



High-Performance Windows and Doors

# Enjoy unlimited benefits with Imperial LS Windows.

Soft-Lite has been manufacturing windows since 1934. Since then, many things have changed, but one constant is the desire to own and improve your home to fit your lifestyle. However, "improving your home" today doesn't mean the same thing as 70 years ago. Rising energy costs, additional security concerns and numerous other factors have re-shaped what you want for your home.

Imperial LS Windows from Soft-Lite incorporate top-of-the-line materials and the newest manufacturing technology—and they are continually enhanced to ensure they'll meet a whole new generation of needs for your home. Beauty. Comfort. Energy efficiency. Security. Durability. Imperial LS Windows can provide you all of these benefits and so much more. You'll love the difference these windows make in your home!





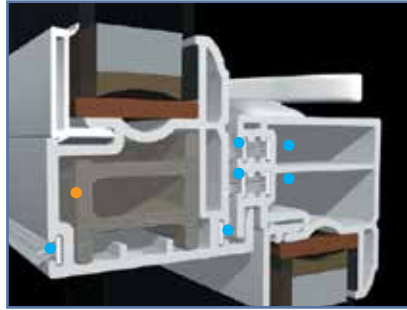
# Double-Hung Windows

Soft-Lite's Imperial LS double-hung windows feature two operating sashes—so you can open both the top and bottom parts of the window. Double hungs are the most popular window style on the market, and they'll completely transform the look and feel of your home.

The stylish beauty and sculpted design of Imperial LS double-hung windows will enhance the look of any home. Low-profile locks and an ergonomically designed sash lift rail give these windows a more elegant look and feel.

Imperial LS double hungs also provide excellent thermal performance and drastically reduce air infiltration. They'll not only make your home significantly more comfortable, but you'll also see the impact on your energy usage—which will result in lower home energy bills.

Another benefit to this window style is its unique tilt-in sashes. This design makes cleaning and maintenance a breeze, which you'll much appreciate.



- Ultra-Smart™ triple-fin weather-stripping on all sashes and at interlocking meeting rail.
- K-Beam™ reinforcement at meeting rail for extra strength.



Exterior view



Soft-Vent, when deployed, will limit sash travel to allow for ventilation.



Tight mortise-cut, double-wall sill dam extends inside the jamb, eliminating the need to caulk an open seam.



A fully encapsulated thermal chassis that resists dirt and dust accumulation, our Endura-Force™ balance system will give you decades of effortless, maintenance-free operation.



# Sliding Windows

All the same beautiful, energy-efficient features that make our double-hung windows a superior choice also apply to Imperial LS sliding windows. Sliders operate similarly to double-hung windows, except they open horizontally rather than vertically. This style is popular with homeowners who enjoy an expanded, more wide-open and unobstructed view of the outdoors.

Durable, tandem brass rollers ensure our sliding windows operate smoothly and easily for decades. These windows also incorporate heavy-duty locking hardware that will help keep your family—and your home—more safe and secure.

You can choose from two- or three-lite configurations, which incorporate both operable and fixed lites. In addition, Imperial LS sliders come in two styles—our standard slider with lift-out sashes, or our unique Swing & Clean slider that allows you to tilt your slider sashes in. Both styles offer the ability to clean the interior and exterior glass of your windows safely and easily from within the comfort of your home.



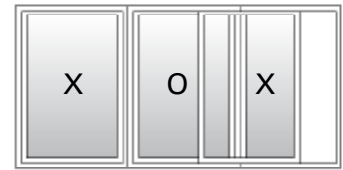
Durable brass sash rollers ensure easy operation of our slider windows.



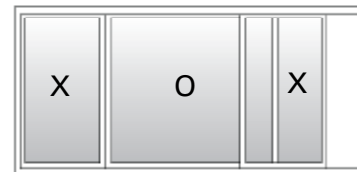
Secure locking hardware provides superior safety and security.



2-lite Slider



3-lite Slider (fixed center lite)  
1/3-1/3-1/3 configuration (optional)



3-lite Slider (fixed center lite)  
1/4-1/2-1/4 configuration (standard)

"O" designates fixed lites. "X" designates operating lites. All views interior. Choose your preference of right-hand or left-hand operating lites.





# Casement & Awning Windows

Imperial LS casement and awning windows define a special look and feel for your home. These window styles allow you to catch fresh breezes, or open them for easy cleaning, simply with the turn of a handle. Whether in multiple-window configurations or as individual windows, casements and awnings offer you many aesthetic choices so you can design them to match your home's décor perfectly.

Our easy-to-use, durable crank handle and hardware assures that you will be able to open and close your casement and awning windows with ease, so that you can enjoy beautiful days and evenings in style and comfort. The low-profile, fold-down design of our handles also provides a beautiful, unobtrusive look for the interior and exterior of your home.

A single lever lock that activates multiple locking points ensures these window styles are exceptionally secure and energy efficient as well. Casements open out to the side, while awning windows are top-hinged and open out at the bottom.



Hidden corrosion-resistant steel locking claws engage in self-lubricating keepers, ensuring a positive, secure and weather-tight seal.



Robust strength in a low-profile, standard fold-down handle design. Easy to open and close handle and hardware last a lifetime.



Multi-point lock activator engages or disengages multiple sash locks with one easy single lever design.

Imperial LS™ Casement windows offer industry-leading AAMA® GOLD LABEL CERTIFIED performance and one of the best NFRC® Rated U-factors in the window business.

Air: 0.02 CFM at 25 MPH

Water: DP65 at 62 MPH at 8" rain per hour

Design Pressure: DP60 at 187 MPH wind load

Thermal NFRC Tested: 0.15 U-factor with Ultimate Glass™



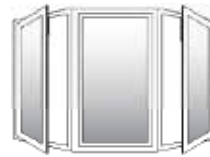
Awning interior view

# Bow, Bay & Garden Windows

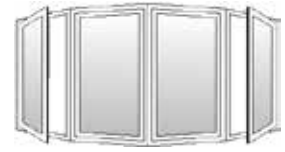
Thinking of a room addition? The three-dimensional effects of a bow, bay or garden window will enhance the look of any room by adding space, light and viewing area to your home.

Your Imperial LS bow or bay window will come packed with features other manufacturers omit or charge extra for—such as Comfort Foam insulation in the frames, R-9 Super-Seat to fight condensation and energy loss, an exclusive welded sill pan and unique built-in weep system design, and so much more. You can choose from three- to six-lite configurations with casement, double-hung or picture windows, and a wide selection of options for customization.

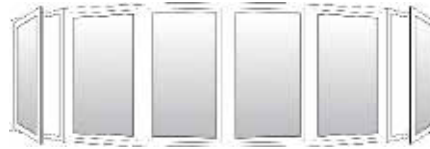
## Configurations



3-lite Bay exterior  
10°, 15°, 30° and 45°



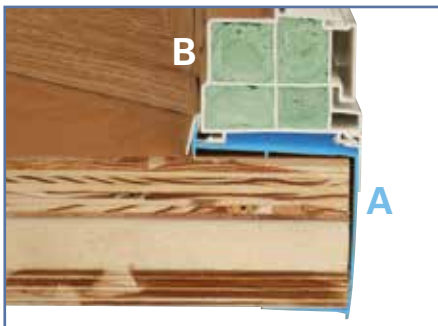
4-lite Bow exterior  
10° and 15°



6-lite Bow exterior 10°

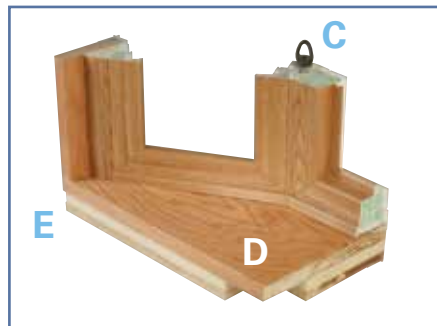


5-lite Bow exterior 10°



A. Exclusive welded sill pan (highlighted in blue) eliminates water penetration. The unique design provides a built-in weep system and a smooth finish on the exterior surface of the seat board.

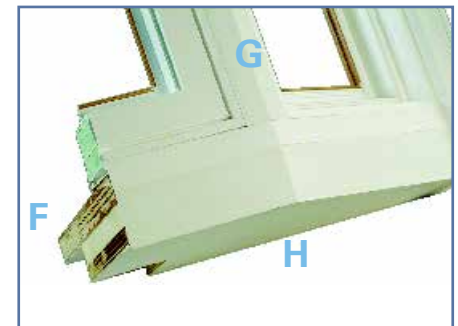
B. All window and mull cavities are insulated completely with Comfort Foam™ for maximum energy efficiency.



C. Threaded steel rod and chain bracing system provides sag-free support. (Knee brackets must be installed if roof overhang prevents use of chain system.)

D. Factory-finished interior edge banding is beautiful protection for your Super-Seat™.

E. 1.25" thick furniture-grade hardwood.



F. Insulated seatboard with 3/4" exterior capped plywood. Super Seat™ Dow® Foam 3" thick sandwich with R-9 performance for maximum thermal protection; also fights condensation.

G. Mull cover plates ensure no butt-joints to caulk or leak.

H. Factory-capped underside: beautiful lines, consistent water shed.

Imperial LS GardenVue™ windows are specifically designed to be a beautiful and structurally sound addition to your home, and are a particularly attractive choice for kitchens or bathrooms. This unique window style features trapezoidal operating casement windows and adjustable-height, PVC-coated shelves that are an ideal spot to showcase your indoor flowers or other houseplants.



Optional glass shelf

- Large mull profiles add stability and long-lasting support.
- Dual compression seals and locking mechanisms keep the operating vents sealed tight against the elements.
- Weep channels at the top and bottom help keep the interior dry.
- Upgraded oak head, seat and jamb.
- Optional Low-E glass; grid styles and patterns; frosted or tinted glass.
- Optional glass shelf.



# Patio Doors

Our stunning sliding patio doors will make your home more beautiful and energy efficient. All of our patio doors are designed for long-lasting durability and smooth operation and are offered with an array of options that allow you to customize both the thermal efficiency and appearance of your new door to your personal tastes.

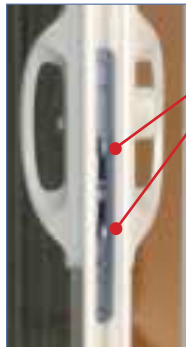
Our top-of-the-line Kingsroyal Glide™ sliding patio doors will beautify any room, especially when combined with side-lites and transoms. Your numerous aesthetic options with a Kingsroyal include eight different designer handles, unlimited exterior colors, four interior woodgrain finishes, and a wide selection of grid patterns. For your comfort and peace of mind, we've loaded this door with super-strong metal reinforcement and other features that make it more durable, energy efficient, and secure than almost any other door on the market.



An aluminum capped threshold provides durability and longevity in the area of the door that catches continual abuse from foot traffic.



We manufacture Kingsroyal doors with metal reinforcement in all vertical sash stiles, which makes the doors exceptionally strong and durable.



**2-POINT  
LOCK**

Our 2-Point Mortise Locking, stainless steel system securely locks the door into the jamb.



Our heavy-duty, ball-bearing, DuraRoller™, with its 1-1/4" diameter dual wheel, keeps your door reliably on track. The roller is fully adjustable to accommodate seasonal foundation shifts in older homes.





# Standard features for structural integrity, energy efficiency and more

Imperial LS Windows from Soft-Lite are designed to be the most beautiful, best-performing windows made today. These products are packed with unique features and the newest technology to ensure that they are truly the best investment you can make for your home.



- 1 Fusion welded, uPVC frame and sashes provide long-lasting strength and durability. This material will never rot like wood windows or corrode like metal windows, and will require little to no maintenance.
- 2 Balance cover provides a cleaner, more finished appearance.\*
- 3 Soft-Vent, when deployed, will limit sash travel while still allowing ventilation.
- 4 UltraSmart™ triple-fin weather stripping—featuring Ultrafab® Tri-Fin® Gold Series gaskets with built-in Ultra-Fresh® antimicrobial protection—wraps the sash perimeter and minimizes air infiltration.
- 5 Endura-Force™ balance system ensures smooth, easy and maintenance-free operation on double hungs.
- 6 Smooth-n-Easy integral lift rail features beautiful, yet comfortable, ergonomic design.
- 7 Stainless steel Intercept® warm-edge spacer system (standard) significantly reduces condensation. Optional metal-free Super Spacer® offers enhanced thermal efficiency and other unique benefits.\*

\* Feature not visible in photograph.

## AAMA Gold Label Certification

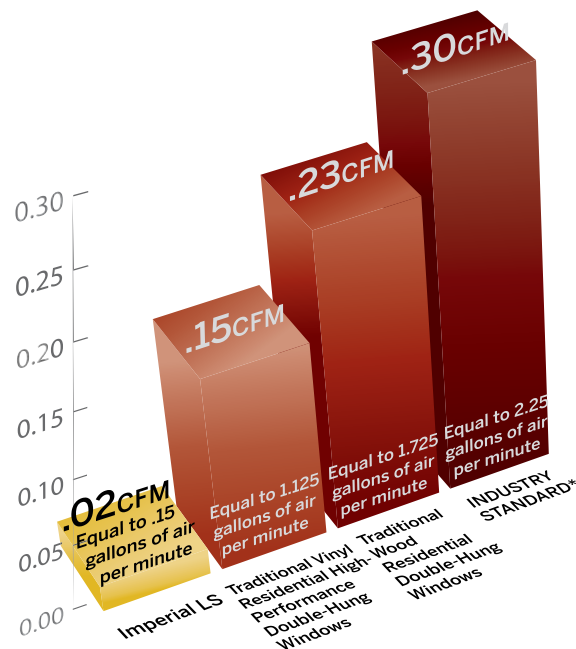
|                    |  |
|--------------------|--|
| <b>Air:</b>        | 0.02 cfm at 25 mph – 15 times better than industry minimum of 0.30 cfm |
| <b>Water:</b>      | LC55 56 mph – 8" rain per hour – 70% over industry minimum 33 mph      |
| <b>Structural:</b> | DP 65 195 mph  |



## AAMA Gold Label

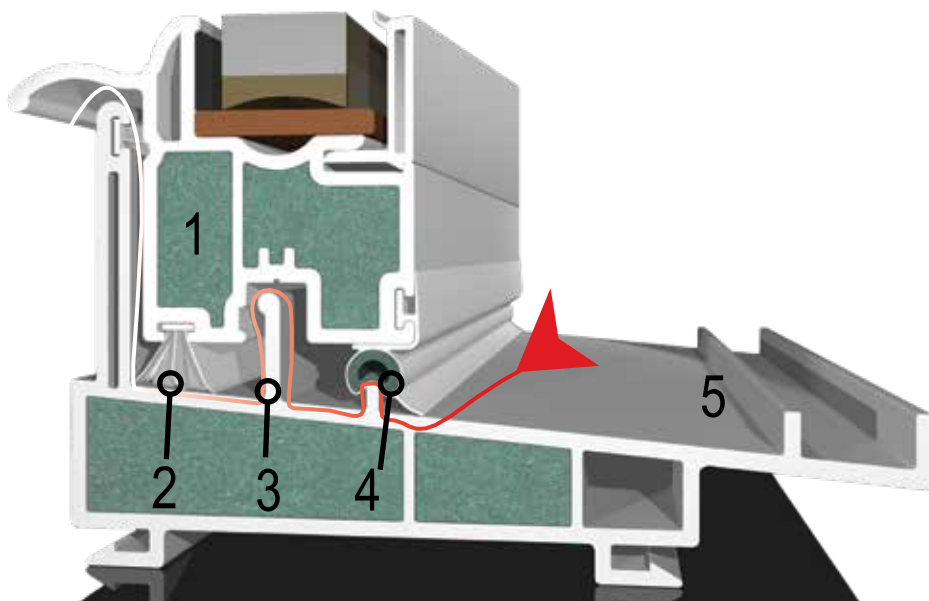
Soft-Lite Imperial LS Windows proudly carry the AAMA Gold Label, which means that they meet stringent performance standards for air, water and structural load.

\*INDUSTRY STANDARD: AAMA® (American Architectural Manufacturers Association®) has set the Industry Standard for Maximum Allowable Air Infiltration at 0.30 CFM (Cubic feet per minute) during a 25 MPH wind. This is equal to 2.25 GALLONS or 24 SODA CANS of air leaking through the window EVERY MINUTE!





# Imperial LS Dura-Sill Design



## 1 Comfort Foam™:

R-5 expanding polyurethane foam insulates sash and frame extrusions, improving overall thermal efficiency.

## 2 Ultra-Smart™ triple-fin weather stripping:

Located on all sashes and at the interlocking meeting rail, Ultra-Smart features Ultrafab® Tri-Fin® Gold Series gaskets with built-in Ultra-Fresh antimicrobial protection to minimize drafts, dust and pollen.

## 3 Structural interlock in bottom sash:

Our interlocking sill-sash rail keeps the sash in place against the sill dam weather stripping when the window is under extreme wind-load stress.

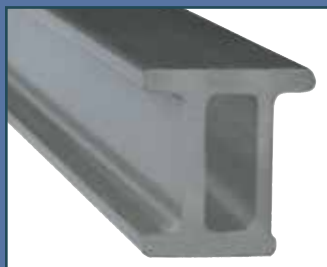
## 4 Soft-Seal™ straddle gasket:

Our Q-Lon® compression gasket system straddles the sill rail when the sash is locked shut to add barriers and diversions for exceptional water resistance.

## 5 Double-walled sill dam:

Tight, mortise-cut, double-wall sill dam extends inside the window mainframe for uniform strength and seal.

## K-Beam Reinforcement



The sash keeper rail in Imperial LS double-hung and sliding windows features K-Beam™ Thermal Reinforcement with Kevlar® for maximum strength, energy efficiency and durability. This unique resin-based glass-filled composite material utilizes Kevlar fibers for additional strength and the lowest thermal conductivity, which means extra energy efficiency.



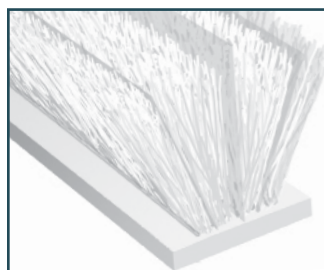
Patent-pending K-Beam™ features DuPont™ Kevlar® that is also used to make bullet-proof vests and in Mars Pathfinder ropes, U.S. Navy mooring ropes, jet engine shields, run-flat tires, safety gloves for glass and metal factories, kayaks, skis, helmets, racquets and lots more.

## Recessed Locking Hardware



Standard recessed lock provides a sleek, low-profile appearance for enhanced beauty—while still offering exceptional strength and intruder-resistant security.

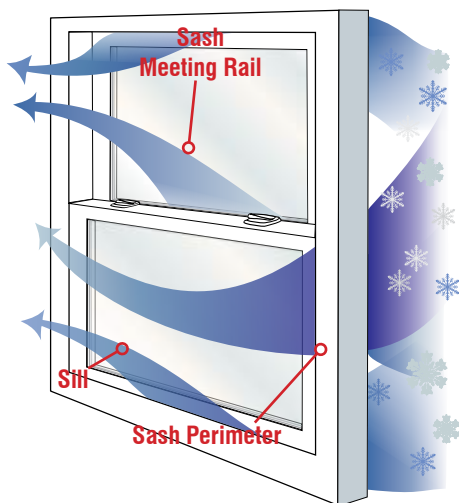
## Ultra-Smart™ Triple Fin Weather Stripping



Ultrafab® Tri-Fin® Gold Series gaskets with built-in Ultra-Fresh® antimicrobial protection minimizes drafts, dust, and pollen and fights the growth of mold and bacteria on the weather stripping material.

600 inches of UltraSmart™ weather stripping is used in an average-sized double-hung window.

# Why do windows leak?



Poorly designed windows don't have the built-in airlocks, weather stripping, and barriers necessary to keep air from forcing its way in. Without these design features, air will push between the sash meeting rails and around the sash perimeter where it meets the frame and sill.

We know how uncomfortable a home with leaky windows will be. So we loaded the Imperial LS™ window with weather barriers that go far beyond the industry standard and other manufacturer's window designs.

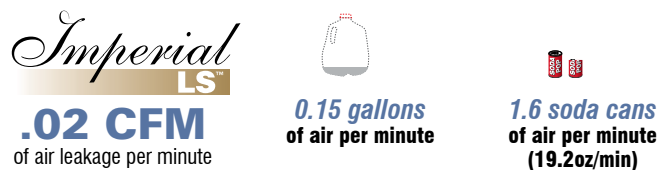
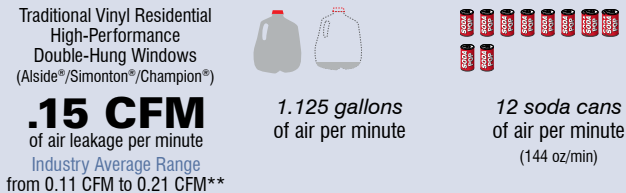
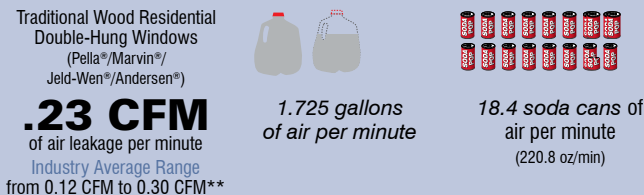
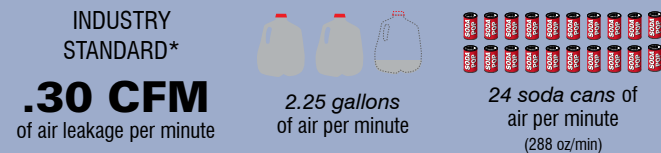
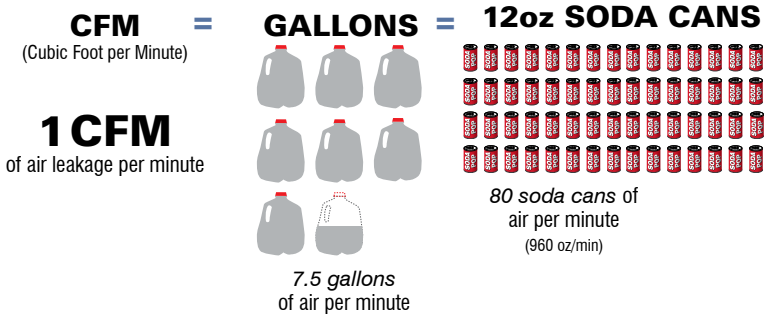
## Before Investing in New Windows, Always Compare the Air Infiltration Ratings.

### Facts You Should Know

#### The lower the CFM Rating...

- the less outside air will leak into your home.
- the more comfortable your home will be with fewer drafts.
- the less your furnace will run & the more money you'll SAVE.
- the smaller your carbon footprint.

# AIR INFILTRATION COMPARISON



Imperial LS™ windows are  
**over 11 times more airtight**  
than traditional wood residential double-hung windows.

**\*INDUSTRY STANDARD:** AAMA® (American Architectural Manufacturers Association®) has set the Industry Standard for Maximum Allowable Air Infiltration at 0.30 CFM (Cubic feet per minute) during a 25 MPH wind. This is equal to 2.25 gallons or 24 soda can of air leaking through the window every minute!

**\*\*References** valid as of October 1, 2010 based on our competitor's web sites and independent testing.



# High-performance glass options for unparalleled energy efficiency

Soft-Lite® offers an array of technologically advanced insulating glass systems that can be tailored to best perform in your climate region. This ensures that your new Imperial LS Windows will provide the best possible thermal performance for your home, which will save you money on energy costs.

Below are several examples of the performance ratings that Imperial LS Windows achieve—but the possibilities for various glass, spacer and Low-E combinations are practically endless...double- or triple-glass configurations, Intercept® stainless steel spacer or the unique metal-free Super Spacer® system, and several different Low-E coatings. Ask your authorized dealer about the best glass option for your home.

| <div><h1>Low-E Plus Double-Pane With Stainless Steel Intercept</h1><p>Fine Print: These values are for a LS double-hung window with Low-E, featuring double-pane glass, Intercept stainless steel spacer and argon gas.</p></div> | <div><p>High-performance Low-E Coating</p><p>Clear Glass</p><p>Argon Fill</p><p>Intercept® Stainless Steel Spacer</p><p>Inside</p></div> | <table><tr><th>U</th><th>S</th><th>V</th><th>C</th></tr><tr><td>0.27</td><td>0.28</td><td>0.51</td><td>57</td></tr></table> <p>U= U-Factor; S= Solar Heat Gain Coefficient; V= Visible Transmittance; C= Condensation Resistance</p> | U  | S | V | C | 0.27 | 0.28 | 0.51 | 57 |
|---|--|--|----|---|---|---|------|------|------|----|
| U   | S  | V  | C  |   |   |   |      |      |      |    |
| 0.27  | 0.28   | 0.51   | 57 |   |   |   |      |      |      |    |
| <div><h1>Low-E Double-Pane With Super Spacer</h1><p>Fine Print: These values are for a LS double-hung window with Low-E, featuring double-pane glass, Super Spacer and argon gas.</p></div>                                       | <div><p>High-performance Low-E Coating</p><p>Clear Glass</p><p>Argon Fill</p><p>Super Spacer®</p><p>Inside</p></div>                     | <table><tr><th>U</th><th>S</th><th>V</th><th>C</th></tr><tr><td>0.27</td><td>0.28</td><td>0.51</td><td>59</td></tr></table> <p>U= U-Factor; S= Solar Heat Gain Coefficient; V= Visible Transmittance; C= Condensation Resistance</p> | U  | S | V | C | 0.27 | 0.28 | 0.51 | 59 |
| U   | S  | V  | C  |   |   |   |      |      |      |    |
| 0.27  | 0.28   | 0.51   | 59 |   |   |   |      |      |      |    |
| <div><h1>Ultra-S Glass™ Triple-Pane With Super Spacer</h1><p>Fine Print: These values are for a LS double-hung window with two Low-E coatings, featuring triple-pane glass, Super Spacer® and argon gas.</p></div>                | <div><p>High-performance Low-E Coating</p><p>Clear Glass</p><p>Argon Fill</p><p>Super Spacer®</p><p>Inside</p></div>                     | <table><tr><th>U</th><th>S</th><th>V</th><th>C</th></tr><tr><td>0.20</td><td>0.24</td><td>0.40</td><td>71</td></tr></table> <p>U= U-Factor; S= Solar Heat Gain Coefficient; V= Visible Transmittance; C= Condensation Resistance</p> | U  | S | V | C | 0.20 | 0.24 | 0.40 | 71 |
| U   | S  | V  | C  |   |   |   |      |      |      |    |
| 0.20  | 0.24   | 0.40   | 71 |   |   |   |      |      |      |    |
| <div><h1>Ultimate Glass™ Triple-Pane With Super Spacer</h1><p>Fine Print: These values are for a LS double-hung window with two Low-E coatings, featuring triple-pane glass, Super Spacer and krypton gas.</p></div>              | <div><p>High-performance Low-E Coating</p><p>Clear Glass</p><p>Krypton Fill</p><p>Super Spacer®</p><p>Inside</p></div>                   | <table><tr><th>U</th><th>S</th><th>V</th><th>C</th></tr><tr><td>0.17</td><td>0.24</td><td>0.40</td><td>73</td></tr></table> <p>U= U-Factor; S= Solar Heat Gain Coefficient; V= Visible Transmittance; C= Condensation Resistance</p> | U  | S | V | C | 0.17 | 0.24 | 0.40 | 73 |
| U   | S  | V  | C  |   |   |   |      |      |      |    |
| 0.17  | 0.24   | 0.40   | 73 |   |   |   |      |      |      |    |

## Most Efficient

Many Imperial LS Windows are ENERGY STAR "Most Efficient Products"—a new designation that recognizes the best of the best among ENERGY STAR qualified products.



## ENERGY STAR®

Imperial LS Windows with high-performance glass qualify for the ENERGY STAR label—so they'll help you save money on your energy costs, while protecting the environment.



# Custom design your Imperial LS windows to match your home

You can select from a wide array of stunning options to truly match your new Imperial LS Windows to your home's décor. Whether you desire the appearance of woodgrain windows, prefer internal grids or simulated divided lites to match your existing windows, or any other number of design possibilities, Soft-Lite has an option to meet your needs.



Flat grids



Contour grids

## Decorative Grids

Internal grids will give your Imperial LS Windows the look and feel of true divided-lite windows—without the hassles! Because they're between the glass panes, these grids allow for easy cleaning. Our exquisitely beautiful grids are available in both a contoured or flat design and with several distinctive patterns.



## Simulated Divided Lites

Maintain the historic beauty of your home, and achieve the look of true colonial-style windows, with strikingly beautiful SDLs—contoured grids applied to both the interior and exterior panes of Imperial LS windows.



## Flex Screens

Flex Screen features a cutting edge, PVC-coated, high-performance spring steel frame. It is hidden in the window screen pocket, making it beautifully invisible and drastically improving sight lines.

(Optional on select double hungs and sliders with exterior PVC bond colors.)



## BetterVue™ Screens

BetterVue high-definition, fiberglass screens with 30% smaller holes provide improved light transmittance and airflow while increasing protection.



## Specialty Shapes

Imperial LS picture windows are available in many specialty shapes, all custom built to fit your home's uniquely shaped openings perfectly.

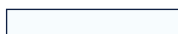


## Mini Blinds

Never clean miniblinds again. Imperial LS windows are available with internal miniblinds in a lift & tilt option. Certain restrictions apply. Available in white or beige.

## Vinyl Colors

INTERIOR/EXTERIOR



SOFT-WHITE



BEIGE

\*GARDEN WINDOWS NOT AVAILABLE IN BEIGE OR WOODGRAINS.

## Interior

WOODGRAIN COLORS\*



BRAZILIAN



CHERRY



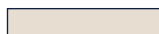
MEDIUM OAK



LIGHT OAK

## Sure-Coat

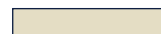
STANDARD EXTERIOR PVC BOND COLORS



CHAMPAGNE 10



COASTAL DUNE



ALMOND 20



SANDSTONE 37



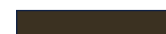
COLONIAL IVORY



SIERRA 83



TERRATONE 53



BRONZE 21



ROYAL BROWN 24



GRAY 39



FOREST GREEN 78



WEDGEWOOD BLUE 93



BLACK 09

## Exterior

FOIL LAMINATE



HD ANTIQUE BRONZE

## Exterior PVC Bond

COLORS MATCHED TO FOIL LAMINATE\*\*



X-HD ANTIQUE BRONZE

\*\*GARDEN WINDOWS NOT AVAILABLE IN EXTERIOR FOIL LAMINATE.

## Lifetime Warranty

Our Lifetime Warranty is designed to protect your investment and our reputation. It guarantees that our windows will not rot, rust, warp, pit, corrode or blister, and that our vinyl colors will remain true for the life of your home. Our Lifetime Warranty is non-pro-rated and is fully transferable. We also warrant all moving parts and the hermetically insulated seal against defects in materials or workmanship. Finally, we offer the ultimate in protection with a lifetime glass breakage rider for extra peace of mind. Ask your Soft-Lite representative for a copy of the warranty to review specific terms and conditions.



Soft-Lite, window sponsor with the National Crime Prevention Council, offers intruder-resistant windows.



Soft-Lite Windows is a five-time ENERGY STAR Partner of the Year Award winner and three-time ENERGY STAR Sustained Excellence Award winner.

# Imperial LS™

**Soft-Lite®**  
Windows

*Bringing quality to light.*

[www.soft-lite.com](http://www.soft-lite.com)