

# THE THERMAL TIMES

Thermal Specialties & Installation Co. Newsletter

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## HOW YOUR NEW REPLACEMENT WINDOWS WORK

Here is a little information on how those new windows kept you so warm and comfortable during this very cold and very windy last couple of months of winter.

It all started in the early 1970s when it was discovered that by placing two or more pieces of glass together with dead air space between the panes gives a lot less temperature transfer across the two panes of glass. Now the use of silicone wrapped U shaped metal spacers help to seal out the moisture, and even better warm edge spacers (true seal and dura seal) made of a rubber tar like substance seal out the moisture almost indefinitely. This reduces heat transfer around the perimeter of the glass.

In 1979 came the big breakthrough in the slowing of heat transfer across the insulated glass it's called Low-E glass (E stands for emittance) it reflects heat back to it's source. Meaning in the summer it reflects the heat away from your house and back outside keeping your home cooler and running the A/C less, in the winter it reflects the heat back into your house keeping your furnace from running as much. If you notice it only reflects heat, not cold, cold mostly stays where it is. Also Low-E glass cuts out more than half the damaging ultra violet light from getting into your house fading furniture, carpeting, clothing, wood products and all your treasured items.

Along with Low-E glass, Argon gas and Krypton gas is also used in the space to slow the heat transfer, this odorless colorless non-toxic inert gas provides better insulation than air and is kept between the glass by the enhanced sealing qualities of the new warm edged spacers.

Weatherstripping has improved also it is called Fin Seal and is polyester pile with a mylar fin held between the piles as to make contact with designated surface. It resists mold, mildew and fungus.

The vinyl frames have improved a lot in the past 20 years with new ultra violet light stabilizers to stop the break down of the vinyl, so you get a vinyl that lasts almost forever and never needs painting inside or out, does not chip peel or if it is scratched you can not tell because the color is solid throughout.

Now I guess you have noticed the big difference between your new windows and your old single pane windows or even the old double pane windows. Take some time one day to have a good look at what these new windows have done for your home and take into account how they tilt in for easy safe cleaning, cut down on the outside noise and make your home so much more comfortable and how the energy savings pay for approximately two or three windows a year. It all adds up to a very smart home improvement and investment.

Don't forget to tell your friends, family and co-workers about the benefits of having new windows like yours. Tell them how much more quiet and comfortable your home is and how much warmer the rooms are in the winter plus how much cleaner and brighter your home and windows are, but especially tell them about the energy savings, how the furnace runs less, how you don't feel drafts and cold spots anymore.

Be part of our customer referral program if we get a job referral and sell the job you get \$ 75.00 (see back).