide

Window Type	Fixed	Dual Action	Casement	Awning	Casement Door
AAMA Rating	CW-PG60	CW-PG50	CW-PG50	CW-PG50	CW-PG40
Test Size	1500*2500	1200*1800	800*1500	1200*1000	1000*2500
Air Infiltration	0.08 L/s·m ²	0.12 L/s·m	0.12 L/s·m ²	0.39 L/s·m ²	0.20 L/s·m ²
Water Resistance	720 Pa	720 Pa	580 Pa	720 Pa	360 Pa
Design Pressure	60.15 psf	50.1 psf	50.1 psf	50.1 psf	40.1 psf
Uniform Load	90.22 psf	75.2 psf	75.2 psf	75.2 psf	60.15 psf
U Value -Double Glazing	0.27-0.39	0.28-0.29	0.29-0.30	0.29-0.30	0.27-0.28
U Value- Triple Glazing	0.17-0.18	0.19-0.20	0.22-0.22	0.22-0.22	0.19-0.20
U Value- HVIG***	0.14-0.16	0.16-0.18	0.21-0.23	0.21-0.22	0.18-0.19

Physical performance test standard: ASTM E283/E283M-2019; ASTM E547-00 (R2016); ASTM E330/E330M-2014(R2021); ASTM F588-17; AAMA/WDMA/CSA101/I.S.2/A440-17 Clause 9.3.1, Clause 9.3.6.4.2, Clause 9.3.6.5.2

Thermal performance test standard: ANSI/NFRC 100-2023, ANSI/NFRC 200-2023, NFRC 500-2017

NFRC Thermal Value -VWP91 CASEMENT

Glass Combination	NFRC U	VLT %	SHGC	Glass Thick
6D80+12Ar+6C	0.30	36	0.20	24mm
6SB70+16Ar+6C	0.29	33	0.15	28mm
6D80+12Ar+6D80+12AR+6C	0.22	28	0.16	42mm
6S1.16+6AR+12.15S1.16 VIG	0.23	36	0.24	24.15mm
6SB70 +9AR+12.15S1.16 VIG	0.22	26	0.12	27.15mm
6D80+18Ar+12.15D80 VIG	0.22 0.18*	28	0.15	36.15mm

* NFRC actual tested U value is 0.03 better than simulation U value because of not updated Jinjing Optisolar D80 ,IGDB code -17611.

* VWS70 casement window was tested and certified by AAMA and NFRC, equipped with SGCC | IGCC certified IGU and VIG | HVIG Products.

