

TEST REPORT FOR VIG WINDOWS (SHANDONG) CO., LTD

Report No: Q8071.01-116-45 R0

Date: 04/22/24

SECTION 6
SIMULATION RESULTS

TOTAL PRODUCT CALCULATIONS (VWP91 Awning)												
Option Number	Pane Thickness 1 (in)	Gap Width 1 (in)	Pane Thickness 2 (in)	Gap Width 2 (in)	Pane Thickness 3 (in)	Gap Width 3 (in)	Pane Thickness 4 (in)	Gap Fill	Low-e (Surface #)	Tint	Spacer	Grid Type
	U-Factor (Btu/Hr-Ft2-F)			Solar Heat Gain Coefficient (SHGC) Grids (None / <1 / >=1)				Visible Transmittance (VT) Grids (None / <1 / >=1)		Condensation Resistance (CR)		
1	Optisolar D80 / Arg90 / Clear (6mm/6mm) 24mm IG											
	0.235	0.472	0.231					ARG90	0.072(#2)	CL	TS-D	N
	U-Factor 0.30			SHGC(N) 0.20				VT(N) 0.36		CR 58		
2	Solarban 70 / Arg90 / Clear (6mm/6mm) 24mm IG											
	0.223	0.472	0.231					ARG90	0.018(#2)	CL	TS-D	N
	U-Factor 0.29			SHGC(N) 0.15				VT(N) 0.33		CR 60		
3	Optisolar D80 / Arg90 / Clear (6mm/6mm) 28mm IG											
	0.235	0.630	0.231					ARG90	0.072(#2)	CL	TS-D	N
	U-Factor 0.30			SHGC(N) 0.20				VT(N) 0.36		CR 56		
4	Solarban 70 / Arg90 / Clear (6mm/6mm) 28mm IG											
	0.223	0.630	0.231					ARG90	0.018(#2)	CL	TS-D	N
	U-Factor 0.29			SHGC(N) 0.15				VT(N) 0.33		CR 57		
5	Optilite S1,16 / VIG / Clear (5mm/5mm) 10,15mm IG											
	0.189	0.006	0.191					VIG	0.076(#2)	CL	TS-D	N
	U-Factor 0.26			SHGC(N) 0.30				VT(N) 0.41		CR 11		
6	Optisolar D80 / VIG / Clear (6mm/6mm) 12,15mm IG											
	0.235	0.006	0.231					VIG	0.072(#2)	CL	TS-D	N
	U-Factor 0.27			SHGC(N) 0.20				VT(N) 0.36		CR 12		
7	Optisolar D80 / Arg90 / Optisolar D80 / Arg90 / Clear (6mm/6mm/6mm) 42mm IG											
	0.235	0.472	0.235	0.472	0.231			ARG90	0.072(#2) / 0.072(#4)	CL	TS-D	N
	U-Factor 0.22			SHGC(N) 0.16				VT(N) 0.28		CR 73		
8	Optilite S1,16 / Arg90 / Optilite S1,16 / Arg90 / Clear (5mm/5mm/5mm) 39mm IG											
	0.189	0.472	0.189	0.472	0.191			ARG90	0.076(#2) / 0.076(#4)	CL	TS-D	N
	U-Factor 0.22			SHGC(N) 0.25				VT(N) 0.36		CR 73		
9	Solarban 70 / Arg90 / Optilite S1,16 / Arg90 / Clear (6mm/5mm/5mm) 40mm IG											
	0.223	0.472	0.189	0.472	0.191			ARG90	0.018(#2) / 0.076(#4)	CL	TS-D	N
	U-Factor 0.22			SHGC(N) 0.13				VT(N) 0.30		CR 73		
10	Solarban 70 / Arg90 / Optilite S1,16 / Arg90 / Clear (6mm/6mm/6mm) 42mm IG											
	0.223	0.472	0.235	0.472	0.231			ARG90	0.018(#2) / 0.072(#4)	CL	TS-D	N
	U-Factor 0.22			SHGC(N) 0.13				VT(N) 0.26		CR 74		

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SECTION 6 (Continued)
SIMULATION RESULTS

TOTAL PRODUCT CALCULATIONS (VWP91 Awning)												
Option Number	Pane Thickness 1 (in)	Gap Width 1 (in)	Pane Thickness 2 (in)	Gap Width 2 (in)	Pane Thickness 3 (in)	Gap Width 3 (in)	Pane Thickness 4 (in)	Gap Fill	Low-e (Surface #)	Tint	Spacer	Grid Type
	U-Factor (Btu/Hr-Ft2-F)			Solar Heat Gain Coefficient (SHGC) Grids (None / <1 / >=1)				Visible Transmittance (VT) Grids (None / <1 / >=1)			Condensation Resistance (CR)	
11	Optisolar D80 / Arg90 / Optisolar D80 / VIG / Clear (6mm/6mm/6mm) 30,15mm IG											
	0.235	0.472	0.235	0.006	0.231			ARG90/VIG	0.072(#2) / 0.072(#4)	CL	TS-D	N
	U-Factor 0.22			SHGC(N) 0.15				VT(N) 0.28			CR 25	
12	Optisolar D80 / Arg90 / Optisolar D80 / VIG / Clear (6mm/6mm/6mm) 36,15mm IG											
	0.235	0.709	0.235	0.006	0.231			ARG90/VIG	0.072(#2) / 0.072(#4)	CL	TS-D	N
	U-Factor 0.21			SHGC(N) 0.15				VT(N) 0.28			CR 26	
13	Optilite S1,16 / Arg90 / Optilite S1,16 / VIG / Clear (6mm/6mm/6mm) 24,15mm IG											
	0.189	0.354	0.189	0.006	0.191			ARG90/VIG	0.076(#2) / 0.076(#4)	CL	TS-D	N
	U-Factor 0.22			SHGC(N) 0.24				VT(N) 0.36			CR 23	
14	YNE0675 Low-e / Arg90 / Clear Lami (10mm/8mm 1,52SGP 8mm) 47,52mm IG											
	0.394	0.787	0.652					ARG90	0.032(#2)	CL	TS-D	N
	U-Factor 0.28			SHGC(N) 0.21				VT(N) 0.34			CR 58	
15	Solarban 70 / Arg90 / Optilite S1,16 / VIG / Clear (6mm/5mm/5mm) 25,15mm IG											
	0.223	0.354	0.189	0.006	0.191			ARG90/VIG	0.018(#2) / 0.076(#4)	CL	TS-D	N
	U-Factor 0.22			SHGC(N) 0.13				VT(N) 0.30			CR 24	
16	Solarban 70 / Arg90 / Optilite S1,16 / VIG / Clear (6mm/6mm/6mm) 27,15mm IG											
	0.223	0.354	0.235	0.006	0.231			ARG90/VIG	0.018(#2) / 0.072(#4)	CL	TS-D	N
	U-Factor 0.22			SHGC(N) 0.12				VT(N) 0.26			CR 24	
17	Optisolar D80 Lami / Arg90 / Clear Lami (8mm 1,52SGP 6mm/8mm 1,52SGP 6mm) 59,56mm IG											
	0.576	1.102	0.652					ARG90	0.072(#2)	CL	TS-D	N
	U-Factor 0.28			SHGC(N) 0.19				VT(N) 0.33			CR 60	
18	Clear Lami / Arg90 / Optilite S1,16 / VIG / Clear (6mm 2,28SGP 6mm/5mm/5mm) 36,43mm IG											
	0.551	0.472	0.189	0.006	0.191			ARG90/VIG	0.076(#4)	CL	TS-D	N
	U-Factor 0.22			SHGC(N) 0.24				VT(N) 0.36			CR 18	
19	Clear Lami / Arg90 / Optisolar D80 / VIG / Clear (6mm 1,52SGP 6mm/6mm/6mm) 37,67mm IG											
	0.525	0.472	0.235	0.006	0.231			ARG90/VIG	0.072(#4)	CL	TS-D	N
	U-Factor 0.22			SHGC(N) 0.18				VT(N) 0.32			CR 18	
20	Clear Lami / Arg90 / Optilite S1,16 / VIG / Clear (6mm 1,52SGP 6mm/5mm/5mm) 35,67mm IG											
	0.525	0.472	0.189	0.006	0.191			ARG90/VIG	0.076(#4)	CL	TS-D	N
	U-Factor 0.22			SHGC(N) 0.24				VT(N) 0.36			CR 18	