

## G3 International Window In-House Thermal Simulations

Cardinal Glazing				
[272-Clear] [¼" - ¼" Double-Pane Glazing]				
Operation	U-Value	SHGC	VT	Condensation
Casement	0.44	0.26	0.42	52
Awning	0.45	0.26	0.42	51
Fixed	0.33	0.35	0.60	52
[272-i89] [¼" - ¼" Double-Pane Glazing]				
Operation	U-Value	SHGC	VT	Condensation
Casement	0.41	0.25	0.41	45
Awning	0.43	0.26	0.41	44
Fixed	0.29	0.34	0.58	44
[366-Clear] [¼" - ¼" Double-Pane Glazing]				
Operation	U-Value	SHGC	VT	Condensation
Casement	0.44	0.18	0.37	52
Awning	0.45	0.18	0.37	51
Fixed	0.33	0.24	0.53	52
[366 - i89] [¼" - ¼" Double-Pane Glazing]				
Operation	U-Value	SHGC	VT	Condensation
Casement	0.41	0.18	0.36	45
Awning	0.42	0.18	0.36	44
Fixed	0.29	0.23	0.52	44
[366 - 180 - i89] [ <sup>3</sup> / <sub>16</sub> " - <sup>3</sup> / <sub>16</sub> " - <sup>3</sup> / <sub>16</sub> " Triple-Pane Glazing]				
Operation	U-Value	SHGC	VT	Condensation
Casement	0.37	0.16	0.32	53
Awning	0.36	0.16	0.32	54
Fixed	0.22	0.21	0.46	57
Vitro Glazing				
[Solarban 60-Clear] [¼" - ¼" Double-Pane Glazing]				
Operation	U-Value	SHGC	VT	Condensation
Casement	0.44	0.25	0.42	52
Awning	0.45	0.25	0.42	51
Fixed	0.33	0.34	0.60	52
[Solarban 70-Clear] [¼" - ¼" Double-Pane Glazing]				
Operation	U-Value	SHGC	VT	Condensation
Casement	0.44	0.18	0.38	52
Awning	0.45	0.18	0.38	51
Fixed	0.33	0.23	0.55	52
Guardian Glazing				
[SN68-Clear] [¼" - ¼" Double-Pane Glazing]				
Operation	U-Value	SHGC	VT	Condensation
Casement	0.44	0.24	0.41	52
Awning	0.45	0.25	0.41	51
Fixed	0.33	0.33	0.58	52

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.