

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

Report No: Q8070.01-116-45 R0

Date: 04/22/24

SECTION 6
SIMULATION RESULTS

TOTAL PRODUCT CALCULATIONS (VWP91 Casement)												
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 60	
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 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 0.30			SHGC(N) 0.20					VT(N) 0.36		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 0.29			SHGC(N) 0.15					VT(N) 0.33		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 0.27			SHGC(N) 0.30					VT(N) 0.41		CR 40	
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 40	
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 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 0.22			SHGC(N) 0.25					VT(N) 0.36		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 0.22			SHGC(N) 0.13					VT(N) 0.30		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 0.22			SHGC(N) 0.13					VT(N) 0.26		CR 74	

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SECTION 6 (Continued)
SIMULATION RESULTS

TOTAL PRODUCT CALCULATIONS (VWP91 Casement)													
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	
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	
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		0.23	SHGC(N)				0.24	VT(N)		0.36	CR	
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	
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	
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	
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	
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		0.23	SHGC(N)				0.24	VT(N)		0.36	CR	
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	
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		0.23	SHGC(N)				0.24	VT(N)		0.36	CR	