

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



The question: How much heat passes through different types of residential glass and how much of a difference would adding In'Flector actually make in homes and offices?

Laboratory tests are great if you understand what they mean, however most of us would rather see a demonstration and let us make our own decisions. The EDTM glass testing equipment (EDTM is a National Fenestration Rating Council certified manufacture of glass testing equipment) enables us to demonstrate three (3) important effects: how much heat passes through different types of glass, how much heat passes through In'Flector, and how window efficiency is improved with the In'Flector.

The equipment used for the test: EDTM heat lamp 1-0D784-85-00 and EDTM Solar Transmission & Btu Power Meter Model # 2065.

THE CALIBRATION: The EDTM solar Transmission & BTU Power Meter Model #2065 was calibrated where the heat measured at the meter was at 100%, each piece of glass was positioned between lamp and the meter and the metered results recorded.

The types of glass tested:

Single Pane Clear



Double Pane Clear



Double Pane Low-E



The glass samples were positioned between the source of heat (heat lamp) and the solar BTU meter which measured what percentage of heat moved through the different types of glass.



The above metered measurements were recorded showing the amount of heat which passes through each type of glass.

Single Pane Clear: 85% of the heat (BTU's) passes both ways through the glass.

Double Pane Clear: 70% of the heat (BTU's) passes both ways through the glass.

Double Pane Low-E: 61% of the heat (BTU's) passes both ways through the glass.

With the meter calibrated and registering 100 % of the heat recorded at the meter, the In’Flector was placed between the source of the heat (the heat lamp) and the meter in the same placement as the glass samples.

Laboratory tests report the In’Flector material reflects 72% of radiant heat, and 65 % of solar heat.

The picture on the right is the meter reading with just the In’Flector and shows only 20 % of the heat actually reaching the meter.



**Test results of the 3 types of glass with In’Flector.**

Single Pane Clear



Double Pane Clear



Double Pane Low-E



The set of photographs above show the reduction in the percent of heat that passes through each type of glass when the **In’Flector** “see through window insulating radiant heat barrier’ is positioned between the testing solar meter and the different types of glass.

Single pane Clear: shows a reduction from 85% of the heat (BTU’s) passing both ways through the glass down to 17%.

Double Pane Clear: shows a reduction from 70% of the heat (BTU’s) passing both ways through the glass down to 15%.

Double Pane low-E: shows reduction from 61% of the heat (BTU’s) passing both ways through the glass down to 13%.

The above tests clearly indicate that when the In’Flector is added as an interior attachment to windows the heat that passes through the glass will be substantially reduced. In fact a single glass pane window with the In’Flector is more energy efficient than a double pane low-E window.

## METERED RESULTS USING EDTM GLASS TESTING EQUIPMENT

