



ARMOR[®]
WINDOWS & DOORS

THE ULTIMATE IN
WINDOWS AND DOORS,
BECAUSE YOUR HOME DESERVES THE BEST.

www.armorseries.com

A division of :



ARMOR[®]
WINDOWS & DOORS





THERE'S A REASON SOME OF CANADA'S BEST-DRESSED HOMES WEAR ARMOR

Armor® makes no ordinary vinyl window... We demand perfection of ourselves to bring you extraordinary results in a vinyl window you can trust and rely on for the ultimate in home comfort.



HISTORY

Time-tested products from a reputed Canadian company

At Armor®, we've built our reputation the hard way: we've earned it over the 30-plus years we've been in business. At our engineering and manufacturing facility in Vaughan, Ontario, Armor® has perfected a process designed to provide Canadian homeowners with a high quality, reliable, tested and proven vinyl window that is second to none.

Our experience, expertise and meticulous methods allow us to build windows that outperform those of our competitors under even the most severe weather conditions. Armor® provides the most comprehensive warranty available in the industry, assuring you, the home owner, a lifetime of enjoyment out of your windows.



PERFORMANCE

Constant innovation and attention to detail

Every Armor® window is custom built, tailored to the exact requirements of your home and designed to perform under the most severe weather conditions.

Armor® is at the forefront of new technologies. Every component that goes into our windows is carefully selected to ensure they deliver added value and work flawlessly under extreme conditions.

Our skilled team of window technicians prides itself on a stringent quality control process with over 100 checkpoints and careful attention to detail. This is why we can offer one of the most comprehensive warranties in the industry. Perhaps the best compliment is the fact Armor® Platinum Series Windows have earned CSA Certification and meet or exceed ENERGY STAR® specifications.



STYLE

A great-looking window which you will be proud to own

Armor® windows aren't only high-performance, they are also pleasing to the eye. Aesthetics is an important (and often, ignored) element of windows. At Armor®, we are aware how much a window can add to the curb appeal of a home.

Our state-of-the-art facility enables Armor® to provide you a window custom fit for your home. Each Armor® window is manufactured to your specific requirements.

Our seamless process has been developed with multiple manual and automated checkpoints to ensure the highest quality window is produced for your home as well as delivered on time.

10 KEY REASONS ARMOR® MANUFACTURES A BETTER WINDOW

It's the technology and components you don't see which make the real difference.

Armor's advanced LoE glass coating translates into lower energy bills and increased comfort

GLASS PERFORMANCE							
Type of Glass	Visible Light Transmittance	Solar Heat Gain Coefficient	R-Value	U-Value	Ultraviolet	Fade Factor %	ER Rating (Argon)
	↑ Higher # better	↓ Lower # better	↑ Higher # better	↓ Lower # better	↓ Lower % better	↓ Lower # better	↑ Higher # better
Single-pane, Clear	90%	0.86	0.96	1.04 / --	71%	84%	--
Double-pane, Clear	81%	0.76	2.08	0.48 / --	56%	74%	18
Ordinary LoE	75%	0.72	3.23	0.31	44%	63%	27
Double-pane, WeatherTech®E-179	79%	0.70	3.57	0.28	24%	61%	31
Double-pane, WeatherTech®2-272	72%	0.41	4.00	0.25	16%	55%	20
Double-pane, WeatherTech®3-366	66%	0.27	4.16	0.24	5%	43%	16
Triple-pane, WeatherTech®E-179	69%	0.57	6.67	0.15	10%	48%	36
Triple-pane, WeatherTech®3-366	47%	0.248	7.35	0.136	<1%	16%	19 (Krypton)

1 Better Performance The WeatherTech® Glass Advantage

WEATHERTECH® E (The Energy Glass)

Specially formulated for cold weather climates, WeatherTech® E provides the highest solar heat gain and visible light during cold winter days and keeps your heat in during the cold winter nights, reducing your energy costs and increasing your comfort. If you would like a glass that lets the most solar heat pass into your home in the winter, this is the glass for you.

WEATHERTECH® 2 (The Total Comfort Glass)

Specially formulated for cold weather climates, WeatherTech® E provides the highest solar heat gain and visible light during cold winter days and keeps your heat in during the cold winter nights, reducing your energy costs and increasing your comfort. If you would like a glass that lets the most solar heat pass into your home in the winter, this is the glass for you.

WEATHERTECH 3® (The Ultimate Comfort Glass)

Three insulating coatings provide year-round performance with the highest degree of solar control possible. In the summer, the special coating on the glass is formulated to block solar heat so you do not have to close your blinds or turn up your air conditioning to make your home more comfortable. In the winter, the low emissivity coating on the glass keeps heat from escaping, reducing thermal discomfort to the lowest level possible, saving you money. If you would like the ultimate comfort and highest fade protection possible, this is the glass for you.

Double-pane WeatherTech® E

ER 31 • R 3.6 • UV .28
Comfort Factor: Winter 68% Summer 80%

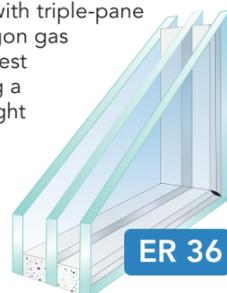
WeatherTech® E coating with argon fill can increase the insulating capacity of the glass! Radiation transfer, which accounts for 66% of the glass heat loss, can be significantly reduced when a low-emittance coating is applied.



Triple-pane WeatherTech® E

ER 36 • R 6.67 • UV .15
Comfort Factor: Winter 71% Summer 71%

WeatherTech® E with triple-pane glass and with argon gas provides our highest ER value, allowing a high level of sunlight while blocking harmful and damaging ultraviolet rays.



Triple-pane WeatherTech 3®

ER 19 • R 7.35 • UV .136
Comfort Factor: Winter 73% Summer 87%

WeatherTech 3® with triple-pane glass and krypton gas can triple the insulating capacity of two-pane glass, delivering our highest R-value of 7.35.



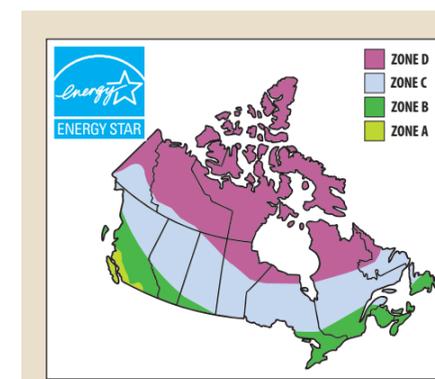
WHATEVER THE WEATHER, WE'VE GOT YOU COVERED

Standard glass will permit your home to gain heat in the summer and lose heat in the winter, making energy consumption less efficient and expensive. Armor® adds a LoE (low emissivity) coating to improve the insulating value of your windows by nearly 40%. Our WeatherTech® glass is produced with a patented LoE coating technology which filters out heat from the sun in the summer and allows the sun's natural energy in during the winter. The result: •Year-round comfort.

Window condensation is a problem that not only obstructs visibility but can stain and deteriorate window finishes. This can create a breeding ground for mould, mildew and other allergens. Condensation occurs when the moisture present in the air inside your home changes from vapour to water on contact with a colder window surface. Armor's LoE coating helps to increase the interior temperature of the glass, thus increasing resistance to condensation.

In winter, the higher the indoor glass temperature of your window, the greater your comfort. A LoE treated window will feel warmer to the touch because it prevents interior heat from escaping by reflecting it back into the room.

In summer, LoE glass filters out the heat from the sun, helping to keep your home cooler.



All Armor® Platinum Series Windows are ENERGY STAR® Certified.

Zone	Maximum U-Value (W/m²•K)	Maximum U-Value (Btu/h•ft²•°F)	Minimum R-Value (ft²•h•°F/Btu)
A	2.00	0.35	2.9
B	1.80	0.32	3.2
C	1.60	0.28	3.6
D	1.40	0.25	4.0

How Armor's LoE glass works its magic

The heat generated inside your home is known as long wave radiation. This type of useful radiation should be contained in each room as best as possible, while UV rays and other unwanted radiation from the sun should be shielded and reflected back outside. Armor's LoE glass achieves this by significantly improving the insulating value of your windows.

COMFORTABLE LIVING

*Improve your comfort level
with a quieter, dryer, warmer, more efficient window.*



2 Advanced non-metal spacer for greater comfort

A spacer is the component that separates and seals layers of glass. Its purpose is to insulate your windows and help maintain an ideal temperature inside your home.

Our AdvanceEdge® Spacer Technology is made of the world's finest 100% polymer foam, non-metal technology. The foam matrix is breathable and works fast to absorb moisture and reduce condensation. Our spacers outperform those from our competitors in the industry's toughest durability tests – lasting a simulated 90 years!*

OTHER MAJOR BENEFITS OF ADVANCE EDGE® TECHNOLOGY

Quieter home

The durable acrylic bond reduces sound transfer by up to 18%.

Durable

Outperforms metal spacers against wind, temperature fluctuations, rain, snow and UV light.

Reduces Condensation

Warmer inside glass temperature reduces condensation which can lead to mould and mildew.

Keeps warmth in

Superior all-foam construction blocks heat inside the home from escaping.

AdvanceEdge
SPACER TECHNOLOGY



• The AdvanceEdge Spacer uses no metal and can last an estimated 90 years

*SOURCE: EDGETECH

3 Specially-formulated lead-free vinyl for a superior, long-lasting finish

Armor® Series windows are constructed using an exclusive and specially formulated P.V.C. called Polyresin 3®. Polyresin 3® is manufactured from virgin vinyl to ensure a superior product that is colour-fast, lead free, durable and mildew-resistant. Polyresin 3® is engineered for North American climates. Polyresin 3® has superior weathering capabilities and impact resistance. **It will not warp, crack or peel and it's guaranteed to lower your energy costs year round.**

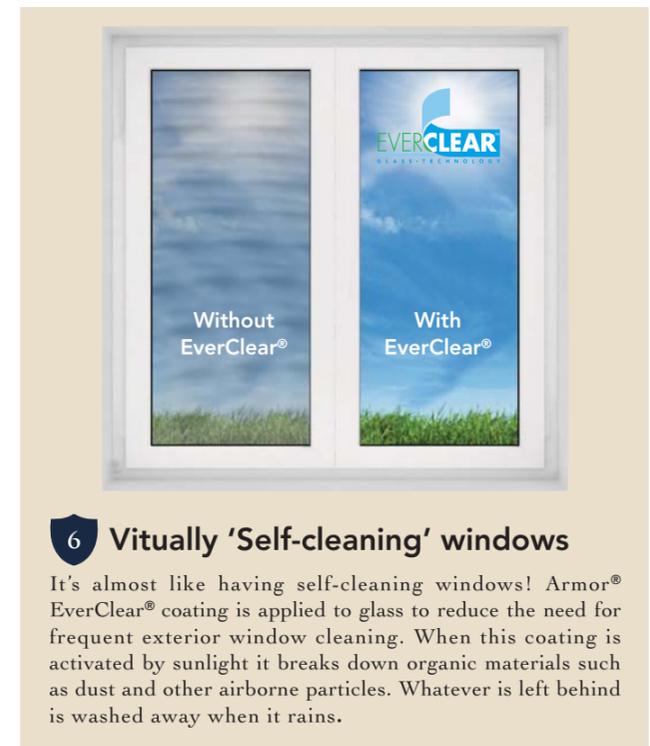
4 Gas-enhanced double-pane glass ensures superior insulation

In order to maintain and reduce the transfer rate of heat and cold, Armor® uses a technology that involves filling the spaces between panes of glass with safe, odourless and colourless gases, like Argon and Krypton which are heavier than inside and outside air blocking the escape or entry of air on both sides.

Retaining the gas in place is important to ensuring superior insulation. Armor® windows utilize a superior sealant which keeps gas from escaping. Our tests show Armor® windows lose less than one-third of 1% per year.

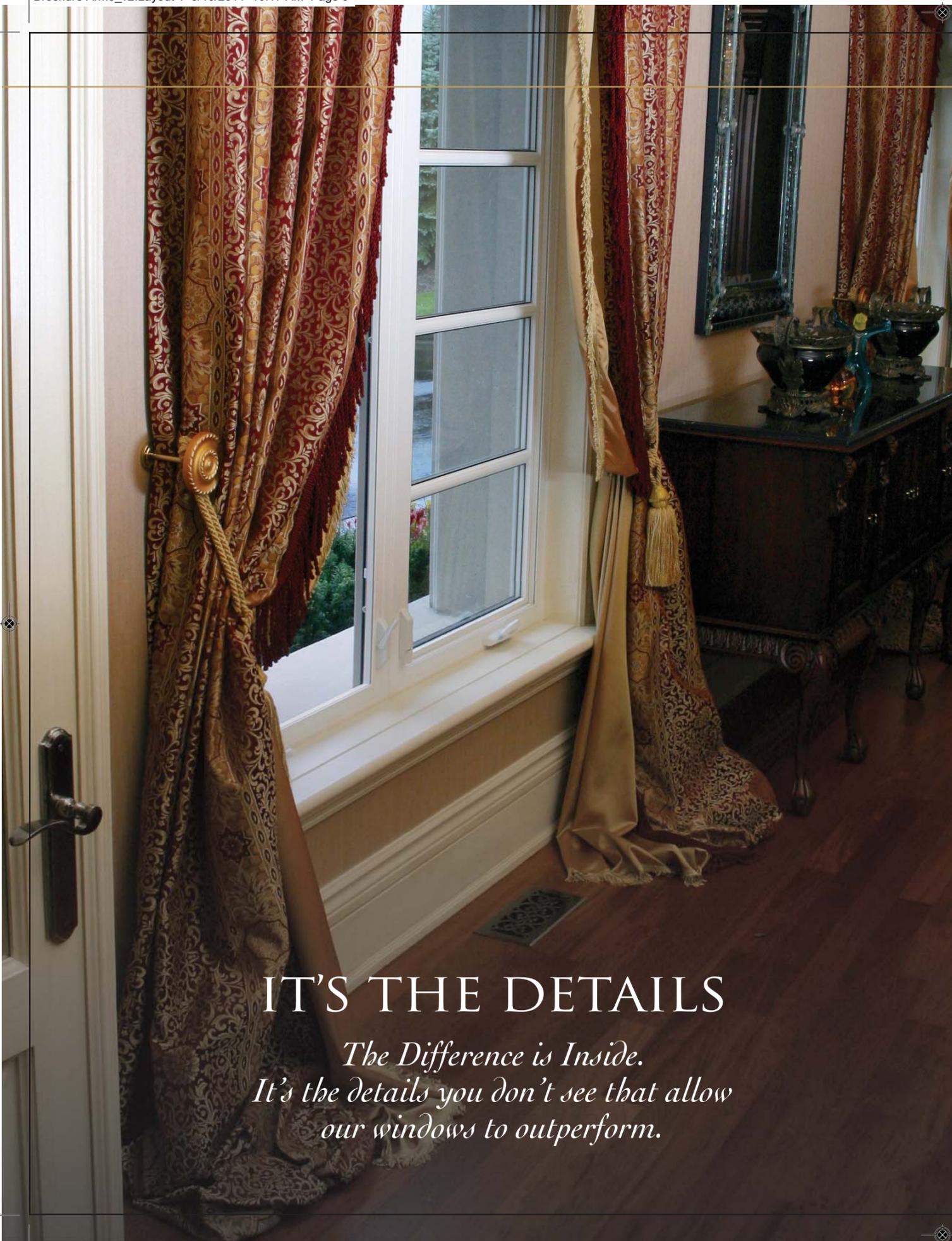
5 Triple weather seals virtually eliminate air infiltration

Bulb seals are built into the frame providing maximum seal performance. Santoprene Bulb Seals – in combination with rich pile weather-stripping virtually eliminate air infiltration.



6 Virtually 'Self-cleaning' windows

It's almost like having self-cleaning windows! Armor® EverClear® coating is applied to glass to reduce the need for frequent exterior window cleaning. When this coating is activated by sunlight it breaks down organic materials such as dust and other airborne particles. Whatever is left behind is washed away when it rains.



IT'S THE DETAILS

*The Difference is Inside.
It's the details you don't see that allow
our windows to outperform.*



7 Multi-chamber design helps prevent mould and mildew

Armor's advanced frame construction is engineered to allow for a multi-chamber vinyl frame which draws any moisture away from the window to the drains reducing condensation and the formation of mould and mildew.

- The drains are concealed in the sash

8 Premium hardware for worry-free operation

Armor® Platinum Series windows incorporate the best standard features in the industry. Our windows are equipped with quality hardware and weather-stripping.



9 Fusion-welded sash and frame

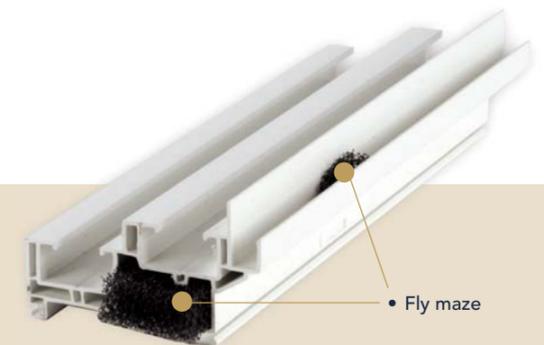
Both sash and frame are precision-mitred and welded simultaneously using the latest technology - which heats the vinyl and then under pressure, fits the vinyl members together forming a super strong weld.

- Fusion welded sash
- Fusion welded frame

- Premium Hardware

10 Fly maze keeps insects out

Our proprietary fly maze design incorporates an invisible sponge-like material into our multi-chamber vinyl frame. This eliminates any possibility of insects entering into your home through drainage openings.



- Fly maze

CURB APPEAL

Armor® windows will add style to your home.



Shown with premium hardware

Casement Windows



A Casement window operates the same way as a door and swings open to provide superior ventilation and are operated by a crank handle. Casement windows can open from the left or right side.



Standard Features:

- 1 Multipoint locking hardware
- 2 Truth Maxim™ hardware with fold away handle
- 3 Full push-down screen with overlapping frame
- 4 Triple Weather Seals
- 5 Sash Keeper
- 6 Internal Drainage System
- 7 Interior Laminates (optional)



Shown with 5/16" x 1/4" Grill Square pattern

Double Hung Windows



A double-hung window has two sashes, a top and bottom sash, which move up and down to operate and pivot towards the interior for ease of cleaning and maintenance.



Standard Features:

- 1 Self-Closing Locks
- 2 Constant Force Balancers
- 3 Finger latches
- 4 Dual interlocking rails between upper and lower sash
- 5 Pocket Sill
- 6 Drainage Flaps
- 7 Full Screen With Overlapping Frame



Shown with Polished Brass 5/8" x 1/4" Prairie Design Grill

Also available as an Awning window

which operates much like a Casement window, it too opens by cranking a handle that pushes the bottom of the sash out allowing air ventilation, while keeping rain water away.



Shown with Pewter 5/16" x 1/4" Prairie Design Grill

Also available in a Single-Hung window

with a single stationary sash and another sash which moves up and down and can tilt into the room for ease of cleaning and maintenance. Includes a screen that covers half of the window.

MIX AND MATCH

Fixed windows open up endless possibilities.



Shown with 1 1/4" • SDL External Grill

High Profile Fixed



Fixed windows do not open. They are installed in conjunction with casements/awnings or alone. Also used in bay/bow configurations to achieve high quality esthetics.

Standard Features:

- 1 Sash Frame construction
- 2 Used in Combination Windows
- 3 Internal drainage system
- 4 Matches Casement and Awning profiles



Hidden drain slots, no exterior slots



Also available as Custom Shapes

Custom shape windows are specialty windows with curved shapes or angles other than 90 degrees, in a variety of shape configurations to create unique, artistic designs.

Shown with White Pencil Grill - Prairie Design and standard self closing locks

Double Tilt Slider



A sliding window offers an energy efficient option to traditional casement and awning windows. A Double Tilt Slider has two sashes that move sideways. Includes a screen which covers the full glass area. Both sashes tilt into the room for ease of cleaning and maintenance.

Standard Features:

- 1 Self-closing locks
- 2 Full Pull Rail
- 3 Full Screen with Overlapping Frame
- 4 Finger latches
- 5 Drainage flaps
- 6 Stainless steel pivot shoe
- 7 Security Latches

Also available in a Single Tilt Slider

with a single stationary sash and another sash which moves side to side and can tilt into the room for ease of cleaning and maintenance. Includes a screen that covers half of the window.



Also available in a Single Lift-Out Slider

with a single stationary sash and another sash that moves side to side and can lift out for ease of cleaning and maintenance. Includes a screen that covers half of the window.

Double Lift-Out Slider



Low-maintenance slider windows offer a lift-out sash combined with durable, sliding sashes with both sashes sliding for maximum ventilation. All Armor® Series slider windows combine great looks and excellent efficiency requiring virtually no ongoing maintenance.

Standard Features:

- 1 Self-closing locks
- 2 Full Pull Rail
- 3 Full Screen with Overlapping Frame
- 4 Finger latches
- 5 Drainage flaps
- 6 Lift-Out Sashes
- 7 Security Latches



Shown with White Pencil Grill - Prairie Design and standard self closing locks

A NEW DIMENSION

Bay and bow windows can create the illusion of extra space.



Features:

- ❶ Choice of different wood finishes (optional)
- ❷ Insulated head & seat (optional)
- ❸ Factory assembled, ready to install

Bay Windows

Bay windows typically consist of a large window between two double hung or casement windows joined together to form one large viewing area. These are a decorative type of window that projects outward from the wall. It's common to see a bay window with a padded seating area to provide a comfortable place to enjoy views, otherwise known as a sit-down bay.

BAY AND BOW WINDOWS: ADDITIONAL FEATURES



Foam Filled Couplers for Added Insulation. All of our couplers are filled with expansion foam to allow for added insulation which prevents any air leakage through the joints.



Fully Assembled, Factory Finished on the Inside. No on-site assembly required as our bay and bow windows are fully assembled, allowing for a better insulated, more secure window to be installed.



Custom Projections.

Armor® Series offers a variety of different couplers for varying the angle and the exterior projection of your window so you can choose from a number of different sizes that best suits the style of your home.

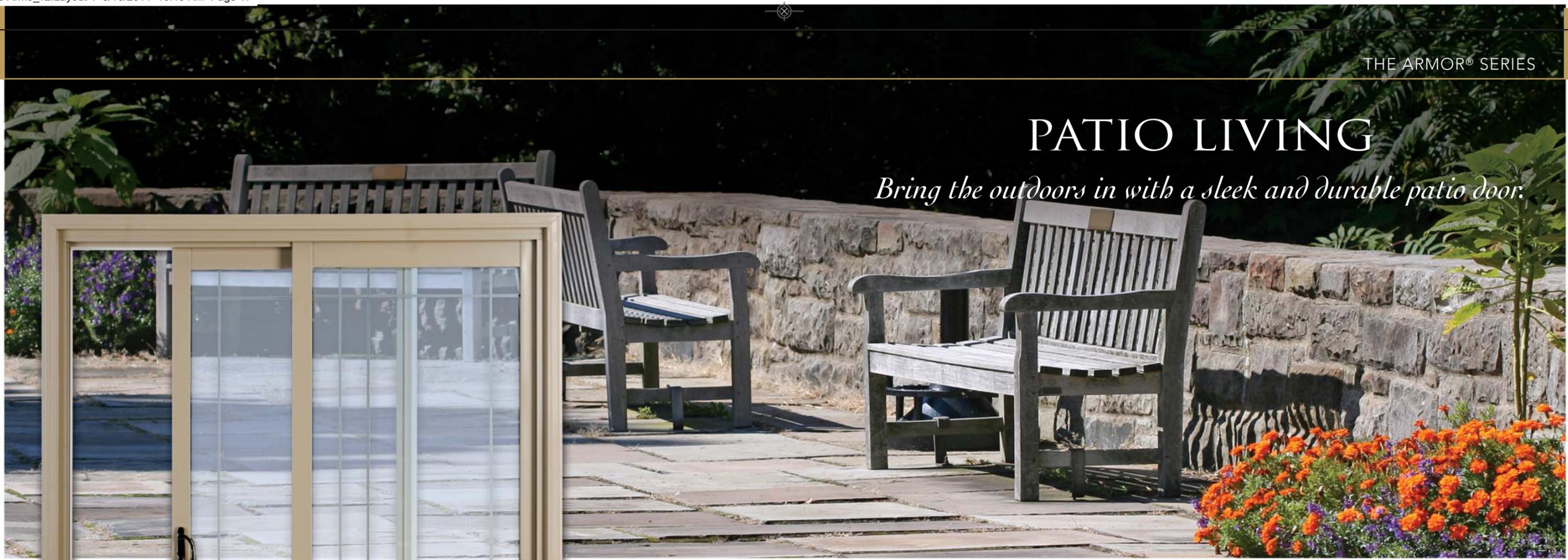


Greenhouse Windows

Armor® Greenhouse windows protrude outward from the home, allowing more light. Great for seedlings and high-maintenance plants, these windows can feature shelving on multiple levels to maximize space. They can also feature an awning-style top with a crank and pole to allow airflow from the outside without having to reach. They're economical and built to last.

- Venting options available
- Insulated seat with drainage
- Reinforced vinyl and aluminum frame
- Heavy-duty scissor-action roof hardware
- Glass shelving for extra space

- Full screen with overlapping frame
- Hinged roof
- Crank hardware
- Lever lock
- Outside colour

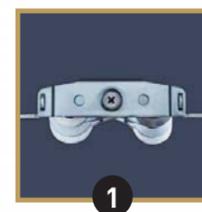


PATIO LIVING

Bring the outdoors in with a sleek and durable patio door.



Shown with 5/16" x 1/4" Pewter Flat Bar Prairie Style Grill



Patio Doors



Armor® Series patio doors feature a sleek appearance, durability and precision engineering. Measuring beyond today's standards, an Armor® patio door will add that finishing touch to any home renovation.

Standard Features:

- 1 Heavy duty self-lubricating tandem rollers
- 2 Outstanding strength
- 3 Bumper bracket
- 4 Available in both standard and custom sizes
- 5 Reinforced sashes
- 6 Durable high-quality twin point lock
- 7 Anodized aluminum
- 8 Internal drainage system

ADDITIONAL PATIO DOOR OPTIONS



Kick-lock



Security bar



Built-in miniblinds



Variety of handle options, including Brushed Nickel, Brass and White

Standard and Custom Sizes Available

Whether you require a standard or custom sized patio door, Armor® manufactures each individual door under the same standards of superior quality. Backed by a 10 year limited warranty, select from a variety of designs that will best suit your home for years to come.

FINISHING TOUCHES

Add internal or external grill accents for a perfect finish.

Colours

Custom, fade-resistant colours that can match any décor

All our window frames and grills are available in eight beautiful pre-selected Solar-Bond™ colours. We can also custom colour match any existing decor colour or exterior to suit your individual needs. Our standard polyurethane acrylic paint finishes are weather and fade-resistant and come with a 15 year Solar-Bond™ Exterior Colour Warranty.



Interior Grills

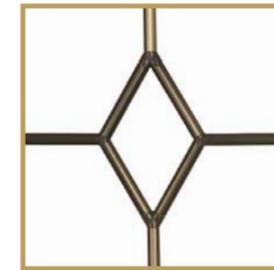
Square Grills / Pencil Grills

Armor® Series Square or Pencil Grills add a modern architectural feature to any window and can be custom designed to suit any decor. The grills are available in a variety of colours.

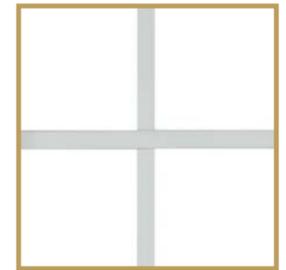
With more than 1,000,000 configurations available, Armor® is sure to provide the style and design which suits your needs.



Polished Brass Square Grill



Pewter Pencil Grill
(Hard Coat Only)



White Square Grill

Georgian Grills

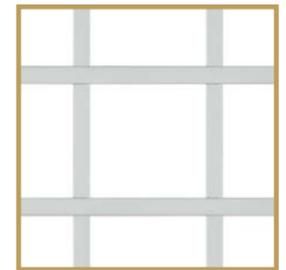
Georgian Grills add character to any house and are installed between the glass panes for a completely maintenance free application. Our Georgian Grills come standard in white as well as a variety of custom colours to match the window frame.



Pewter Curved Square Grill



Pewter Square Grill



White Square Grill

Exterior Grills

External

External grills give the illusion of individual paned panels without compromising on thermal energy efficiency. Each one is professionally installed seamlessly with the frame and available in a variety of thicknesses, sizes and colours.

Architectural

Custom manufactured to your style, these bent grills give the illusion of custom shaped windows through the use of our external grill options. Designed for easy window cleaning without having to remove the grill, our bent grills add a unique architectural detail to your home.



ACCESSORIZE

Customize your interior options to match your decor.

Glass Options

Add a unique element to any window with Armor's specialty glass options. From eye-catching patterns to subtle accents, Armor® Series windows develop their own personality. The glass is available in various styles and colours. Our glass is also available in Grey, Bronze and laminated Security glass.

Accessories

Casings

Add the finishing touch to your windows with custom interior casings made to fit every window in your home. Available in: Primed Wood and Select Pine, Poplar or Oak. Other options include vinyl casings, bent wood casings, or even add a decorative rosette to your vinyl casing for that personal touch.



Wood Jamb Extensions

Customize your window's interior with Wood Jamb Extensions. Available in a range of sizes and wood types such as: Primed Wood, Select Pine, Poplar, Oak and PVC-Wrapped Wood.



Vinyl Jamb Extensions

Available in four different sizes, our interior PVC Jamb Extensions are maintenance free and will last a lifetime.



Brickmolds

For brick to brick installation, choose from a variety of brick molds, serving as an esthetic boundary between the brick and the frame of the window. Also available for homes with siding.



Glass options not shown above include: bronze, gray and laminated security glass.

SETTING HIGHER STANDARDS

Armor® Series windows meet or exceed North American standard requirements for air tightness, wind-load resistance, water penetration and forced-entry prevention. We take our ratings seriously. Armor® complies with the following organizations to ensure all vinyl window products are manufactured with these regulations in mind.

ENERGY STAR®



The International ENERGY STAR® symbol is a simple way for consumers to identify products that are among the most energy-efficient on the market. Only manufacturers and retailers whose products meet the ENERGY STAR® criteria can call their product ENERGY STAR®.

CSA



The Canadian Standards Association (CSA) wants to assure you products are safe. CSA is a membership-based non-profit organization that develops safety standards, provides product testing and certification services and disseminates information on a variety of topics. CSA also audits plants on a regular basis to ensure compliance in the following areas: (A) Air Tightness; (B) Water Tightness; (C) Wind-Load Resistance; (F) Forced-Entry Resistance; (S/E) Screen Strength/Ease of Operation.

Armor® accepts nothing less than the highest standard of CSA Certification for our Armor® Platinum Series Windows. Within each CSA Certification rating standards we consistently achieve the highest possible ratings. Many of our competitors are only CSA compliant, approved or tested, which requires less rigorous testing done only at a lab. To be CSA Certified, our Armor® Platinum Series Windows are subject to additional tests involving random audits at our own manufacturing facility performed by CSA inspectors testing selections to ensure that they have been manufactured using the same process and parts as the windows tested at the CSA lab.



PEACE OF MIND FOR A LIFETIME



For more than 50 years, we have stood behind our commitment to provide only the finest materials and workmanship in every Armor® Series product. We back that promise with our exclusive Transferable Lifetime Warranty.

THE ARMOR® GUARANTEE INCLUDES

- Lifetime Warranty on White Vinyl Frame and Vinyl Sash Members
- Lifetime Warranty on Insulating Glass
- Lifetime Warranty on Hardware
- 15-Year Warranty on Solar Bond™ Paint Standard Colours
- Five-Year Limited Warranty on Glass Breakage
- Not prorated
- No charge transfer fee

For more details, speak to your authorized Armor® Dealer or visit armorseries.com



Nobody is as committed to providing flawless products as Armor®. Due to this relentless pursuit of perfection, not only is every Armor® Platinum Series Window guaranteed for a lifetime and CSA Certified (see pg. 23), we also offer our zero defect commitment. This means you will never purchase a faulty project or we will replace it immediately - guaranteed.

UNDERSTANDING WHAT THE NUMBERS MEAN

ENERGY STAR® Zone - The Area within North America that the window has been rated for testing.

U Factor - Measures how well a product prevents heat from escaping. The rate of heat loss is indicated in terms of the U factor (U Value) of a window assembly. U factor ratings generally fall between 0.20 and 1.20. The lower the U factor, the lower the heat loss.

R-Value - (Thermal Resistance) - A measure of resistance to heat flow; a higher value indicates a better heat insulating property. The R-value of an ordinary single-pane sash with a 15 mph wind on one side is about 0.9, which is the inverse of the U - Value.

Solar Heat Gain Co-efficient - (SHGC) measures how well a product blocks heat caused by sunlight. The SHGC is the fraction of incident solar radiation admitted through a window, both directly transmitted and absorbed and subsequently released inward. SHGC is expressed as a number between 0 and 1. The lower a window's SHGC, the less solar heat is transmitted.

Energy Rating (ER) - an overall measure of the window's energy performance, the higher the number the better the performance.