



Multiple window styles can be configured to meet and/or exceed the Energy Tax Credit qualifications.



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Ply Gem windows and patio doors can be configured to meet the ENERGY STAR® guidelines for thermal efficiency in all climate regions.

WHAT IS THE WARM EDGE SPACER SYSTEM?



Other window companies use spacer systems with four separate pieces of aluminum joined together by corner keys. The Warm Edge spacer system reduces thermal transfer around the glass perimeter by utilizing a unique U-shaped channel to separate glass panes and interrupt the natural flow of heat to cold.

The Warm Edge spacer system features one continuous piece creating a stronger, more energy efficient insulated glass unit. Plus, it flexes with glass expansion and contraction to ensure a strong seal for the life of the window.



WHAT IS WARM EDGE+?



Our optional Warm Edge+ spacer system improves the windows thermal performance by utilizing less conductive materials than standard Warm Edge to provide a lower U-Factor.

WHAT IS HP GLASS?

HP glass packages combine soft coat Low-E with gas fill and warm edge spacer options, providing high performance insulating glass options to meet your specific needs.

Our HP glass packages provide balanced performance in regions with hot summers and cold winters.

HP — One lite of soft coat Low-E and argon gas fill.

HP2 — Two lites of soft coat Low-E with argon gas fill.

HPMAX — Two lites of soft coat Low-E with an interior glass substrate and two chambers of argon gas fill.



Our HP^{SC} (solar cooling) glass packages are for regions with significant cooling and glare reduction requirements.

HP^{SC} — One lite of soft coat solar cooling optimized Low-E and argon gas fill.

HP2^{SC} — Two lites of soft coat solar cooling optimized Low-E with argon gas fill.

HPMAX^{SC} — Two lites of soft coat solar cooling optimized Low-E with an interior glass substrate and two chambers of argon gas fill.



Our HP^{SH} (solar heating) glass package is for northern climates with increased heating requirements.

HP^{SH} — One lite of soft coat solar heating optimized Low-E and argon gas fill.



Argon is a safe, odorless, colorless gas, which is heavier or denser than air. When used in conjunction with Low-E glass, argon provides better insulation. That's because heat and cold do not pass through argon gas as easily as through air. Argon is non-toxic and presents no human health or environmental concerns. Ply Gem offers gas-filled insulating glass units in a number of its window and patio door products.

ENERGY STAR QUALIFIED.

Because heating and cooling needs vary, there are different ENERGY STAR® performance requirements for each region of the United States. Each set of requirements is based upon the typical climate and energy usage patterns of that region. The ENERGY STAR label will show you which windows are best for the area where you live. Ply Gem Windows is an ENERGY STAR partner.



PROVIDE SUNSCREEN FOR YOUR VALUABLES.

Safeguard your valuable interiors with glass options that offer the ultimate in superior fade protection.



Your favorite photograph, your child's artwork, even your furniture and carpet can fade or discolor after repeated exposure to direct sunlight. Ply Gem Windows glass provides a sunscreen for your house, blocking damaging ultraviolet rays without noticeably reducing the light coming inside. Depending on the glass option, 99% of damaging UV rays can be blocked.

KEEP THE OUTSIDE NOISE AND INTRUDERS OUT.

Ply Gem Windows offers laminated glass for security and improved sound control. These glass options help to reduce exterior noise and provide STC (Sound Transmission Class) values as high as 34. An STC rating provides a standard industry accepted method for comparing the sound reduction effectiveness of various glass options and window and door systems. The higher the STC number the greater the resistance to sound transmission.



DON'T TAKE YOUR GLASS FOR GRANTED.

A smart choice now can mean a world of savings later. To learn more about Ply Gem Windows energy efficient options, contact your authorized Ply Gem Windows dealer or distributor.



THE DIFFERENCE IS IN THE GLASS.



The energy we use in our homes can have a big impact on the environment. But by improving a home's energy efficiency, you are taking an essential first step in sustainable remodeling and building. That's where Ply Gem Windows comes in. Our windows and doors provide you with the smart, sustainable features you need.

According to the U.S. Department of Energy, the heat lost through windows can account for 10 to 25 percent of a home's heating bill. Ply Gem Windows are equipped with high performance Low-E glass that helps reduce this energy loss. This can increase your home's comfort and decrease your utility costs.

For more specific information on the energy efficiencies of varying glass types and total window units, ask your builder or authorized Ply Gem Windows dealer or distributor for U-Factors on the specific window style you are interested in.



MORE THAN JUST DOLLAR SAVINGS.

Ply Gem Low-E glass does more than just lower energy bills. It delivers comfort, creates less condensation and protects valuables from sun damage far better than conventional clear glass. Plus, it meets specific solar and energy control needs for different climates and geographic regions nationwide.

Low-E^{SC} (solar cooling glass), designed specifically for homes in hot climates and for homes with expansive windows that capture lots of sun, heat and glare, allows natural light to brighten your home while keeping much of the sun's heat outside. Low-E^{SH} (solar heating glass), optimized specifically for homes in cold climates, provides superior insulating values to keep your heat in while allowing more of the sun's visible light in to brighten your home.

WHAT IS LOW-E GLASS?

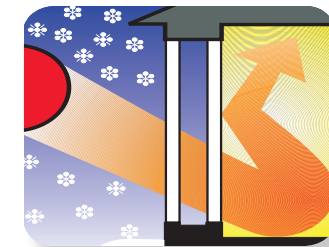
Low-E (low emissivity) glass has a secondary, very thin metallic dual layer coating. This allows the sun's heat and light to pass through the insulating glass, but, at the same time, actually works to reflect radiant heat back toward its source. Since Low-E coating reflects radiant heat waves, it helps keep your home warmer in the winter by trapping radiant heat and cooler in the summer by blocking it from your home. Low-E^{SC} is optimized for warmer climates by applying two heavier layers, through a patented process, resulting in blocking 73% of the sun's radiant heat from entering your home while providing superior insulation in cooler weather to save you energy year round. Low-E^{SH} is optimized for colder climates by applying two thinner layers, through a patented process, providing excellent insulating values with a center of glass U Value of 0.29 while allowing 70% or more of the sun's visible light in to brighten your home in colder climates saving you energy year round.



NATURAL LIGHT WITHOUT THE GLARE.

Ply Gem's Low-E glass has many advantages such as no visible darkening. Our glass minimizes interior glare, reducing eyestrain and making it easier to watch television or look at a computer screen when bright sunlight fills a room.

PROTECTION FROM WINTER CHILL.

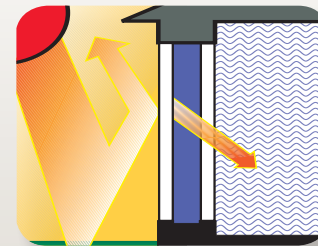


On cold winter evenings, do you avoid sitting near your windows? The cold, inside surface of an inefficient window pulls heat away from your body, so you can

feel chilly in a sweater with the thermostat set at 70 degrees. With Ply Gem Low-E and Low-E^{SH} glass, the interior glass stays warmer, so you can enjoy your seat by the window – even when the temperature outside dips well below freezing.

SHIELD AGAINST SUMMER HEAT.

In summer, do your windows seem like giant heat lamps? A typical double-paned clear-glass window allows approximately 75% of the sun's heat into your home. Ply Gem products with Low-E and Low-E^{SC} glass provide superior solar control. They transmit much less heat, without reducing visible light. You get the light but a lot less heat.



WHAT IS THE DIFFERENCE BETWEEN HARD COAT AND SOFT COAT LOW-E?

The major difference between hard coat and soft coat glass is the process by which the glass is manufactured and its overall thermal performance.

Hard coat, commonly used, generally employs an oxide such as tin, not silver. The thickness of the metallic oxide is difficult to control however, and iridescent color in the form of a blue, green or rust tint in the glass may result.

Soft coat uses minute particles of silver that are applied to the finished glass surface in a total vacuum. These atomic-sized particles are now firmly attached to the finished glass. Our standard Low-E, Low-E^{SC} and Low-E^{SH} are achieved by manipulating the thickness of the two layers of silver particles through a patented process. This coated glass surface is always on the interior (within the airspace) of insulating glass units. Ply Gem Windows products where Low-E is configured utilizes this soft coat process.

WHAT IS A U-FACTOR?

U-Factor is a measurement of the window's ability to prevent heat loss from the house. The lower the U-Factor rating is on a window, the greater its ability to prevent heat loss.

Ask your builder or authorized Ply Gem Windows dealer or distributor for the U-Factor information on the product line and window or patio door style you are considering. The National Fenestration Ratings Council (NFRC) develops and administers comparative energy and related rating programs that provide fair, accurate and credible, user-friendly information on fenestration product performance. NFRC technical data, including U-Factor information, is available on all Ply Gem Windows glass options across all products.

NOTE: Not all glass options are available on all products in all regions. Visit our web site, www.plygemwindows.com, for product specific glass options.



It's more than a window. It's a whole new point of view. At Ply Gem Windows, we believe you should have access to all the top quality styles and brands you need to bring your vision to life. That's why we are committed to providing you with more features, more looks and more options. From smart, sustainable features to custom shapes, we'll help you find a look you'll love and a look that will match your home.

And, because we're part of the Ply Gem family, you'll always have access to leading brands. Windows, doors, siding and accessories, stone veneer, fence and rail, rainware, shutters and designer accents, we have something for every project. Realize your vision today with Ply Gem Windows.

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THE CLEAR CHOICE IN SUSTAINABILITY.

Windows Siding Stone Veneer Fence+Rail Accents

