

G2 International Window In-House Thermal Simulations

| Cardinal Glazing | | | | | Vitro Glazing | | | | |
|---|---------|------|------|--------------|---|---------|------|------|--------------|
| [272-Clear] [¼" - ¼" Double-Pane Glazing] | | | | | [Solarban 60-Clear] [¼" - ¼" Double-Pane Glazing] | | | | |
| Operation | U-Value | SHGC | VT | Condensation | Operation | U-Value | SHGC | VT | Condensation |
| Casement | 0.47 | 0.29 | 0.47 | 40 | Casement | 0.47 | 0.28 | 0.47 | 40 |
| Tilt-Turn | 0.48 | 0.27 | 0.44 | 42 | Tilt-Turn | 0.48 | 0.26 | 0.44 | 42 |
| Awning | 0.47 | 0.29 | 0.47 | 40 | Awning | 0.47 | 0.28 | 0.47 | 40 |
| Hopper | 0.48 | 0.28 | 0.46 | 42 | Hopper | 0.47 | 0.27 | 0.46 | 42 |
| Fixed | 0.34 | 0.35 | 0.60 | 46 | Fixed | 0.33 | 0.34 | 0.61 | 46 |
| [272-i89] [¼" - ¼" Double-Pane Glazing] | | | | | [Solarban 70-Clear] [¼" - ¼" Double-Pane Glazing] | | | | |
| Operation | U-Value | SHGC | VT | Condensation | Operation | U-Value | SHGC | VT | Condensation |
| Casement | 0.44 | 0.28 | 0.46 | 40 | Casement | 0.47 | 0.20 | 0.43 | 40 |
| Tilt-Turn | 0.45 | 0.26 | 0.43 | 42 | Tilt-Turn | 0.46 | 0.20 | 0.43 | 40 |
| Awning | 0.44 | 0.28 | 0.46 | 40 | Awning | 0.33 | 0.24 | 0.56 | 46 |
| Hopper | 0.45 | 0.26 | 0.43 | 42 | Hopper | 0.45 | 0.20 | 0.45 | 41 |
| Fixed | 0.29 | 0.34 | 0.59 | 46 | Fixed | 0.47 | 0.19 | 0.42 | 42 |
| [366-Clear] [¼" - ¼" Double-Pane Glazing] | | | | | Guardian Glazing | | | | |
| | | | | | [SN68-Clear] [¼" - ¼" Double-Pane Glazing] | | | | |
| Operation | U-Value | SHGC | VT | Condensation | Operation | U-Value | SHGC | VT | Condensation |
| Casement | 0.47 | 0.20 | 0.42 | 40 | Casement | 0.47 | 0.27 | 0.46 | 41 |
| Tilt-Turn | 0.48 | 0.19 | 0.40 | 42 | Tilt-Turn | 0.48 | 0.25 | 0.43 | 42 |
| Awning | 0.47 | 0.20 | 0.42 | 40 | Awning | 0.47 | 0.27 | 0.46 | 41 |
| Hopper | 0.47 | 0.20 | 0.41 | 42 | Hopper | 0.47 | 0.26 | 0.45 | 42 |
| Fixed | 0.33 | 0.24 | 0.54 | 46 | Fixed | 0.33 | 0.33 | 0.59 | 47 |
| [366 - i89] [¼" - ¼" Double-Pane Glazing] | | | | | | | | | |
| Operation | U-Value | SHGC | VT | Condensation | | | | | |
| Casement | 0.44 | 0.20 | 0.41 | 41 | | | | | |
| Tilt-Turn | 0.45 | 0.19 | 0.39 | 42 | | | | | |
| Awning | 0.44 | 0.20 | 0.41 | 40 | | | | | |
| Hopper | 0.44 | 0.19 | 0.40 | 42 | | | | | |
| Fixed | 0.29 | 0.24 | 0.53 | 46 | | | | | |
| [366 - 180 - i89] [³ / ₁₆ " - ³ / ₁₆ " - ³ / ₁₆ " Triple-Pane Glazing] | | | | | | | | | |
| Operation | U-Value | SHGC | VT | Condensation | | | | | |
| Casement | 0.39 | 0.17 | 0.35 | 37 | | | | | |
| Tilt-Turn | 0.37 | 0.16 | 0.34 | 41 | | | | | |
| Awning | 0.39 | 0.17 | 0.35 | 37 | | | | | |
| Hopper | 0.37 | 0.17 | 0.35 | 41 | | | | | |
| Fixed | 0.22 | 0.21 | 0.46 | 46 | | | | | |

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.