

TEST REPORT FOR GRAHAM ARCHITECTURAL PRODUCTS CORP.

Report No: L9713.01-116-45

Date: 02/22/21

SECTION 6

SIMULATION RESULTS

TOTAL PRODUCT CALCULATIONS (SR6700 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-Ft ² -F)			Solar Heat Gain Coefficient (SHGC) Grids (None / <1 / >=1)				Visible Transmittance (VT) Grids (None / <1 / >=1)		Condensation Resistance (CR)		
1	No Perimeter Insulation: E272 / ARG90 / CLR (5MM/5MM) - 1" IG											
	0.187	0.625	0.185					ARG90	0.042(#2)	CL	SS-D	N
	U-Factor 0.48			SHGC (N) 0.31				VT (N) 0.52		CR 40		
2	No Perimeter Insulation: E272 / ARG90 / i89 (5MM/5MM) - 1" IG											
	0.187	0.625	0.187					ARG90	0.042(#2) / 0.149(#4)	CL	SS-D	N
	U-Factor 0.44			SHGC (N) 0.31				VT (N) 0.50		CR 39		
3	No Perimeter Insulation: E366 / ARG90 / CLR (5MM/5MM) - 1" IG											
	0.185	0.625	0.185					ARG90	0.020(#2)	CL	SS-D	N
	U-Factor 0.47			SHGC (N) 0.22				VT (N) 0.47		CR 40		
4	No Perimeter Insulation: E366 / ARG90 / i89 (5MM/5MM) - 1" IG											
	0.185	0.625	0.187					ARG90	0.020(#2) / 0.149(#4)	CL	SS-D	N
	U-Factor 0.43			SHGC (N) 0.21				VT (N) 0.45		CR 39		
5	No Perimeter Insulation: E270 / ARG90 / CLR (6MM/6MM) - 1" IG											
	0.224	0.500	0.224					ARG90	0.035(#2)	CL	SS-D	N
	U-Factor 0.47			SHGC (N) 0.28				VT (N) 0.49		CR 40		
6	No Perimeter Insulation: E272 / AIR / CLR (6MM/6MM) - 1" IG											
	0.224	0.500	0.224					AIR	0.042(#2)	CL	SS-D	N
	U-Factor 0.50			SHGC (N) 0.31				VT (N) 0.51		CR 40		
7	No Perimeter Insulation: E272 / ARG90 / CLR (6MM/6MM) - 1" IG											
	0.224	0.500	0.224					ARG90	0.042(#2)	CL	SS-D	N
	U-Factor 0.47			SHGC (N) 0.31				VT (N) 0.51		CR 40		
8	No Perimeter Insulation: E272 / ARG90 / i89 (6MM/6MM) - 1" IG											
	0.224	0.500	0.223					ARG90	0.042(#2) / 0.149(#4)	CL	SS-D	N
	U-Factor 0.44			SHGC (N) 0.30				VT (N) 0.50		CR 40		
9	No Perimeter Insulation: E340 / ARG90 / CLR (6MM/6MM) - 1" IG											
	0.224	0.500	0.224					ARG90	0.028(#2)	CL	SS-D	N
	U-Factor 0.47			SHGC (N) 0.15				VT (N) 0.28		CR 40		
10	No Perimeter Insulation: E366 / AIR / CLR (6MM/6MM) - 1" IG											
	0.224	0.500	0.224					AIR	0.020(#2)	CL	SS-D	N
	U-Factor 0.50			SHGC (N) 0.22				VT (N) 0.46		CR 40		

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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	No Perimeter Insulation: E366 / ARG90 / CLR (6MM/6MM) - 1" IG											
	0.224	0.500	0.224					ARG90	0.020(#2)	CL	SS-D	N
	U-Factor 0.47			SHGC (N) 0.22				VT (N) 0.46		CR 40		
12	No Perimeter Insulation: E366 / ARG90 / i89 (6MM/6MM) - 1" IG											
	0.224	0.500	0.223					ARG90	0.020(#2) / 0.149(#4)	CL	SS-D	N
	U-Factor 0.43			SHGC (N) 0.21				VT (N) 0.45		CR 40		
13	No Perimeter Insulation: E272 / ARG90 / CL-LAMI (6MM/2.7 030 PVB 2.7) - 1" IG											
	0.224	0.469	0.243					ARG90	0.042(#2)	CL	SS-D	N
	U-Factor 0.47			SHGC (N) 0.31				VT (N) 0.51		CR 40		
14	No Perimeter Insulation: E366 / ARG90 / CL-LAMI (6MM/2.7 030 PVB 2.7) - 1" IG											
	0.224	0.469	0.243					ARG90	0.020(#2)	CL	SS-D	N
	U-Factor 0.46			SHGC (N) 0.21				VT (N) 0.46		CR 40		
15	No Perimeter Insulation: SB60 / ARG90 / CLR (6MM/6MM) - 1" IG											
	0.223	0.500	0.223					ARG90	0.035(#2)	CL	SS-D	N
	U-Factor 0.48			SHGC (N) 0.30				VT (N) 0.51		CR 39		
16	No Perimeter Insulation: SB70 / ARG90 / CLR (6MM/6MM) - 1" IG											
	0.223	0.500	0.223					ARG90	0.018(#2)	CL	SS-D	N
	U-Factor 0.47			SHGC (N) 0.21				VT (N) 0.47		CR 39		
17	No Perimeter Insulation: SN68 / AIR / CLR (6MM/6MM) - 1" IG											
	0.221	0.500	0.221					AIR	0.039(#2)	CL	SS-D	N
	U-Factor 0.51			SHGC (N) 0.29				VT (N) 0.50		CR 39		
18	No Perimeter Insulation: SN68 / ARG90 / CLR (6MM/6MM) - 1" IG											
	0.221	0.500	0.221					ARG90	0.039(#2)	CL	SS-D	N
	U-Factor 0.48			SHGC (N) 0.29				VT (N) 0.50		CR 39		
19	No Perimeter Insulation: SNX 62/27 / ARG90 / CLR (6MM/6MM) - 1" IG											
	0.221	0.500	0.221					ARG90	0.020(#2)	CL	SS-D	N
	U-Factor 0.47			SHGC (N) 0.17				VT (N) 0.33		CR 39		
20	No Perimeter Insulation: SNX 62/27 / ARG90 / CL-LAMI (6MM/2.7 030 PVB 2.7) - 1" IG											
	0.221	0.469	0.243					ARG90	0.020(#2)	CL	SS-D	N
	U-Factor 0.47			SHGC (N) 0.17				VT (N) 0.32		CR 39		

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	U-Factor (Btu/Hr-Ft ² -F)			Solar Heat Gain Coefficient (SHGC) Grids (None / <1 / >=1)				Visible Transmittance (VT) Grids (None / <1 / >=1)		Condensation Resistance (CR)		
21	Partial Perimeter Insulation, XL Edge: E272 / ARG90 / CLR (6MM/6MM) - 1" IG											
	0.224	0.500	0.224					ARG90	0.042(#2)	CL	SS-D	N
	U-Factor 0.46			SHGC (N) 0.31				VT (N) 0.51		CR 42		
22	Full Perimeter Insulation, XL Edge: E272 / ARG90 / CLR (6MM/6MM) - 1" IG											
	0.224	0.500	0.224					ARG90	0.042(#2)	CL	SS-D	N
	U-Factor 0.46			SHGC (N) 0.31				VT (N) 0.51		CR 42		
23	Endur Spacer: E272 / ARG90 / CLR (6MM/6MM) - 1" IG											
	0.224	0.500	0.224					ARG90	0.042(#2)	CL	SS-D	N
	U-Factor 0.47			SHGC (N) 0.31				VT (N) 0.51		CR 40		
24	Chromatech Ultra: SN68 / ARG90 / CLR (6MM/6MM) - 1" IG											
	0.221	0.500	0.221					ARG90	0.039(#2)	CL	TS-D	N
	U-Factor 0.47			SHGC (N) 0.29				VT (N) 0.50		CR 40		
25	No Perimeter Insulation: SB70 / ARG90 / LAMI (6MM/3MM 030PVB 3mm) - 1" IG											
	0.223	0.470	0.288					ARG90	0.018(#2)	CL	SS-D	N
	U-Factor 0.47			SHGC (N) 0.21				VT (N) 0.47		CR 39		
26	No Perimeter Insulation: SB70-LAMI / ARG90 / LAMI (3MM 030PVB 3MM/3MM 030PVB 3MM) - 1" IG											
	0.288	0.438	0.288					ARG90	0.018(#2)	CL	SS-D	N
	U-Factor 0.47			SHGC (N) 0.21				VT (N) 0.44		CR 39		