

ENERGY CREATION

ALUMINUM WINDOWS & DOORS



HEAVY-DUTY STRUCTURE. ELITE THERMAL INNOVATION.

UNMATCHED PROJECT VALUE.



BUILT STRONG

Engineered for
Long-Term Performance



THERMAL EFFICIENCY

Advanced Insulation
for All Climates



PREMIUM ALUMINUM SYSTEMS

Stylish, Durable,
Low Maintenance



TRUSTED BY PROFESSIONALS

Delivering Value
on Every Project



ENERGY CREATION
WINDOWS & DOORS



OUR WINDOW & DOOR COLLECTION

WINDOWS

FIXED
TILT & TURN
CASEMENT
AWNING
SLIDING

DOORS

SWING
SLIDING

THE ENERGY CREATION ADVANTAGE

Elite Thermal Performance & Energy Efficiency

- ✓ **0.19 U-Factor:** Highly insulated, ultra-efficient thermal boundary.
- ✓ **Advanced Glazing:** High-performance triple-pane windows and sliding systems.
- ✓ **90% Argon Fill:** Standardized gas insulation combined with multi-grade Low-E coatings.
- ✓ **Solar Control:** Exceptional 0.13 to 0.31 SHGC range completely eliminates solar overheating.
- ✓ **66 CR Rating:** Premium condensation resistance maintained across the entire product lineup.

Premium Frame Engineering

- ✓ **Structural Aluminum:** Premium alloy maximizing structural stability with slim architectural sightlines.
- ✓ **PA66 Thermal Break:** Wide, glass fibre reinforced hollow core nylon thermal break eliminates thermal bridging.
- ✓ **Warm Edge Spacers:** Premium warm-edge technology protects perimeter insulation.
- ✓ **200+ Custom Finishes:** Black or white mix and match standard powder coats and over 200 custom architectural colors.

Where Heavy-Duty Structural Integrity Meets Elite Thermal Innovation—Without the Premium Price Tag.

ZERO
MAINTENANCE
ENERGY CREATION
POWDER-COATED
WINDOWS AND
DOORS

Heavy-Duty Structural & Weather Resilience

- ✓ **Airtight Performance:** Restricts air leakage to an exceptional 0.0 to 0.12 L/s·m².
- ✓ **730 Pa+ Water Resistance:** Engineered to withstand severe coastal climates and high-exposure weather.
- ✓ **±2400 Pa Design Pressure:** Heavy commercial rating engineered to outperform the competition under extreme structural loads.
- ✓ **40-Year EPDM Seals:** Commercial-grade seal longevity designed to resist hardest environmental wear.

Advanced Hardware & Security

- ✓ **Multi-Point Locking:** Up to 12 robust locking points ensure airtight compression and rigidity.
- ✓ **Grade 20 Security:** Achieves the highest market standard for forced-entry resistance.
- ✓ **Endurance Tested:** Premium proprietary hardware passed 250,000 door cycles and 100,000 window cycles testing with no defects.

Because our premium windows and doors are built to outperform and rigorously certified to NAFS, CSA A440-22, and NFRC 100 standards, we proudly deliver ultimate project peace of mind with up to lifetime frame coverage and 20-year glass and seal protection.



FIXED WINDOW



FIXED WINDOW FEATURES

GLASS

6 mm triple-pane tempered glass, with optional advanced security film
Low E / Argon in-fill and dry glazing

SPACER

Warm edge spacers available in
black or silver finish
Filled with molecular sieve
drying agent

SEAL

5 mm x 10 mm exterior / interior
glazing cap seals

FRAME

PA66 + Glass Fiber Reinforced
thermal break
Powder coated colors as
standard
Insulated

SIMULATED DIVIDED LITES (SDL)

Selectable interior or exterior
profile options



INTERNAL GLAZING

Internally glazed windows deliver a refined,
slim profile without compromising on
superior security.



PICTURE WINDOWS

Maximized glass areas engineered for
exceptional airtightness and thermal
efficiency, offering expansive, unobstructed
views.



TILT & TURN WINDOW



TILT & TURN WINDOW FEATURES

GLASS

6 mm triple pane tempered glass, with optional advanced security film
Low E / Argon in-fill and dry glazing

SPACER_y

Warm edge spacers available in black or silver finish
Filled with molecular sieve drying agent

SEAL

34 mm x 22 mm primary EPDM* seal
2 - 6 mm x 5 mm secondary EPDM seals
5 mm x 10 mm exterior / interior glazing cap seals

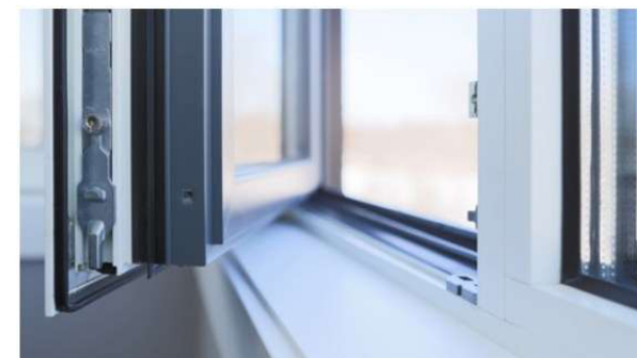
*EPDM is a synthetic rubber compound with an operating temperature range of -50°C to +150°C and a 40+ year lifespan.

FRAME

PA66 + Glass Fiber Reinforced thermal break
Powder coated colors as standard
Insulated

HARDWARE

Premium grade, precision-manufactured proprietary hardware - providing total peace of mind for window operations



MULTI-POINT LOCKS

Up to 12-point locking provides excellent security and superior weather protection.

SIMULATED DIVIDED LITES (SDL)

Selectable interior and exterior profile options

MULTI-POINT LOCKS

Heavy-duty hardware with up to 12 multiple locking points provides superior security and weatherproofing

ADDITIONAL OPTIONS

Hidden Hinge
Friction Hinge
Built-in Blinds
Hidden Retractable Screens



INTERNAL OPENING

Inward-swinging windows allow for effortless cleaning from inside.



MAGNETIC WINDOW SCREENS (INCLUDED)

Seamlessly attaches with a firm magnetic seal to keep insects out.

CASEMENT WINDOW



CASEMENT WINDOW FEATURES

GLASS

6 mm triple pane tempered glass, with optional advanced security film
Low E / Argon in-fill and dry glazing

SPACER

Warm edge spacer available in black or silver finish
Filled with molecular sieve drying agent

SEAL

34 mm x 22 mm primary EPDM seal
2 - 6 mm x 5 mm secondary EPDM seals
5 mm x 10 mm exterior / interior glazing cap seals

FRAME

PA66 + Glass Fiber Reinforced thermal break
Powder coated colors as standard
Insulated

HARDWARE

Premium grade, precision-manufactured proprietary hardware – providing total peace of mind for window operations

SIMULATED DIVIDED LITES (SDL)

Selectable interior and exterior profile options

MULTI-POINT LOCKS

Heavy-duty hardware with multiple locking points provides superior security and weatherproofing

ADDITIONAL OPTIONS

Hidden Hinge
Internal Glazing
Hidden Retractable Screens



RESTRICTOR HINGE

Limits opening distance for enhanced security while allowing for adequate ventilation. The sash can only be operated from the interior.



HIDDEN RETRACTABLE SCREENS

Easy-to-operate window screens maximize natural light and roll completely out of sight when not in use.

AWNING WINDOW



AWNING WINDOW FEATURES

GLASS

6 mm triple pane tempered glass, with optional advanced security film
Low E / Argon in-fill and dry glazing

SPACER

Warm edge spacer available in black or silver finish
Filled with molecular sieve drying agent

SEAL

34 mm x 22 mm primary EPDM seal
2 - 6 mm x 5 mm secondary EPDM seals
5 mm x 10 mm exterior / interior glazing cap seals

FRAME

PA66 + Glass Fiber Reinforced thermal break
Powder coated colors as standard
Insulated

SIMULATED DIVIDED LITES (SDL)

Selectable interior and exterior profile options

ADDITIONAL OPTIONS

Magnetic Window Screens
Hidden Retractable Screens



CHAIN-DRIVE CRANK HANDLE

Simple, smooth operation offers effortless control and requires less maintenance thanks to fewer moving parts.



INTERNAL GLAZING

Internally glazed windows deliver a refined, slim profile without compromising on superior security.



HARDWARE

Premium grade, precision-manufactured, proprietary hardware easily supports large-size windows with wide opening.

SLIDING WINDOW



SLIDING WINDOW FEATURES

GLASS

6 mm triple pane tempered glass, with optional advanced security film
Low E / Argon in-fill and dry glazing

SPACER

Warm edge spacer available in black or silver finish
Filled with molecular sieve drying agent

SEAL

34 mm x 22 mm primary EPDM seal
2 - 6 mm x 5 mm secondary EPDM seals
5 mm x 10 mm exterior / interior glazing cap seals

FRAME

PA66 + Glass Fiber Reinforced thermal break
Powder coated colors as standard
Insulated

SIMULATED DIVIDED LITES (SDL)

Selectable interior and exterior profile options

ADDITIONAL OPTIONS

Magnetic Window Screens
Hidden Retractable Screens



INTERNAL GLAZING

Internally glazed windows deliver a refined, slim profile without compromising on superior security.



SMOOTH OPERATION

Precision-engineered hardware ensures that even the heaviest window sashes glide open with ease.

SINGLE + DOUBLE SWING DOOR



SWING DOOR – AVAILABLE UP TO 12-FOOT HEIGHT

SWING DOOR FEATURES

GLASS

6 mm triple pane tempered glass, with optional advanced security film
Low E / Argon in-fill and dry glazing

SPACER

Warm edge spacer available in black or silver finish
Filled with molecular sieve drying agent

SEAL

34 mm x 22 mm primary EPDM seal
2 - 6 mm x 5 mm secondary EPDM seals
5 mm x 10 mm exterior / interior glazing cap seals

HARDWARE

Premium-grade, proprietary hardware effortlessly supports heavy swing doors; passed rigorous testing of over 250,000 operational cycles

FRAME

PA66 + Glass Fiber Reinforced thermal break
Powder coated colors as standard
Insulated

SIMULATED DIVIDED LITES (SDL)

Selectable interior and exterior profile options

ADDITIONAL OPTIONS

Magnetic Window Screens

MULTI-POINT LOCKS

Heavy-duty hardware with multiple locking points provides exceptional security and maximum weather protection



MULTI-POINT LOCKS

Featuring up to twelve strategic locking points to provide exceptional security and maximum weather protection.



SMOOTH OPERATION

Top-tier hardware precision-designed to handle expansive, heavy window sashes with smooth, whisper-quiet operation.

SLIDING DOOR



SLIDING DOOR FEATURES

GLASS

6 mm triple pane tempered glass, with optional advanced security film
Low E / Argon in-fill and dry glazing

SPACER

Warm edge spacer available in black or silver finish
Filled with molecular sieve drying agent

SEAL

5 mm x 10 mm exterior / interior glazing cap seals

FRAME

PA66 + Glass Fiber Reinforced thermal break
Powder coated colors as standard
Insulated

HARDWARE

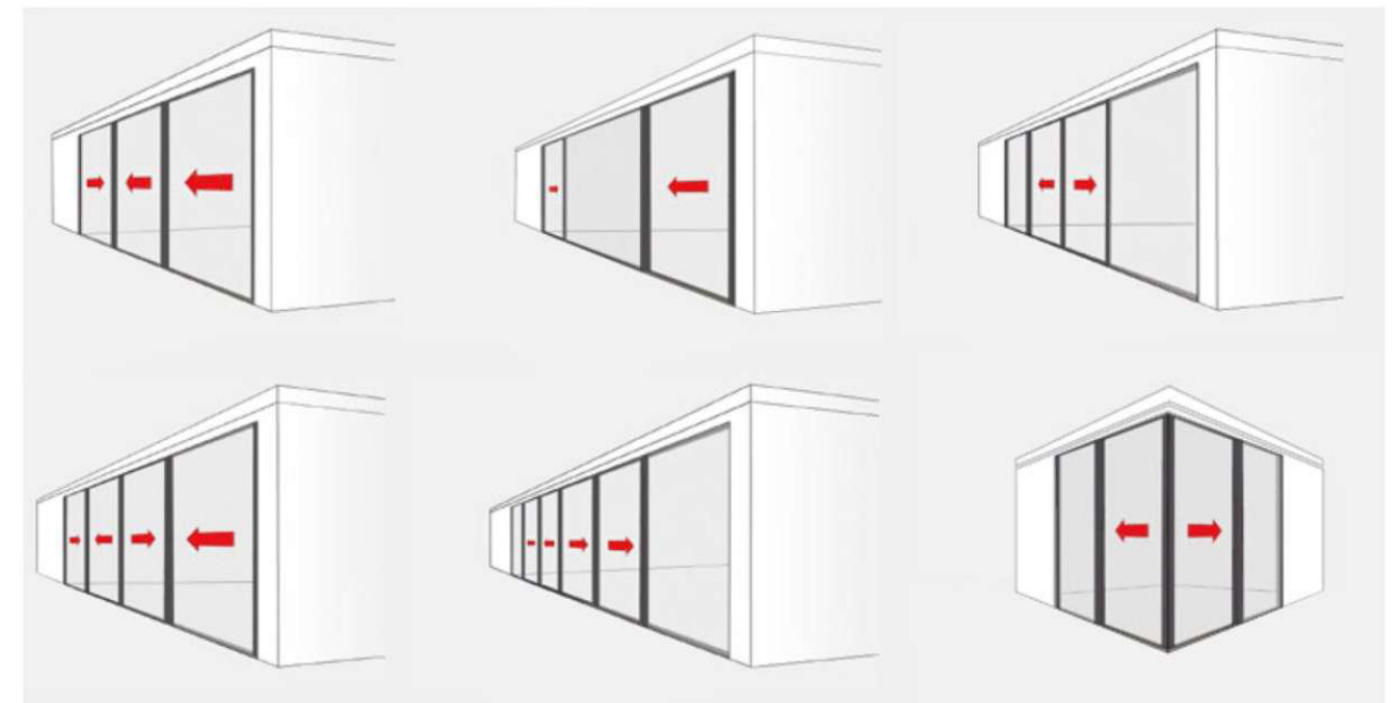
High-performance lift-slide hardware precision-designed to structurally support large-scale sliding doors with smooth, effortless operation

ADDITIONAL OPTIONS

Magnetic Window Screens
Hidden Retractable Screens

SIMULATED DIVIDED LITES (SDL)

Selectable interior and exterior profile options



SLIDING DOOR MULTI-OPEN OPTIONS

Engineered with a premium lift-slide system, the door effortlessly lifts off its tracks with a simple turn of the handle, ensuring smooth, friction-free operation for even the largest glass panels.



ARCHITECTURAL & STRUCTURAL ENGINEERING PERFORMANCE MATRIX

Performance Parameter	Budget Baselines	High-Performance Competitors	Energy Creation Specification
Thermal Glass & Performance			
U-Factor (Whole Unit)	> 0.35	0.25 – 0.35	As Low as 0.19 (Ultra-efficient thermal boundary)
Glass Architecture	Double Pane	Double / Triple Mix	Triple Pane (Windows) / Dual & Triple (Sliding Systems)
Gas Infusion	Standard Air	Argon	Argon (90% Fill Density)
Low-E Coating	Optional	Standard	Standard (Multi-Grade High-Performance)
Solar Heat Gain Coefficient	Not Rated	0.25 – 0.40	0.13 – 0.31 (Optimized Solar Heat Gain Control)
Condensation Resistance	< 40 CR	40 – 55 CR	66 CR (Consistent Across All Profiles)
Frame & Insulation			
Frame Material	Vinyl / Basic Aluminum	Vinyl / Fibraglass / Aluminum	Premium Aluminum Alloy
Thermal Break Engineering	None / Basic	Standard PA66 / PU	Advanced PA66 + 25% Glass Fiber Reinforced + Wide Break
Warm Edge Spacer	Aluminum (Cold Edge)	Warm Edge Optional	Warm Edge Spacer Throughout
Exterior Finish Options	Standard Paint	Powder Coat	High-Durability Powder Coat (2 Standard / 200+ Custom)
Air / Water / Wind			
Air Leakage (Windows)	Not Rated	< 0.2 L/s·m ²	0.0 – 0.12 L/s·m ² (Ultra-tight Building Envelope)
Water Penetration Resistance	Basic Baseline	500 Pa+	730 Pa+ (Superior Driving-rain Protection)
Design Pressure	720 Pa	1440 Pa+	±2400 Pa (Engineered for High-wind Commercial Exposure)
Forced Entry Resistance	Grade 10	Grade 10	Grade 20 (Maximum Security Rating)
Seal Longevity	10 – 15 Years	20 – 30 Years	50-Year Commercial EPDM Seals
Hardware & Operations			
Multi-Point Locking	2 Points	3 – 5 Points	Up to 8 Multipoint Locking Fields
Cycle Testing (Durability)	Not Tested	100,000 Cycles	250,000 Cycles (Doors) / 100,000 Cycles (Casement)
Hardware Architecture	Generic	Mid-Tier Branded	Premium Grade, Precision-manufactured, Proprietary
Compliance & Support			
Acoustic Rating (STC)	26 – 28	28 – 33	Lab Testing Underway (Targeting 35 – 45 range)
Testing Standards	Basic AAMA	NAFS + ENERGY STAR	NAFS / CSA A440-22 / NFRC 100 + ENERGY STAR
ENERGY STAR Verification	No	Yes (Select Lines)	Yes (All LINES)
Structural Frame Warranty	5 – 10 Years	20 – 25 Years	Up to Lifetime Commercial Warranty
Insulated Glass Unit (IGU) Seal	5 Years	10 Years	20 Years
Service Logistics	Variable / Spotty	Regional Only	Comprehensive National Support Network

Detailed specifications and test results are available upon request.





CROSS SECTION



ADVANCED THERMAL, STRUCTURAL & MATERIAL ADVANTAGES

Material Advantages of Aluminum: Lightweight yet highly durable, aluminum alloy resists solar and UV radiation, withstands extreme temperature swings, absorbs impact with minimal deformation, and is fully recyclable.

Structural Stability: Premium-grade aluminum profiles provide maximum structural integrity and long-term durability.

All-Weather EPDM Seals: Multiple EPDM rubber gaskets remain flexible and tight under extreme heat or freezing conditions.

PA66 Thermal Breaks: Advanced polyamide (PA66) insulation separates the interior and exterior frames, enabling multiple grades of energy-efficient configurations and boosting the overall R-value.

Premium Glazing Pack: High-efficiency Low-E tempered glass, 90% argon gas infill, and a warm-edge spacer with an integrated drying agent completely eliminate condensation.

Dry-Glazing Technology: A smart, adhesive-free glazing design that allows for clean, effortless replacement of sealed units in the future.

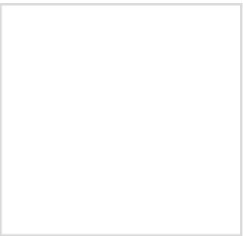
Maintenance-Free Finish: Durable powder-coated colors and textures resist fading, peeling, and chipping — virtually eliminating maintenance.

COLOR OPTIONS

STANDARD COLOR SELECTION



BLACK

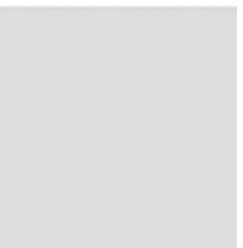


WHITE

POPULAR COLOURS CUSTOMERS FREQUENTLY SELECT



BROWN



SILVER



GREY

TOTAL COLOUR FREEDOM

Standard Finishes: Two high-durability powder-coated colors are standard. Can be mixed and matched across the frame and sash at no additional cost.

Custom Palette: Over 200 bespoke colors available upon request.

Enduring Quality: Advanced powder-coated and anodized finishes ensure superior longevity and weather resistance compared to conventional paint.



ADVANCED MANUFACTURING PROCESS



Fully automated manufacturing process driven by the most advanced technologies and a computerized central control unit, delivering precision engineering control to ensure every batch of finished product meets the most stringent quality standards.

CERTIFIED ASSURANCE

Our performance-testing samples are drawn directly and randomly from the live production line, guaranteeing that our certified data reflects the precise quality and engineering delivered to your site.

ENERGY CREATION STORY

Craftsmanship in Every Detail. Value in Every Project.

For decades, builders faced an impossible choice: gamble on cheap windows that risked leaking and failing, or pay a fortune for premium systems that blew the budget. In 2010, Energy Creation was founded in Winnipeg, Manitoba, to end that compromise—built on one simple belief: you shouldn't have to choose between quality and cost.

We didn't start with a massive marketing budget; we started with a workman's obsession over a single mold. That mold was reworked eight times—not because it had to be, but because each version revealed one more way to make it stronger, tighter, and truer. We refused to settle for "good enough" materials; every single component had to earn its place in the final product.

That stubbornness became our standard. It is easy for manufacturers to chase inflated laboratory ratings with custom-built 'test specimens' that never actually reach a real job site. We refuse to play that game. While our certified performance ranks proudly in the premium top-tier, it is built on absolute honesty: we test units selected randomly right off our live production line. The exceptional quality we prove in the lab is the exact quality we deliver to your project—no compromises, no bait-and-switch.

Yet, elite engineering was only half the job—it had to be accessible, too. From day one, we invested in our own automated manufacturing line, engineered for maximum productivity and minimal material waste. Those efficiency savings go straight back to you: premium performance at a price that respects your project budget.

What we are proudest of isn't a performance metric—it's that almost every new customer comes to us through a referral from someone who trusted us first. Builders, developers, owners, architects, and engineers across Canada's toughest climates keep coming back, and they bring others with them. The moment you hold one of our profiles, you feel it: real craftsmanship, built to last.

From first concept to final install, we are with you the whole way—because your project's success is ours, too.

Energy Creation: Premium performance. Real value. Built with precision.

Energy Creation

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HIGH PERFORMANCE

ALUMINUM WINDOWS & DOORS

BUILT TO PERFORM. ENGINEERED TO LAST.

Superior thermal efficiency and structural strength — without the added cost.

Contact our estimation team today for CAD/BIM submittals.



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WINDOWS & DOORS

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