

Expert Low-E Coating Glass Window Installation in Arizona

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Have you noticed your utility bills rising or have begun to feel excessive temperatures near your windows? One of the most effective ways to solve both issues is to install Low-E windows. For more than 15 years Energy Shield Window & Door Company has been installing Low-E coating glass windows for customers seeking greater energy efficiency. So, what makes these energy efficient windows so remarkable, and what type of coatings work best in our Arizona climate? We'll break down the answers and invite you to schedule a free consultation with us to see samples of this high-performance glass and further discuss your needs.

Low-E Coating Glass: What It Is and It's Role in Energy Efficient Windows

Low-E stands for low-emissivity, and it's a microscopically thin coating for glass designed to minimize ultraviolet and infrared light penetration into indoor spaces. Remarkably, these coatings effectively block external temperatures without reducing the lighting that enters rooms.

Low-E high-performance glass works by reflecting interior temperatures back inside during colder months and reduces the amount of radiant heating lost through the glass. In warmer months, Low-E glass deflects the sun to maintain indoor temperatures and reduce energy use.

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How High-Performance Glass Efficiency is Determined

Low-E coating glass efficiency is measured by four primary factors:

- **U-Value**—Measures how much heat loss the window allows
- **Solar Heat Gain Coefficient**—The amount of solar radiation that is absorbed or admitted through the glass
- **Visible Light Transmittance**—Measures the amount of light transfer through the glass.
- **Light to Solar Gain**—Represents visible light transmittance along with the Solar Heat Gain Coefficient rating

Our Energy Shield Window & Door Company professionals can help determine the right Low-E windows for your project. We'll also explain any current [tax rebates for energy efficient windows](#).

Types of Low-E Coating Glass

Passive Low-E coatings are crafted using a pyrolytic process to create a hard coating. Through a special process, the coating is fused to the surface to create a strong, durable bond. These are best for cold climates in general, because they permit certain levels of infrared energy to pass through.

Solar Control Low-E coatings are known as 'soft-coat' and are applied in a vacuum chamber to pre-cut glass and then sealed. **Soft-coat Low-E** windows offer superior heat and UV ray protection and offer superior energy efficiency in hot climates.

Choosing the Best Low-E Coating for Energy Efficient Windows in Arizona

Our temperatures in Arizona can reach high levels, especially during the summer months. While both Low-E options increase efficiency and improve indoor comfort levels, here at Energy Shield Window & Door Company our pros tend to recommend soft-coat Low-E coatings for those in the southern part of the state.

However, those living in more mountainous regions might get better results with a

hard-coat Low-E high-performance glass. Our industry-certified technicians can help you decide and will also discuss any current specials for window installations in Arizona.

Why Choose Energy Shield Window & Door Company?

Replacing old windows with energy-efficient ones with Low-E coating glass can save you money by helping maintain indoor temperatures and by reducing heating and cooling transference through the glass. Here at Energy Shield Window & Door Company, we manufacture top-quality energy efficient windows with high-performance glass coatings designed specifically for our Arizona climate. Every service and product we provide is crafted and installed by factory-trained, industry certified technicians. [Contact us online](#) or call us today at [623-349-7120](tel:623-349-7120) for a complimentary estimate on your window project.