

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

Report No: Q8060.01-116-45 R0

Date: 04/04/24

SECTION 6
SIMULATION RESULTS

TOTAL PRODUCT CALCULATIONS (VWS70 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 0.35			SHGC(N) 0.20				VT(N) 0.34		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 0.34			SHGC(N) 0.15				VT(N) 0.32		CR 59		
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 0.35			SHGC(N) 0.20				VT(N) 0.34		CR 59		
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 0.34			SHGC(N) 0.14				VT(N) 0.32		CR 60		
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 0.32			SHGC(N) 0.29				VT(N) 0.39		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 0.32			SHGC(N) 0.19				VT(N) 0.34		CR 40		
7	Optisolar D80 / Arg90 / Optisolar D80 / Arg90 / Clear (6mm/6mm/6mm) 36mm IG											
	0.235	0.354	0.235	0.354	0.231			ARG90	0.072(#2) / 0.072(#4)	CL	TS-D	N
	U-Factor 0.29			SHGC(N) 0.16				VT(N) 0.26		CR 66		
8	Optilite S1,16 / Arg90 / Optilite S1,16 / Arg90 / Clear (6mm/6mm/6mm) 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 0.28			SHGC(N) 0.24				VT(N) 0.34		CR 66		
9	Solarban 70 / Arg90 / Optilite S1,16 / Arg90 / Clear (6mm/5mm/5mm) 34mm IG											
	0.223	0.354	0.189	0.354	0.191			ARG90	0.018(#2) / 0.076(#4)	CL	TS-D	N
	U-Factor 0.29			SHGC(N) 0.13				VT(N) 0.28		CR 66		
10	Solarban 70 / Arg90 / Optilite S1,16 / Arg90 / Clear (6mm/6mm/6mm) 36mm IG											
	0.223	0.354	0.235	0.354	0.231			ARG90	0.018(#2) / 0.072(#4)	CL	TS-D	N
	U-Factor 0.29			SHGC(N) 0.12				VT(N) 0.25		CR 66		

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SECTION 6 (Continued)
SIMULATION RESULTS

TOTAL PRODUCT CALCULATIONS (VWS70 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		0.27	SHGC(N)				0.14	VT(N)		0.26	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		0.26	SHGC(N)				0.15	VT(N)		0.26	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		0.28	SHGC(N)				0.23	VT(N)		0.34	CR	
14	Optilite S1,16 / Arg90 / Optilite S1,16 / VIG / Clear (6mm/6mm/6mm) 27,15mm IG												
	0.189	0.472	0.189	0.006	0.191			ARG90/VIG	0.076(#2) / 0.076(#4)	CL	TS-D	N	
	U-Factor		0.27	SHGC(N)				0.23	VT(N)		0.34	CR	
15	Solarban 70 / Arg90 / Optilite S1,16 / VIG / Clear (6mm/5mm/5mm) 34mm 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		0.27	SHGC(N)				0.13	VT(N)		0.28	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		0.27	SHGC(N)				0.12	VT(N)		0.25	CR	
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		0.28	SHGC(N)				0.17	VT(N)		0.30	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		0.28	SHGC(N)				0.23	VT(N)		0.34	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		0.28	SHGC(N)				0.17	VT(N)		0.30	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		0.28	SHGC(N)				0.23	VT(N)		0.34	CR	