



FAQ

What are Dynamic (Smart) Windows?

Windows that use glass that changes its light control state and appearance in response to an external stimulus.

Sub-categories

- Thermochromic (RavenWindow)
- Electrochromic
- Photochromic

Benefits

- Creates a highly desirable interior climate
- Increases occupant comfort and wellbeing
- Saves energy
- Is a solution for LEED/sustainable/green building and renovations

How does RavenWindow work?

RavenWindow intelligently self-regulates the solar transmittance (heat and light) when triggered by temperature. Once RavenWindow reaches its temperature trigger point, it transitions to a tinted state – transitioning back to a clear state once the temperature drops. This thermochromic technology blocks unwanted solar heat in summer months, while allowing free solar heat gain in the winter. The transitioning threshold can be customized to a regions heat zone during the manufacturing process for maximum efficiency.

Why install RavenWindow?

Residential value-at-a-glance

- Blocks Summer Solar Heat Gain
- Allows Free Winter Solar Heat Gain
- Offers intuitive climate control
- Works with new construction and remodels
- Preserves Natural Light
- Mitigates Glare
- Blocks UV
- No Controls or Programming
- Promotes Green and Sustainable Living
- Maintenance Free
- Design Flexibility
- 10 – 30 Percent Reduction in Energy Use
- 10 Year Warranty + 30 Year Design Life
- Heat Zone Customization

Commercial value-at-a-glance

- 3 – 6 Year ROI
- Energy Savings 20% - 30%
- Reduce HVAC Requirements
- LEED Credits
- Works with new construction and retrofits
- Valuable Component for Net Zero
- Ease of Installation
- Self-Regulating
- Design Flexibility
- Daylighting Solution
- No Controls/Programming
- Occupant Comfort
- 10 Year Warranty + 30 Year Design Life
- Heat Zone Customization



Why install RavenWindow?

RavenWindow is the only dynamic window to offer a return on investment for commercial construction and retrofits.

RavenWindow can save up to 30 percent in energy use in residential new construction and remodels.

Works in conjunction with any window, and adds additional value when added to Low E windows (see Value Add Summary on media kit landing page for more details).

RavenWindow reduces HVAC requirements by managing interior climates.

Blocks 100 percent of harmful UV rays eliminating risk occupants and protecting interiors and belongings.

During the heating season, the perfect window for winter transmits both the solar radiation and the long-wave thermal radiation from the outdoor environment.

What is RavenWindow difference?

It is the only Smart Window product to provide a rapid return on investment for commercial installations (3 – 6 years based on energy savings).

Unlike electrochromic windows, RavenWindow requires no additional installation steps, permits or construction.

The thermochromic filter is adhered to the inside surface of the exterior glass during the manufacturing process – sealing the filter within the insulated glass unit.

RavenWindow requires no programming or maintenance and has a 10 year warranty and a 30 year design life.

RavenWindow's unmatched design flexibility and functionality, makes it the ideal solution for residential and commercial installations.

New construction remodels and retrofits benefit from RavenWindow's solar-intuitive transitioning technology by reducing energy consumption and lowering heating and cooling costs.

Significantly affects national energy independence and reduction of global energy use.