



The Solution For Window Inefficiency

To think that price of energy whether from fossil fuels or electricity is not going to rise in dramatic proportions in the near future is ludicrous. As gas prices rise the cost of every utility will also go up in price due to increased operating costs experienced by utility companies. Natural gas, heating oil, and coal are all rising steadily in cost also. Identifying energy inefficiency is a necessity on all levels of government, in business, and for home owners.

Windows are the weakest part of the building envelope and account for heat gain in the summer and heat loss in the winter. Heat gain through the windows in the summer raises cooling costs and heat loss through the windows in the winter raises heating costs. The fact is if you have windows you have heat gain and or heat loss every year. Infiltration or air leakage in and around windows compounds heat gain and heat loss.

In'Flector See Through Radiant Barrier Window Insulators offer an engineered solution which reduces heat gain and heat loss through windows year round.

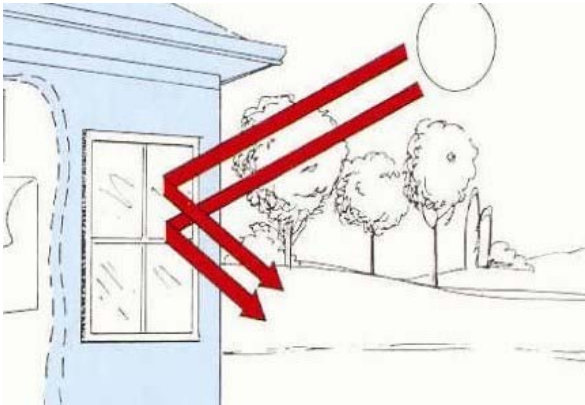
Radiant heat accounts for 80% of heat movement in buildings and buildings typically have a window surface area of 15% which accounts for 72% of heat gain or heat loss.

In'Flector Window Insulators are pioneers in window efficiency. With the patented one way heat transfer, reversible In'Flector Window Insulator material is an engineered solution which addresses more than just the reflectance of solar heat gain. In'Flector Window Insulating material was designed to address all deficiencies of the building envelope pertaining to windows including reflectivity, emissivity, absorption, radiant heat gain, solar heat gain, privacy, infiltration, condensation, and heat loss in the winter. Additionally, In'Flector is a passive solar collector, absorbing sunlight and radiating free heat into building.

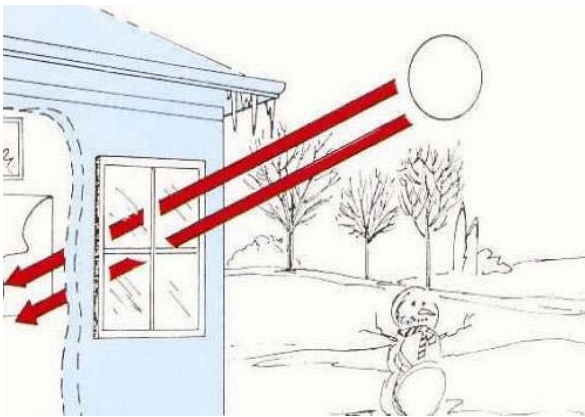
The reversible In'Flector Window Insulating material works on three properties: reflectivity, emissivity, and absorption. First the silver side (aluminium) was chosen for two reasons; 1st to reflect solar heat gain back out through the window; 2nd and most importantly aluminium has a low emissivity of between 0.03 and 0.05. This means that only 3% to 5% of radiant heat is emitted through the aluminium; 3rd absorption, black absorbs more of the sun's than any other color. The patented see through, one way heat transfer, reversible system of In'Flector Window Insulators addresses all of the seasonal changes throughout the year, keeping the cold out and the heat in the winter, while keeping the heat out and the cool inside in the summer. In'Flector Window Insulators reduce the movement of radiant heat through windows. This reduces the "greenhouse" heat effect.

HOW RADIANT BARRIER INSULATORS WORK

Benefits and Value



In the summer the In'Flector Window Insulators are positioned so that the silver side faces out and performs reflecting 72% of radiant heat back through the window, reflecting 65% of solar gain back out through the window, reflects 92 % of damaging UV rays back out through the windows, reduces glare, provides daytime privacy, while the black laminated side helps to keep the cool air from escaping through your windows.



In colder climates in the winter the In'Flector Window Insulators are reversed so that the silver side (aluminium) is facing inward reflecting the radiant heat back into the building reducing heat loss through the windows, with windows that have sun exposure the black side of the blinds are passive solar collectors and a 4 X 4 window in direct sunlight can produce 2096 BTU's of heat per hour, which is equivalent to a 600 watt electric heater.

Reducing heat gain through the windows in the summer reduces energy consumption for cooling and reducing heat loss through the windows in the winter reduces energy consumption for heating.

Energy inefficiency with windows should be a concern to everyone. The fact is utility costs are going to keep rising; at what point and time does reducing the consumption of utilities become a priority.

Contact your Local Representative to arrange for an In'Flector See Through Radiant Barrier Window Insulator product demonstration. Representatives can also provide residential, business, and government installation photographs, plus testimonial letters.

Lance A. Lamb, founder,



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