



## Need Better Windows?

If you're too cold in the winter and too hot in the summer, leaky or inefficient windows may be the problem. Modern, energy-rated storm windows and insulating panels can save you 10-30% on heating and cooling year-round at a fraction of the cost of full window replacement.

**These products are now ENERGY STAR certified and rated by the Attachments Energy Rating Council!**



## Not Your Grandma's Storm Window!

Modern storm windows and insulating panels, also known as window inserts or secondary glazing, can be permanently installed on the interior or exterior of your primary windows and provide year-round benefits:

- Increase insulating performance
- Reduce air leakage
- Improve comfort
- Reduce noise from outdoors
- Improve aesthetics

Adding a low-emissivity (low-e) coating can further improve the insulating performance of the storm window by reflecting heat inwards in winter and outwards in summer.



## More Benefits

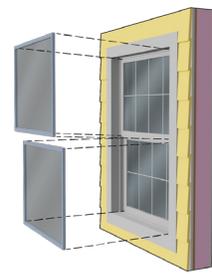
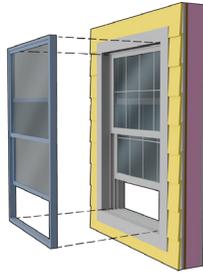
Storm windows and insulating panels can be installed by a licensed contractor, but they're also easy to install as a DIY project. These products can also be a great option to improve the performance of historic homes, while preserving or improving the original exterior appearance of windows.



**EXTERIOR STORM WINDOW**

**INTERIOR INSULATING PANEL**

**SASH-MOUNTED PANEL**



<b>Improves Thermal Performance</b>	✓	✓	✓
<b>Improves Air Sealing</b>	✓	✓	Varies by window type
<b>Available Fixed or Fully Operable</b>	✓	✓	Does not affect operation
<b>Option for Low-E</b>	✓	Glass products only	✓
<b>Multiple Colors Available</b>	✓	✓	✓
<b>Frame Material</b>	Metal, wood, vinyl	Metal, wood, vinyl	Metal
<b>Historic Application</b>	Depends on jurisdiction	✓	✓
<b>Retail Availability</b>	<ul style="list-style-type: none"> <li>• Lumber yard</li> <li>• Custom order</li> <li>• Online order</li> </ul>	<ul style="list-style-type: none"> <li>• Lumber yard</li> <li>• Custom order</li> <li>• Online order</li> </ul>	Custom order through manufacturer
<b>Mounting Type</b>	Mounted to exterior casing or directly to the trim, includes small weep holes to alleviate condensation	Face-mounted on interior casing or jamb using friction-fit frames, magnetic fasteners, or mechanical fasteners	Attached directly to each sash of the existing window (must be wood frame)

## What is Low-E? How Does it Work?

Low emissivity (low-e) glass is formed by adding an ultra-thin layer of metal to clear glass. Low-e glass is designed to redirect heat back toward the source.



### WARMER IN WINTER

- Improves window performance by reflecting heat back into the home and reducing heat transfer through the window
- Saves money by reducing energy required to heat the home

### COOLER IN SUMMER

- Helps maintain indoor comfort by reducing solar heat gain through the window
- Saves money by reducing energy required to cool the home

### VISIBLE LIGHT TRANSMITTANCE AND APPEARANCE

- Minimal reduction in visible light passing through the window
- Provides interior and exterior appearance similar to clear glass

### REDUCES ULTRAVIOLET ENERGY

- Reduces fabric-fading UV energy more effectively
- Helps protect interior furnishings, fabrics, and carpets from fading

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**For more information, visit:**

[www.energy.gov/eere/buildings/storm-window-and-insulating-panel-campaign](http://www.energy.gov/eere/buildings/storm-window-and-insulating-panel-campaign)

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