

Window Insert

Date reviewed: 10/24/2014

Description of Technology

Energy Saving Opportunity

This type of window inserts are made of acrylic and edged with a flexible rubberized sealing material. "When pressed into place, the silicone tubing compresses, holding the Indow insert securely in place while sealing out cold drafts or hot summer air."

Sector(s):	<input checked="" type="checkbox"/> Residential
	<input checked="" type="checkbox"/> Commercial & Industrial
Applicability Criteria:	All
Efficiency Improvement:	Air sealing, gas savings
Energy (%) Savings Potential:	Highly variable
Demand (%) Reduction Potential:	Highly variable

Strengths

Weakness

- This technology is viewed primarily an air sealing measure and energy savings will be impacted by the existing window conditions (buildings with older/leaky windows are more likely to realize savings).
- Increased occupant comfort is expected due to reduced air infiltration

- Special consideration is required regarding operating seasons of the fixture (when to install and when to uninstall)
- MTAC does not make any conclusion of cost effectiveness. A rough cost estimate per window is approximately \$200. Previous analysis on a similar technology required the cost to be below \$75 per window

**Third Party Analysis/
Previous MTAC Reviews**

**Suppliers Known
to MTAC**

MTAC Status

- "Pacific Northwest National Labs (PNNL) "Characterization of Energy Savings and Thermal Comfort Improvements Derived from Using Interior Storm Windows" September 2013
- "The National Trust for Historic Preservation (NTHP) "Saving Windows, Saving Money: Evaluating the Energy Performance of Window Retrofit and Replacement

Indow Windows
Advanced Energy Panels
Allied Windows

Acknowledged to have energy savings potential and referred to individual PA for their own EE program consideration

Market Development Issues

Cost:	\$200/windows
Market Risk and Barriers:	Price point
Time to Market:	Currently on market
Simple Pay-back: (Years)	~10 years for residential based on PNNL report

