



The Role of In'Flector See Through Radiant Barrier Window and Skylight Insulators to Secure a more Efficient World Today and Into the Future

IN'FLECTOR[®]
*The See Through Radiant[®]
Barrier Window Insulator*



Product – Inflector Window Insulators

- *A 4' X 4' In'Flector window insulator can produce as much heat as a 600 watt electrical heater per sunlight hour and reflect up to 72% of the room heat back into the room! During the summer, our product reduces air infiltration up to 71%, stops solar heat gain up to 65%, and blocks up to 90% of harmful UV rays*



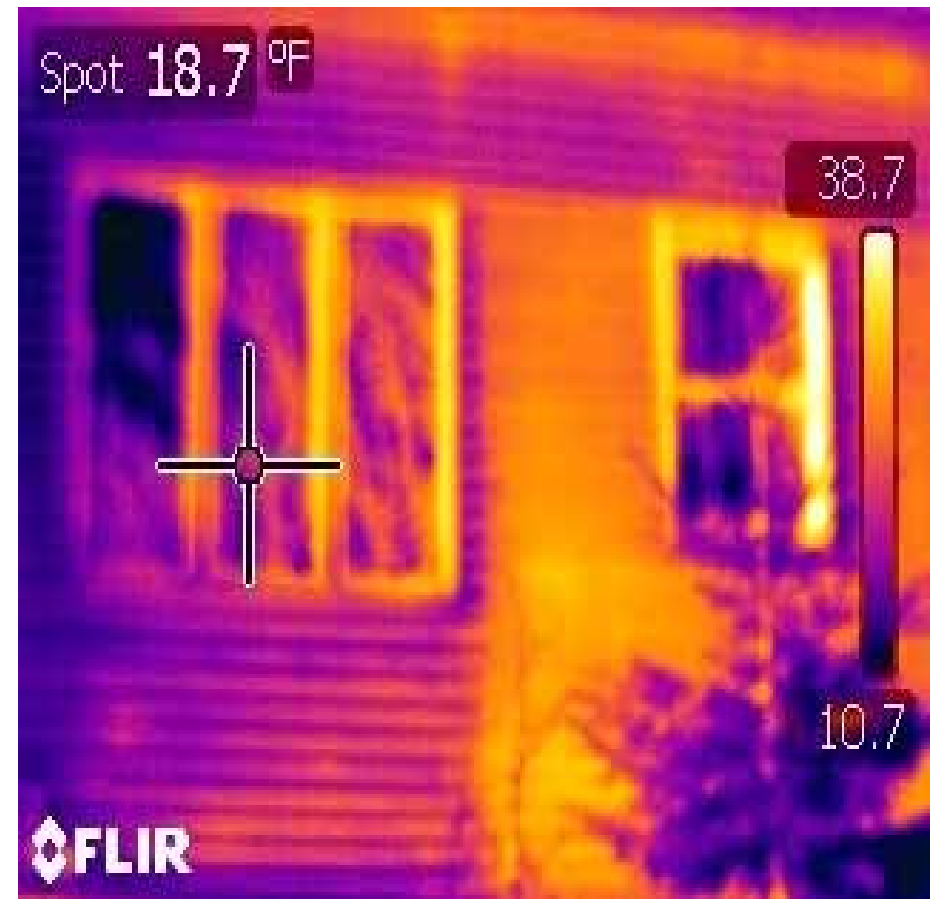
Texas Conservation Commission Building – AUSTIN, TEXAS
Left Window – No **Inflector Radiant Barrier Window Insulator**

Be More Comfortable “Insulate Your Windows!”

On a 13 Degree Day in Maine



Looking through the InF'lector Interior Window Insulator in the winter configuration

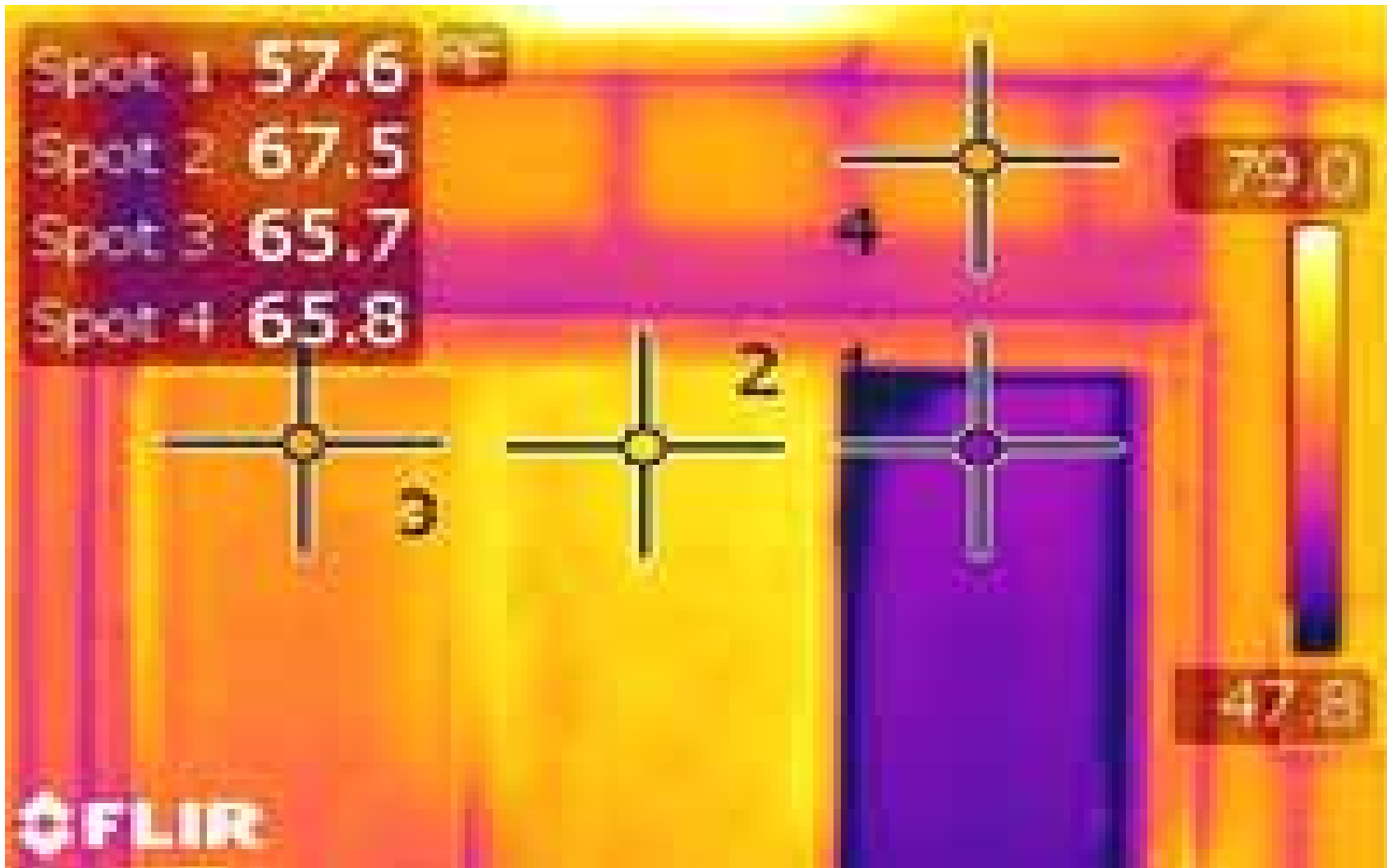


The Outside Window Glass Temperature was 16.3 degrees and 18.7 degrees



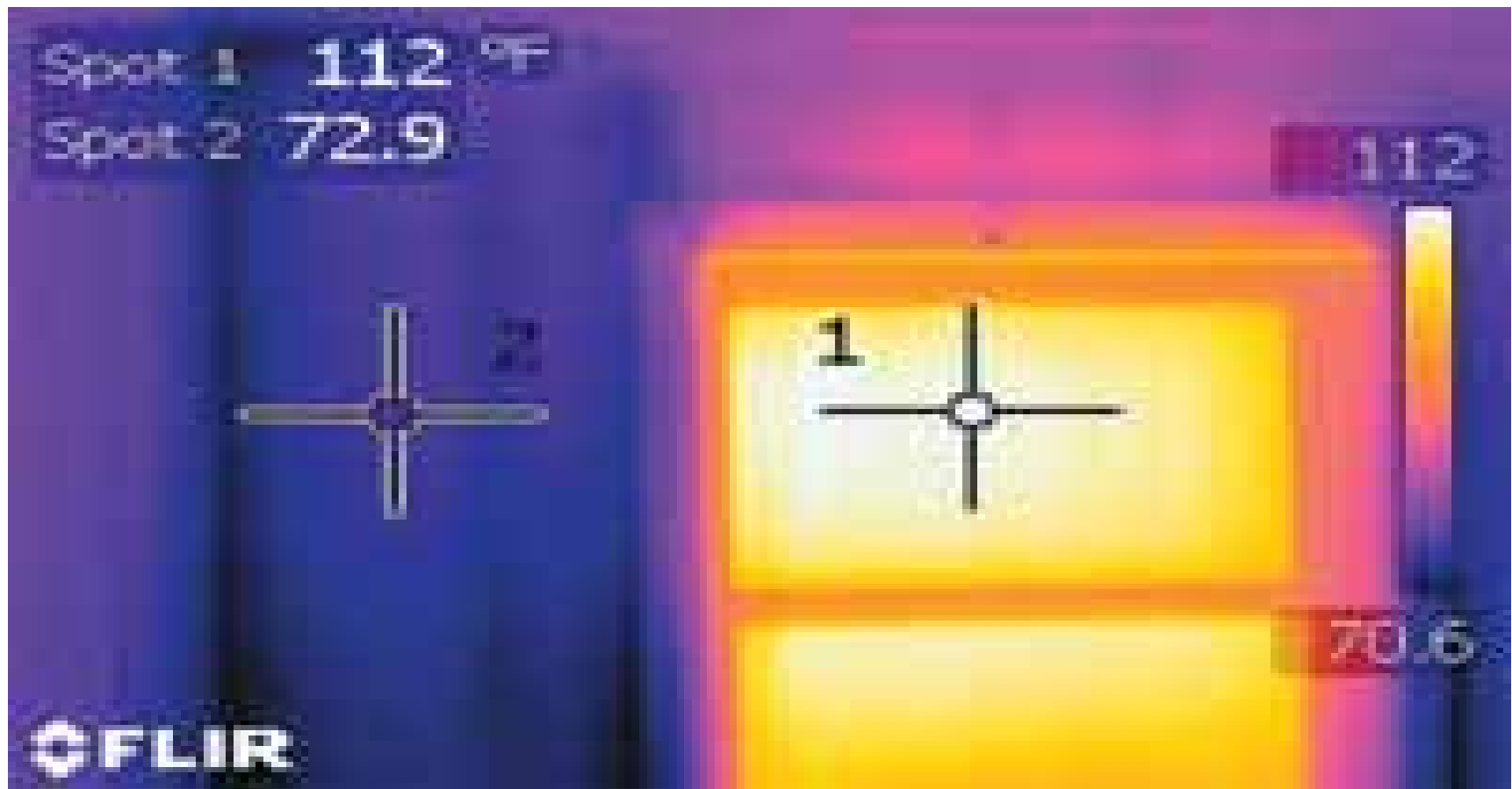
While 13 degrees outside on the windows above
The R22 Insulated Wall temperature (Spot 1) was 67.3 degrees and the InF'lector Interior Window Insulator
temperature (Spot 2) was 64.4 degrees.

GET COMFORT LIKE A WELL INSULATED WALL AND KEEP YOUR VIEW!



This image was taken on a day when the outside temperature was 48°. The right side (point 1) shows the cold 57° glass, (point 2 & 3) shows the inside temperature of the inflector material, (point 4) shows the inside wall temperature at 65°. The inside thermostat was set at 69°. Notice how the inflector material temperature is slightly above the inside temperature of the insulated wall, demonstrating the extraordinary thermal barrier performance.

This image shows the inflector material installed on a double hung window that the sun is shining on. Notice the wall temperature at 72.9° and the solar gain temperature on the inside of the inflector is 112°, providing 39° of added heat to this room. The outside temperature on this day **was 24°.**



Marketing Strategy through Energy Efficiency

- 1. Residential**
- 2. Governmental**
- 3. Commercial**
- 4. Institutional**



Check out the 92° difference. Are you amazed that this thin, Radiant Barrier See Through Window Insulators address all of the seasonal changes throughout the year, keeping the heat in the building during the winter, while keeping the heat from entering the building during the summer.

A permanent Solution for High Energy Bills!!



The test above consists of a 250W, 400° heat lamp with an In'flector See Through Window Insulator between two thermometer sensors. The Radiant Barrier side of the In'flector is facing the heat lamp. Impressed??

The Future of Energy

IN'FLECTOR®

*The See-Through Radiant®
Barrier Window Insulator*



*Today's Solution for
Window Inefficiency*

Reversible Insulating Window Panels & Shades

Use Your Existing Windows to Generate Heat in Winter and Help Cool Your Home in Summer

Reflects sunlight and
radiant heat in the summer

*Available in Vertical Shades, Roller Shades
or Window Panels for Residential or Business*

**In'Flector
Does It
All!**

Absorbs sunlight and
converts it to interior
radiant heat in winter



Visit Our Showroom Today!



Next Energy Store

7935 Chardon Rd. • Kirtland, OH 44094 • Call: 440-256-3740
www.NextEnergyStore.com

The ONLY see through insulator for windows.



INFLECTOR IS THE ONLY ENERGY SAVING WINDOW PRODUCT THAT SAVES YOU ENERGY, ALL YEAR!

Windows are the weakest link in any buildings energy performance!

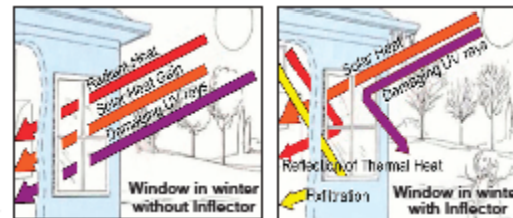
- Inflector will improve the energy performance of a single pane window by over 70%!
- Inflector will improve the energy performance of a double or insulated glass window by over 40%!!

What the Solarize Inflector System will do.....

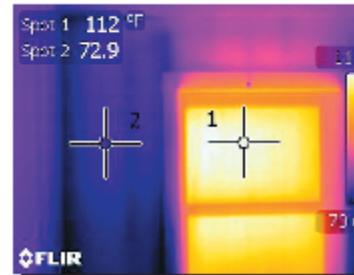
- Becomes a thermal barrier between the cold window temperature & your room temperature.
- Stabilizes inside temperatures, which improves overall comfort & reduces heating/cooling costs.
- In cold climates, the inflector becomes a passive solar heat source for all windows facing the sun. In the summer, you simply reverse the inflector to keep solar heat out.
- Reduces solar and reflective glare & blocks up to 90% of harmful UV rays.
- See through material keeps rooms bright by allowing natural light inside.

Once you install an inflector panel on your sun exposed windows, you will have added heat when the sun shines and by simply reversing the panel in the summer, you reflect the solar heat away from your living space.

FMI call TODAY!



SEE IT TO BELIEVE IT!!



CUSTOM MADE TO FIT ANY WINDOW SIZE or SHAPE!!
Available in panels or shades (vertical, horizontal or roller)

This image shows the inflector material installed on a double hung window that the sun is shining on. Notice the wall temperature at 72.9° and the solar gain temperature on the inside of the inflector is 112°, providing 39° of added heat to this room. The outside temperature on this day was 24°.

What is the Inflector product?

The see through inflector product is a patented process of a metallized coated polyethylene sheet which is laminated to a sheet of carbon granite, that is then perforated and laminated to a sheet of clear polyester.

The metallic or shiny side of the inflector is the primary energy part. Using the radiant heat principal, this shiny side is mounted facing inward during the heating season and outward during the warmer or summer seasons. Tests have proven that when mounted inward in heating seasons, it will perform as a thermal barrier, keeping your heated room temperature from being cooled against the cold glass. It does this by reflecting your rooms' heat away from it's surface. In summer seasons the metallic side is mounted facing outward to reflect the sun's energy or heat gain away from the inside of the building.

The dark non-reflective side of the inflector, when facing outward in the heating season, will absorb the sun's energy and transfer it into the heated room, in essence becoming a passive solar collector.

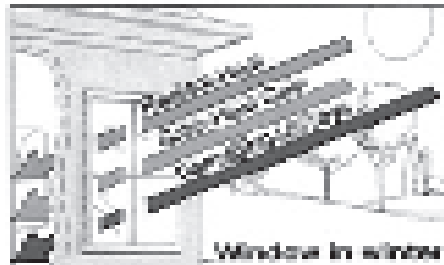
The added heat gain is a great value to Maine winters!

**It's a solar collector in the winter,
a solar reflector in the summer!**

**CUSTOM MADE TO
FIT ANY WINDOW
SIZE OR SHAPE!**

**Available in panels or
shades (vertical,
horizontal or roller)**

SEE IT TO BELIEVE IT!



**Windows
are the weakest
link in any
building's energy
performance!**

**Inflector will stop
heat loss through
a single pane
window by over
70%, and of a
thermopane
window by over
40%!**

**The only product that performs to stop heat loss,
at the same time becoming a solar collector. In
the summer it becomes a solar reflector. Most
importantly, we are a see-through product!**

**Solarize
Inflector**

WINDOW SYSTEMS

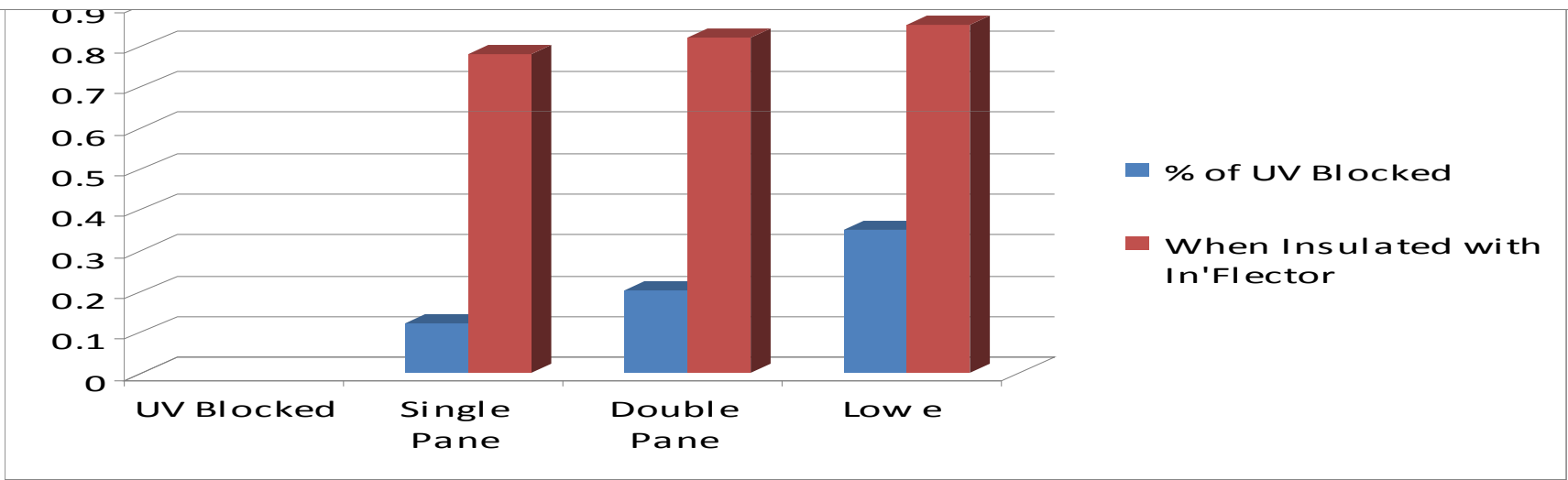
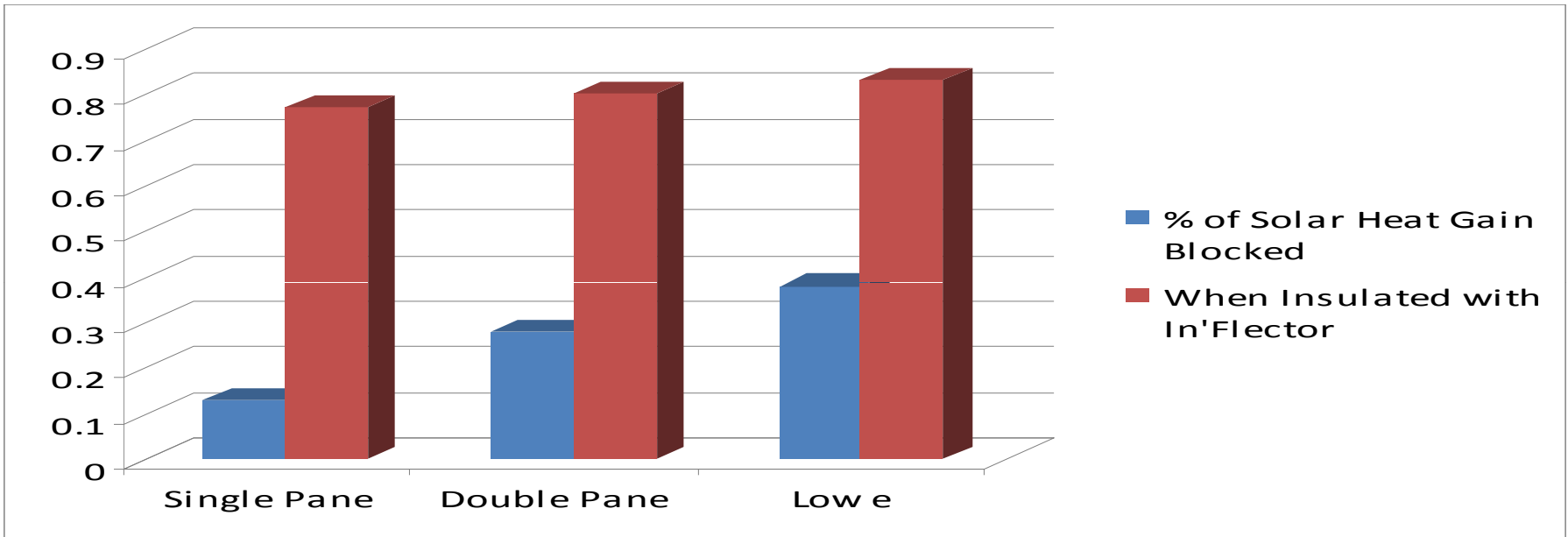
985-4438 • 800-370-0163 • FMI: www.solarizeinflectorwindows.com

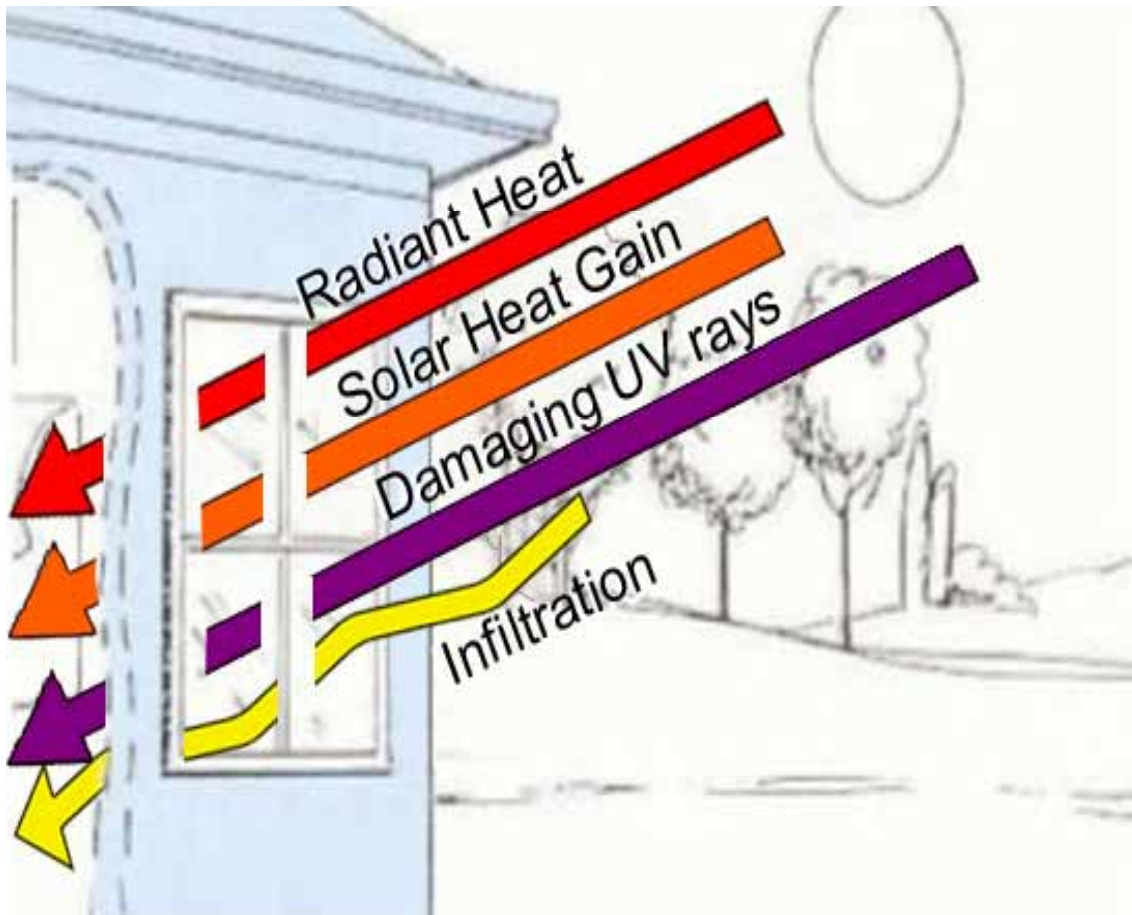
Competitive Advantage

The Trillion Dollar Energy Efficiency
Wake Up Call

• <i>Option</i>	<i>CS</i>	<i>RHT</i>	<i>SI</i>	<i>CH</i>	<i>Comment</i>
• Blinds, Shutters • Shades & Curtains	Y	N	N	N	<i>Makes more shade but reduces natural light. No real payback</i>
• Window Film • •	Y	N	N	N	<i>Darker tints make people feel cooler, but can attract heat. No payback. Usually voids window warranty.</i>
• Solar Screens •	Y	N	N	N	<i>Not much benefit for cost with limited life span. Limited payback.</i>
• Double Pane & • Triple Pane Glass	N	Y	Y	Y	<i>This is a double or triple bad insulator. Minimal payback.</i>
• In'Flector • • •	Y	Y	Y	Y	<i>The engineered solution, with Window Insulators the most comfort enhancement, under four year payback, long lifespan & UV protection</i>

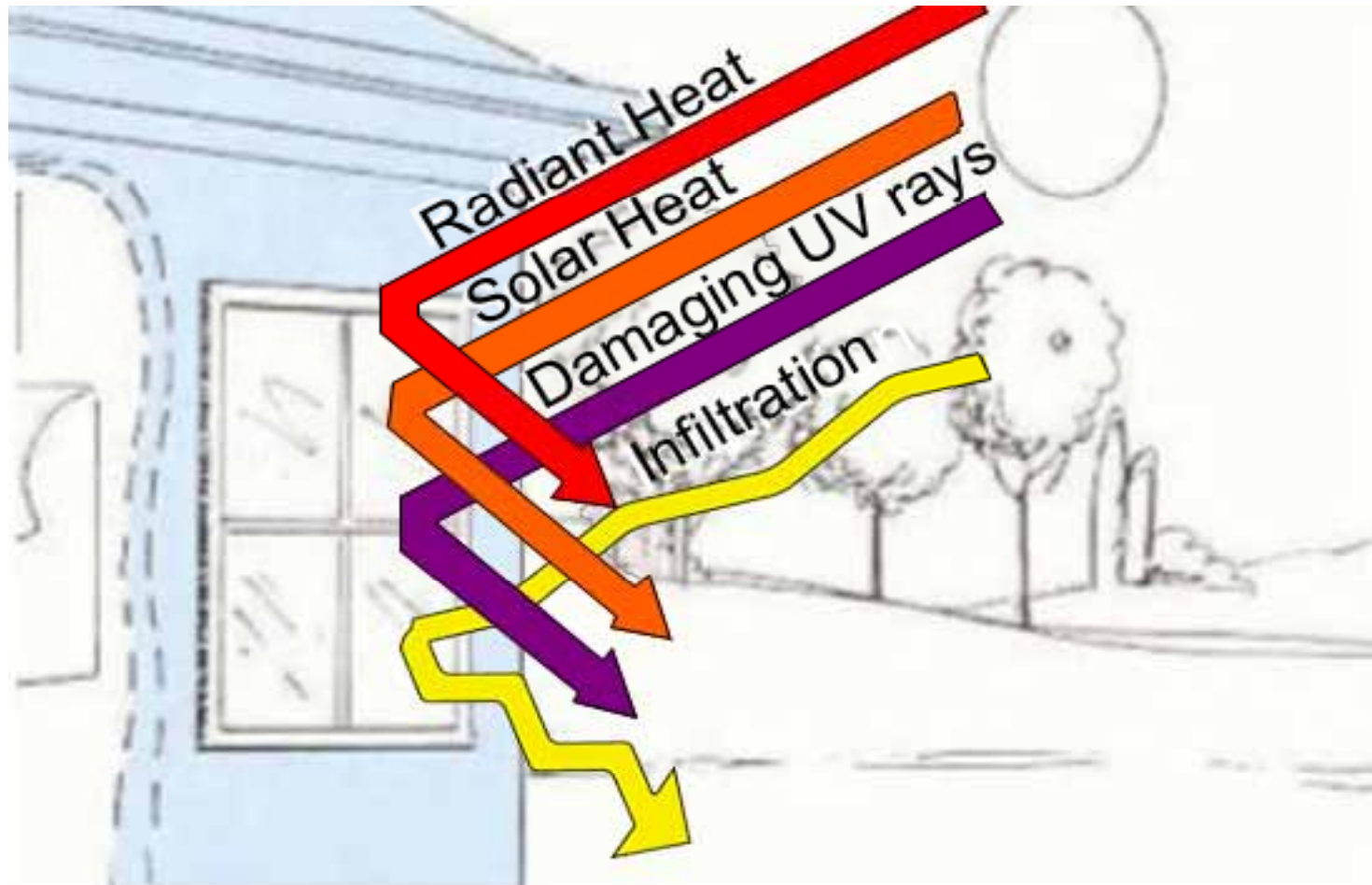
METERED RESULTS USING EDTM GLASS TESTING EQUIPMENT





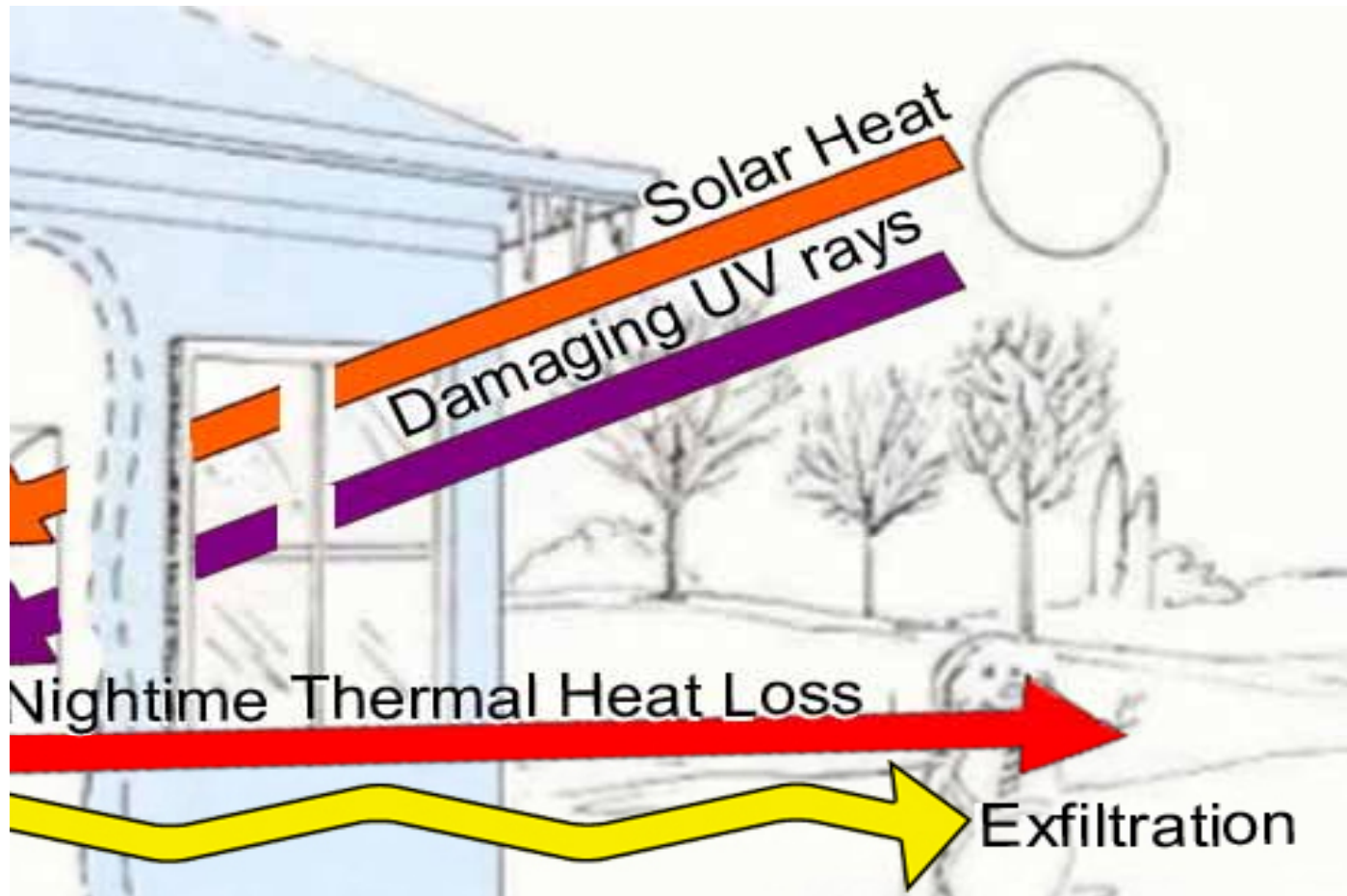
Summer Window Performance

Windows provide daylight and a view, but they also allow unwanted glare, heat and damaging UV rays to enter into a home or buildings. This increases interior temperatures and cooling costs, and decreases comfort and productivity. It also results in UV damage to furniture, carpets, etc. Windows are also the highest per capita source of infiltration on the “envelope”.



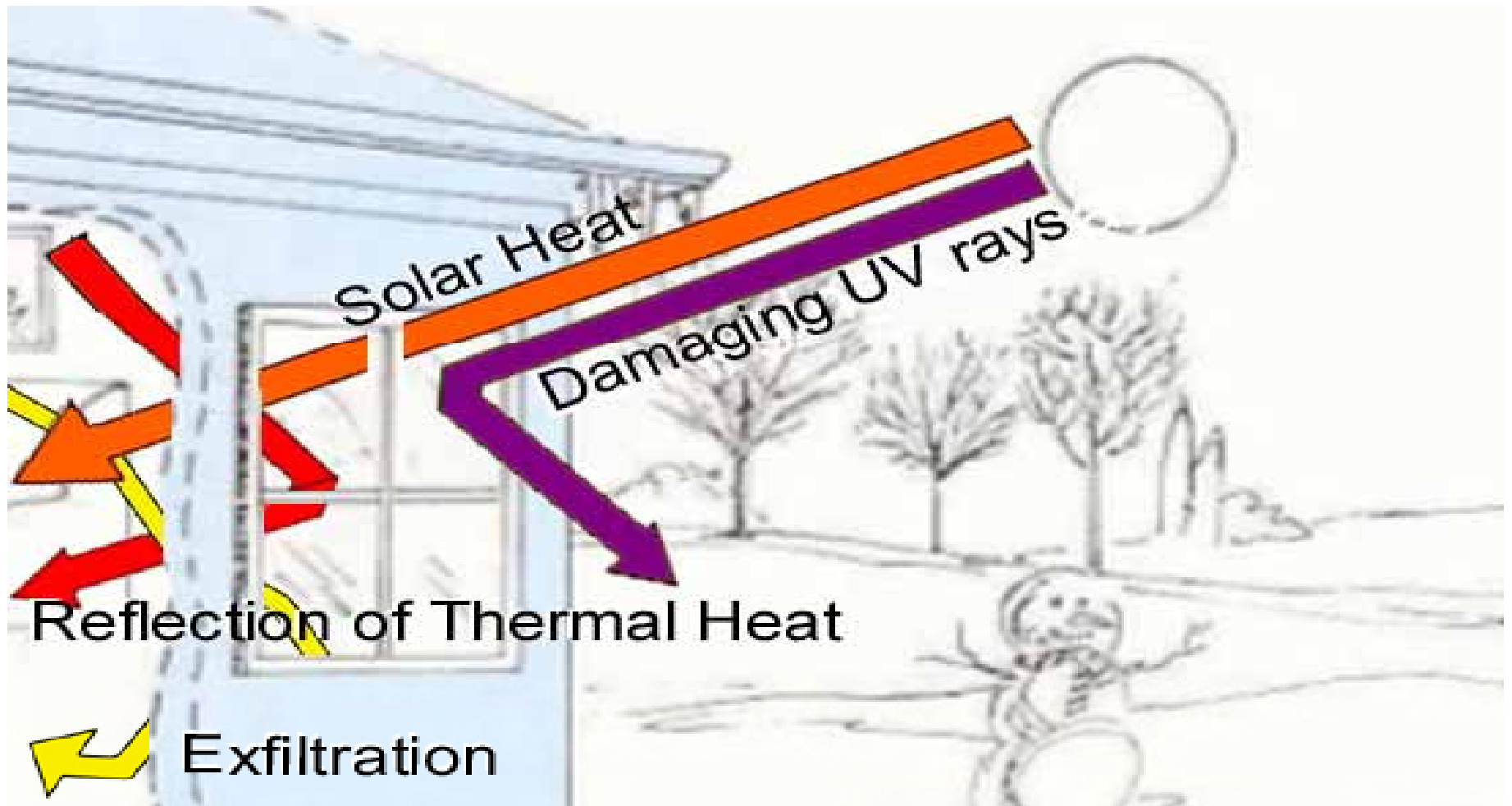
In'Flector Window Summer Benefits and Value

In summer In'Flector Radiant Barrier Window Insulator are positioned so that the reflective surfaces faces out and this rejects 72% of radiant heat (reducing the greenhouse effect in buildings); reflects 65% of solar gain back out through the window (reducing overheating in buildings); stops 92 % of damaging UV rays (reducing fading & sun damage); controls glare (especially for computers & televisions); provides daytime privacy (one way vision); provide cool day lighting with a view; reduces the load, wear, & maintenance on HVAC units. In'Flector reduces cooling demand which reduces energy consumption, saving you money.



Winter Window Performance

Windows allow daylight and solar gain which we want in the winter but they also allow the sun's damaging UV rays to enter. Of great importance also is the fact that thermal heat escapes through the windows day and night when it is colder outside than inside. Since heat travels to cold you lose heat through your windows due to exfiltration (air leakage) and conduction.



CASE STUDIES



We are proud to announce that we have completed the In'Flector installation at the Lackland Air Force Base Gateway Club (officer's club) in San Antonio, TX. The Gateway Club now has the most energy efficient windows of any Air Force Building! These pictures illustrate the huge improvement. Please note the intense sunlight and glare coming through the uninsulated windows while the In'Flector Insulated windows reduce the majority of that solar gain, Uv rays, and radiant heat while also reducing infiltration. The difference is very apparent with the glare and is evident in sunlight showing on the carpet. The change of the sunlight streaming through the large arched windows was also very dramatic. Thanks for your efforts in energy efficiency Air Force!



National Defence Medical Centre, Ottawa, Ontario, Canada





 National Defence Défense nationale

National Defence Medical Centre
1745 Alta Vista Drive
Ottawa, ON K1A 0K6

February 20, 1996

In'Flector Control Systems
157 Premier Avenue
Ottawa, ON K1Z 8P7

Attention: Mr. Jeffrey R. Clarke, President

Dear Mr. Clarke,

As Technical Services Officer for National Defence Medical Centre, it is my pleasure to recommend the In'Flector Control Systems for window insulation, as well as the excellent service provided by you and your company.

At the invitation of NDMC, the In'Flector window insulator panel was introduced for the first time in Jan 95 when sample panels were installed in very cold areas throughout the hospital. Results were immediate and the occupants commented very positively on the quality and improvement of the work place. The panel is intended to reduce building energy costs by enhancing the window's heat transfer characteristics under both winter heating and summer cooling loads.

A laboratory evaluation was performed to study and report on the insulator panel in terms of its impact on air leakage characteristics, the thermal transmittance properties and solar heat gain performance of windows. Following this study, 200 panels were trialled throughout the hospital. Then, at your request, an independent consultant team performed further tests prior and following the installation of these test panels. The results were very positive and remarkable improvements were noted in the air leakage behaviour of windows after the installation of the panels. A survey conducted by NDMC was performed of all staff in affected areas and again, comments were very positive and the panels were highly recommended. It is hoped that eventually all windows in the entire building will have these panels installed.

I would be pleased to answer any questions you may have, and would like to state my sincere appreciation for the cooperation and excellent service provided.


J.R. Goulet
Hospital Technical Services Officer
(613) 945-6553

Canada

Printed on recycled paper - Imprimé sur du papier recyclé

IN'FLECTOR[®]

*The See Through Radiant
Barrier Window Insulator*



North Star Homes, 2007, Toronto, Ontario



Energy Manager Mike Mangan

West Allis/West Milwaukee School District

Mike understood that the windows are the weakest point of the building envelope. South facing windows of the administration building caused increased heat gain raising the temperature in all south side offices causing increased cooling costs and inconsistent interior temperatures throughout in. Meanwhile employee's on the north side of the building wear extra clothing to try maintain a level of comfort.



Laboratory Reports And Tests

In'Flector Insulator Report Evaluation

South Africa 2008 Test Results

Texas A & M Report

John Yellot Engineering Report

Flame Classification

Ortech Report

Scanada Report

G.M. Trim Plant Report

In'Flector See Through Radiant Barrier Window Insulators Are:

- A great energy conservation, energy efficiency, energy independence, energy security, and carbon reduction product.

WHAT YOU CAN DO TO HELP

- Product purchase financing
- Installation rebates
- Joint customer workshops
- Installation on your infrastructure
- Recommendations and exposure on your websites

www.energyefficiencydr.com



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