

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

Report No: Q8067.01-116-45 R0

Date: 04/11/24

SECTION 6
SIMULATION RESULTS

TOTAL PRODUCT CALCULATIONS (VWP91 Dual Action)												
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 0.29			SHGC(N) 0.27				VT(N) 0.49		CR 59		
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 0.27			SHGC(N) 0.20				VT(N) 0.46		CR 61		
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 0.29			SHGC(N) 0.27				VT(N) 0.49		CR 60		
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 0.28			SHGC(N) 0.19				VT(N) 0.46		CR 61		
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 0.21			SHGC(N) 0.40				VT(N) 0.56		CR 26		
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 0.20			SHGC(N) 0.26				VT(N) 0.49		CR 27		
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 0.19			SHGC(N) 0.21				VT(N) 0.38		CR 74		
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 0.19			SHGC(N) 0.34				VT(N) 0.50		CR 74		
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 0.19			SHGC(N) 0.17				VT(N) 0.41		CR 74		
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 0.19			SHGC(N) 0.16				VT(N) 0.36		CR 75		

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SECTION 6 (Continued)
SIMULATION RESULTS

TOTAL PRODUCT CALCULATIONS (VWP91 Dual Action)												
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 0.17			SHGC(N) 0.20				VT(N) 0.38			CR 38	
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 0.16			SHGC(N) 0.20				VT(N) 0.38			CR 39	
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 0.18			SHGC(N) 0.32				VT(N) 0.50			CR 36	
14	Optisolar UD80 / Arg90 / Clear (8mm/6mm 1,52SGP 6mm) 48,5mm IG											
	0.313	1.102	0.525					ARG90	0.058(#2)	CL	TS-D	N
	U-Factor 0.31			SHGC(N) 0.29				VT(N) 0.50			CR 54	
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 0.17			SHGC(N) 0.17				VT(N) 0.41			CR 38	
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 0.17			SHGC(N) 0.15				VT(N) 0.36			CR 37	
17	Clear Lami / Arg90 / OptisolarD80 / VIG / Clear (6mm 2,28SGP 6mm/6mm/6mm) 38,43mm IG											
	0.551	0.472	0.235	0.006	0.231			ARG90/VIG	0.072(#4)	CL	TS-D	N
	U-Factor 0.18			SHGC(N) 0.23				VT(N) 0.43			CR 33	
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 0.18			SHGC(N) 0.32				VT(N) 0.49			CR 33	
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 0.18			SHGC(N) 0.24				VT(N) 0.43			CR 32	
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 0.18			SHGC(N) 0.32				VT(N) 0.50			CR 32	