

TEST REPORT FOR GRAHAM ARCHITECTURAL PRODUCTS CORP.

Report No: K0975.01-116-45 R0

Date: 11/27/19

SECTION 6

SIMULATION RESULTS

TOTAL PRODUCT CALCULATIONS (GS6600 Fixed)												
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	NARROW / 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 0.33			SHGC (N) 0.36				VT (N) 0.61		CR 46		
2	NARROW / 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 0.37			SHGC (N) 0.36				VT (N) 0.61		CR 45		
3	NARROW / 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 0.34			SHGC (N) 0.36				VT (N) 0.62		CR 45		
4	NARROW / 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 0.32			SHGC (N) 0.25				VT (N) 0.55		CR 46		
5	NARROW / 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 0.36			SHGC (N) 0.25				VT (N) 0.55		CR 45		
6	NARROW / 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 0.34			SHGC (N) 0.55				VT (N) 0.69		CR 45		
7	NARROW / 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 0.32			SHGC (N) 0.17				VT (N) 0.33		CR 46		
8	NARROW / 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 0.33			SHGC (N) 0.36				VT (N) 0.61		CR 45		
9	NARROW / 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 0.32			SHGC (N) 0.24				VT (N) 0.55		CR 45		
10	NARROW / 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 0.37			SHGC (N) 0.34				VT (N) 0.60		CR 44		

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SECTION 6 (Continued)

SIMULATION RESULTS

TOTAL PRODUCT CALCULATIONS (GS6600 Fixed)												
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	NARROW / 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 0.33			SHGC (N) 0.34				VT (N) 0.60		CR 44		
12	NARROW / 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 0.33			SHGC (N) 0.24				VT (N) 0.54		CR 44		
13	NARROW / 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 0.33			SHGC (N) 0.23				VT (N) 0.54		CR 44		
14	NARROW / 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 0.33			SHGC (N) 0.35				VT (N) 0.62		CR 44		
15	NARROW / 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 0.33			SHGC (N) 0.24				VT (N) 0.57		CR 44		
16	NARROW / 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 0.28			SHGC (N) 0.35				VT (N) 0.60		CR 44		
17	NARROW / 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 0.29			SHGC (N) 0.36				VT (N) 0.61		CR 44		
18	NARROW / 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 0.28			SHGC (N) 0.24				VT (N) 0.54		CR 45		
19	NARROW / 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 0.31			SHGC (N) 0.24				VT (N) 0.54		CR 42		
20	NARROW / 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 0.29			SHGC (N) 0.23				VT (N) 0.53		CR 43		

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SIMULATION RESULTS

TOTAL PRODUCT CALCULATIONS (GS6600 Fixed)												
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)		
21	WIDE / 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 0.35			SHGC (N) 0.33				VT (N) 0.55		CR 46		
22	WIDE / 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 0.39			SHGC (N) 0.33				VT (N) 0.55		CR 46		
23	WIDE / 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 0.36			SHGC (N) 0.33				VT (N) 0.56		CR 45		
24	WIDE / 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 0.35			SHGC (N) 0.22				VT (N) 0.49		CR 46		
25	WIDE / 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 0.39			SHGC (N) 0.23				VT (N) 0.49		CR 46		
26	WIDE / 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 0.37			SHGC (N) 0.50				VT (N) 0.61		CR 45		
27	WIDE / 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 0.35			SHGC (N) 0.15				VT (N) 0.30		CR 46		
28	WIDE / 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 0.36			SHGC (N) 0.32				VT (N) 0.55		CR 45		
29	WIDE / 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 0.35			SHGC (N) 0.22				VT (N) 0.49		CR 45		
30	WIDE / 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 0.40			SHGC (N) 0.31				VT (N) 0.53		CR 44		

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SIMULATION RESULTS

TOTAL PRODUCT CALCULATIONS (GS6600 Fixed)												
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)		
31	WIDE / 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 0.36			SHGC (N) 0.30				VT (N) 0.53		CR 45		
32	WIDE / 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 0.36			SHGC (N) 0.22				VT (N) 0.49		CR 45		
33	WIDE / 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 0.35			SHGC (N) 0.21				VT (N) 0.48		CR 44		
34	WIDE / 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 0.36			SHGC (N) 0.31				VT (N) 0.55		CR 45		
35	WIDE / 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 0.36			SHGC (N) 0.22				VT (N) 0.51		CR 45		
36	WIDE / 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 0.32			SHGC (N) 0.32				VT (N) 0.54		CR 44		
37	WIDE / 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 0.32			SHGC (N) 0.32				VT (N) 0.54		CR 44		
38	WIDE / 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 0.31			SHGC (N) 0.22				VT (N) 0.48		CR 45		
39	WIDE / 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 0.34			SHGC (N) 0.22				VT (N) 0.48		CR 42		
40	WIDE / 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 0.32			SHGC (N) 0.21				VT (N) 0.47		CR 43		