

Folding Glass Wall In-House Thermal Simulations

Cardinal Glazing																
[272-Clear] [¼" - ¼" Double-Pane Glazing]																
G2 Narrow Thermal					G2 Regular Thermal				G3 LT Thermal				G3 Regular Thermal			
Sill	U-Value	SHGC	VT	Condensation	U-Value	SHGC	VT	Condensation	U-Value	SHGC	VT	Condensation	U-Value	SHGC	VT	Condensation
Rec Ramp	0.42	0.30	0.50	31	0.46	0.28	0.45	29	0.40	0.27	0.45	43	0.42	0.28	0.45	38
Rec Flush	0.42	0.30	0.50	31	0.45	0.28	0.45	29	0.39	0.27	0.45	43	0.42	0.28	0.45	39
Standard	0.42	0.30	0.49	31	0.46	0.27	0.44	29	0.40	0.27	0.44	43	0.42	0.27	0.44	38
[272-i89] [¼" - ¼" Double-Pane Glazing]																
G2 Narrow Thermal					G2 Regular Thermal				G3 LT Thermal				G3 Regular Thermal			
Sill	U-Value	SHGC	VT	Condensation	U-Value	SHGC	VT	Condensation	U-Value	SHGC	VT	Condensation	U-Value	SHGC	VT	Condensation
Rec Ramp	0.38	0.29	0.48	30	0.43	0.27	0.44	29	0.36	0.27	0.44	42	0.39	0.27	0.44	38
Rec Flush	0.38	0.29	0.48	30	0.43	0.27	0.44	29	0.36	0.27	0.44	43	0.38	0.27	0.44	38
Standard	0.38	0.29	0.47	30	0.43	0.27	0.43	29	0.37	0.26	0.43	42	0.39	0.26	0.43	38
[366-Clear] [¼" - ¼" Double-Pane Glazing]																
G2 Narrow Thermal					G2 Regular Thermal				G3 LT Thermal				G3 Regular Thermal			
Sill	U-Value	SHGC	VT	Condensation	U-Value	SHGC	VT	Condensation	U-Value	SHGC	VT	Condensation	U-Value	SHGC	VT	Condensation
Rec Ramp	0.41	0.21	0.44	31	0.45	0.20	0.41	30	0.39	0.19	0.41	43	0.42	0.19	0.41	38
Rec Flush	0.41	0.21	0.44	31	0.44	0.20	0.41	30	0.39	0.19	0.41	44	0.41	0.19	0.41	39
Standard	0.41	0.21	0.43	31	0.45	0.19	0.40	30	0.39	0.19	0.40	43	0.42	0.19	0.40	38
[366 - i89] [¼" - ¼" Double-Pane Glazing]																
G2 Narrow Thermal					G2 Regular Thermal				G3 LT Thermal				G3 Regular Thermal			
Sill	U-Value	SHGC	VT	Condensation	U-Value	SHGC	VT	Condensation	U-Value	SHGC	VT	Condensation	U-Value	SHGC	VT	Condensation
Rec Ramp	0.38	0.20	0.43	30	0.41	0.19	0.40	30	0.36	0.19	0.40	43	0.39	0.19	0.40	38
Rec Flush	0.37	0.20	0.43	30	0.41	0.19	0.40	30	0.35	0.19	0.40	43	0.38	0.19	0.40	38
Standard	0.38	0.20	0.42	30	0.41	0.19	0.39	30	0.36	0.18	0.39	42	0.39	0.19	0.39	38
[366 - 180 - i89] [¾/16" - ¾/16" - ¾/16" Triple-Pane Glazing]																
G2 Narrow Thermal					G2 Regular Thermal				G3 LT Thermal				G3 Regular Thermal			
Sill	U-Value	SHGC	VT	Condensation	U-Value	SHGC	VT	Condensation	U-Value	SHGC	VT	Condensation	U-Value	SHGC	VT	Condensation
Rec Ramp	0.33	0.18	0.38	30	0.38	0.17	0.35	30	0.31	0.17	0.34	43	0.33	0.17	0.34	38
Rec Flush	0.33	0.18	0.38	30	0.37	0.17	0.35	30	0.30	0.17	0.35	43	0.33	0.17	0.35	39
Standard	0.34	0.18	0.38	30	0.38	0.17	0.34	30	0.31	0.17	0.35	43	0.33	0.17	0.35	38
Vitro Glazing																
[Solarban 60-Clear] [¼" - ¼" Double-Pane Glazing]																
G2 Narrow Thermal					G2 Regular Thermal				G3 LT Thermal				G3 Regular Thermal			
Sill	U-Value	SHGC	VT	Condensation	U-Value	SHGC	VT	Condensation	U-Value	SHGC	VT	Condensation	U-Value	SHGC	VT	Condensation
Rec Ramp	0.42	0.29	0.50	31	0.45	0.27	0.46	30	0.39	0.27	0.46	44	0.42	0.27	0.46	39
Rec Flush	0.41	0.29	0.50	31	0.45	0.27	0.46	30	0.39	0.27	0.46	44	0.42	0.27	0.46	39
Standard	0.42	0.29	0.49	31	0.45	0.27	0.45	31	0.39	0.26	0.45	43	0.42	0.26	0.45	38
[Solarban 70-Clear] [¼" - ¼" Double-Pane Glazing]																
G2 Narrow Thermal					G2 Regular Thermal				G3 LT Thermal				G3 Regular Thermal			
Sill	U-Value	SHGC	VT	Condensation	U-Value	SHGC	VT	Condensation	U-Value	SHGC	VT	Condensation	U-Value	SHGC	VT	Condensation
Rec Ramp	0.42	0.21	0.44	31	0.45	0.20	0.41	30	0.39	0.19	0.41	43	0.42	0.19	0.41	38
Rec Flush	0.41	0.21	0.44	31	0.45	0.20	0.41	30	0.39	0.19	0.41	44	0.41	0.19	0.41	39
Standard	0.42	0.20	0.43	31	0.45	0.19	0.40	30	0.39	0.19	0.40	43	0.42	0.19	0.40	38
Guardian Glazing																
[SN68-Clear] [¼" - ¼" Double-Pane Glazing]																
G2 Narrow Thermal					G2 Regular Thermal				G3 LT Thermal				G3 Regular Thermal			
Sill	U-Value	SHGC	VT	Condensation	U-Value	SHGC	VT	Condensation	U-Value	SHGC	VT	Condensation	U-Value	SHGC	VT	Condensation
Rec Ramp	0.42	0.28	0.48	31	0.45	0.26	0.44	30	0.39	0.26	0.44	44	0.42	0.26	0.44	39
Rec Flush	0.42	0.28	0.48	31	0.45	0.26	0.44	30	0.39	0.26	0.44	44	0.42	0.26	0.44	39
Standard	0.42	0.28	0.47	31	0.45	0.26	0.43	31	0.39	0.25	0.43	43	0.42	0.25	0.43	38

Note: Not all configurations shown are NFRC Certified products. Solar Innovations, Inc. is not a NFRC accredited certified simulation laboratory. Results listed are for reference only. Actual NFRC values may vary. Units were modeled to NFRC -100, NFRC-200, and NFRC-500 standards using the standard size for each unit. All values are calculated using Windows 6.3 / THERM 6.3 programs by Lawrence Berkeley National Laboratory. Custom glass thermal simulations are available upon customer request.