

# ENERGY SAVING IDEAS

## Window Construction That Will Save You Dollars

(NAPSA)—Today more than ever, homeowners are replacing their old, worn-out windows with energy-efficient replacement windows. Poorly insulated windows can attribute to 25 percent of a building's heating and cooling loads. As a homeowner, it is important to understand how windows affect heating and cooling costs. The primary ways that energy flows through windows are sunlight (solar radiation), radiant heat, conduction, convection, and infiltration.

Conduction is when heat is transferred through physical contact. Heat conducts from the warmer to the cooler side of the window. Conduction occurs not only through solid materials (spacers, glass, and even window frames), but also through the air space between the layers of glass. The amount of heat transmitted through a material due to a temperature difference is given by its U-value. The smaller the U-value, the less heat that is transmitted.

Conduction accounts for a significant amount of heat loss in a window. If a metal-based insulating glass spacer is used in your new energy efficient windows, you could lose up to 50 percent of that window's stated R-value. The type of spacer material in your window can make or break your investment. This is why using a no-metal insulating glass spacer is so important.

Super Spacer is a True Warm™ Edge Technology product, because it is the world's only all-foam, no-metal spacer on the market today. Unlike other so-called "warm" edge seal spacers that contain steel or aluminum wrapped in



butyl rubber, Super Spacer is made of 100 percent polymer structural foam. This foam has been shown to conduct heat (and cold) at a rate over 950 times lower than aluminum and 85 times less than stainless steel. Super Spacer's no-metal formula blocks the heat escape path and provides one of the best thermal performances in the industry.

When it comes to choosing high performance insulated windows that perfectly complement the character of your home, it is important to remember that thermal resistance in the spacer system plays an extremely important role in energy savings. Consider the merits of low-e glass and gas filling, and of windows equipped with no-metal Super Spacer to ensure True Warm Edge performance and optimum energy efficiency. To learn more about True Warm Edge Technology, visit [www.superspacer.com](http://www.superspacer.com)