



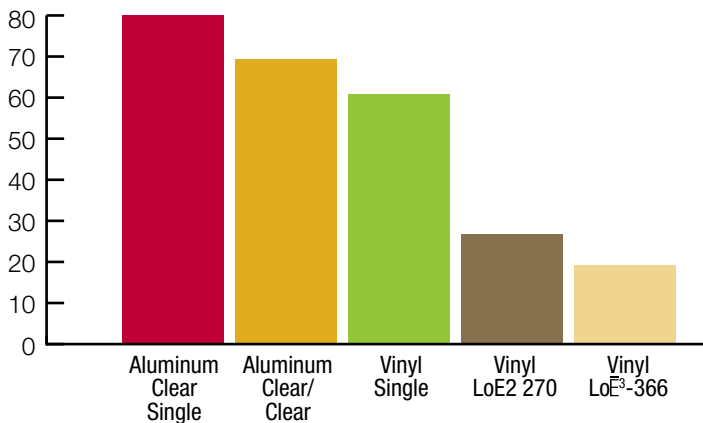
# Atrium High-Performance Glass Technology Features

## Cardinal LoE<sup>3</sup>-366 Glass

### A Measurable Difference

Atrium's high-performance energy efficient glass technology features Cardinal LoE<sup>3</sup>-366 glass. It might just make all other low-E glasses obsolete. LoE<sup>3</sup>-366 delivers the ideal balance of solar control and high visibility. And it provides the highest levels of year round comfort and energy savings, making it the perfect glass no matter where you live. Studies indicate that the average home can lose up to 30% of its heating and cooling energy through its windows. Today, with Atrium high-performance glass technology, we offer you a proven solution to reject the sun's heat and damaging UV rays- keeping your home cooler, and with less fading damage.

### Typical NFRC SHGC Values (whole window)



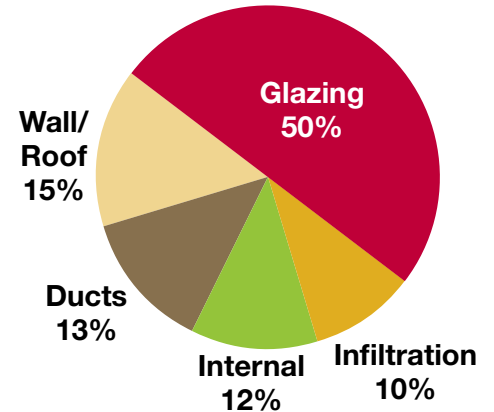
### 3 Layers of Silver

- Ideal balance of solar control and high visibility
- Energy savings and year-round comfort
- Lets more light in and keeps more heat out
- Specially formulated to reject sun's heat

### Summer Comfort Inside Surface Temperatures

Product	Outside Surface	Inside Surface
Clear Single	94	94
Clear / Clear	100	90
Cardinal LoE2 270	119	84
Cardinal LoE <sup>3</sup> -366	119	80

### Windows Are The Biggest Contributor to Cooling Load

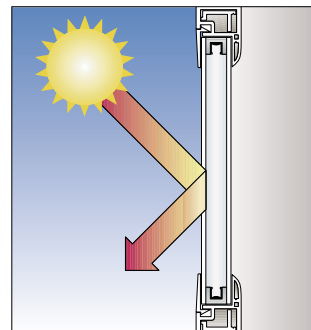


**2005 Standards**  
 Window U=0.57 (20%)  
 SHGC = 0.40  
 Tight Ducts  
 Standard pkg house

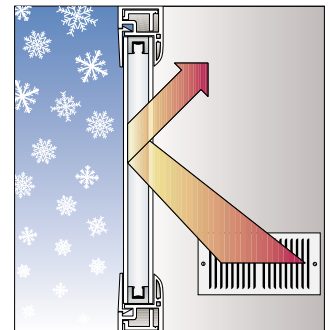
### Fighting Damaging UV Rays

The sun's UV rays are the #1 cause of fading of interior furnishings. Atrium's high-performance glass technology with Cardinal LoE<sup>3</sup>-366 blocks 95% of incoming UV light - protection you cannot receive with ordinary Low-e glass.

Product	Fading Transmission		
	UV	TDW-K	TDW
Clear Single	0.71	0.73	0.84
Clear/Clear	0.56	0.60	0.74
Ordinary Low-E	0.44	0.68	0.63
Cardinal LoE <sup>3</sup> -366	0.05	---	0.43



In summer, the Low-E glass enables visible light to pass while blocking infrared and ultraviolet radiant solar energy. So your rooms stay cooler.

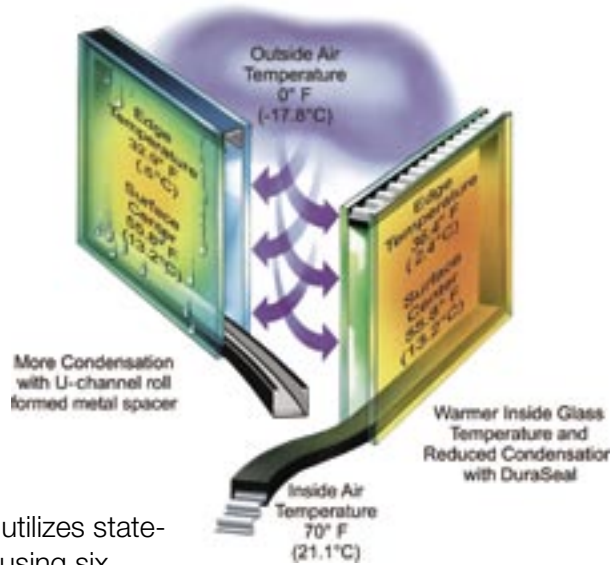


In winter, the Low-E glass helps keep rooms warmer by reflecting heat back into the home while letting warm, solar rays in.



# Atrium Features the DuraSeal™ Warm-Edge Insulating Glass Sealant System That Saves Energy And Reduces Condensation

Atrium utilizes the DuraSeal™ high-performance warm edge insulated glass sealant system engineered to flex with the glass in hot or cold temperatures to resist sealant failure. This insulated spacer system keeps the edges of the glass warmer, dramatically reducing condensation while keeping warm air in and cold air out.



## See More Clearly

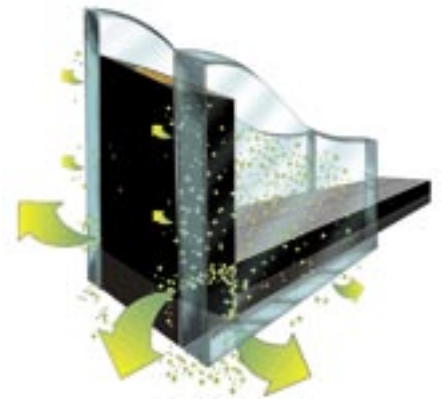
DuraSeal™ delivers improved condensation resistance. It increases the edge of glass temperature as much as 10% over U-channel roll formed metal spacers making windows warmer. The better the edge of glass insulates, the less condensation will form on your windows.

## Warm Edge Technology

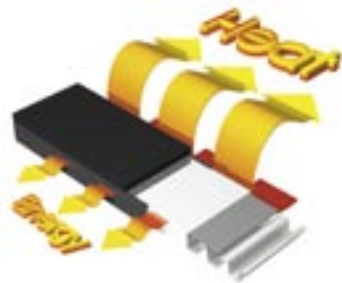
The DuraSeal™ warm edge glass system utilizes state-of-the-art composite laminate technology using six unique materials to provide the best warm edge system available. DuraSeal™ saves energy by insulating the window frame and edge of glass 50% better than U channel roll formed metal spacers and 90% better than aluminum spacer bar.

## Insulating With Argon Gas

Argon gas works like an insulating blanket between two panes of glass to further improve thermal efficiency. Argon reduces the overall transfer of heat between the inside and the outside glass. Argon is a naturally occurring clear, odorless and nontoxic gas. Atrium utilizes Argon resistant adhesives and the DuraSeal warm edge spacer system to assure that the gas will stay in your windows longer and save more energy.



*Insulating glass spacers constructed of aluminum and steel conduct heat energy.*



*The DuraSeal™ warm edge spacer system reduces conductance and saves energy.*



5455 E. LaPalma Ave., Suite A • Anaheim, CA 92807 • 800-992-5226  
 9183 Kelvin Ave. • Chatsworth, CA 91311 • 818-349-1585  
 26312 Corporate Ave. • Hayward, CA 94545 • 800-406-6094  
[www.atrium.com/ca](http://www.atrium.com/ca)

Distributed By