

NFRC 100/200/500 Summary Sheet
Graham Architectural Products Corporation
1200 Fixed

ID	Pane Thickness 1	Gap Width 1	Pane Thickness 2	Gap Width 2	Pane Thickness 3	Gap Width 3	Pane Thickness 4	Gap Fill	Low-e	Tint	Spacer	Grid Type
1	3/16" Cardinal LoE ² -272 / 3/16" Clear, COG U-Factor = 0.257, COG Temperature = 55.4°F											
	0.187	0.625	0.187					ARG90	0.042(#2)	LE	A1-D	N
	U-Factor 0.38		SHGC (N)			0.37			VT (N)		0.63	
1	3/16" Clear / 3/16" Cardinal LoE ² -272, COG U-Factor = 0.257, COG Temperature = 55.4°F											
	0.187	0.625	0.187					ARG90	0.042(#3)	LE	A1-D	N
	U-Factor 0.38		SHGC (N)			0.44			VT (N)		0.63	
2	1/4" Cardinal LoE ² -272 / 1/4" Clear, COG U-Factor = 0.248, COG Temperature = 55.9°F											
	0.224	0.500	0.223					ARG90	0.042(#2)	LE	A1-D	N
	U-Factor 0.37		SHGC (N)			0.36			VT (N)		0.62	
2	1/4" Clear / 1/4" Cardinal LoE ² -272, COG U-Factor = 0.248, COG Temperature = 55.9°F											
	0.223	0.500	0.224					ARG90	0.042(#3)	LE	A1-D	N
	U-Factor 0.37		SHGC (N)			0.44			VT (N)		0.62	
3	DS Cardinal LoE ² -272 / DS Clear, COG U-Factor = 0.266, COG Temperature = 54.9°F											
	0.117	0.750	0.117					ARG90	0.042(#2)	LE	A1-D	N
	U-Factor 0.39		SHGC (N)			0.38			VT (N)		0.64	
3	DS Clear / DS Cardinal LoE ² -272, COG U-Factor = 0.266, COG Temperature = 54.9°F											
	0.117	0.750	0.117					ARG90	0.042(#3)	LE	A1-D	N
	U-Factor 0.39		SHGC (N)			0.46			VT (N)		0.64	
4	3/16" AFG Comfort E ² / 3/16" Clear, COG U-Factor = 0.352, COG Temperature = 50.4°F											
	0.183	0.625	0.188					AIR	0.202(#2)	LE	A1-D	N
	U-Factor 0.46		SHGC (N)			0.58			VT (N)		0.66	
4	3/16" Clear / 3/16" AFG Comfort E ² , COG U-Factor = 0.352, COG Temperature = 50.4°F											
	0.188	0.625	0.183					AIR	0.202(#3)	LE	A1-D	N
	U-Factor 0.46		SHGC (N)			0.64			VT (N)		0.66	
5	1/4" AFG Comfort E ² / 1/4" Clear, COG U-Factor = 0.344, COG Temperature = 50.8°F											
	0.222	0.500	0.225					AIR	0.202(#2)	LE	A1-D	N
	U-Factor 0.45		SHGC (N)			0.57			VT (N)		0.65	
5	1/4" Clear / 1/4" AFG Comfort E ² , COG U-Factor = 0.344, COG Temperature = 50.8°F											
	0.225	0.500	0.222					AIR	0.202(#3)	LE	A1-D	N
	U-Factor 0.45		SHGC (N)			0.62			VT (N)		0.65	

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6	DS AFG Comfort E ² / DS Clear, COG U-Factor = 0.362, COG Temperature = 49.9 °F											
	0.122	0.750	0.123					AIR	0.204(#2)	LE	A1-D	N
	U-Factor 0.47		SHGC (N) 0.59				VT (N) 0.67		CR 42			
	DS Clear / DS AFG Comfort E ² , COG U-Factor = 0.362, COG Temperature = 49.9 °F											
	0.123	0.750	0.122					AIR	0.204(#3)	LE	A1-D	N
	U-Factor 0.47		SHGC (N) 0.66				VT (N) 0.67		CR 42			
7	3/16" PPG Solarban 60 / 3/16" Clear, COG U-Factor = 0.301, COG Temperature = 53.1 °F											
	0.184	0.625	0.184					AIR	0.035(#2)	LE	A1-D	N
	U-Factor 0.42		SHGC (N) 0.35				VT (N) 0.63		CR 43			
	3/16" Clear / 3/16" PPG Solarban 60, COG U-Factor = 0.301, COG Temperature = 53.1 °F											
	0.184	0.625	0.184					AIR	0.035(#3)	LE	A1-D	N
	U-Factor 0.42		SHGC (N) 0.41				VT (N) 0.63		CR 43			
8	1/4" PPG Solarban 60 / 1/4" Clear, COG U-Factor = 0.291, COG Temperature = 53.6 °F											
	0.223	0.500	0.223					AIR	0.035(#2)	LE	A1-D	N
	U-Factor 0.41		SHGC (N) 0.35				VT (N) 0.62		CR 43			
	1/4" Clear / 1/4" PPG Solarban 60, COG U-Factor = 0.291, COG Temperature = 53.6 °F											
	0.223	0.500	0.223					AIR	0.035(#3)	LE	A1-D	N
	U-Factor 0.41		SHGC (N) 0.41				VT (N) 0.62		CR 43			
9	DS PPG Solarban 60 / DS Clear, COG U-Factor = 0.310, COG Temperature = 52.6 °F											
	0.129	0.750	0.129					AIR	0.035(#2)	LE	A1-D	N
	U-Factor 0.42		SHGC (N) 0.35				VT (N) 0.64		CR 42			
	DS Clear / DS PPG Solarban 60, COG U-Factor = 0.310, COG Temperature = 52.6 °F											
	0.129	0.750	0.129					AIR	0.035(#3)	LE	A1-D	N
	U-Factor 0.42		SHGC (N) 0.42				VT (N) 0.64		CR 42			
10	3/16" Clear / 3/16" Clear, COG U-Factor = 0.477, COG Temperature = 43.9 °F											
	0.187	0.625	0.187					AIR		CL	A1-D	N
	U-Factor 0.56		SHGC (N) 0.67				VT (N) 0.72		CR 40			
11	3/16" Clear / 3/16" Clear, COG U-Factor = 0.454, COG Temperature = 45.1 °F											
	0.187	0.625	0.187					ARG90		CL	A1-D	N
	U-Factor 0.54		SHGC (N) 0.67				VT (N) 0.72		CR 41			

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12	1/4" Clear / 1/4" Clear, COG U-Factor = 0.474, COG Temperature = 44.1 °F											
	0.225	0.500	0.225					AIR		CL	A1-D	N
	U-Factor 0.56		SHGC (N) 0.63				VT (N) 0.70		CR 39			
12	1/4" Bronze / 1/4" Clear, COG U-Factor = 0.474, COG Temperature = 44.1 °F											
	0.226	0.500	0.225					AIR		BZ	A1-D	N
	U-Factor 0.56		SHGC (N) 0.46				VT (N) 0.42		CR 39			
12	1/4" Gray / 1/4" Clear, COG U-Factor = 0.474, COG Temperature = 44.1 °F											
	0.222	0.500	0.225					AIR		GY	A1-D	N
	U-Factor 0.56		SHGC (N) 0.42				VT (N) 0.36		CR 39			
12	1/4" Green / 1/4" Clear, COG U-Factor = 0.474, COG Temperature = 44.1 °F											
	0.222	0.500	0.225					AIR		GR	A1-D	N
	U-Factor 0.56		SHGC (N) 0.45				VT (N) 0.61		CR 39			
13	DS Clear / DS Clear, COG U-Factor = 0.485, COG Temperature = 43.5 °F											
	0.129	0.750	0.129					AIR		CL	A1-D	N
	U-Factor 0.57		SHGC (N) 0.68				VT (N) 0.72		CR 40			
14	1/4" Viracon VE12M / 1/4" Clear, COG U-Factor = 0.293, COG Temperature = 53.5 °F											
	0.223	0.500	0.225					AIR	0.040(#2)	LE	A1-D	N
	U-Factor 0.41		SHGC (N) 0.35				VT (N) 0.62		CR 43			
14	1/4" Clear / 1/4" Viracon VE12M, COG U-Factor = 0.293, COG Temperature = 53.5 °F											
	0.225	0.500	0.223					AIR	0.040(#3)	LE	A1-D	N
	U-Factor 0.41		SHGC (N) 0.41				VT (N) 0.62		CR 43			
15	3/16" PPG Sungate 500 / 3/16" Clear, COG U-Factor = 0.355, COG Temperature = 50.2 °F											
	0.184	0.625	0.184					AIR	0.215(#2)	LE	A1-D	N
	U-Factor 0.46		SHGC (N) 0.57				VT (N) 0.66		CR 42			
15	3/16" Clear / 3/16" PPG Sungate 500, COG U-Factor = 0.355, COG Temperature = 50.2 °F											
	0.184	0.625	0.184					AIR	0.215(#3)	LE	A1-D	N
	U-Factor 0.46		SHGC (N) 0.61				VT (N) 0.66		CR 42			
16	3/16" Cardinal LoE ² 240 / 3/16" Clear, COG U-Factor = 0.262, COG Temperature = 55.1 °F											
	0.187	0.625	0.187					ARG90	0.057(#2)	LE	A1-D	N
	U-Factor 0.39		SHGC (N) 0.23				VT (N) 0.35		CR 43			
16	3/16" Clear / 3/16" Cardinal LoE ² 240, COG U-Factor = 0.262, COG Temperature = 55.1 °F											
	0.187	0.625	0.187					ARG90	0.057(#3)	LE	A1-D	N
	U-Factor 0.39		SHGC (N) 0.45				VT (N) 0.35		CR 43			

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17	3/16" Cardinal LoE ³ -366 / 3/16" Clear, COG U-Factor = 0.249, COG Temperature = 55.8°F											
	0.187	0.625	0.187					ARG90	0.022(#2)	LE	A1-D	N
	U-Factor 0.38		SHGC (N) 0.25				VT (N) 0.57				CR 43	
17	3/16" Clear / 3/16" Cardinal LoE ³ -366, COG U-Factor = 0.249, COG Temperature = 55.8°F											
	0.187	0.625	0.187					ARG90	0.022(#3)	LE	A1-D	N
	U-Factor 0.38		SHGC (N) 0.35				VT (N) 0.57				CR 43	
18	3/16" Cardinal LoE ³ -366 / 3/16" Clear, COG U-Factor = 0.296, COG Temperature = 53.3°F											
	0.187	0.625	0.187					AIR	0.022(#2)	LE	A1-D	N
	U-Factor 0.41		SHGC (N) 0.25				VT (N) 0.57				CR 43	
18	3/16" Clear / 3/16" Cardinal LoE ³ -366, COG U-Factor = 0.296, COG Temperature = 53.3°F											
	0.187	0.625	0.187					AIR	0.022(#3)	LE	A1-D	N
	U-Factor 0.41		SHGC (N) 0.35				VT (N) 0.57				CR 43	