



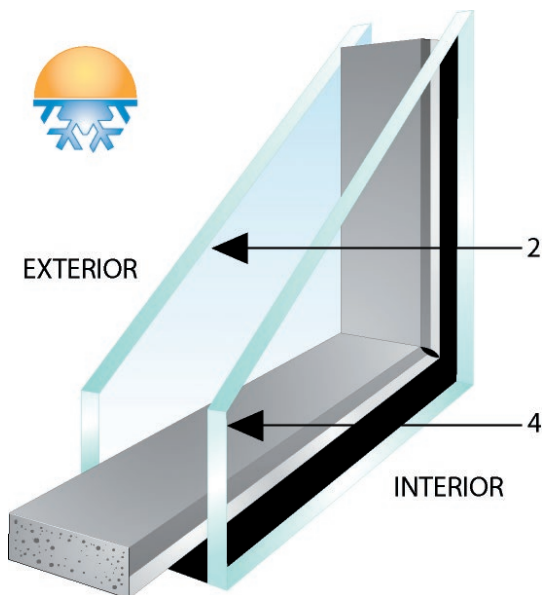
WINDSOR
WINDOWS & DOORS
A Woodgrain Millwork Company



Dual Low-E Glazing

Dual Low-E is an essential component for our Pinnacle wood clad products to meet the ENERGY STAR® criteria.

Dual Low-E glass has a very thin Low-E coating that is integral to the interior glass surface (surface #4). This hard, durable, low emissivity coating gives the product improved thermal insulation performance compared to clear insulated glass or standard LoE insulated glass.



Dual Low-E is a good solution for homes at high altitude, where argon gas may not be a viable solution due to the need for capillary tubes to equalize the pressure between the panes of glass, which prevents the use of argon gas.

Dual Low-E is also an excellent ENERGY STAR solution, since the two layers of Low-E coating help retain more heat inside the home, delivering a better insulating value than single layer LoE glazings.

Dual Low-E is becoming important for the fenestration industry to meet stringent energy targets.

Dual Low-E glazing combines Cardinal LoE 366 soft coat on surface #2 with Cardinal i89 LoE on surface #4 to create an insulated glazing solution with superior performance.

Dual Low-E Glazing

Benefits

- Dual Low-E delivers thermal performance superior to standard LoE products.
- Dual Low-E may serve as a high-altitude alternative to LoE with argon.

Factors to Consider

Condensation – Cardinal i89 LoE used on the interior glass pane prevents it from warming to room temperature, as much as a standard LoE product would. This may increase the possibility of room-side condensation. Indoor humidity levels should be monitored to eliminate the possibility of condensation.

Color – Since there is an additional Low-E coating on products with Dual Low-E, the color of the glass will be slightly darker than standard LoE products.

Scratching – As with any glass, special care will need to be taken to not scratch the glass surface during the construction process.

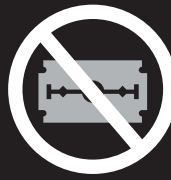
Dual Low-E Glass Samples

We have added Dual Low-E to the sample program so you can demonstrate it to your customers.

- **PART #9747** – 14" x 14" sample demonstrating Dual Low-E without tubes
- **PART #9748** – 14" x 14" sample demonstrating Dual Low-E with tubes
- **PART #9764** (*Glass Sampler*) – (14) 4" x 4" samples of different glazing options, including Dual Low-E

Cleaning Tips for Dual Low-E

Products purchased with the Dual Low-E glazing option have a Low-E coating applied to the room-side of the windows. Never use a metallic object to remove debris from the Low-E coating. The room-side Dual Low-E glass surface is to be cleaned with a solution of vinegar and water, soap and water, or a standard household window cleaner, such as Windex®. Caution should be taken when using anything abrasive on the Dual Low-E room-side surface.



NEVER use a razor blade or other metallic object to clean or remove residue from your window or door products.

Recommended Routine Cleaning

- Use a vinegar-based solution (10% vinegar and 90% water) or commercially available ammonia-free and alcohol-free cleaner, such as Sparkle® Glass Cleaner.
- Apply a thin film of cleaner to the glass surface.
- Rub the glass surface with a lint-free cloth or paper towel to clean.
- Wipe dry with a clean, dry, lint-free cloth or paper towel.
- Avoid getting cleaning agents on any non-glass components.

For more information, see our Care and Use Guides at:
www.windsorwindows.com/builder-information/installation-instructions