

## TEST REPORT FOR GRAHAM ARCHITECTURAL PRODUCTS CORP.

Report No: K0978.01-116-45 R0

Date: 11/20/19

### SECTION 6

### SIMULATION RESULTS

TOTAL PRODUCT CALCULATIONS (GS6600 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	Cardinal SS-D: E272/ARG95/CLR (6MM/6MM) 1" IG											
	0.224	0.500	0.224					ARG95	0.042(#2)	CL	SS-D	N
	U-Factor 0.46			SHGC (N) 0.29				VT (N) 0.47		CR 40		
2	Cardinal SS-D: E272/AIR/CLR (6MM/6MM) 1" IG											
	0.224	0.500	0.224					AIR	0.042(#2)	CL	SS-D	N
	U-Factor 0.49			SHGC (N) 0.29				VT (N) 0.47		CR 40		
3	Cardinal SS-D: E272/ARG95/CLR (5MM/5MM) 1" IG											
	0.187	0.625	0.185					ARG95	0.042(#2)	CL	SS-D	N
	U-Factor 0.47			SHGC (N) 0.29				VT (N) 0.48		CR 40		
4	Cardinal SS-D: E366/ARG95/CLR (6MM/6MM) 1" IG											
	0.224	0.500	0.224					ARG95	0.020(#2)	CL	SS-D	N
	U-Factor 0.46			SHGC (N) 0.20				VT (N) 0.42		CR 40		
5	Cardinal SS-D: E366/AIR/CLR (6MM/6MM) 1" IG											
	0.224	0.500	0.224					AIR	0.020(#2)	CL	SS-D	N
	U-Factor 0.49			SHGC (N) 0.20				VT (N) 0.42		CR 40		
6	Cardinal SS-D: E180/ARG95/CLR (5MM/5MM) 1" IG											
	0.187	0.625	0.185					ARG95	0.068(#2)	CL	SS-D	N
	U-Factor 0.47			SHGC (N) 0.44				VT (N) 0.52		CR 40		
7	Cardinal SS-D: E340/ARG95/CLR (6MM/6MM) 1" IG											
	0.224	0.500	0.224					ARG95	0.028(#2)	CL	SS-D	N
	U-Factor 0.46			SHGC (N) 0.14				VT (N) 0.25		CR 40		
8	Cardinal SS-D: E272/ARG95/CLR-LAMI (6MM/2-7MM 030PVB 2-7MM) 1" IG											
	0.224	0.507	0.243					ARG95	0.042(#2)	CL	SS-D	N
	U-Factor 0.46			SHGC (N) 0.28				VT (N) 0.47		CR 40		
9	Cardinal SS-D: E366/ARG95/CLR-LAMI (6MM/2-7MM 030PVB 2-7MM) 1" IG											
	0.224	0.507	0.243					ARG95	0.020(#2)	CL	SS-D	N
	U-Factor 0.46			SHGC (N) 0.20				VT (N) 0.42		CR 40		
10	Viracon SS-D: SunGuardSN68/AIR/CLR (6MM/6MM) 1" IG											
	0.221	0.500	0.221					AIR	0.039(#2)	CL	SS-D	N
	U-Factor 0.50			SHGC (N) 0.27				VT (N) 0.46		CR 39		

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### SECTION 6 (Continued)

### SIMULATION RESULTS

TOTAL PRODUCT CALCULATIONS (GS6600 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	Viracon SS-D: SunGuardSN68/ARG95/CLR (6MM/6MM) 1" IG											
	0.221	0.500	0.221					ARG95	0.039(#2)	CL	SS-D	N
	U-Factor 0.47			SHGC (N) 0.27				VT (N) 0.46		CR 39		
12	Viracon SS-D: SunGuardSNX6227/ARG95/CLR (6MM/6MM) 1" IG											
	0.221	0.500	0.221					ARG95	0.020(#2)	CL	SS-D	N
	U-Factor 0.47			SHGC (N) 0.19				VT (N) 0.42		CR 39		
13	Viracon SS-D: SunGuardSNX6227/ARG95/CLR-LAMI (6MM/2-7MM 030PVB 2-7MM) 1" IG											
	0.221	0.507	0.243					ARG95	0.020(#2)	CL	SS-D	N
	U-Factor 0.46			SHGC (N) 0.19				VT (N) 0.41		CR 39		
14	Viracon SS-D: SB60/ARG95/CLR (6MM/6MM) 1" IG											
	0.223	0.500	0.223					ARG95	0.035(#2)	CL	SS-D	N
	U-Factor 0.47			SHGC (N) 0.28				VT (N) 0.47		CR 39		
15	Viracon SS-D: SB70/ARG95/CLR (6MM/6MM) 1" IG											
	0.223	0.500	0.223					ARG95	0.018(#2)	CL	SS-D	N
	U-Factor 0.46			SHGC (N) 0.20				VT (N) 0.43		CR 39		
16	Cardinal SS-D: E272/ARG95/i89 (6MM/6MM) 1" IG											
	0.224	0.500	0.223					ARG95	0.042(#2) / 0.149(#4)	CL	SS-D	N
	U-Factor 0.43			SHGC (N) 0.28				VT (N) 0.46		CR 40		
17	Cardinal SS-D: E272/ARG95/i89 (5MM/5MM) 1" IG											
	0.187	0.625	0.187					ARG95	0.042(#2) / 0.149(#4)	CL	SS-D	N
	U-Factor 0.43			SHGC (N) 0.28				VT (N) 0.46		CR 39		
18	Cardinal SS-D: E366/ARG95/i89 (6MM/6MM) 1" IG											
	0.224	0.500	0.223					ARG95	0.020(#2) / 0.149(#4)	CL	SS-D	N
	U-Factor 0.42			SHGC (N) 0.20				VT (N) 0.41		CR 40		
19	Cardinal SS-D: E366/AIR/i89 (6MM/6MM) 1" IG											
	0.224	0.500	0.223					AIR	0.020(#2) / 0.149(#4)	CL	SS-D	N
	U-Factor 0.44			SHGC (N) 0.20				VT (N) 0.41		CR 40		
20	Viracon SS-D: SunGuardSNX6227/ARG95/IS20 (6MM/6MM) 1" IG											
	0.221	0.500	0.221					ARG95	0.020(#2) / 0.198(#4)	CL	SS-D	N
	U-Factor 0.43			SHGC (N) 0.19				VT (N) 0.40		CR 39		