



# PRODUCTS CATALOGUE



ENGINEERED FOR QUALITY DESIGNED FOR STYLE.



# EXCELLENCE

SINCE 1992 WINDOW CITY HAS BUILT AN ORGANIZATION THAT HAS BECOME A LEADER IN THE EXTRUDING AND MANUFACTURING OF VINYL WINDOWS. WINDOW CITY IS RECOGNIZED THROUGHOUT NORTH AMERICA FOR OUR DESIGN EXCELLENCE, PRECISION CRAFTSMANSHIP AND STATE OF THE ART TECHNOLOGY. OUR FULLY AUTOMATED MANUFACTURING FACILITIES INCORPORATE THE SOPHISTICATED TECHNOLOGY NECESSARY TO PRODUCE WINDOWS AND DOORS THAT MEET THE INDUSTRY'S DEMANDING PERFORMANCE STANDARDS. WE ARE PROUD OF OUR REPUTATION WITHIN THE WINDOW INDUSTRY. DEALERS, BUILDERS, ARCHITECTS AND REMODELERS ENJOY WORKING WITH OUR VAST RANGE OF PRODUCTS AND SERVICES. HOMEOWNERS ENJOY THE COMFORT AND PERFORMANCE OUR WINDOWS PROVIDE, EVEN ON THE COLDEST OR HOTTEST DAY OF THE YEAR. THEY CAN COUNT ON WINDOW CITY'S COMMITMENT TO EXCELLENCE. OUR DESIGN HERITAGE CAN BE SEEN IN THE ARCHITECTURAL STYLING OF OUR WINDOWS IN MANY FAMILY AND LUXURY HOMES THROUGHOUT NORTH AMERICA TODAY. OUR SENSE OF TRADITION COMES FROM BEING A PRIVATELY OWNED, CANADIAN COMPANY THAT DISTRIBUTES THROUGHOUT BOTH CANADA AND THE UNITED STATES. WINDOW CITY IS A FULLY INTEGRATED MANUFACTURER THAT IS COMMITTED TO PROVIDING THE HIGHEST QUALITY PRODUCTS AND SERVICES AVAILABLE IN THE MARKETPLACE TODAY. WINDOW CITY'S PLEDGE OF EXCELLENCE IS EVIDENT IN OUR NEW MANUFACTURING FACILITY, EXPANDED PRODUCT OFFERINGS AND OVERALL CUSTOMER SATISFACTION GOALS. THIS IS WHY WE SAY "ENGINEERED FOR QUALITY, DESIGNED FOR STYLE".

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# KNOWLEDGE

**INSIGHT** > WE CONSIDER OUR COMPREHENSIVE KNOWLEDGE OF THE WINDOW INDUSTRY TO BE ONE OF OUR GREATEST STRENGTHS. WE KNOW THE VINYL EXTRUSION PROCESS. WE KNOW GLASS TECHNOLOGY. WE KNOW THE HOME CONSTRUCTION AND RENOVATION INDUSTRY. THIS KNOWLEDGE HAS ALLOWED WINDOW CITY TO CUSTOMIZE OUR PRODUCTS TO THE DEMANDING ARCHITECTURAL AND PERFORMANCE SPECIFICATIONS REQUIRED IN THE INDUSTRY TODAY. THIS IN-DEPTH AWARENESS ENABLES US TO UNDERSTAND AND DELIVER THE PRODUCTS THAT ARE NEEDED TODAY, EVEN WHILE WE'RE RESEARCHING AND DESIGNING FOR TOMORROW.

**RESEARCH AND DEVELOPMENT** > WINDOW CITY EMPLOYS SOME OF THE FINEST ENGINEERS AND DESIGNERS IN THE INDUSTRY TODAY. WE HAVE THE CAPABILITY AND DESIRE TO BE AN INNOVATIVE LEADER IN THE MANUFACTURING OF WINDOWS AND DOORS THROUGHOUT ALL OF NORTH AMERICA.

**DESIGN CAPABILITIES** > OUR TALENTED DESIGN TEAM HAS DEVELOPED OUR PROPRIETARY WINDOW LINES, ENABLING WINDOW CITY TO SEPARATE ITSELF FROM THE REST OF THE INDUSTRY. THIS ASPECT OF OUR ORGANIZATION ALLOWS US TO DESIGN PRODUCTS TO OUR CUSTOMERS' EXACT SPECIFICATIONS.

**PERFORMANCE** > OUR ADVANCED AUTOMATED MANUFACTURING TECHNIQUES, GLASS TECHNOLOGIES, HARDWARE AND NUMEROUS OTHER FEATURES ENSURE OUR WINDOWS INSTALL AND PERFORM FLAWLESSLY. WITH SEVERAL GLAZING OPTIONS AVAILABLE, OUR PRODUCTS ARE CONSTRUCTED TO WITHSTAND THE MOST EXTREME CLIMATES IN NORTH AMERICA.

**All Window City Products are Covered by Our Stellar Lifetime Warranty.**

Both builders and homeowners can be reassured because our warranties are transferable from builders to homeowners. Problems such as blistering, peeling, discoloring and flaking virtually never occur with our vinyl products but, if they do, you and your customers are protected. The warranty covers the vinyl frames, hardware components and insulated glass. For complete details and limitations, please see the warranty certificate enclosed with every Window City product or refer to page 61.





# SERVICE

IF YOU PREFER TO HANDLE YOUR OWN CONSTRUCTION AND/OR RENOVATION, YOU'LL FIND OUR WINDOWS THROUGH OUR COORDINATED NETWORK OF INDEPENDENT DEALERS, WHICH EXTENDS THROUGHOUT NORTH AMERICA. WE ALSO FULFIL THE REQUIREMENTS OF HOME BUILDERS AND HOME RENOVATORS; AND CAN ACCOMMODATE THE CUSTOMIZED REQUIREMENTS OF ARCHITECTURAL FIRMS. REGARDLESS OF THE SIZE OF YOUR PROJECT, WE HAVE BOTH THE PRODUCTION CAPABILITY AND SALES SUPPORT STAFF TO HANDLE IT EFFICIENTLY AND EFFECTIVELY. OUR SUPERIOR PRODUCT QUALITY STANDARDS AND LIFETIME WARRANTIES APPLY TO EVERYONE. WE HAVE COMPLETE CONTROL OF THE MANUFACTURING AND SHIPPING OF OUR PRODUCTS. THIS ENSURES THAT YOU RECEIVE BOTH CONVENIENT PRODUCTION SCHEDULING AND PROMPT ORDER FULFILMENT. WE ARE COMMITTED TO ESTABLISHING LONG-TERM RELATIONSHIPS WITH BOTH OUR DEALERS AND THEIR CUSTOMERS BY PROVIDING A HIGH LEVEL OF SERVICE. YOU CAN BE SURE THAT YOUR WINDOW CITY DEALER IS ALWAYS THERE TO ANSWER YOUR QUESTIONS AND ADDRESS YOUR CONCERNS.

## **Uncompromising Service**

When purchasing a Window City product, you can be sure that our commitment to quality and performance is supported by our dealer networks throughout North America. Your windows are backed by a full manufacturer's warranty that will provide you the assurance that your windows will perform for years to come. Window City prides itself on our commitment to our dealers and will support them throughout the entire project. Our commitment to our products after installment is important to us and is evident in our Lifetime Transferable Warranty located on page 61 of this catalogue.





# PRECISION

OUR COMPREHENSIVE KNOWLEDGE OF THE WINDOW INDUSTRY IS EVIDENT IN OUR INVESTMENT IN THE LATEST TECHNOLOGY AVAILABLE IN THE INDUSTRY TODAY. BEING A FULLY INTEGRATED MANUFACTURER HAS ALLOWED WINDOW CITY TO CONTROL ALL FACETS OF THE MANUFACTURING PROCESS. WITH OVER 400,000 SQUARE FEET OF MANUFACTURING SPACE BETWEEN OUR TWO FACILITIES, WE CAN PRODUCE YOUR ORDER ON TIME ENSURING THAT IT MEETS YOUR OWN HIGH STANDARDS, AS WELL AS THOSE OF YOUR CUSTOMERS.

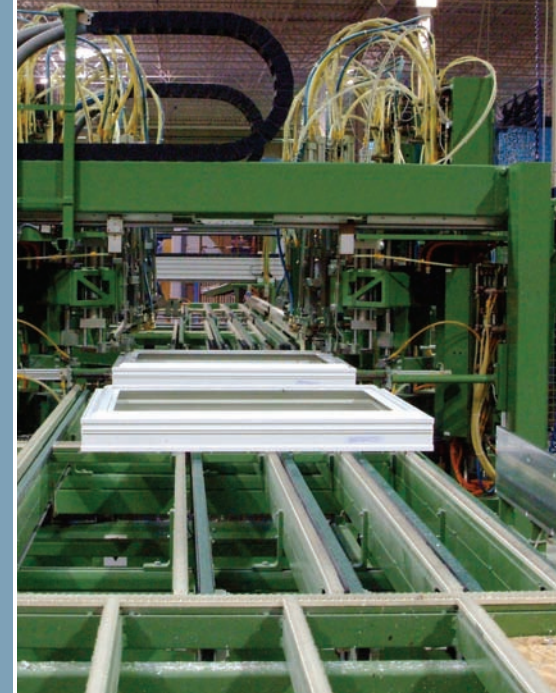
**COMPOUNDING** > WINDOW CITY MANUFACTURES ITS OWN PVC COMPOUND MADE FROM TOP QUALITY RESIN. THIS ALLOWS US TO CONTROL THE QUALITY AND CONSISTENCY NECESSARY TO PROVIDE SOME OF THE MOST ADVANCED EXTRUSIONS IN THE MARKETPLACE TODAY.

**EXTRUSIONS** > WE EXTRUDE ALL OF OUR PROFILES, MAKING OUR PRODUCTS EXCLUSIVE TO US. THIS HELPS OUR CUSTOMERS SEPARATE THEMSELVES FROM COMPETITION WITHIN THE MARKETPLACE.

**INSULATED GLASS UNITS** > WE MANUFACTURE ALL OF OUR INSULATED GLASS UNITS, WHICH ALLOW US TO PROVIDE SEVERAL GLASS OPTIONS THROUGHOUT OUR ENTIRE PRODUCT LINE.

**TESTING** > OUR DESIGN CAPABILITIES ENABLE ALL RESEARCH, DEVELOPMENT AND TESTING OPERATIONS TO BE CONDUCTED IN DIRECT ASSOCIATION WITH OUR ENGINEERS AND PRODUCTION MANAGERS.

**DELIVERY** > WE CONTROL ALL NORTH AMERICAN DISTRIBUTION THROUGH OUR OWN TRANSPORTATION DIVISION, ENSURING THE PRODUCT ARRIVES COMPLETE AND ON TIME.



**Window City Sets its Own Quality Control Testing Standards and Complies with All Industry Standards.**

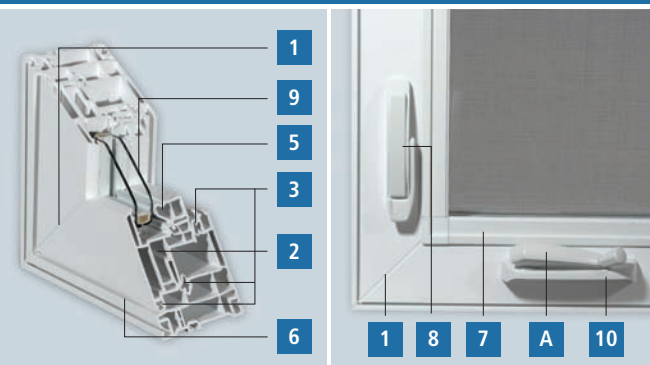
All our products undergo a rigorous testing process to ensure performance reliability. We also do thorough product testing to guarantee our windows can withstand the kind of extreme heat and cold climate stress that can be normally expected in North America. We are in full compliance with the Energy Star Environmental Protection Program, as well as numerous industry standard organizations, such as the National Fenestration Rating Council and the American Architectural Manufacturers Association.



The numerous features and styling of the WC-100 casement window series are sure to offer the performance, energy efficiency and style you are looking for. Our optional vinyl woodgrain finish gives you the maintenance-free advantage that real wood finishes simply cannot.



**3 1/4" CASEMENT WINDOWS**



**STANDARD FEATURES**

1. Fusion-welded frame and sash corners add strength and prevents air infiltration.
2. Multi-chambered design adds insulation, strength, drainage and prevents condensation.
3. Triple white co-extruded weather-strip sealing system.
4. 90° sash opening for easy cleaning from inside.
5. Interior glazing system with co-extruded flexible seal on sash eliminates leaks.
6. Drainage channels hidden in front of exterior sash.
7. Removable overlap internal screen for easy cleaning.
8. Multi-point locking system for a tight seal and added security.
9. 3/4" insulated double-strength glass with ultra dual warm edge seal for optimum efficiency.
10. Truth Maxim™ system hardware (dual arm operator).

**HARDWARE OPTION**

- A. Folding handle (available in different colors to match the interior finish).



Our casement windows are perfectly designed for wide viewing angles with triple weather stripping incorporated into our frames and sashes. We use the finest quality hardware to provide effortless operation plus our multi-point locking mechanism for maximum security.





3 1/4" AWNING WINDOWS

The WC-125 awning window series is well engineered inside and out, offering unparalleled functionality and versatility. The unique design characteristics add superior style and lasting protection from the elements.



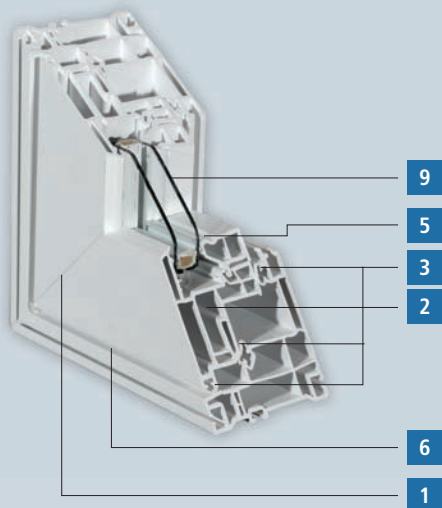
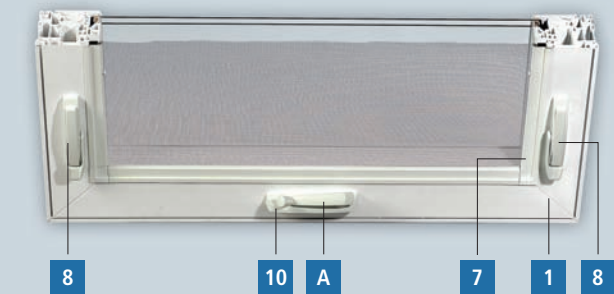
Awning windows open out from the bottom, letting air circulate freely, while providing a unique protective shield to keep rain out. Awning windows are available in single, stacked, side by side or matched with picture windows, allowing you the creative look and function you need.

STANDARD FEATURES

1. Fusion-welded frame and sash corners add strength and prevents air infiltration.
2. Separated multi-chambered design adds insulation, strength, drainage and prevents condensation.
3. Triple white co-extruded weather-strip sealing system.
4. Sash is hinged at the top and opens 45° from bottom.
5. Interior glazing system with co-extruded flexible seal on sash eliminates leaks.
6. Drainage channels hidden in front of exterior weather-stripping sash.
7. Removable overlap internal screen for easy cleaning.
8. Double multi-point locking system for a tight seal and added security.
9. 3/4" insulated double-strength glass with ultra dual warm edge seal for optimum efficiency.
10. Truth Maxim™ system hardware (awning operator).

HARDWARE OPTION

- A. Folding handle (available in different colors to match the interior finish).





## 3 1/4" LOW PROFILE FIXED WINDOWS

The WC-150 low profile fixed window series has been masterfully engineered to make replacing your old windows easier than ever before. The low profile design can be combined with any other product in our line-up, giving you greater architectural flexibility.



### STANDARD FEATURES

1. Fusion-welded frame corners add strength and prevents air infiltration.
2. Multi-chambered design adds insulation, strength, drainage and prevents condensation.
3. Interior glazing system with co-extruded flexible seal on sash eliminates leaks.
4. Drainage channels hidden in front of exterior frame.
5. 3/4" insulated double-strength glass with ultra dual warm edge seal for optimum efficiency.
6. Low profile designed with narrow frame for maximum glass surface.
7. Unlimited range of architectural shapes and curves.



The WC-150 Series offers unparalleled design flexibility. The low profile fixed window is designed with a narrow frame to allow for the maximum viewing area. The fixed windows are available in an unlimited selection of custom architectural and curved shapes. Each window is designed and manufactured to your exact specifications.







3 1/4" HIGH PROFILE FIXED WINDOWS

The WC-175 high profile window series will take your home to the next level of aesthetic sophistication. Beautifully crafted and engineered to make renovating your home or replacing windows a breeze. The high profile design can be harmonized with any other Window City product, giving you unsurpassed architectural freedom.



STANDARD FEATURES

- 1. Fusion-welded frame corners add strength and prevents air infiltration.
- 2. Multi-chambered design adds insulation, strength, drainage and prevents condensation.
- 3. Interior glazing system with co-extruded flexible seal on sash eliminates leaks.
- 4. Drainage channels hidden in front of exterior frame.
- 5. 3/4" insulated double-strength glass with ultra dual warm edge seal for optimum efficiency.
- 6. High profile frame designed to match casement and awning windows' glass sight-lines.



The high profile fixed window is designed with a structural frame to accommodate larger openings.

The high profile fixed window matches the glass sight lines of the casement and awning windows. Gives the exterior a uniformed appearance of operating windows.





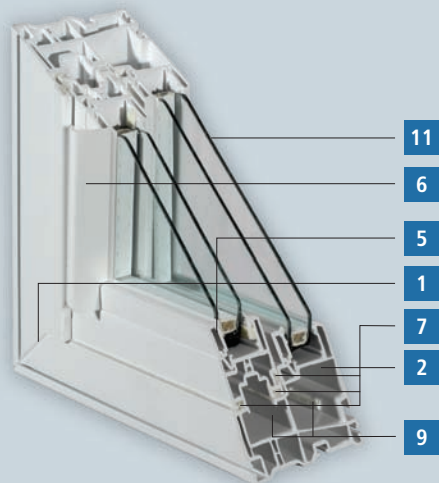
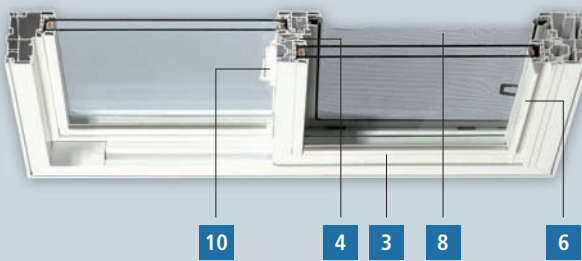
3 1/4"  
SINGLE SLIDER  
TILT WINDOWS

The concept of form following function is evident in the WC-200 single slider, tilt window series. The simple and ageless design is coupled with uncompromised durability and ease of function. The clever mechanisms make operating and cleaning a snap.



STANDARD FEATURES

1. Fusion-welded frame and sash corners add strength and prevents air infiltration.
2. Multi-chambered design adds insulation, strength, drainage and prevents condensation.
3. Horizontal operating sash tilts in for easy cleaning from inside the home.
4. Full interlocking system that provides increased security.
5. Interior glazing system with co-extruded flexible seal on sash eliminates leaks.
6. Hand rail is integrated in the glazing bead.
7. Triple weather-stripping sealing system located on the sash for maximum air and water tightness.
8. Removable half screen.
9. Standard pocket sill (welded) with interior drainage channel.
10. Heavy-duty cam action locking system for security.
11. 3/4" insulated double-strength glass with ultra dual warm edge seal for optimum efficiency.
12. Die-cast zinc pivot bars with patented locking system.



In a Single Slider window, only one sash operates and tilts in for easy cleaning from inside the home. Restricting operation to one sash helps improve thermal performance. Single slider tilt windows are available in 2 and 3 lite combination units.





3 1/4"  
SINGLE HUNG  
TILT WINDOWS

The WC-201 single slider tilt window series combines traditional styling with innovative design features to create the perfect blend of aesthetic beauty and function.



**STANDARD FEATURES**

1. Fusion-welded frame and sash corners add strength and prevents air infiltration.
2. Multi-chambered design adds insulation, strength, drainage and prevents condensation.
3. Sash tilts in for easy cleaning from inside the home.
4. Full interlocking system that provides increased security against air infiltration.
5. Interior glazing system with co-extruded flexible seal on sash eliminates leaks.
6. Handle is integrated in the glazing bead.
7. Triple weather-stripping sealing system located on the sash for maximum air and water tightness.
8. Removable half screen for ventilation.
9. Standard pocket sill (welded) with Quad-4 weather-stripping.
10. Heavy-duty cam action locking system for security.
11. 3/4" insulated double-strength glass with ultra dual warm edge seal for optimum efficiency.
12. Die-cast zinc pivot bars with instant-locking pivot shoes.



The single hung window has been designed with a structural frame and sash to accommodate large openings that require ventilation. In a single hung window only the bottom sash operates and tilts in for easy cleaning from inside the home. Restricting operation to one sash helps improve thermal and structural performance.





3 1/4"  
DOUBLE SLIDER  
TILT WINDOWS

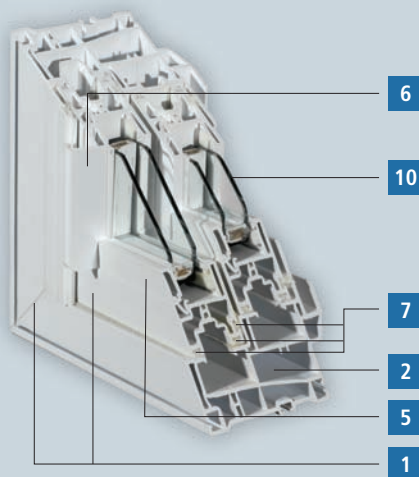
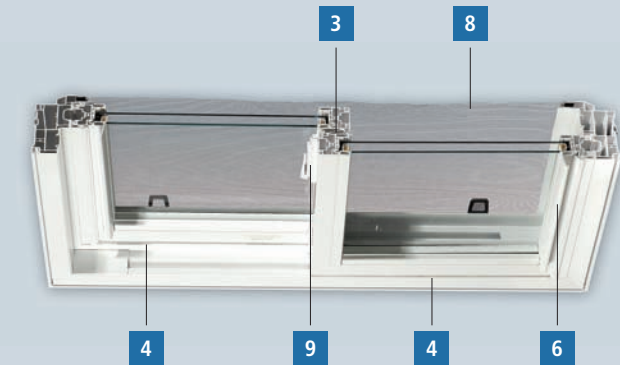
Slider windows are a great addition to any room, and are also popular with many home owners. Operation of these windows is simple and ideal for many applications, particularly when space limitation prohibits using a projecting window.



Double slider tilt windows are perfect for a large window area, where maximum ventilation is required without obstructing the view. Both sashes tilt in for safe and easy cleaning of exterior glass surfaces from inside your home. The screen is easily removed and replaced from the inside.

STANDARD FEATURES

1. Fusion-welded frame and sash corners add strength and prevents air infiltration.
2. Multi-chambered design adds insulation, strength, drainage and prevents condensation.
3. Full interlocking system that provides increased security against air infiltration.
4. Both sashes tilt in for easy cleaning from inside the home.
5. Interior glazing system with co-extruded flexible seal on sash eliminates leaks.
6. Hand rail is integrated in the glazing bead.
7. Triple weather-stripping sealing system located on the sash for maximum air and water tightness.
8. Removable full screen.
9. Heavy duty cam action locking system for security.
10. 3/4" insulated double-strength glass with ultra dual warm edge seal for optimum efficiency.
11. Instant-locking pivot shoes.





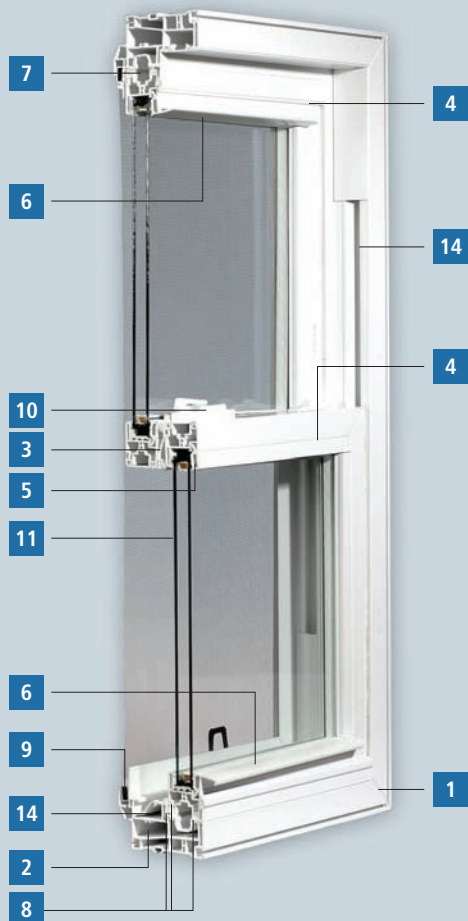
3 1/4"  
DOUBLE HUNG  
TILT WINDOWS

Tradition starts here, with one of North America's most popular windows. Double-hung windows provide the most flexibility with your ventilation options, while maintaining their classic appearance. Our inspired design makes our double-hung windows leaders in performance and sophistication.



STANDARD FEATURES

1. Fusion-welded frame and sash corners add strength and prevents air infiltration.
2. Multi-chambered design adds insulation, strength, drainage and prevents condensation.
3. Full interlocking system that provides increased security against air infiltration.
4. Both sashes tilt in for easy cleaning from inside the home.
5. Interior glazing system for safety and easy replacement of sealed unit.
6. Lift rail is integrated in the glazing bead.
7. Pocket head and sill with Quad-4 weather-stripping.
8. Triple weather-stripping sealing system located on the sash for maximum air and water tightness.
9. Removable full screen.
10. Heavy duty cam action locking system for security.
11. 3/4" insulated double-strength glass with ultra dual warm edge seal for optimum efficiency.
12. Die-cast zinc pivot bars with instant-locking pivot shoes.
13. Constant force balance system.
14. Full balance cover.



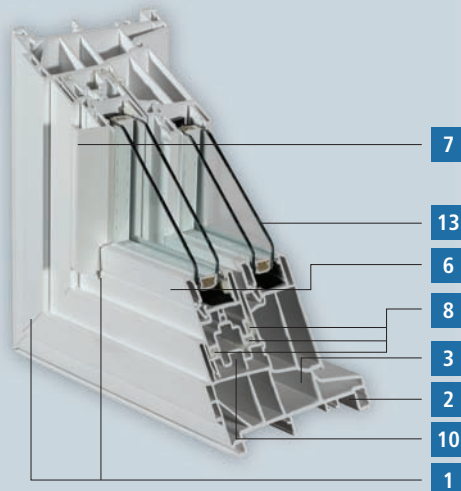
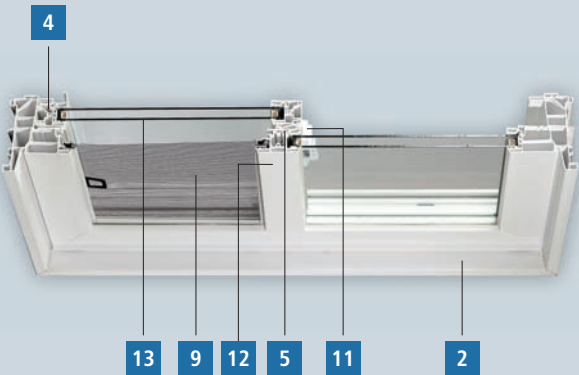
Incorporating an outstanding design with state-of-the-art material, our engineers have developed a window that satisfies the traditional style as well as today's demanding performance standards.



Our signature collection of 4 1/2" frame windows is the most advanced window series with the best ratio of quality, performance and durability. This innovative design, with brick mould incorporated into each frame, has helped us to set the highest standard possible in the window industry today.



4 1/2" SINGLE SLIDER LIFT OUT WINDOWS



STANDARD FEATURES

1. Fusion-welded frame and sash corners add strength and prevents air infiltration.
2. Brick mould is incorporated into the extruded 4 1/2" frame.
3. Multi-chambered design adds insulation, strength, drainage and prevents condensation.
4. Horizontal Operating Sash lifts out for easy cleaning.
5. Full interlocking system that provides increased security against air infiltration.
6. Interior glazing system with co-extruded flexible seal on sash and frame eliminates leaks.
7. Hand rail is integrated in the glazing bead.
8. Triple weather-stripping sealing system located on the sash for maximum air and water tightness.
9. Half screen designed to be easily removed from inside.
10. Standard pocket sill (welded) with interior drainage channel.
11. Heavy-duty cam action locking system for security.
12. Flush mullion system avoids notching interior trim.
13. 3/4" insulated double-strength glass with ultra dual warm edge seal for optimum efficiency.
14. Sash glides on dual roller operating system.



This innovative profile has been designed with an extruded built-in brick mould on a 4 1/2" frame, enabling it to satisfy the structural requirements that most uPVC windows cannot meet. This high performance window incorporates a lift-out sash that will provide years of easy operation.





3 1/4"  
SINGLE SLIDER  
LIFT OUT WINDOWS

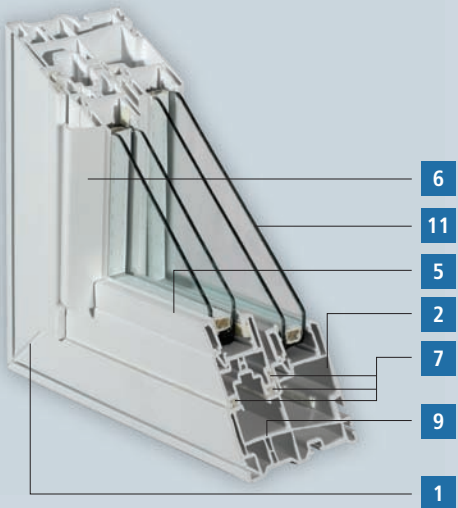
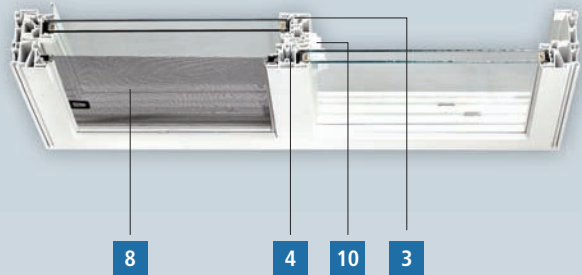
The contemporary Single Slider lift-out window offers great performance to the budget-conscious home-owners. These affordable designs have one horizontal active sash with dual rollers for easy operation.



Our sliding window combines the wide vistas normally found in fixed windows with an easy operating lift-out sash. Single slider lift-out windows are available in 2 and 3 lite combination units.

STANDARD FEATURES

1. Fusion-welded frame and sash corners add strength and prevents air infiltration.
2. Multi-chambered design adds insulation, strength, drainage and prevents condensation.
3. Horizontal operating sash lifts out for easy cleaning.
4. Full interlocking system that provides increased security and air tightness.
5. Interior glazing system with co-extruded flexible seal on sash and frame eliminates leaks and allows easy replacement.
6. Hand rail is integrated in the glazing bead.
7. Triple weather-stripping sealing system located on the sash for maximum air and water tightness.
8. Half screen designed to be easily removed from inside.
9. Standard pocket sill (welded) with interior water drainage channel.
10. Heavy-duty cam action locking system for security.
11. 3/4" insulated double-strength glass with ultra dual warm edge seal for optimum efficiency.





4 1/2"  
CASEMENT  
WINDOWS

The exclusive profile of the WC-400 signature collection 4 1/2" frame casement window has incorporated structural integrity along with quality and unmatched performance. All of this while maintaining the beauty of a classic design. Our signature window will add value to your home for years to come.



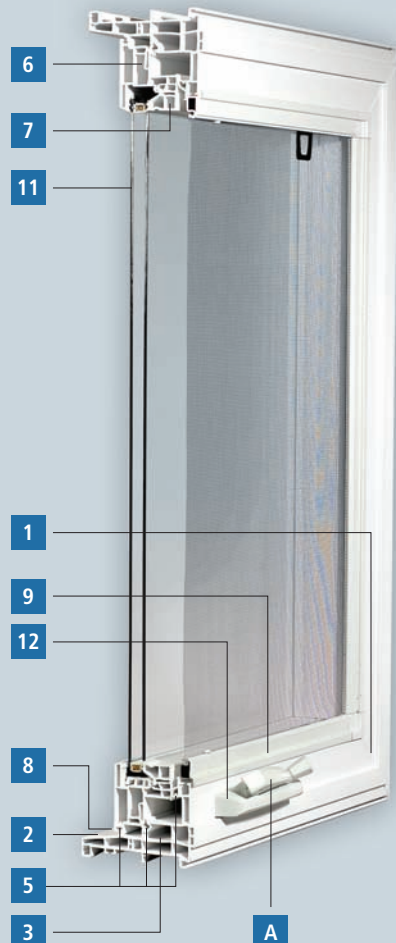
Our casement windows are perfectly designed for wide viewing angles with triple weather stripping incorporated into our frames and sashes. We use the finest quality hardware to provide effortless operation plus our multi-point locking mechanism for maximum security.

**STANDARD FEATURES**

1. Fusion-welded frame and sash corners add strength and prevents air infiltration.
2. Brick mould is incorporated into the extruded 4 1/2" frame.
3. Multi-chambered design adds insulation, strength, drainage and prevents condensation.
4. Casement window with 4 1/2" extended frame has built-in brick mould, drywall or wood return.
5. Triple white co-extruded flexible seal system.
6. 90° sash opening for easy cleaning from inside.
7. Interior glazing system with co-extruded flexible seal on sash eliminates leaks.
8. Drainage channel hidden in front of exterior sash.
9. Removable overlap internal screen for easy cleaning.
10. Multi-point locking system for a tight seal and added security.
11. 3/4" insulated double-strength glass with ultra dual warm edge seal for optimum efficiency.
12. Truth Maxim™ system hardware (dual arm operator).

**HARDWARE OPTION**

- A. Folding handle (available in different colors to match the interior finish).







4 1/2"  
AWNING  
WINDOWS

The WC-425 awning window series combines superior structure along with the function of an operable window. By incorporating the brick mould into the frame this series can be used for both new construction and renovation. Combine that with the beauty of our signature collection 4 1/2" frames and you can see why our products will add efficiency and value to your home.



STANDARD FEATURES

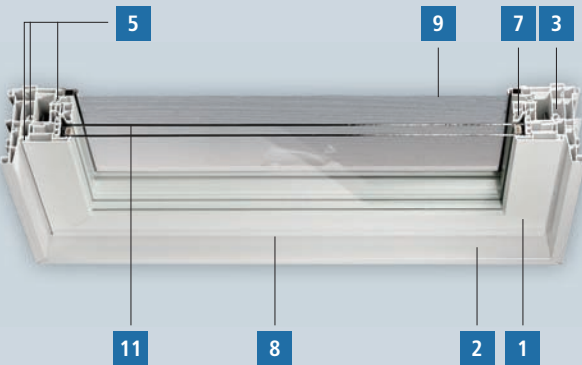
1. Fusion-welded frame and sash corners add strength and prevents air infiltration.
2. Brick mould is incorporated into the extruded 4 1/2" frame.
3. Multi-chambered design adds insulation, strength, drainage and prevents condensation.
4. Awning window with 4 1/2" extended frame has built-in brick mould, drywall or wood return.
5. Triple white co-extruded flexible seal system.
6. Sash is hinged at the top and opens 45° from bottom.
7. Interior glazing system with co-extruded flexible seal on sash eliminates leaks.
8. Drainage channel hidden in front of exterior sash.
9. Removable overlap internal screen for easy cleaning.
10. Multi-point locking system for a tight seal and added security.
11. 3/4" insulated double-strength glass with ultra dual warm edge seal for optimum efficiency.
12. Truth Maxim™ system hardware (dual arm operator).

HARDWARE OPTION

- A. Folding handle (available in different colors to match the interior finish).



Awning windows open out from the bottom, letting air circulate freely while providing a unique protective shield to keep the rain out. Awning windows are available in single, stacked, side-by-side styles or matched with picture windows. This gives you the creative look and function you need.





4 1/2"  
LOW PROFILE  
FIXED PICTURE  
WINDOWS

The WC-450 low profile fixed window will complement any architectural style. This window adds to our signature collection of 4 1/2" frame series by providing the maximum viewing area along with unmatched strength and performance. Combine this unit with an operable window and you can create a unique look for your home and add to the overall value.



**STANDARD FEATURES**

1. Fusion-welded frame and sash corners add strength and prevents air infiltration.
2. Brick mould is incorporated into the extruded 4 1/2" frame.
3. Multi-chambered design adds insulation, strength, drainage and prevents condensation.
4. Low profile fixed window with 4 1/2" extended frame with built-in brick mould, drywall or wood return.
5. Interior glazing system with co-extruded flexible seal on sash eliminates leaks.
6. Drainage channel hidden in front of exterior sash.
7. 3/4" insulated double-strength glass with ultra dual warm edge seal for optimum efficiency.
8. Low profile design with narrow frame for maximum glass surface.
9. Unlimited range of architectural shapes and curves.



Our low profile, fixed windows add a unique touch to any project. They are designed with a narrow sash giving you an unprecedented viewing area. The windows are also available in an unlimited selection of custom architectural and curved shapes. Each window is designed and manufactured to your exact specifications.





4 1/2"  
HIGH PROFILE  
FIXED PICTURE  
WINDOWS

The WC-475 high profile fixed window completes the signature collection of 4 1/2" frame windows. Combined with awning or casement windows this unit has been designed to match the sight lines and to provide a seamless transition throughout your home. The superior structure of this frame allows you the opportunity to create large openings enabling you to bring the outdoors into your home.



STANDARD FEATURES

1. Fusion-welded frame and sash corners add strength and prevents air infiltration.
2. Brick mould is incorporated into the extruded 4 1/2" frame.
3. Multi-chambered design adds insulation, strength, drainage and prevents condensation.
4. High profile fixed window with 4 1/2" extended frame with built-in brick mould, drywall or wood return.
5. Interior glazing system with co-extruded flexible seal on sash eliminates leaks.
6. Drainage channel hidden in front of exterior sash.
7. 3/4" insulated double-strength glass with ultra dual warm edge seal for optimum efficiency.
8. High profile frame designed to match casement and awning window glass sight lines.
9. Unlimited range of architectural shapes and curves.



- 7
- 1
- 2
- 6
- 3
- 5

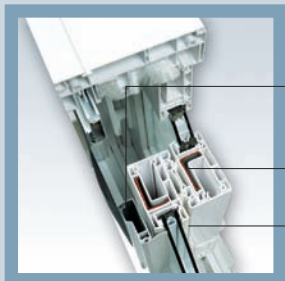


The high profile fixed window is designed with a structural frame to accommodate larger openings. The high profile fixed window matches the glass sight lines of the casement and awning windows, giving the building exterior a virtually uniform appearance.





## SLIDING PATIO DOORS



6

2

9

1

4

8

7

9

2

3

Window City's all uPVC sliding patio door is designed to slip elegantly into your life style. It combines state-of-the-art technology with unmatched performance to give you the very best for your new construction or remodelling project.



### STANDARD FEATURES

1. All uPVC multi-chambered 5 3/4" frame for greater thermal efficiency and unmatched strength.
2. Fusion-welded sashes with vertical reinforced steel.
3. Sloped sill for optimal water drainage.
4. Triple weather-stripping at side jambs and full interlock on sashes provide the ultimate protection from air and water infiltration.
5. Self-lubricated metal, double tandem adjustable rollers provide smooth and easy operation on anodized aluminum track.
6. Heavy-duty extruded aluminum screen frame with fiberglass mesh and 4 adjustable rollers is designed for easy operation.
7. 7/8" tempered insulated double-strength glass with ultra dual warm edge seal for optimum efficiency.
8. Sash panels are co-extruded with dual durometer flex uPVC which surrounds the entire 7/8" thick I.G unit.
9. Interior glazing bead for added strength and easy replacement.
10. Fully reversible panels can be assembled to slide left or right.





## SLIDING PATIO DOORS

Our patio doors have been designed to be combined with our other window series (transom, sidelites, shapes) to meet any custom opening requirements.

Our fully automated manufacturing process allows us to customize our patio door to meet your exact specifications.

To add a unique point of entry, we offer several hardware and grille options. With the ability to utilize all of our accessories (i.e. Brick mould, nailing fin and jamb extension...) Window City 500 patio door series can meet any design requirements.

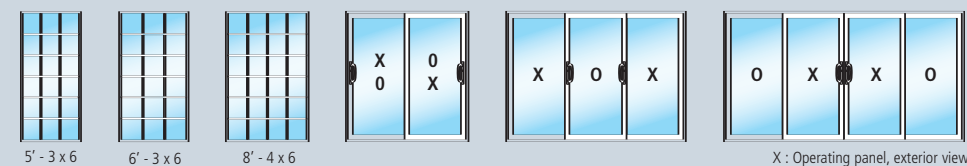


### PATIO DOOR-OPTIONS

1. Glazing options: Low-E, Argon gas-filled, tinted, V-Groove and grilles.
2. Kicklock and keylock for added security.
3. Wide range of accessories and trims for both interior and exterior (brick mould, nailing fin, wood or vinyl jamb extensions, sill extensions).
4. Wide range of multi-point hardware (wood, brass, chrome and white finishes).
5. Patio doors include optional insulated and embossed uPVC panels.
6. Simulated divided lites for added beauty and elegance.

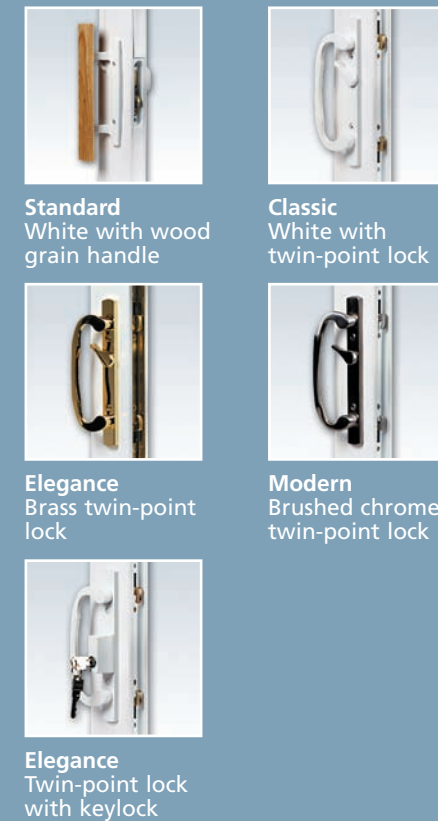


### GRILLE PATTERNS AND CONFIGURATIONS



| GLASS SIZES       | SCREEN SIZES         | W x H                   | W x H                             | W x H                     |
|-------------------|----------------------|-------------------------|-----------------------------------|---------------------------|
| 24 7/8" x 70 7/8" | 29 9/16" x 76 11/16" | 5 Ft. 59 5/8" x 79 1/2" | 7 1/2 Ft. 89 1/8" x 79 1/2" (xax) | 10 Ft. 117 5/8" x 79 1/2" |
| 30 7/8" x 70 7/8" | 35 9/16" x 76 11/16" | 6 Ft. 71 5/8" x 79 1/2" | 9 Ft. 107 1/8" x 79 1/2" (xax)    | 12 Ft. 141 5/8" x 79 1/2" |
| 42 7/8" x 70 7/8" | 47 9/16" x 76 11/16" | 8 Ft. 95 5/8" x 79 1/2" | 12 Ft. 143 1/8" x 79 1/2" (xax)   | 16 Ft. 189 5/8" x 79 1/2" |

### HANDLE OPTIONS



Standard  
White with wood grain handle

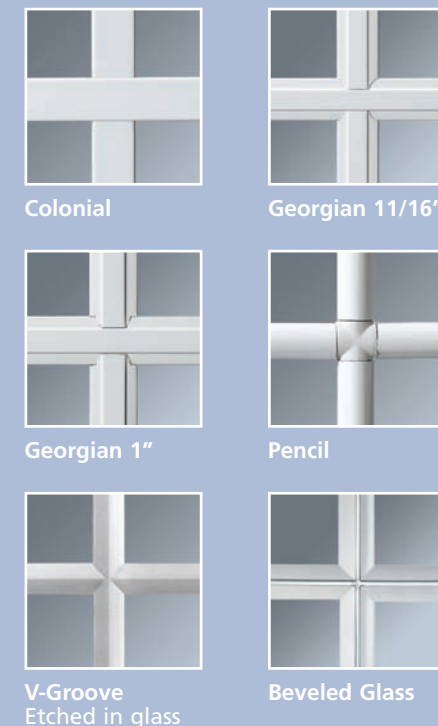
Classic  
White with twin-point lock

Elegance  
Brass twin-point lock

Modern  
Brushed chrome twin-point lock

Elegance  
Twin-point lock with keylock

### GRILLE OPTIONS



Colonial

Georgian 11/16"

Georgian 1"

Pencil

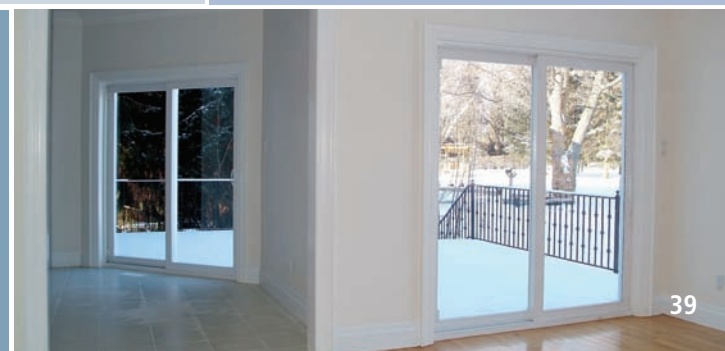
V-Groove Etched in glass

Beveled Glass



### KICKLOCK

Window City kicklocks give you the extra security you need. Kicklocks are optional on all our 500 series patio doors.





## ARCHITECTURAL AND GEOMETRIC SHAPE WINDOWS

To create that distinctive look and feeling, we offer a broad range of custom shapes and window configurations.

Combined with our unlimited selection of grille options, the Architectural Series will allow you to bring your dreams to life.

Because we use only the latest technology, our design and manufacturing capabilities are limitless.

Window City's architectural shapes will create unparalleled beauty to complement the unique custom design for your home. We offer a wide selection of shapes and sizes for new construction as well as replacement.



### STANDARD FEATURES

1. Fusion-welded frame corners add strength and prevents air infiltration.
2. Multi-chambered design adds insulation, strength, drainage and prevents condensation.
3. Interior glazing system with co-extruded flexible seal on sash eliminates leaks.
4. Drainage channels hidden in front of exterior frame.
5. 3/4" insulated double-strength glass with ultra dual warm edge seal for optimum efficiency.
6. Architectural series available in 3 1/4" and 4 1/2" frames.
7. Unlimited range of architectural shapes and curves.





Window City offers a full collection of stylish, graceful enhancements that can be used in a variety of applications: as a subtle lighting accent or signature statement. Best of all, whether you select arches, circles or geometric shapes, you will receive the uncompromising quality and value you expect from a Window City product.





Bay and bow windows will allow you to expand your living space to the outdoors. There are many different options available, giving you increased light and space to create a unique experience. A bay or bow window can add a distinct architectural feature that will enhance the beauty and value to your home for years to come.



## BAY WINDOWS



### BAY AND BOW WINDOWS ARE CUSTOM-BUILT TO MEET YOUR EXACT SPECIFICATIONS.

- Bay windows are a combination of three fixed and/or operating windows joined together at either 30° or 45°.
- A bay or bow window will add elegance and beauty to any room in your home.
- Custom-sized replacement bay and bow windows can be shipped assembled or unassembled.
- To enhance your bay or bow window, all accessories and grille options are available.
- The projection of bay or bow windows allows you to expand your living space without adding square footage.
- For maximum air circulation, choose any of our operating window systems.





Bow windows are a combination of 4, 5 or more equal windows joined together to form a graceful, soft curve. Our bow windows are available in standard 10° and 15° angles.



**BOW WINDOWS**



A bay or bow window will add a dynamic view to any room in your home.

Custom-sized replacement bay and bow windows can be shipped assembled or unassembled.

The projection of bay or bow window allows you to expand your living space without adding square footage.

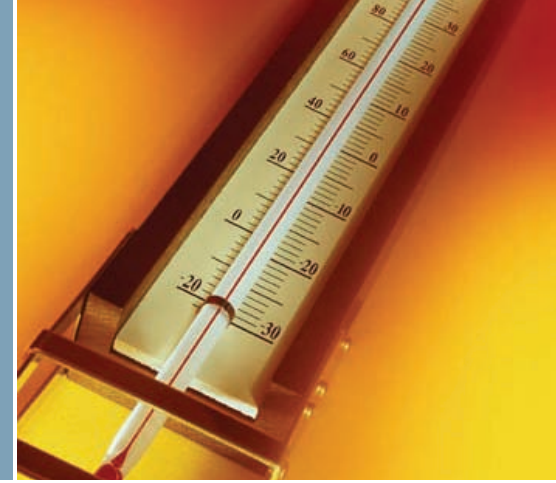
To add ventilation to your custom window, choose any of our operating window systems.





# GLAZING OPTIONS

It has been often said that windows are the eyes of the home, giving occupants the opportunity to bring the outdoors into their home.



## STANDARD INSULATED GLASS UNIT CONSTRUCTION

OUR STANDARD INSULATED GLASS UNIT CONSIST OF TWO PANES OF DOUBLE-STRENGTH GLASS, SEPARATED BY OUR PATENTED ULTRA DUAL SEALED WARM EDGE SPACER OR SUPER SPACER® S-CLASS.

ALL SEALED UNITS ARE AVAILABLE WITH SEVERAL GLAZING OPTIONS THESE INCLUDE HIGH EFFICIENCY LOW-E COATING, SELF CLEANING LOW-E, LAMINATED, TEMPERED, OBSCURED AND REFLECTIVE GLASS.

IN FACT WITH THE ADDITION OF ARGON GAS TO OUR STANDARD DUAL PANE UNIT, YOU WILL GAIN GREATER THERMAL PERFORMANCE. OUR HIGH-EFFICIENCY SEALED GLASS UNITS HAVE ACHIEVED THE HIGHEST THERMAL PERFORMANCE RATINGS ALLOWING YOU TO CHOOSE THE SYSTEM THAT BEST MEETS YOUR NEEDS. WINDOW CITY IS A CERTIFIED PARTNER WITH THE ENERGY STAR PROGRAM THROUGHOUT NORTH AMERICA.



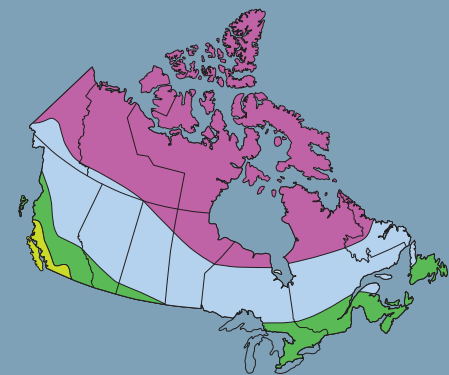
## Sealed Unit Construction

## Argon Gas Filled Units

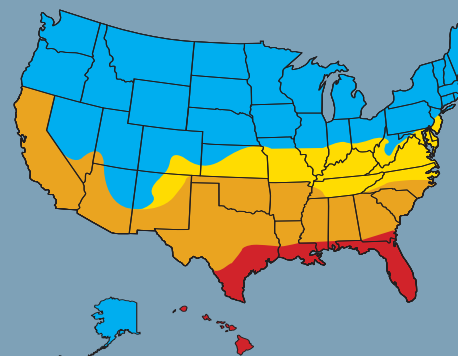
Inert Argon gas-filled between two panes of glass (only with Low-E option). This lowers the conductive heat transfer by 30% less, thus improving the U-value and energy efficiency. Filling the space between glazing layers with Argon gas does two things:

1. Reduces conduction heat loss, because Argon has a lower conductivity than air.
2. Reduces convection losses because it is heavier than air and suppresses gas movement between the glazings.

## Canadian Climate Zone



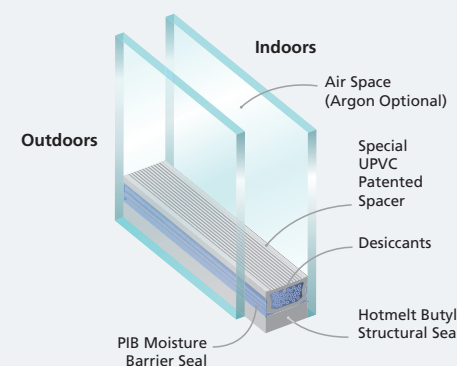
## U.S. Climate Zone



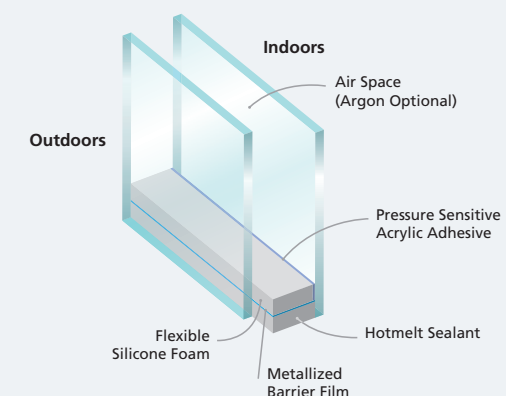
## Glazing Options For Any Climate

At Window City we feel that choosing the right glass for your home will allow you to maximize your investment. We offer the latest technology and product selection available in the window industry today. This enables you to choose the best performing product for your specific location.

## Ultra Dual Warm Edge



## Super Spacer® S-class Seal





# GLASS OPTIONS

## Insulated Energy Advantage Low E Glass™ (Hard-Coated)

One of our most popular glazing options is Energy Advantage Low E Glass™. Low-E glass is a thin metallic coating which filters solar radiation, thereby reducing heat gain in the summer and heat loss in the winter.

Energy-advantageous Low-E glass actually lets more of the sun's warming rays into your home throughout the winter.

This passive solar heat, coupled with the high insulation values of our glass pack can turn your windows into a source of free energy in the winter.

## LoE<sup>2</sup>-172® All Climate, All Season Window Glass (Soft-Coated)

From cold winter nights to hot summer days, you will enjoy viewing the great outdoors from the energy-efficient comfort of your home. Because LoE<sup>2</sup>-172® all climate glass blocks 84% of the sun's damaging ultraviolet rays, and delivers a remarkable 96% performance improvement in winter night time insulation (R-value) compared to non-coated air-filled insulated glass.

## Laminated Glass

Window City's Safe Vision™ laminated glass consists of three panes of annealed, heat-strengthened or tempered glass with one or more invisible interlayers sandwiched together to create a stronger, safer glass unit.

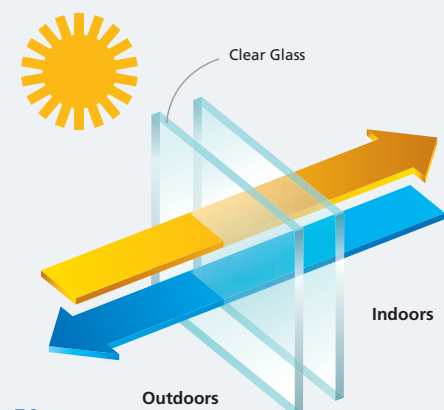
When combined with other technologies, the performance of laminated glass is greatly enhanced. For unmatched safety, thermal performance, and as well as an effective way to reduce unwanted noise, use Window City's Safe Vision™ laminated glass.

**GLASS OPTIONS FOR ANY CLIMATE** > YOU PROBABLY KNOW THAT LOW-E GLASS IN YOUR WINDOWS CAN SAVE YOU ENERGY. YOU SHOULD ALSO KNOW THAT NOT ALL LOW-E GLASS IS THE SAME. WINDOW CITY OFFERS SEVERAL GLASS OPTIONS, ENABLING YOU TO ADAPT YOUR WINDOW PERFORMANCE TO YOUR CLIMATE ZONE. THESE CHOICES ALLOW YOU TO GET MAXIMUM ENERGY EFFICIENCY FOR YEAR-ROUND COMFORT.



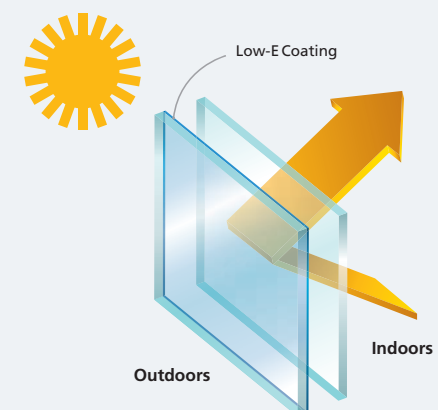
## Insulated Clear Glass

Although a clear, insulated glass unit provides more efficiency and noise protection than single pane glass, it does not maximize the efficiency of your window opening. A clear insulated glass unit allows heat and cold from both the inside and outside to pass through with little resistance.



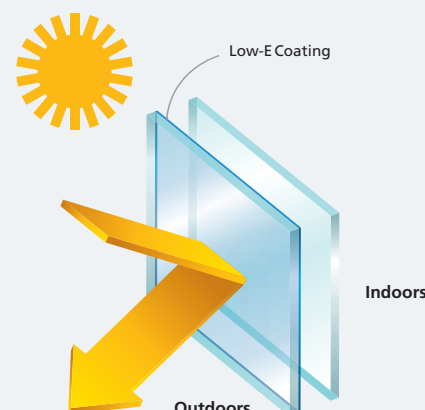
## Insulated Low-E Glass In the Winter

The special Low-E coating has 2 functions in the winter season. First, it helps reflect the heat your furnace provides back into your home. Second, it allows some passive solar heat into your home, providing you with free energy and helping to reduce your heating costs.



## Insulated Low-E Glass In the Summer

In the summer season or in warmer climates, Low-E glass helps keep the heat outside. By reflecting the heat and damaging U.V. rays this coating helps reduce your cooling costs and keeps your home more comfortable for years to come.



## LoE<sup>2</sup> Plus® Lower-Maintenance, Easier To Clean Glass

LoE<sup>2</sup> Plus® glass is an easier to clean alternative to ordinary window glass. It is a thin layer of silicon dioxide applied to the exterior surface – literally a glass-on-glass coating for your windows. LoE<sup>2</sup> Plus® is more resistant to dirt and other residue than typical glass, saving you time and helping your windows stay cleaner and brighter than ever before.

LoE<sup>2</sup> Plus® glass retains all of the high-efficiency characteristics of the LoE<sup>2</sup>-172® glass, with the added benefits of being easier to clean and faster drying.

## LoE<sup>2</sup> Plus® Glass Versus Ordinary Glass

### Smoother Glass

With the addition of a clear silicon dioxide coating, water is dispersed more evenly across the glass surface. Glass dries faster with fewer water spots.

### Ordinary Glass

Water beads up higher on the rough surface of hydrophobic glass, causing longer dry times, more spots, and the necessity for more frequent cleaning.



## Argon Gas-Filled Units

Inert Argon gas-filled between two panes of glass, (only with Low-E option), lowers the conductive heat transfer 30% less, thus improving the U-value and energy efficiency.

It also significantly reduces fading and discoloration of furnishings due to UV radiation.

LoE<sup>2</sup>-172® All Climate, All Season Window Glass and LoE<sup>2</sup> Plus® Lower-Maintenance, Easier To Clean Glass are the registered trademarks owned by Cardinal IG.

Energy Advantage Low E™ is the registered trademark owned by Pilkington plc.

Safe Vision laminated glass is a trademark of Window City Industries Inc.



# Window City Safe Vision™ Laminated Glass



## Noise Insulation Outside Distraction

The world gets noisier everyday. Sometimes all you want is a little peace and quiet. Laminated glass is an effective way to reduce unwanted outside noise. This is especially useful in areas near airports, industry, traffic, or whenever unpleasant sounds exist.

The American society for testing and materials (ASTM) developed the sound transmission class rating (STC) to describe the sound isolation performance of materials. A higher STC rating indicates a greater sound dampening effect. Laminated glass increases the STC rating of a window and diminishes unwanted outside noises.

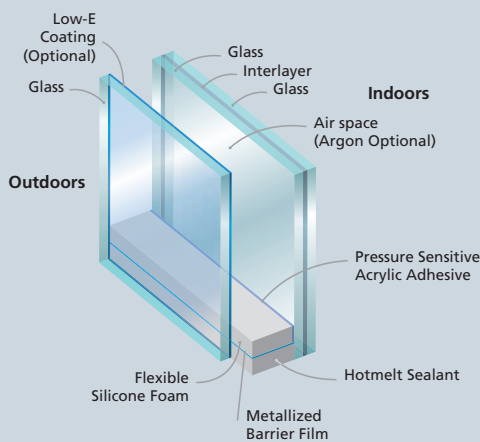
## Why Laminated Glass?

Life can sometimes be unpredictable. Everyone is concerned about the safety of their homes and families. Unpredictable weather can cause havoc for home-owners. Today's traffic and other factors mean that the world is an increasingly noisy place.

More than anything, home-owners are looking for a sense of confidence and reassurance today.

Window City's Safe Vision™ laminated glass offers a level of security and serenity that can't be realized with ordinary glass.

## Safe Vision™ Laminated Glass



## Window City Safe Vision™ Laminated Glass

Safe Vision™ laminated glass is produced by bonding a combination of plastic vinyl layers and polyester film between two panes of glass into a single sheet. Designed for windows used in high wind-speed coastal areas, Safe Vision™ glass looks like ordinary glass, but protects like a shield against impact, forced entry, sun damage and unwanted noise. Extensive testing has shown that upon impact, broken glass fragments adhere to the vinyl interlayer, keeping the window intact and reducing the risk of injury.

## Peace of Mind for Security, Safety

Ordinary annealed glass breaks easily. Tempered glass, while stronger, shatters under impact. But laminated glass is different.

If laminated glass is broken, the vinyl interlayer remains in the frame, with glass fragments adhering to the interlayer. This provides a strong barrier against forced entry. Furthermore, laminated glass cannot be cut from one side only, which renders glass cutters useless in the hand of would-be intruders.



## Discoloration Protection

### Protect Your Furniture From Fading

Fabric, furniture and other materials fade and become discolored over time when portions of the solar energy spectrum enter a room. The potential fading reduction of solar energy through glass can be determined by a measurement called Damage Weighted Transmission (Tdw). The lower the value of Tdw, the better the glass protects against fading.

Single pane clear glass allows most of the UV and visible energy to

come through into the room, offering very little protection. The Tdw of clear glass is 0.84.

On the other hand, laminated glass provides a balance between visual aesthetics and interior protection. Laminated glass can block over 95% of the UV energy, while allowing most of the visible light through. The composite performance is a Tdw of 0.66-twice the fade-protection of ordinary glass.

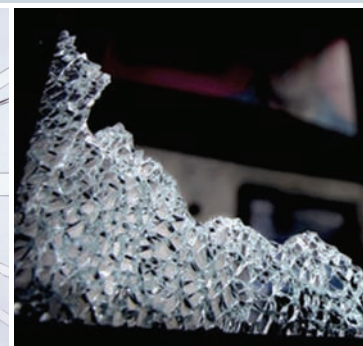
House plants respond only to visible light, so plant growth will not be affected when laminated glass is chosen for interior protection.

| Acoustic Performance | Glass Type  | Threshold STC |
|----------------------|---|---------------|
| Poor                 | Single Pane                                       | 27            |
| Moderate             | Insulated Glass                                   | 31            |
| Better               | Traditional Laminated Glass IG w/1 Laminated Pane | 33 -35        |
| Best                 | Heavy Single Pane Laminate IG w/2 Laminated Panes | 37+           |



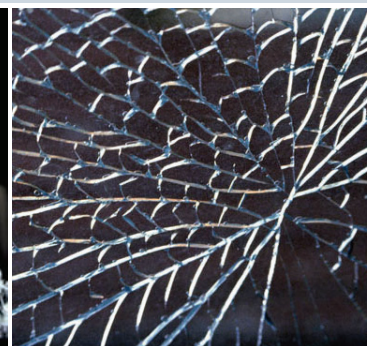
### Annealed Glass

Breaks easily, producing long, sharp splinters.



### Tempered Glass

Shatters completely under higher levels of impact energy, and few pieces remain in the frame.



### Laminated Glass

May crack under pressure, but tends to remain integral, adhering to the plastic vinyl inter layer.





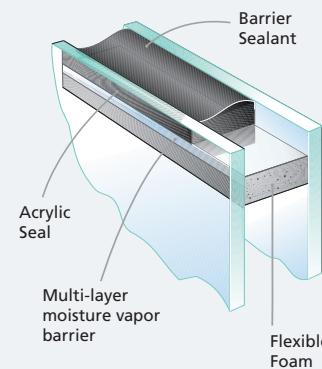
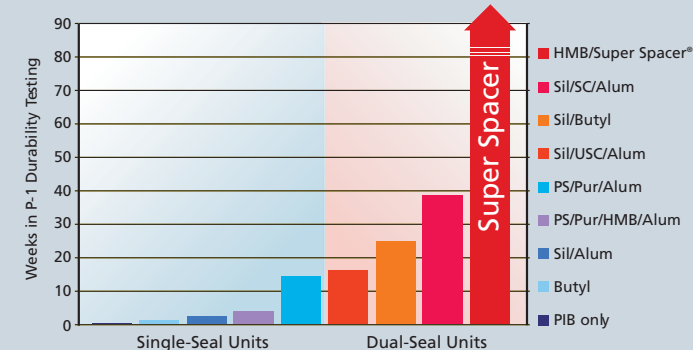
# SPACERS

**Warm edge technology** is more than just a low-conductive system that makes windows more thermally efficient. The warm edge spacer is the actual seal that keeps the glass package in the windows from failing. There are two types of insulating systems in the market today: single seal and dual seal systems.

**Single seal units** are constructed of only one type of sealant, which is called upon to perform double-duty. Not only must the sealant retard the infiltration of moisture vapor, but it must also hold the unit together under a wide variety of both high and low temperatures, while withstanding the effects of high humidity and ultraviolet exposure.

A **dual seal unit** is constructed using a combination of one sealant, which functions mainly as a high-strength adhesive and a second sealant, which is used primarily as a moisture vapor seal.

**Super Spacer®** is a non-metal, silicone-foam insulating glass spacer that uses a high-strength acrylic adhesive for its silicone seal. Baked with a moisture vapor seal, super-sealed insulating glass lasts five times longer in durability tests than single seal units.

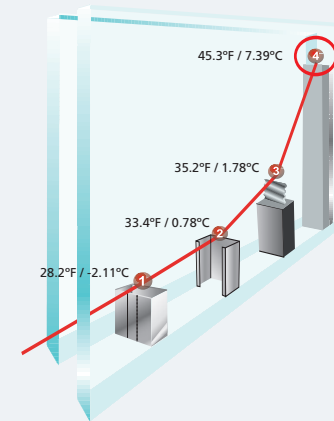


### Super Spacer® Non-Metal = Less Condensation

Super Spacer® sealed units have shown to have up to twenty times the life expectancy of single seal insulating glass systems available on the market today.

The P-1 is considered to be one of the world's most rigorous durability tests. All units are put in hot boxes and continuously exposed to 60° C, 95-100% humidity and continuous UV bombardment. One week of testing is equivalent to one year of real time use.

The Super Spacer® bar is up to 950 times less conductive than an aluminum spacer bar.



### Warm edge Super Spacer® = The Best Performance and Less Moisture.

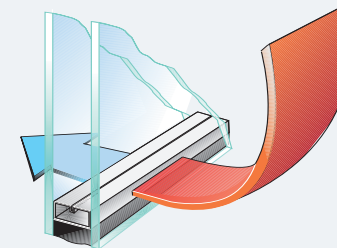
1. Super Spacer® dual seal, no-metal structure foam spacer backed with hot melt butyl.
2. Swiggle® single seal, corrugated metal strip in butyl.
3. Intercept® dual seal, tin-plate steel spacer backed with polyurethane.
4. Dual seal aluminum spacer backed with polyurethane.

### The Non-Metal Advantage

The Super Spacer® thermoset foam matrix is exceptionally breathable, allowing the high desiccant content to work even faster to absorb moisture. It makes for the fastest low de-frost point in the industry.

Working together with the multi layer vapor barrier and a secondary sealant, moisture is kept out, argon gas is kept in and conductivity is virtually non-existent.

1. The smooth, matte finish prevents blistering and bubbling.
2. Thermal foam matrix.
3. Proprietary multi-layer vapor barrier.
4. Acrylic structural adhesive.

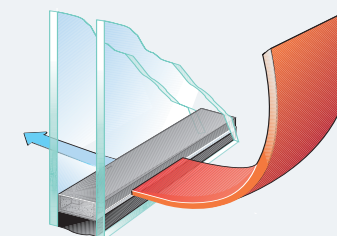


### Standard Aluminum Spacer Bars

A standard aluminum spacer bar creates condensation along the edge of the glass. Convection currents can also increase cold air concentration along the bottom edge of the glass, creating undesirable levels of condensation.

### Non-Metal Super Spacer® Bars

A non-metal Super Spacer® bar blocks the heat from escaping and protects the glass edge from moisture and condensation.



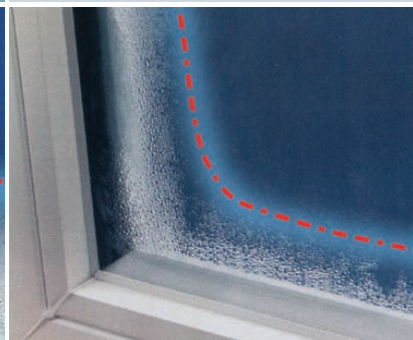
### The Non-Metal Advantage Foam VS. Metal

Thermal-efficient because of their lack of conductive metals. That's the Super Spacer® hallmark. The edge of the insulating glass unit is the most vulnerable to heat and cooling loss, condensation and frosting. Super Spacer's no-metal formula blocks the heat escape path and provides one of the best thermal performances in the industry.



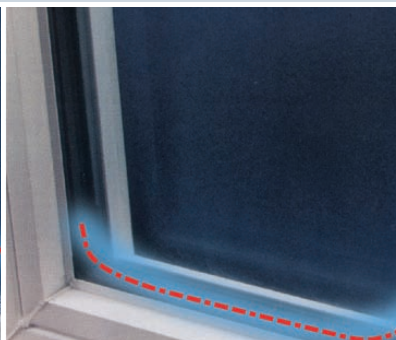
#### Full Metal Spacer

With conventional metal spacers, condensation is a fact of life.



#### Less Metal Spacer

Mid-performance spacer systems that still contain metal improve condensation resistance.

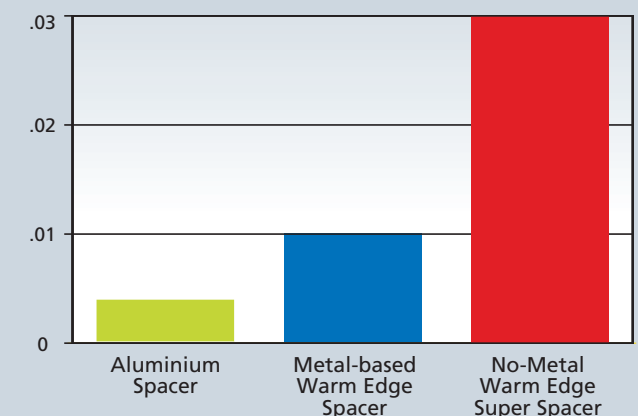


#### Non-Metal Super Spacer

All-foam design dramatically reduces condensation, delivering the clearest picture in warm edge technology.

### Warm Edge Benefits

Over 80% of a window's heat loss is through the glass itself, and the edge of the glass is a window's weakest link. When the glass edge is thermally inefficient, condensation forms-affecting the view through the window and potentially causing expensive damage to window sills, frames, curtains, paint and plaster. Super Spacer® is 950 times less conductive than aluminum spacers and 85 times less conductive than stainless steel. This superior insulation means improved energy savings, dramatically lowered thermal conductivity and substantially reduced perimeter condensation for overall window improvement.



Super Spacer® is the registered trademark owned by Edgetech.

# ACCESSORY OPTIONS

# COLOR OPTIONS

## Frame Options

- A 4 1/2" Frame with wood jamb.
- B 3 1/4" Frame with brick mould nailing fin and vinyl jamb.
- C 3 1/4" Frame with integrated nailing fin and vinyl jamb.
- D 3 1/4" Frame with brick mould and drywall return.
- E 4 1/2" Frame with wood jamb.
- F 3 1/4" Frame with brick mould no fin and wood jamb.
- G 3 1/4" Frame with brick mould nailing fin, vinyl jamb and vinyl casing with corner rossette.
- H 3 1/4" Frame with sill expander and interior vinyl jamb.

| Products                      | Series | Brickmould    |                |                  | Jamb Extension                                  |   | Interior Moulding |      | Drywall Return For 3/4" Wood Return | Exterior Sill Expander | Nail Flange |
|-------------------------------|--------|---------------|----------------|------------------|---|---|-------------------|------|-------------------------------------|------------------------|-------------|
|                               |        | With Nail Fin | No Nailing Fin | With (J) Channel | Vinyl   | Wood  | Vinyl             | Wood |                                     |                        |             |
|                               |        |               |                |                  | Available In: 1 1/4", 2 1/2", 3 3/8" and 4 1/2" | Available In: 1 1/4", 2 1/4", 3 3/8" and 4 1/4" |                   |      |                                     |                        |             |
|                               |        |               |                |                  |   |   |                   |      |                                     |                        |             |
| 3 1/4" Casement               | 100    | ■             | ■              | ■                | ■   | ■   | ■                 | ■    | ■                                   | ■                      | ■           |
| 3 1/4" Awning                 | 125    | ■             | ■              | ■                | ■   | ■   | ■                 | ■    | ■                                   | ■                      | ■           |
| 3 1/4" L.P. Fixed             | 150    | ■             | ■              | ■                | ■   | ■   | ■                 | ■    | ■                                   | ■                      | ■           |
| 3 1/4" H.P. Fixed             | 175    | ■             | ■              | ■                | ■   | ■   | ■                 | ■    | ■                                   | ■                      | ■           |
| 3 1/4" Single Slider Tilt     | 200    | ■             | ■              | ■                | ■   | ■   | ■                 | ■    | ■                                   | ■                      | ■           |
| 3 1/4" Single Hung Tilt       | 201    | ■             | ■              | ■                | ■   | ■   | ■                 | ■    | ■                                   | ■                      | ■           |
| 3 1/4" Double Slider Tilt     | 250    | ■             | ■              | ■                | ■   | ■   | ■                 | ■    | ■                                   | ■                      | ■           |
| 3 1/4" Double Hung Tilt       | 251    | ■             | ■              | ■                | ■   | ■   | ■                 | ■    | ■                                   | ■                      | ■           |
| 4 1/2" Single Slider Lift Out | 300    | ■             | ■              | ■                | ■   | ■   | ■                 | ■    | ■                                   | ■                      | ■           |
| 3 1/4" Single Slider Lift Out | 325    | ■             | ■              | ■                | ■   | ■   | ■                 | ■    | ■                                   | ■                      | ■           |
| 4 1/2" Casement               | 400    | ■             | ■              | ■                | ■   | ■   | ■                 | ■    | ■                                   | ■                      | ■           |
| 4 1/2" Awning                 | 425    | ■             | ■              | ■                | ■   | ■   | ■                 | ■    | ■                                   | ■                      | ■           |
| 4 1/2" L.P. Fixed             | 450    | ■             | ■              | ■                | ■   | ■   | ■                 | ■    | ■                                   | ■                      | ■           |
| 4 1/2" H.P. Fixed             | 475    | ■             | ■              | ■                | ■   | ■   | ■                 | ■    | ■                                   | ■                      | ■           |
| 5 1/2" Sliding Patio Door     | 500    | ■             | ■              | ■                | ■   | ■   | ■                 | ■    | ■                                   | ■                      | ■           |

## Frame Options

Window City offers several exterior color options. Our exterior Capstock color is bonded directly with the uPVC, unlike painted products, which can fade and chip away. The ultra-bond color process offers superior protection against the weather and excessive heat build up.

Window City offers three custom woodgrain interior color options. Add the distinctive look and feeling of wood with our maintenance-free laminates. Complete your window project with our matching accessories and grille packages.

### Coming in Spring 2006

Sliding patio doors will be available in exterior uPVC capstock colors.

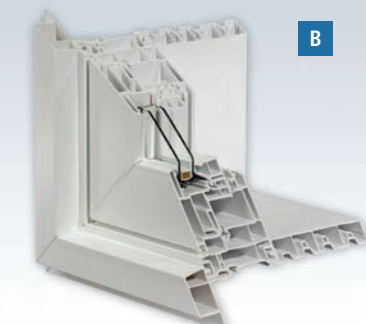
Selected products from our window series will be available in interior color laminates such as: dark oak and cherry.

Exterior laminates will also be available in various colors. Exterior uPVC capstock will be available in sandstone.

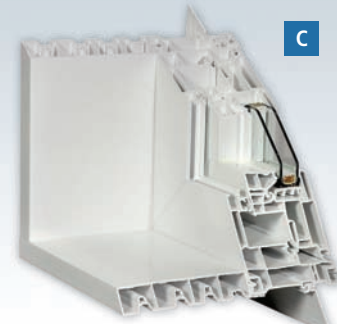
| Products                      | Series | Solid Color |            | Interior Colors (Two-Tone) |           |          | Exterior Colors (Two-Tone) |       |       |            |       |      |           |          |   |
|-------------------------------|--------|-------------|------------|----------------------------|-----------|----------|----------------------------|-------|-------|------------|-------|------|-----------|----------|---|
|                               |        | uPVC White  | uPVS Ivory | Lamination                 |           |          | uPVC CapStock              |       |       |            |       |      |           |          |   |
|                               |        |             |            | uPVC White                 | Light Oak | Dark Oak | Cherry                     | White | Ivory | Sandalwood | Brown | Gray | Sandstone | Laminate |   |
| 3 1/4" Casement               | 100    | ■           | ■          | ■                          | ■         | ■        | ■                          | ■     | ■     | ■          | ■     | ■    | ■         | ■        | ■ |
| 3 1/4" Awning                 | 125    | ■           | ■          | ■                          | ■         | ■        | ■                          | ■     | ■     | ■          | ■     | ■    | ■         | ■        | ■ |
| 3 1/4" L.P. Fixed             | 150    | ■           | ■          | ■                          | ■         | ■        | ■                          | ■     | ■     | ■          | ■     | ■    | ■         | ■        | ■ |
| 3 1/4" H.P. Fixed             | 175    | ■           | ■          | ■                          | ■         | ■        | ■                          | ■     | ■     | ■          | ■     | ■    | ■         | ■        | ■ |
| 3 1/4" Single Slider Tilt     | 200    | ■           | ■          | ■                          | ■         | ■        | ■                          | ■     | ■     | ■          | ■     | ■    | ■         | ■        | ■ |
| 3 1/4" Single Hung Tilt       | 201    | ■           | ■          | ■                          | ■         | ■        | ■                          | ■     | ■     | ■          | ■     | ■    | ■         | ■        | ■ |
| 3 1/4" Double Slider Tilt     | 250    | ■           | ■          | ■                          | ■         | ■        | ■                          | ■     | ■     | ■          | ■     | ■    | ■         | ■        | ■ |
| 3 1/4" Double Hung Tilt       | 251    | ■           | ■          | ■                          | ■         | ■        | ■                          | ■     | ■     | ■          | ■     | ■    | ■         | ■        | ■ |
| 4 1/2" Single Slider Lift Out | 300    | ■           | ■          | ■                          | ■         | ■        | ■                          | ■     | ■     | ■          | ■     | ■    | ■         | ■        | ■ |
| 3 1/4" Single Slider Lift Out | 325    | ■           | ■          | ■                          | ■         | ■        | ■                          | ■     | ■     | ■          | ■     | ■    | ■         | ■        | ■ |
| 4 1/2" Casement               | 400    | ■           | ■          | ■                          | ■         | ■        | ■                          | ■     | ■     | ■          | ■     | ■    | ■         | ■        | ■ |
| 4 1/2" Awning                 | 425    | ■           | ■          | ■                          | ■         | ■        | ■                          | ■     | ■     | ■          | ■     | ■    | ■         | ■        | ■ |
| 4 1/2" L.P. Fixed             | 450    | ■           | ■          | ■                          | ■         | ■        | ■                          | ■     | ■     | ■          | ■     | ■    | ■         | ■        | ■ |
| 4 1/2" H.P. Fixed             | 475    | ■           | ■          | ■                          | ■         | ■        | ■                          | ■     | ■     | ■          | ■     | ■    | ■         | ■        | ■ |
| 5 1/2" Sliding Patio Door     | 500    | ■           | ■          | ■                          | ■         | ■        | ■                          | ■     | ■     | ■          | ■     | ■    | ■         | ■        | ■ |



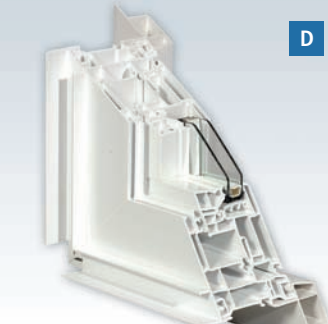
A



B



C



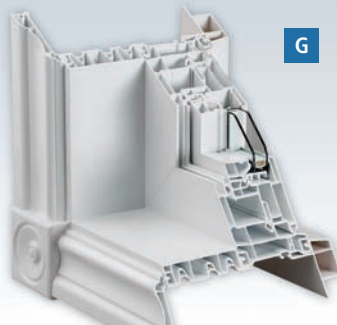
D



E



F



G



H

White

Ivory

Sandalwood

Brown

Gray



Exterior Colors



Interior Colors

White

Cherry

Light Oak

Dark Oak

# THERMAL PERFORMANCE RATINGS

# STRUCTURAL PERFORMANCE RATINGS

## Energy Star Compliance

The Energy Star program was developed by the U.S. Department of Energy and the U.S. Environmental Protection Agency to help identify energy-efficient choices for your home.

The Energy Star seal is only granted to products that demonstrate significant reduction in energy consumption in the home.

All Window City windows and doors meet or exceed U.S. and Canadian regulations to be considered Energy Star compliant.



| Products                      | Series | Glazing Type                    | R-Value | U-Factor | S.H.G.C | Visible Transmittance | Energy Rating (E.R.) |
|-------------------------------|--------|---------------------------------|---------|----------|---------|-----------------------|----------------------|
| 3 1/4" Casement               | 100    | Clear I.G.                      | 2.4     | 0.41     | 0.48    | 0.49                  | -16                  |
|                               |        | Low-E / Argon I.G.              | 3.4     | 0.29     | 0.45    | 0.45                  | -3                   |
|                               |        | Low-E <sup>2</sup> / Argon I.G. | 3.8     | 0.26     | 0.31    | 0.44                  | -9                   |
| 3 1/4" Awning                 | 125    | Clear I.G.                      | 2.4     | 0.41     | 0.45    | 0.45                  | -16                  |
|                               |        | Low-E / Argon I.G.              | 3.4     | 0.29     | 0.31    | 0.44                  | -3                   |
|                               |        | Low-E <sup>2</sup> / Argon I.G. | 3.8     | 0.44     | 0.57    | 0.60                  | -9                   |
| 3 1/4" L.P. Fixed             | 150    | Clear I.G.                      | 2.3     | 0.44     | 0.57    | 0.60                  | -14                  |
|                               |        | Low-E / Argon I.G.              | 3.3     | 0.30     | 0.53    | 0.55                  | -1                   |
|                               |        | Low-E <sup>2</sup> / Argon I.G. | 3.7     | 0.27     | 0.37    | 0.52                  | -7                   |
| 3 1/4" H.P. Fixed             | 175    | Clear I.G.                      | 2.3     | 0.44     | 0.57    | 0.60                  | -14                  |
|                               |        | Low-E / Argon I.G.              | 3.3     | 0.30     | 0.53    | 0.55                  | -1                   |
|                               |        | Low-E <sup>2</sup> / Argon I.G. | 3.7     | 0.27     | 0.37    | 0.52                  | -7                   |
| 3 1/4" Single Slider Tilt     | 200    | Clear I.G.                      | 2.1     | 0.47     | 0.57    | 0.60                  | -20                  |
|                               |        | Low-E / Argon I.G.              | 3.0     | 0.33     | 0.53    | 0.55                  | -5                   |
|                               |        | Low-E <sup>2</sup> / Argon      | 3.5     | 0.29     | 0.37    | 0.53                  | -14                  |
| 3 1/4" Single Hung Tilt       | 201    | Clear I.G.                      | 2.1     | 0.47     | 0.57    | 0.60                  | -20                  |
|                               |        | Low-E / Argon I.G.              | 3.0     | 0.33     | 0.53    | 0.55                  | -5                   |
|                               |        | Low-E <sup>2</sup> / Argon I.G. | 3.4     | 0.29     | 0.37    | 0.53                  | -14                  |
| 3 1/4" Double Slider Tilt     | 250    | Clear I.G.                      | 2.2     | 0.46     | 0.55    | 0.57                  | -19                  |
|                               |        | Low-E / Argon I.G.              | 3.1     | 0.32     | 0.52    | 0.53                  | -4                   |
|                               |        | Low-E <sup>2</sup> / Argon I.G. | 3.4     | 0.29     | 0.36    | 0.50                  | -12                  |
| 3 1/4" Double Hung Tilt       | 251    | Clear I.G.                      | 2.2     | 0.46     | 0.55    | 0.57                  | -19                  |
|                               |        | Low-E / Argon I.G.              | 3.1     | 0.32     | 0.52    | 0.53                  | -3                   |
|                               |        | Low-E <sup>2</sup> / Argon I.G. | 3.4     | 0.29     | 0.36    | 0.50                  | -11                  |
| 4 1/2" Single Slider Lift Out | 300    | Clear I.G.                      | 2.1     | 0.47     | 0.60    | 0.63                  | -15                  |
|                               |        | Low-E / Argon I.G.              | 3.0     | 0.32     | 0.56    | 0.58                  | 0                    |
|                               |        | Low-E <sup>2</sup> / Argon I.G. | 3.6     | 0.28     | 0.39    | 0.55                  | -7                   |
| 3 1/4" Single Slider Lift Out | 325    | Clear I.G.                      | 2.1     | 0.47     | 0.60    | 0.63                  | -15                  |
|                               |        | Low-E / Argon I.G.              | 3.0     | 0.32     | 0.56    | 0.58                  | 0                    |
|                               |        | Low-E <sup>2</sup> / Argon I.G. | 3.6     | 0.28     | 0.39    | 0.55                  | -7                   |
| 4 1/2" Casement               | 400    | Clear I.G.                      | 2.4     | 0.41     | 0.48    | 0.49                  | -16                  |
|                               |        | Low-E / Argon I.G.              | 3.4     | 0.29     | 0.45    | 0.45                  | -3                   |
|                               |        | Low-E <sup>2</sup> / Argon I.G. | 3.8     | 0.26     | 0.31    | 0.44                  | -9                   |
| 4 1/2" Awning                 | 425    | Clear I.G.                      | 2.4     | 0.41     | 0.48    | 0.49                  | -16                  |
|                               |        | Low-E / Argon I.G.              | 3.4     | 0.29     | 0.45    | 0.45                  | -3                   |
|                               |        | Low-E <sup>2</sup> / Argon I.G. | 3.8     | 0.26     | 0.31    | 0.44                  | -9                   |
| 4 1/2" L.P. Fixed             | 450    | Clear I.G.                      | 2.3     | 0.44     | 0.57    | 0.60                  | -14                  |
|                               |        | Low-E / Argon I.G.              | 3.3     | 0.30     | 0.53    | 0.55                  | 1                    |
|                               |        | Low-E <sup>2</sup> / Argon I.G. | 3.7     | 0.27     | 0.37    | 0.52                  | -7                   |
| 4 1/2" H.P. Fixed             | 475    | Clear I.G.                      | 2.3     | 0.44     | 0.57    | 0.60                  | -14                  |
|                               |        | Low-E / Argon I.G.              | 3.3     | 0.30     | 0.53    | 0.55                  | 1                    |
|                               |        | Low-E <sup>2</sup> / Argon I.G. | 3.7     | 0.27     | 0.37    | 0.52                  | -7                   |
| 5 1/2" Sliding Patio Door     | 500    | Clear I.G.                      | 2.2     | 0.45     | 0.58    | 0.60                  | -15                  |
|                               |        | Low-E / Argon I.G.              | 3.2     | 0.31     | 0.54    | 0.55                  | 0                    |
|                               |        | Low-E <sup>2</sup> / Argon I.G. | 3.6     | 0.28     | 0.37    | 0.53                  | -9                   |

## Canadian CSA-A440 Standard

The Canadian Standard Association(CSA) has established the CSA-A440 standard for window performance.

The testing measures the rate of a window's Air tightness, Water tightness, Wind resistance, Condensation resistance, Forced entry resistance and Ease of operation.

All Window City's products have been tested and meet or exceed the CSA-A440 requirements.



| Products                      | Series | Canadian CSA-A440-98 Window Standards |                 |                      |              |
|-------------------------------|--------|---------------------------------------|-----------------|----------------------|--------------|
|                               |        | Air Tightness                         | Water Tightness | Wind Load Resistance | Forced Entry |
| 3 1/4" Casement               | 100    | A3                                    | B7              | C5                   | 10           |
| 3 1/4" Awning                 | 125    | A3                                    | B7              | C5                   | 10           |
| 3 1/4" L.P. Fixed             | 150    | Fixed                                 | B7              | C4                   | N/A          |
| 3 1/4" H.P. Fixed             | 175    | Fixed                                 | B7              | C4                   | N/A          |
| 3 1/4" Single Slider Tilt     | 200    | A2/Fixed                              | B3              | C5                   | 10           |
| 3 1/4" Single Hung Tilt       | 201    | A2                                    | B3              | C5                   | 10           |
| 3 1/4" Double Slider Tilt     | 250    | A2                                    | B3              | C3                   | 10           |
| 3 1/4" Double Hung Tilt       | 251    | A3                                    | B5              | C3                   | 10           |
| 4 1/2" Single Slider Lift Out | 300    | A2/Fixed                              | B3              | C4                   | 10           |
| 3 1/4" Single Slider Lift Out | 325    | A2                                    | B3              | C4                   | 10           |
| 4 1/2" Casement               | 400    | A3                                    | B7              | C5                   | 10           |
| 4 1/2" Awning                 | 425    | A3                                    | B7              | C5                   | 10           |
| 4 1/2" L.P. Fixed             | 450    | Fixed                                 | B7              | C4                   | N/A          |
| 4 1/2" H.P. Fixed             | 475    | Fixed                                 | B7              | C4                   | N/A          |
| 5 1/2" Sliding Patio Door     | 500    | A3                                    | B3              | C2                   | 10           |

## U-Factor

A measurement of the amount of energy a material conducts. The lower the U-Factor, the greater the insulating effect, meaning the greater a window resists heat loss.

The benefit of windows equipped with lower U-Factor glass is keeping heat loss to a minimum in the cold winter months, giving you uncompromised energy savings. A rating of 0.35 or lower is considered a good U-Factor rating.

## Solar Heat Gain Co-efficient (SHGC)

Solar heat gain co-efficient is a measurement of the amount of solar radiation transmitted through a piece of glass or door material.

Southern climates can benefit from low solar heat gain co-efficient (SHGC) glass by reducing the absorption of UV rays coming through the window during the hot summer months. A great choice for dramatically keeping your air conditioning costs in check. An optimum SHGC rating is 0.40 or lower.

## Visible Light Transmittance (VT)

Visible transmission represents the fraction of visible spectrum light that is transmitted through glass in a window.

The higher visible transmission values are associated with more light being transmitted through the glass.

## R-Value

The resistance a material has to heat transference. The higher the value, the greater the insulating properties.

## Energy Ratings (ER)

A window's overall ER rating is based on three factors:

1. Solar heat gain.
2. Heat loss through frames, spacers and glass.
3. Air leakage.

Ratings are based on a positive and negative numerical system. Positive numbers represent heat gain in the summer months and negative numbers take into account the cooler winter season.

ER proximity to 0 represents better performance in colder climates.

## Standards Compliance

Most of Window City's products have been thoroughly inspected and tested to meet or exceed CAN-CSA-A440-98 and AAMA performance standards.



**A FULL SELECTION OF OUR GRILLES AND DIVIDED LITE OPTIONS > WINDOW CITY'S CUSTOMIZABLE GRILLE OPTIONS GIVE YOU THE FREEDOM TO ADD A WHOLE NEW DIMENSION TO YOUR HOME. OUR INTERNAL AND EXTERNAL GRILLE OPTIONS ARE AVAILABLE IN A MYRIAD OF PROFILES AND FINISHES.**

**True Divided Lites (TDL)**  
 TDL lites are assembled with individual insulated glass separated by 2 1/2" mounting bars, for true historical appearance. Only available in Casement and Fixed series. TDL lites are also available in matching window colors.

**Simulated Divided Lites (SDL)**  
 SDL lites allow more flexibility by providing the look of a divided lite while maintaining a single sealed unit. With either 1 1/2" flat or 1" contorted bars, your design options are endless. SDL lites are also available in matching window colors.

**Interior Grilles**  
 Totally maintenance-free, these grilles are inside the insulated glass. The several profiles, colors and styles available give you a perfect way to add an extra level of decorative detail and styling.

**Decorative and V-Groove**  
 Our decorative panels made up of leaded, beveled, grooved and tinted glass provide the ultimate architectural look. Caming options include brass or nickel plated, encased between two panes of glass.



**Grille Options**  
 Grilles can be color co-ordinated to match any window or door capstock of choice.

**Colonial Color Options**

**Solid Colors:**  
 White  Brass  
 Sandalwood  Pewter  
 Ivory

**Two-Tone:**  
 Brown  
 Sandalwood  
 Ivory  
 Gray

**Colonial**

**Georgian 11/16"**

**Solid Color:**  
 White

**Georgian 1"**

**Pencil**

**Solid Color:**  
 White  
 Brass  
 Pewter

**V-Groove**

**Etched:**  
 The V-grooves are etched in the glass.

**Colors:**  
 Brass Caming  
 Nickel Plated Caming



# Window City's Stellar Lifetime Transferable Warranty



## Non-Pro-Rated Lifetime Vinyl Warranty

Window City white vinyl windows are warranted against such defects in material and workmanship that might result in blistering, peeling, flaking, corroding or fading of the vinyl frames and such members within generally accepted industry standards, for long as you own your home. This warranty is transferable to purchasers of the home within 60 days of title transfer. All other claims are specifically excluded by the manufacturer. This vinyl warranty shall be null and void under the following conditions:

1. Material is damaged during handling or installation.
2. Harmful solvents or abrasive cleaners are used on the vinyl frame or sash members.
3. Only if normal cleaning practices are followed periodically.
4. Frame or sash members are painted or coated in any way.

## Lifetime Limited Warranty on Colored Windows and Truth Hardware Component Excluding Sash Balances

The above hardware components and colored windows are warranted for as long as you own your home, as set out in the following pro-rated schedule:

| Lapsed Time    | Window City | Owner |
|----------------|-------------|-------|
| Up to 20 years | 100%        | 0%    |
| Over 20 years  | 10%         | 90%   |

Window City will replace or repair at its sole discretion any hardware component proven to be defective, to the original dealer on a "No charge" basis. Labour to remove or reinstall is not covered under this warranty.

## Lifetime Limited Insulated Glass Warranty

Window City warrants that the insulated glass window units with warm edge technology are covered by a limited lifetime warranty against sealed unit failure, as set out in the following pro-rated schedule; and the windows will conform to federal specifications for insulating glass units:

| Lapsed Time    | Window City | Owner |
|----------------|-------------|-------|
| Up to 20 years | 100%        | 0%    |
| Over 20 years  | 10%         | 90%   |

## Window City Warm Edge

This warranty shall be null & void under the following conditions.

1. If the unit is damaged in handling or installation.
2. If the unit is subject to undue stress resulting from localised heat temperature differentials causing excessive temperature differentials or from excessive movement or vibration.

## Sliding Patio Doors

1. Vinyl frame as per vinyl windows
2. Glass warranty
3. All hardware and components made by manufacturers other than Window City are limited to the terms and conditions stipulated by those manufacturers.

## Product Use

This limited warranty applies only in respect of products used strictly for the purpose for which they were intended.

## Limited Warranty Limitations

Window City's liability applies solely and exclusively for repair or replacement, at the option of Window City. Under no circumstances will Window City be liable for incidental or consequential charges such as, but not limited to, labour costs for any purpose, inconvenience, damage or injury to persons or to property or any other expense.

## Replacement Parts and Repair

Window City reserves the right to discontinue or change any vinyl window currently manufactured. If Window City determines to make a replacement under the terms of this limited warranty, and exact replacement parts are not available, Window City reserves the right to substitute a part or parts of equal quality at its own option.

## Exclusions From This Limited Warranty

The following are excluded from coverage under this limited warranty:

- A. The limited warranty stipulated in this document is the only warranty applicable in whole or in part, and is granted in lieu of any warranties written or oral otherwise implied by law or equity; and no such warranties shall apply to Window City.
- B. Exposure to sunlight, air pollutants and normal atmosphere conditions may cause all vinyl surfaces to gradually fade, chalk or suffer an accumulation of surface dirt or stains. These are normal occurrences and are not covered under Window City's limited warranty.
- C. Any defect, malfunction or failure to perform which has occurred because of unreasonable use or necessary maintenance.
- D. Any damage to the window or components thereof caused by settlement or structural defects of the building in which they are installed.
- E. Any damage caused by wind, hail, lightning or other acts of God, international acts, accident, negligence or exposure to harmful chemical or pollutants.
- F. Broken glass or torn screen from any cause.
- G. Damage caused by improper handling or installation.
- H. Any window which has been repaired or modified or attempted to have been repaired or modified by any person other than a duly authorised representative of Window City.
- I. Condensation on windows, which may occur as the natural result of humidity within the house or building area and changes in outside/inside temperatures, does not indicate a manufacturing defect and would not be included in this limited warranty.





**CANADA:**

Window City Industries Inc.  
Vaughan, Ontario  
T 1.800.382.5020

**UNITED STATES:**

Window City Industries Inc.  
Buffalo, New York  
T 1.866.333.3047

[info@windocity.com](mailto:info@windocity.com)

W W W . W I N D O C I T Y . C O M

Window City Dealer: