We live in a rapidly changing world. Global warming and the rising cost of energy have increasingly become major concerns for many.

We at Soft-Lite® share the same concerns. Fortunately, we are in a unique position to help you do something about them.

Through intense research and development we have designed the highest-rated performing window in the industry — the Elements® double-hung. This window far exceeds all industry standards for energy efficiency as well as air and water penetration, and durability.

More than any other, this window has a direct impact on lowering your energy bills and reducing your home's carbon footprint.

In addition to being energy conscious, Soft-Lite® works to be a good steward of the earth by minimizing waste and recycling all scrap materials in its state-of-the-art, automated robotics manufacturing plant.

When you purchase Soft-Lite Elements® windows, you’ll know you’re doing something good for yourself, your family, and the environment.
Soft-Lite® Windows has been manufacturing window products since 1934. Since then, many things in our world have changed. One of the most dramatic changes has been the advancement in window design and manufacturing.

With the continually rising cost of energy becoming a major national concern it’s important for window and door manufacturers to utilize technological advancements to develop the most energy efficient and durable products available.

Soft-Lite’s commitment to energy efficiency traces back to its beginning. With our philosophy, our decades of experience, our state-of-the-art manufacturing plant, and the improved materials of today, the stage was set for us to create a window unlike any other in the industry.

We knew we wanted to offer the best-performing, most beautiful replacement window made today. None of the existing conventional window designs available in the industry met our demanding criteria. So, in early 2005 we set out to design and build “the window for a whole new generation of needs,” and the Elements Window was born. As you read about this truly incredible window, watch for the white checkmark that signifies INDUSTRY LEADING features. We think you’ll be impressed.
THE ELEMENTS SCORE CARD

ELEMENTS™ PERFORMANCE RATINGS

Elements™ windows offer Industry-leading AAMA® GOLD LABEL CERTIFIED performance and the best NFRC® RATED U-Factor in the window business. (For details, see page 15.)

AIR: 0.01cfm at 25mph (30 times better than industry minimum)
WATER: DP55 5mph at 8” rain per hour (70% better than industry minimum)
STRUCTURAL: DP70 at 203mph WIND LOAD (2 times stronger than industry minimum)
OVERALL DESIGN PRESSURE: H-LC55

Thermal: NFRC® TESTED 0.16 U-Factor with Ultimate Glass™ (the best U-Factor in the business)

Purchasing a window without knowing its AAMA® and NFRC® ratings would be like buying a car without knowing what its fuel mileage is!

SERIES: ELEMENTS DH20

AAMA/NWWDA 101/I.S. 2-97
H-LC25-54X85
H-LC50-48X72
H-LC55-44X63

2011

WHAT MAKES ELEMENTS’ RATINGS THE BEST? THESE INDUSTRY-LEADING FEATURES!

Comfort-Foam™: We significantly decrease the U-Factor by filling the extrusions with Comfort-Foam™. The expanding polyurethane insulation foam fills critical spaces in the extrusions and greatly improves the overall thermal effectiveness. (Pages 4 & 16)

Dura-Sill™ is the most unique window sill design in the industry, and is accountable for why its air, water, and structure ratings are so exceptional. It combines innovations such as:

• SoftSeal™: Q-Lon® neoprene compression sash gasket and rail uniquely wrap over a ledge to provide an additional barrier to air and water penetration. (Pages 4 & 16)

• Structural interlock in the bottom sash. (Pages 4 & 16)

• Tight mortise-cut, double-walled sill dam penetrates inside the jamb. This eliminates sealant application errors and air leaks as with lesser glued and butt-jointed single-walled sill designs. (Pages 4 & 16)

Super Space® sealed metal-free Health Smart® insulated glass units. (Page 14)

UltraSmart® triple-fin weatherstripping with Ultra-Foam® Biscuit. Six weather-strips equaling 600” of weather-stripping in an 84UI window. (Page 18)

K-Beam™ Thermal Reinforcement with Kevlar®: Five times stronger than steel, more than 700 times warmer than aluminum, and holds screws unlike fiberglass. Patent pending SoftLite® exclusive. (Page 27)

Endura-Force™ Balance System: Made of Teflon®-coated ¾” stainless steel that never needs lubrication or adjustment. Other systems use strings, pulleys, and wire springs in large metal housings that create a thermal short circuit in the window. (Page 27)

BetterVue™ Screens: Provide better insect protection and beauty. (Page 16)

K-Beam™ Thermal Reinforcement with Kevlar®:

The beauty of Elements™ starts with an elegant cove-mould face. Due to new World Class Stürtz robotic equipment, these windows have smooth micro-abraded corner seams, perfect welds, and very tight tolerances of 1/32”. These features add to their elegance and eliminate air leaks.

The beauty of this window goes deeper, however, to what you can’t see.

• Unique invisible tilt hardware system (ILTIS®) completely eliminates the traditional, unsightly tilt latches and enables one-touch operation of the tilt-in feature.

The inner beauty of Elements™ continues with the advanced design of our Endura-Force™ balances which out-perform all others. This system incorporates a Teflon® coated ¾” heavy-duty constant force balance that never needs adjusting, and has a battery smooth operation.

(continued on page 4)

www.soft-lite.com

This mark indicates an INDUSTRY LEADING feature

Stunning NEW Cove-Mould Face on exterior creates a detailed wood-look.

ELEMEN TS™ BEAUTY BEGINS ON THE SURFACE

The beauty of Elements™ starts with an elegant cove-mould face. Due to new World Class Stürtz robotic equipment, these windows have smooth micro-abraded corner seams, perfect welds, and very tight tolerances of 1/32”. These features add to their elegance and eliminate air leaks.

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(continued on page 4)

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(continued on page 4)
Never clean miniblinds again. All patio doors and windows (except Awning windows and some special shapes) are available with internal miniblinds in a tilt-only option. Certain restrictions apply. Available in white or beige.

4

www.soft-lite.com

OUR DOUBLE-HUNG OFFERS EVEN MORE WITH DURA-SILL™

(continued from page 3)

Dura-Sill™ is a one-of-a-kind sill design in the window industry. Together with the Elements™ sash it combines interlocks, air locks, weather-locking, weather barriers, and diversions that work 24-7 to maximize energy efficiency. With this innovative sash/sill combination a gust of air would have to force its way around ten 90° turns, over one interlock, through a triple-fin weather-strip and between a Soft-Seal™ neoprene gasket and ledge before making its way into your home. Highly unlikely! (Page 16)

Combine that with the Comfort-Foam™ insulation which fills in each critical cavity of the sash and sill extrusions, and you now have the most energy efficient sill in the industry.

Finally, Dura-Sill™ is mortised and welded into the jamb, and it has special barriers and diversions designed right into it. Both of these features drastically reduce the possibility of water build-up on the sill, in the corners, or under the sash, making this an industry leading feature.

Smooth-Easy™ Integral Lift Rails are incorporated into the design of both our Double-Hung and Slider windows. The design of the lift rail is significant, because it is an integral part of the profile—not part of the glazing bead which can work itself loose over time. Smooth-Easy™ is far superior to traditional snap-in style lift rails that frequently snap out.

SUPER SPACER®

One of the most impressive features of the Elements™ window is its “best in the industry” energy efficiency rating. With the Ultimate Glass™ package included, it touts a U-Factor of 0.16. There are a number of components that contribute to this U-Factor, one of them being the metal-free Super Spacer® that separates the three panes of glass and drastically reduces the transfer of cold conduction through the glass unit. For an in-depth look at how this system works please turn to page 14.

SLIDERS & TILT-N-SLIDE WINDOWS

Think of the Sliding window as a Double-Hung turned on its side! It combines all the features of a Double-Hung (without the need for balances). In addition, it offers you other window styles and operating choices.

For instance, if you’re looking for a wider window, you have the option to choose between 2-lite and 3-lite Sliders. All of our Slider sashes roll easily on corrosion-resistant brass rollers.

A unique option in the Elements™ slider is the Tilt-n-Slide™ model. The sashes of this window can open in, like a door, for incredibly easy cleaning! An industry leading feature of this style is that we can make it as large as 60” x 60”.

Elements’ low-profile lock and keeper provide a clean sight line through the window on standard horizontal sliders.

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)

Elements’ low-profile lock and keeper provide a clean sight line through the window on standard horizontal sliders.
Robust strength in a low-profile, standard fold-down handle design. Easy to open and close handle and hardware last a lifetime.

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

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

New invisible retention hardware system eliminates unsightly screen clips used on traditional Casements.

The Elements™ Casement window is the epitome of perfect form and function in a specialty window. Designed with the clean lines of a picture window, it offers the added ventilation and freedom of opening the sash to the outdoors.

Casements provide many options. In addition to being used individually they can also be used as part of a Bay or Bow window, or in a multi-window configuration as shown on page 6 with Picture, Casement and Awning windows.

The Elements™ Casement window is designed with a single-lever lock handle that easily engages and locks multiple lock points within the Casement mainframe when closed. The easy to use, durable, crank handle and hardware ensure that you will be able to open and close your Casement windows with ease.

Elements™ Casement windows offer industry-leading AAMA® GOLD LABEL CERTIFIED performance and the best NFRC® Rated U-Factor in the window business.

Air: 0.03 cfm at 25 mph
Water: DP70, 64mph at 8" rain per hour
Structural: DP70, 203mph WIND LOAD
Overall Design Pressure: C-LC70
Thermal NFRC® Tested: 0.16 U-Factor with Ultimate Glass™

For special openings, we offer special shapes with matching frame profiles and glass options. All special shapes are custom built, like all of our windows, to your specifications.
BOWS, BAYS & GARDEN WINDOWS


The latest trend in home design is toward opening up the living space. Elements™ Bay and Bow windows will make your rooms feel more welcoming and spacious by adding 3-dimensional depth and light.

In addition, you'll benefit from improved energy efficiency, maintenance-free durability, and increased ventilation and visibility.

Elements™ Bays, Bows and garden windows are loaded with features — many of which other manufacturers charge extra for or omit altogether. To make these windows the best you can buy, we start by including many of the standard energy efficient features already described in this catalog.

But, because 3-dimensional windows are unique, they require special attention to things like seats, headers and roofs. So, we've incorporated special features to keep them energy efficient, prevent them from sagging over time, and to ensure that they can be installed easily and tightly to your custom-sized openings.

- The window is encased in full 1-1/4" thick furniture-grade laminated hardwood seat, head and side jamb.
- The R-9 SuperSeat™ feature high-density polyisocyanurate foam to ward off condensation and energy loss.
- Each mullion and the window frame are also fully insulated with Comfort Foam™ for maximum energy savings.
- The mulls are steel reinforced with solid steel threaded rods, and they are counter sunk into the seat.
- Every Elements™ Bay and Bow window is available with your choice of Oak or Maple hardwood interior casing. This ensures a complete, one-stop professional installation.
- The seat comes standard in white birch. Options include Oak, a variety of laminates, Corian®, and custom matching stains and varnish.
- CNC designed and factory pre-cut and pre-shaped Roof Systems ensure a perfect fit for any Bay or Bow no matter what size or shape. The roof will be a perfect fit every time and will eliminate numerous hours of installer time at your home.
- Roofs are available in 16 oz. real copper, and 28 decorator Kynar 500™ colors on 32-gauge aluminum.
- Comes standard with 17½" projection.

A. Threaded steel rod and chain bracing system provide sag-free support. (Knee brackets must be installed if roof overhang prevents use of chain system.)
B. Factory finished interior edge banding is beautiful protection for your SuperSeat™.
C. 1.25" thick furniture-grade hardwood.
D. Insulated seatboard with 3/4" exterior capped plywood. Super Seat™ Dow® Foam 3" thick sandwich with R-9 performance for maximum thermal protection, electrostatic condensation.
E. Mill trim pieces ensure no butt joints to caulk or leak.
F. Factory-capped underside: beautiful lines, consistent water shed.
G. Exclusive welded sill pan (highlighted in blue) eliminates water penetration. The unique design provides built-in weep system and a smooth finish on the exterior surface of the seat board.
H. All window and mull cavities are insulated completely with Comfort Foam™ for maximum energy efficiency.

GARDEN WINDOW

The Elements™ GardenVue™ window offers clean lines with lasting durability. It’s features include:

- 30° roof slope for efficient water shedding.
- Specially built trapezoidal operating side casements that open wide for ventilation.
- Dual compression seals and locking hardware provide air and water tightness.
- Weep channels keep the interior dry.
- Adjustable height PVC-coated shelves or optional glass shelves.
- Seatboard is resistant to mold, mildew, fading, discoloration, warping, peeling and delamination.
You’ll Appreciate the Elegance and Superior Craftsmanship of Our Doors.

Soft-Lite® offers you beautifully designed, energy-efficient patio doors with a variety of options to complement your Elements® windows.

Our Primaire French Glide™ patio door is exceptional in every aspect. From its massive stainless steel rollers and durable structure to its superb energy efficiency and classic design, Primaire is heads above all the rest. Available in a multitude of colors and woodgrain combinations, this remarkable door will enhance any home, inside and out.

Vinyl Color Choices

The beautiful satin finish of Soft-White™ is an extruded colorfast white that was the winning choice of focus group surveys against competitive “white” windows. Additional custom colors are available to match any exterior. For a small fee, we’ll send your color sample to our World Class color supplier for a perfect match. Sure-Coat™ is warranted for 10 years. Please see your Soft-Lite® Representative for more details about our custom color program!

Very few manufacturers offer the variety of woodgrains from light to dark that Soft-Lite® offers. New your windows inside can be as beautiful as your fine furniture.

Decorative grids

Both our Flat and Contour grid options are available in the interior and exterior colors of the windows. Your home will be completely color-matched!

They are also offered in a variety of options. Grid patterns vary based on size and configuration of window. See your Soft-Lite® Representative for more precise color representations and configuration availability.
Why Does Windows Leak Air?
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. We know how uncomfortable a home with leaky windows is. So, to keep you comfortable, we loaded the Elements® window with weather barriers that go far beyond the industry standard and other manufacturer’s window designs. The Elements™ window is so superior that it leaks only a fraction of what all other typical vinyl and wood windows leak. The Elements™ window has earned the prestigious AAMA® Gold Label Certification for air performance.

Consider this: 11 Elements™ windows combined LEAK THE SAME AMOUNT OF AIR as JUST ONE traditional wood residential double-hung window! And, 11 Elements™ windows combined LEAK THE SAME AMOUNT OF AIR as JUST ONE traditional vinyl residential high-performance double-hung window.

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

- **Industry Average Range from 0.11CFM to 0.21CFM**
  - **0.15 CFM**
    - Alside®/Simonton®/Champion®
    - Performance Double Hung Windows
  - **0.01 CFM**
    - Why Do Windows Leak Air?

### AREAS OF AIR INFILTRATION

- Sash meeting rail
- Sash perimeter
- Sash
to-
frame
- Transiton of air
- Glass

### INFLATION COMPARISON CHART

<table>
<thead>
<tr>
<th>Elements</th>
<th>0.075 gallons of air leakage per minute</th>
<th>0.8 soda cans of air leakage per minute (9.6 oz/min)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Traditional Wood Residential High Performance Double Hung Windows (Alside®/Simonton®/Champion®)</td>
<td>0.15 CFM avg. of air leakage per minute</td>
<td>1.125 gallons of air leakage per minute</td>
</tr>
<tr>
<td>Industry Average Range from 0.11CFM to 0.21CFM</td>
<td></td>
<td>12 soda cans of air leakage per minute (144 oz/min)</td>
</tr>
</tbody>
</table>

As the above rate Elements™ windows are 15 times more air tight than traditional vinyl residential high-performance double-hung windows.

### ENERGY EFFICIENT GLASS

Our technologically-advanced, robotically manufactured insulated glass packages offer a choice of insulation performance which can be tailored to your geographic location and directional sun exposure. This ability to fine tune your windows’ performance can assure maximum energy savings and resistance to condensation.

**SOLAR Low-e with Super Spacer®**
- **Double pane with low-e, Argon, and Super Spacer®**
  - Overall IGU Thickness (OIT): 0.78"
  - Center of Glass (COG) U-Factor: 0.26
  - Window (whole window): R-1.7
  - This window is ENERGY STAR® qualified in North, South Central, and Southwestern climate zones. Upgrades to SolarBan® blocks 94% UV rays and lowers condensation in South Central and Southwestern climate zones.

**ENERGY STAR® Qualifies in Highlighted Regions**
- **R-Value (whole window): R-3.7**
- **Center of Glass (COG) U-Factor: 0.26**
- **Overall IGU Thickness (OT): 7/8”**
- **Super Spacer®, Low-e Glass with SB70XL®, Argon, and Krypton**
- **Blocks 75%-85% UV Rays**

### FADE PROTECTION

SolarBan® 70XL (SB70XL®) provides fade protection for all your home furnishings. UV light is responsible for up to 40% of fading damage. Now you can protect your furnishings with SB70XL® which blocks 94% of all harmful ultraviolet light.

**ENERGY STAR® Qualifies in Highlighted Regions**
- **R-Value (whole window): R-6.25**
- **Center of Glass (COG) U-Factor: 0.10**
- **Overall IGU Thickness (OT): 1”**
- **Super Spacer®, Low-e Glass with SB70XL®, Argon, and Krypton**
- **Blocks 94% UV Rays**

### CUSTOMIZE YOUR WINDOWS WITH THESE GREAT OPTIONS

**A NOTE ABOUT NFRC® WINDOW LABELS: All NFRC® labels refer to whole window performance, not just the insulated glass unit.**

**Customize Your Windows With These Great Options**

**ENERGY STAR® Qualified in Highlighted Regions**
- **R-Value (whole window): R-5.26**
- **Center of Glass (COG) U-Factor: 0.15**
- **Overall IGU Thickness (OT): 7/8”**
- **Super Spacer®, Low-e Glass with SB70XL®, Argon, and Krypton**
- **Blocks 75%-85% UV Rays**

**ENERGY STAR® Qualifies in Highlighted Regions**
- **R-Value (whole window): R-2.12**
- **Center of Glass (COG) U-Factor: 0.40**
- **Overall IGU Thickness (OT): 1”**
- **Super Spacer®, Low-e Glass with SB70XL®, Argon, and Krypton**
- **Blocks 75%-85% UV Rays**

**ENERGY STAR® Qualified in Highlighted Regions**
- **R-Value (whole window): R-4.30**
- **Center of Glass (COG) U-Factor: 0.16**
- **Overall IGU Thickness (OT): 1”**
- **Super Spacer®, Low-e Glass with SB70XL®, Argon, and Krypton**
- **Blocks 75%-85% UV Rays**
**THE INNOVATIVE TECHNOLOGY BEHIND**

**ELEMENTS INSULATED GLASS**

**SUPER SPACER®...THE TrueWARM® SPACER**

Elements’ windows are only produced with SUPER SPACER® – the world’s only 100% foam, METAL FREE Warm-Edge sealing system. Super Spacer® blocks the heat escape path and provides one of the best thermal performances in the industry. Super spacer® is flexible and resists stress. Metal spacers are rigid, resulting in seal failure from seasonal temperature changes: the less metal you have, the lower your U-Factor, and the more energy efficient your window is.

**SUPER SPACER® MINIMIZES CONDENSATION**

The primary window condensation culprit is the spacer between the glass panes. Common spacers made with metal conduct heat and cold, causing condensation at the edge of the glass. Only a warmer edge surrounding the glass will strike at the heart of the problem.

- Metal spacers cause condensation, which is unsightly, and can lead to组成 wood, peeling paint, and rotted frames.
- Window condensation contributes to mold growth inside window and wall openings.
- Mold has been linked to child asthma and general respiratory illness, allergies, and outbreaks of fungal diseases.

**STRENGTH**

Super Spacer® sealed units have up to twenty times the life expectancy of single seal insulated glass systems. The P1 durability test at left shows the dramatic difference Super Spacer® makes in the longevity of your insulated glass system.

**INDUSTRY EXPERT TESTS PROVE**

**ELEMENTS WINDOWS TOP THE LIST**

Elements’ Double Hung Windows have been certified to meet the INDUSTRY-BEST standards. No other can compete in OVERALL PERFORMANCE.

**ABOUT NFC® RATINGS**

The National Fenestration Rating Council (NFC®) is a third party, non-profit organization that administers the only uniform, independent rating and labeling system for the energy performance of windows, doors, skylights, and attachment products. The NFC® label on your windows is specific to the overall thermal performance of the specimen window tested by NFC® (www.nfrc.org).

What the ratings on the label mean:

- **U-Factor** — The lower the U-Factor the better the window’s overall thermal performance. The glass package, the window’s material, and its components all affect the rating.
- **Solar Heat Gain Coefficient** – A measurement of how well products block heat caused by sunlight. The rating is expressed as a number between 0 and 1. The lower the number the better which also means less solar heat is transmitted through the window.
- **Visible Transmittance** – A measurement of how much light comes through the window. Expressed as a number between 0 and 1, the higher the Vt the better.

**Certification Resistance** – A measurement of how well the window resists condensation on the glass. The higher the number the better.

**About AAMA® Certification**

The American Architectural Manufacturers Association (AAMA®) is the nationally recognized accrediting source for structural design performance of windows and doors. If you demand windows and doors that meet stringent performance standards, just look for the AAMA® Certification label. Products that have earned the right to display this label have had a sample unit pass independent laboratory tests, and only products that bear this prestigious label are certified by the manufacturer. Plus, production lines for windows and doors in the AAMA® Certification Program are subject to two unannounced annual inspections.

**AAMA® PERFORMANCE RATINGS**

<table>
<thead>
<tr>
<th>AAMA® Criteria</th>
<th>Industry Minimum</th>
<th>Glass Lin.</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Load</td>
<td>300psf</td>
<td>300psf</td>
<td>300psf</td>
</tr>
<tr>
<td>Water Pressure</td>
<td>150psf</td>
<td>150psf</td>
<td>150psf</td>
</tr>
<tr>
<td>Structural Load</td>
<td>300psf</td>
<td>300psf</td>
<td>300psf</td>
</tr>
</tbody>
</table>

The AAMA® Authorized Label: Our symbol of certification, your sign of performance!

When windows & glass doors carry these labels, it’s a sign that they have met all the requirements of the AAMA® Certification Program.
They will never separate, unlike inferior screwed or stapled wood, metal also permanently fused together on robotic 4-point welding equipment. Their windows are environmentally harsh stains or varnishes, uPVC conserves energy better than other windows or corrode like metal windows. Chloride. They will never rot like wood finest quality, unplasticized Polyvinyl uPVC Frames and Sashes allergic. The combination of the weather-stripping. When weather-stripping isn’t treated with antimicrobial protection, keep indoor air clean for those with mold and mildew spores, and fights the growth of mold on the weather-stripe material. This weather-stripping helps around the perimeter of all sashes against air and water infiltration, and provides a buttery smooth operation, will always support even the heavier triple-pane insulated sashes with the same amount of pressure, and will be durable for a lifetime. In addition, it features a thermally engineered housing that improves the thermal value of the window, keeps the coil clean and has a quiet Smooth & Easy® operation. Because Endura-Force® is maintenance-free it will give you decades of effortless, trouble-free operation.

Traditional balance systems such as spiral balances or block and tackle balances depend on a string, a spring and pulleys. They are not as durable and their metal housings reduce the thermal efficiency of the window.

Elements’ windows come loaded with benefits that most demanding customers need.

1. Comfort-Foam™ insulation — Chemically increases thermal efficiency and makes your home more comfortable.
2. Ultrasmart™ Weather-Stripping — Provides extreme protection against drafts and air-borne bacteria, pollen, and mold.
3. SuperSpacer® — World’s only 100% beam spacer greatly minimizes condensation.
4. Cove-Mould Face — Extends face is designed to replicate beautiful wood moulding.
5. Energy Efficient Glass — Our technologically advanced insulated glass package can be tailored to your geographical location and directional sun exposure.
6. K-Beam™ Thermal Reinforcement — Five times stronger than steel, more than 700 times warmer than aluminium.
7. Endura-Force® Balance System — This state-of-the-art balance system provides buttery-smooth operation that never needs lubrication or adjustment.
8. Dura-Sill™ — Combines thermal efficiency and impressive protection against air and water infiltration, and structural damage during extreme weather conditions.

BetterVue Screens™ All Elements’ windows come standard with our high-definition, fiberglass insect screening, which provides improved light transmittance and air flow while increasing insect protection. BetterVue® screens are easier to look through from the inside than from the outside.  

**WHAT MAKES ELEMENTS™ THE BEST WINDOW?**

Technology, engineering, craftsmanship, World Class robotic precision manufacturing, and people who care about every single window we make.

Endura-Force® Balance System

Most people don’t think about how their double-hung windows go up and down until there’s a problem with them. Your windows bring noise, hard to move, or just staying up. Our engineers designed the best for you so you’ll never have to worry about these things.

Endura-Force® is a Teflon®-coated heavy duty constant force balance system which uses a 1/4" steel band,... much stronger than competitive 1/2" bands. Endura-Force® provides a battery smooth operation, will always support even the heavier triple-pane insulated sashes with the same amount of pressure, and will be durable for a lifetime. In addition, it features a thermally engineered housing that improves the thermal value of the window, keeps the coil clean and has a quiet Smooth & Easy™ operation. Because Endura-Force® is maintenance-free it will give you decades of effortless, trouble-free operation.

Traditional balance systems such as spiral balances or block and tackle balances depend on a string, a spring and pulleys. They are not as durable and their metal housings reduce the thermal efficiency of the window.

**Dura-sill™ — one-of-a-kind sill design**

A. A unique sill dam which extends into the window mainframe for unitized strength and seal.
B. Our interlocking sill-sash rail keeps the sash in place against the sill dam weatherstrip when the window is under extreme wind-load stress.
C. Our Dura-sill™ compression gasket system stratifies the sill rail when the sash is locked shut to add barriers and diveters for impressive water resistance.
D. Comfort-Foam™ insulation increases thermal efficiency. CFC-free, enronmentally-friendly Comfort-Foam™ means lower monthly fuel bills, energy conservation and reduced emissions released into the Earth’s atmosphere.

Purchasing a window with no insulation would be like buying a refrigerator without insulation!

**WHAT MAKES ELEMENTS™ A GREAT WINDOW?**

• Tremendous energy efficiency
• Unsurpassed durability
• Completely maintenance free

**Endura-Force™ Balance System**

- Less expensive block and tackle balance hardware with old-fashioned string, metal spring and plastic pulleys.
- Steel: 1,500 BTU
- Aluminum: 2.8 BTU
- PVC: 1 BTU
- Wood: 0.5 BTU

**K-Beam™ COMPOSITE SASH RAIL Reinforced WITH KEVALR®**

(See page 2 for view of Sash Keeper Rail)

Most manufacturers of vinyl windows today use aluminum or steel to reinforce their vinyl, which adds to the poor thermal properties of the metal. KEVALR® assures maximum strength, energy efficiency and durability for the life of your home.

**K-Beam® KEVALR®**

Patent-pending K-Beam® features DuPont® Kevlar that is used to make bullet-proof vests and can be found in Mars Pathfinder ropes, jet engine struts, run-flat tires, safety gloves used in glass and metal cutting, and racquets to name a few.

K-Beam® is over five times stronger than steel. It is also more than 700 times warmer than aluminium, which means that it retains heat much better than metal. K-Beam® also holds screw threads unlike fiberglass.
STATE-OF-THE-ART WINDOW MANUFACTURING

Our state-of-the-art, automated robotics assembly lines eliminate opportunities for workmanship error. Studies have proven that every time a component is physically handled in fabrication, it adds one-tenth of one percent to the failure rate.

At Soft-Lite® we dramatically reduce human handling in the manufacturing process through automation and robotics which allows us to minimize risk and increase the quality of the end product. The robotics equipment provides precise machine processing of each window. For you, this translates to complete peace of mind. You can have confidence that your windows are manufactured with the highest quality standards and will provide long-lasting durable performance.

To ensure “perfection” both sashes are welded simultaneously. Prior to welding, sensors determine whether either sash is less than “perfect” (± 1/32”). If they are not perfect, both sashes are rejected automatically by the equipment.

Millions of dollars invested in brand new German-engineered Stürtz automated equipment assurer window fabrication is free of workmanship errors.

Computer-controlled equipment eliminates workmanship errors, processes orders more quickly, and enables more time for assembly and inspection. This means quicker delivery of your order.

Soft-Lite® Lifetime Warranty

Our Lifetime Warranty is designed to protect your investment and our reputation. It guarantees that our windows will not split, rust, rot, warp, or blister, and that our vinyl colors will remain true for the life of the structure. The warranty is non-prorated and is fully transferable. We also warranty 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.
Don’t just take our word for it...

Soft-Lite® is a five-time winner of this award from Window & Door Magazine. In 2007, Soft-Lite® was recognized for “Most innovative website.”

www.windowanddoor.net

Soft-Lite® products are Gold Label certified by the American Architectural Manufacturers Association (AAMA®), the source of performance standards, product certification and educational programs for the window, door and skylight industry.

www.aamanet.org

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Soft-Lite® products are certified by the National Fenestration Rating Council®. NFRC® develops and administers comparative energy and related rating programs that serve the public. It provides fair, accurate and credible, user-friendly information on fenestration product performance.

www.nfrc.org

Soft-Lite, window partner of the National Crime Prevention Council, offers intruder-resistant windows.

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Every year since 1996 Soft-Lite® has been placed on the Top 100 Manufacturers’ annual list.

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Unsurpassed overall performance.

Unparalleled quality.

Unequalled beauty.

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