**Performance and fabrication benefits**

Guardian IS-20 is mechanically and chemically durable, with excellent optical properties making it ideal for exposed-surface applications.

- High light transmission, neutral color with low haze & ultra-smooth surface.
- As easy to clean as ordinary uncoated glass.
- As durable and scratch-resistant as the glass itself.
- Easy to fabricate: single product for annealed or tempered applications.
- Ideal for monolithic storm doors and windows.

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**The glass that holds down heating bills by holding in warmth.**

ClimaGuard IS-20 Interior Surface Low-E glass from Guardian is engineered to lower the U-factor of standard Low-E windows, reducing heat loss during cold winter months in the north, lowering cooling loads in the south and improving energy savings.

**Interior surface glass with superior insulating capabilities**

When applied to the #4 (inside) surface of double- or triple-glazed windows, and used in conjunction with other ClimaGuard Low-E coatings, ClimaGuard IS-20 can reduce the center-of-glass U-factor by as much as 0.06. **The result: less heat loss and lower heating costs.**

**Helps meet new energy codes and ENERGY STAR® requirements**

- ClimaGuard IS-20 provides the perfect performance boost for many windows to meet ENERGY STAR requirements in North America without using argon gas.

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**Visible Light**

<table>
<thead>
<tr>
<th>U-Factor</th>
<th>1/2&quot; Gap</th>
<th>Argon</th>
<th>Air</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ClimaGuard IS-20</strong></td>
<td><strong>0.79</strong></td>
<td>n/a</td>
<td>0.68</td>
</tr>
</tbody>
</table>

Double-glazed: 3.0mm Clr: Air and 90% Argon/10% Air Filled Units. Primary Low-E coating on the #2 surface. ClimaGuard IS coatings are on the #4 surface. Performance data calculated for center-of-glass only (no spacer or framing) using LBNL Window 7.6, IGDB v.71.

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**Double Glazed**

<table>
<thead>
<tr>
<th>Double Glazed</th>
<th>Visible Light</th>
<th>U-Factor</th>
<th>SHGC</th>
<th>1/2&quot; Gap</th>
</tr>
</thead>
<tbody>
<tr>
<td>80/71 + IS-20</td>
<td>Trans (78%), Reflect Out (15%), Reflect In (14%), UV Trans (41%)</td>
<td>0.64</td>
<td>0.22</td>
<td>0.25</td>
</tr>
<tr>
<td>72/57 + IS-20</td>
<td>Trans (69%), Reflect Out (14%), Reflect In (13%), UV Trans (30%)</td>
<td>0.46</td>
<td>0.21</td>
<td>0.24</td>
</tr>
<tr>
<td>70/36 + IS-20</td>
<td>Trans (68%), Reflect Out (11%), Reflect In (13%), UV Trans (29%)</td>
<td>0.38</td>
<td>0.20</td>
<td>0.24</td>
</tr>
<tr>
<td>62/27 + IS-20</td>
<td>Trans (59%), Reflect Out (12%), Reflect In (14%), UV Trans (9%)</td>
<td>0.25</td>
<td>0.20</td>
<td>0.24</td>
</tr>
</tbody>
</table>

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**ClimaGuard Product Information**

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