

*Loewen*

# Window & Door Product Guide

An Introduction to Loewen



# Elevate.

Every project begins with an innate desire to create something great.



**Loewen is the premium window and door company focused exclusively on the architectural market.**

Loewen crafts luxurious windows and doors that are the statement pieces of custom residential architecture. Elevate homes into distinctive havens with Loewen's seamless blend of authentic materials and obsessive engineering. Our spectrum of products are built with precision to match the sophisticated vision of the most creative and exacting architectural designs.





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SOLUTIONS

# Unique Solutions that Grow with Your Vision



Open your imagination and realize your designs the way they were intended to be. With a growing scope of offerings that range from premium to ultra luxurious, Loewen is ready to support your creative freedom.

Custom configurations, curtain wall systems, exotic custom operating products, multiple wood species, and unique cladding are all available in your architectural arsenal.



CW

CL

# Elegance of Design

## Authentic Materials

Loewen products blend structure and environment into art. Each hand selected component of high grade wood, glass, and metal is manufactured to exacting standards.

Loewen designers and engineers combine a balance of custom product design and repeatable high-tech manufacturing to provide the best of both worlds:

- A vast array of profiles and connections allow limitless design and creativity
- Technological improvements result in superior fabrication and finishing techniques

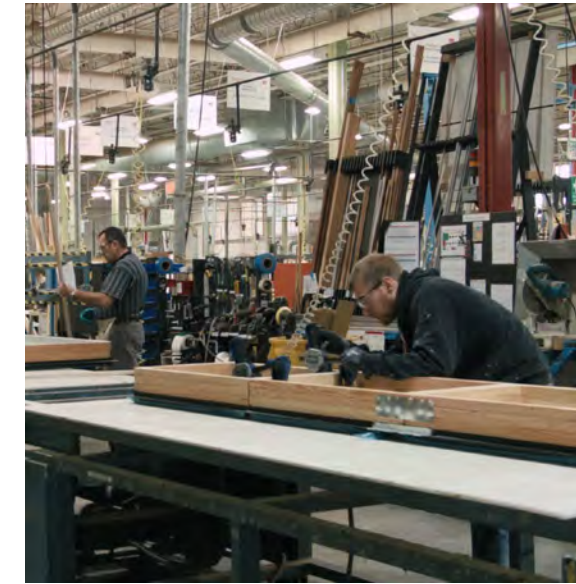


## Our People Make the Difference

Loewen windows and doors stand apart from all others due to the artistry and perfectionism of the people who craft them. A large portion of our staff have more than 15 years of dedication to their craft at Loewen.

We test and inspect components and hardware to ensure the proper feel and operation. Each step in our process is held to exacting standards so that our windows and doors will never disappoint.

From inspections that measure precise tolerances to the painstaking hand application of decorative muntin bars and trim, the personal attention to detail shines through every finished product.



# Clad Wood

## Excellence in Design and Performance

Loewen clad engineering creates extraordinary strength and durability, enabling dramatic design, innovation and inspiration. Loewen Clad fenestration products use coastal Douglas Fir or plantation-grown Mahogany in frames and sashes. Our low maintenance extruded aluminum ensures the ultimate in strength, performance and finish longevity.

Loewen uses only pre-finished extruded aluminum cladding to better protect window and door exteriors and eliminate the need for painting.

Robust design and engineering can achieve the ideal solution for any opening. Complete your vision with sharp design, customizable options, and the wide-open views that only Loewen can provide.

#### Available in many window and door configurations:

**Windows** Awning, Casement, Double Hung, Direct Set, Specialty shapes and Custom configurations  
**Doors** Terrace Swing, Sliding Patio, Bifold, MultiSlide and LiftSlide



#### CLAD WOOD

### Superior Aluminum Cladding

Our heavy gauge extruded aluminum cladding retains its shape, resists denting and lasts longer than roll formed aluminum. Loewen's window cladding is set away from the underlying wood, creating an air space that improves thermal performance and allows moisture to escape.

Across a broad variation in Loewen designs and in demanding environmental conditions, our alloy has the ability to:

- Withstand serious impact without sustaining damage
- Allow intricate extrusion detailing
- Provide the malleability necessary to clad many sizes and shapes
- Deliver unequaled environmental durability
- Provide a stable substrate that enhances colorfast paint performance

\* See Page 30 for Finish Options



### AAMA 2605 / 70% Kynar Finishes

Loewen's finish palette provides the perfect finishing touch for fulfilling your vision, while also providing industry leading quality and performance. Loewen's paint formula includes 70% Kynar 500 PVDF (polyvinylidene fluoride) resin, which offers the greatest resistance to weathering, fading and chalking. This ensures a beautiful finish that will last when cared for properly. With excellent appearance and durability, these paints meet the specifications of the American Architectural Manufacturers Association (AAMA) 2605.



# Wood

## Traditional Beauty, Endless Variety

Loewen Wood products feature only\* Coastal Douglas Fir or plantation-grown Mahogany in our frames and sashes. These woods do more than just give our windows a rich, warm texture - they're also naturally tough and resilient, yet remarkably workable, meaning they are ideal for precision milling and capable of holding the smallest, most intricate detailing.

To enhance our woods' high natural resistance to moisture absorption, decay and insect infestation, every Loewen wood component is treated with a water repellent, wood preservative before assembly.

Douglas Fir is North America's most plentiful softwood species, accounting for one-fifth of the continent's total softwood reserves. It is beautiful and durable, making it the ideal species for fenestration and a hallmark of the Loewen all wood offering.

**Available in many window and door configurations:**

- Windows** Awning, Casement, Double Hung, Direct Set, Specialty shapes and Custom configurations
- Doors** Terrace Swing, Sliding Patio, Bifold, MultiSlide and LiftSlide

Versatility is one of the key elements in the Loewen product offering - there are endless possible combinations of standard Loewen products.



\* Alternate species are available in our Custom offering



**WOOD**

### Douglas Fir Durability

Douglas Fir outperforms Hemlock & Pine

Wood Species	Specific Gravity (density)	Impact Strength (height of drop causing complete failure)	Compression Strength (parallel to grain)	Compression Strength (perpendicular to grain)	Hardness (load perpendicular to grain)	Resistance to Decay  USFS Grade
<b>Douglas Fir</b>	<b>0.48</b>	<b>31.0</b>	<b>7,230</b>	<b>800</b>	<b>710</b>	<b>Moderate</b>
Mahogany	0.42	Untested	6,460	1,500	830	Slight
Western Hemlock	0.45	23.0	7,200	550	540	Slightly to non-resistant
Ponderosa Pine	0.40	19.0	5,320	580	420	Slightly to non-resistant

### Douglas Fir Fastener Retention

This chart shows the force required to remove fasteners

Wood Species	Nail	Screw	Hinge
<b>Douglas Fir</b>	<b>189 lbs</b>	<b>527 lbs</b>	<b>743 lbs</b>
Ponderosa Pine	98 lbs	392 lbs	486 lbs

# Timber Curtain Wall

Stunning Panoramic  
Vistas are Here

Blur the lines between interior and exterior and showcase stunning panoramic vistas with the Loewen Timber Curtain Wall system. This product embodies the spirit of contemporary architecture with capabilities to provide expansive glass assemblies, minimal profiles, increased viewing area, clean sightlines – all without sacrificing performance.

## FEATURES

2" (50 mm) wide Curtain Wall System

Thermally broken, engineered system with all-wood interior

Configurations include vertical walls, rakeheads, corners and integrated operable units (Casements, Awnings, Terrace and French Doors, and Sliding Doors)

Monolithic, dual, and triple-glazed options in a variety of Low-E coatings that align with other Loewen products

Exterior covers in extruded aluminum, Douglas Fir, or Honduran Mahogany

Factory prepped and configured mullion system for optimal quality and installation



## CURTAIN WALL

### Custom Built and Integrated Seamlessly

Custom units are created for every project from your architectural specifications. All units are factory prepped, predrilled, marked and labeled before disassembly, to ensure accurate and easy field assembly and glazing.



# Cyprium Collection

## Living Finishes in Copper and Bronze

Loewen Cyprium features copper and bronze clad windows and doors unique in design and construction. The Cyprium collection is artisanal in detail, including hand-soldered exterior joints and rich, tactile depth of texture in the thick metal cladding and deep profiles.

These hand-wrought living surfaces develop distinctive patinas that adopt and define the individual aesthetic character of the homes to which they belong.

### Available in many window and door configurations:

**Windows** Awning, Casement, Picture/Direct Set, Specialty shapes and Custom configurations  
**Doors** Terrace and LiftSlide



### CYPRIMUM



Copper Umbra patina Casement window featuring 7/8" Simulated Divided Lites (SDL)



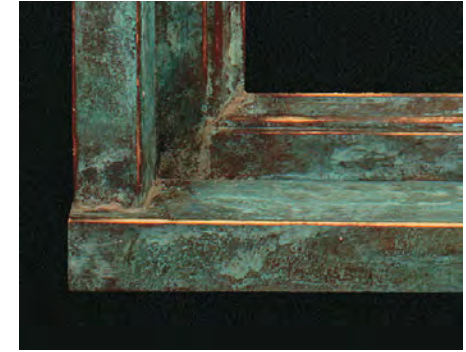
Bronze Natura



Copper Natura

#### Recessed Mullion

Recessed from the face of the sill and frame, this classical mullion detail adds visual harmony. Cyprium deep sills are well suited to masonry wall construction.



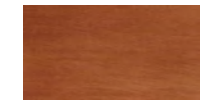
Bronze Verdigris

#### Distinct Picture/Direct Set Profiles

Picture/Direct Set (fixed, non-sashed units) offer an even deeper offset from the face of sill, head and frame members to the vertical plane of the glass.

#### Copper Palette

Colors may not be exactly as shown



Copper Natura



Copper Umbra



Copper Verdigris



Copper Natura

#### Soldered Joints

Lead-free soldered joints add a hand-forged, authentic appearance that is both attractive and functional. Soldered joints create a cohesive, watertight body for frame and sash members resulting in uniform reaction to temperature fluctuation.



Bronze Umbra

#### Capped Sill End

Hand-fitted sill caps are soldered in place for structural integrity and a finished appearance.



# Custom Wood Dramatic Window and Door Design

Loewen introduces a true custom hand crafted wood product line of windows and doors. Countless options and features are available to tailor each unique opening in any style of home. Whether you are looking to retrofit an elegant, traditional-style home, or aiming for a highly contemporary look, Loewen Custom can create the ideal solution.

For your unique architectural vision investigate our alternative species:

- White Oak
- Walnut
- Mahogany
- Teak
- Cherry
- Accoya®

Available in many window and door configurations



## CUSTOM

### When Design is Paramount

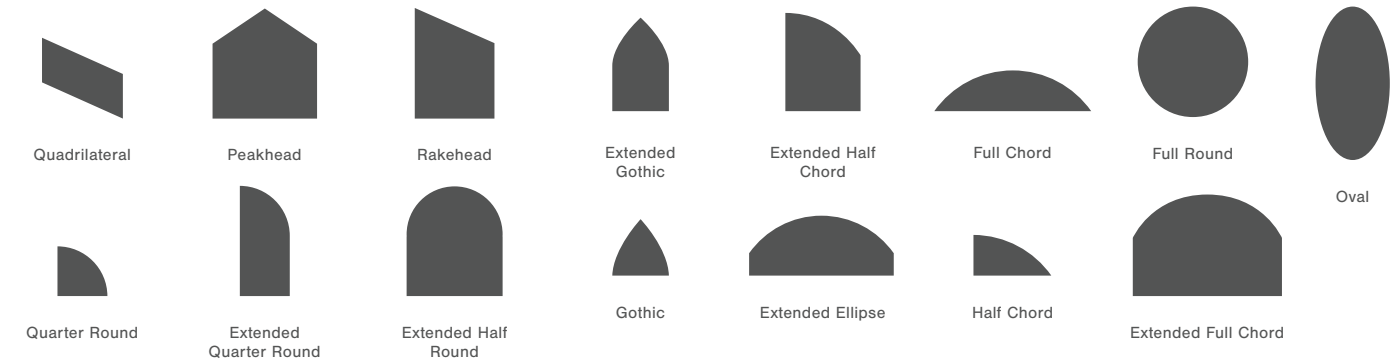
Explore our extensive collection of design features and custom looks. With a wide range of shapes, features, and openings, Loewen can create the ideal solution for any home design. Unique operating units; pivot doors, inswing casements, tilt-turns, triple-hung windows are just a few examples. Custom features include frame and sash profiles, Simulated Divided Lites and glazing leg styles.

Our Architectural Services support team will work with your vision and customize solutions allowing your individuality to come to light with Loewen.



### Custom Shapes

Can be combined with specialty features



CUSTOM

# Accoya® Wood

## Custom Solutions

Accoya® wood windows and doors offer stunning versatility, environmental advantages and low maintenance for premium residential construction. For durable, dimensionally stable exterior doors, Accoya® wood exceeds code criteria and prevents warping.

### Features:

- Always sustainably sourced from abundantly available, fast growing wood species
- Durability (rot and insect resistance) matching and even exceeding the performance of nature's most durable woods
- Tested over prolonged periods in all types of weathering conditions - above ground, below ground and even in water for 20 years

### Environmental Advantages:

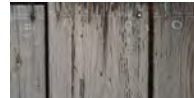
- Increased life span, less maintenance, superior thermal insulation
- Non-toxic and 100% recyclable - a perfect fit with the bio-cycle C2C philosophy. Accoya® is CO2 negative over the full life cycle of the product

In producing Accoya® wood, the chemical structure of the wood is modified from the surface to the core, providing a class leading durable and exceptionally stable product. Not only does it have extremely low thermal conductivity, but it matches or exceeds the durability and dimensional stability of the best tropical hardwoods.

### 42-month Outdoor Exposure

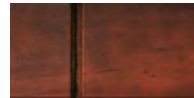


Accoya®



Pine

### 13-year Outdoor Exposure



Accoya®



Unmodified Wood



\*Warranty is on products using all Accoya components.



CONFIGURATIONS

# Window and Door Configurations

Loewen offers a wide range of standard fenestration solutions, allowing your project to maintain seamless design integration throughout. Our superior engineering results in uncommon performance while allowing dramatic innovation and design. We have solutions for every regional or architectural style.

On the following pages we present a representational selection of window and door profiles. Complete custom design adds endless variety and options to fit every unique opening.



## CONFIGURATIONS

### Awning and Casement Windows

Loewen pushout and rotogear operating windows provide superior ventilation and easy operation. Casements shut tightly and provide one of the highest thermal performance ratings of any operating window style. Loewen makes six distinct styles of AW/CA windows, and are available in specialty shapes. →

### Double Hung Windows

Opening from both the top and the bottom, Double Hung windows are proof that classic traditional looks never go out of style. Loewen's Double Hung is designed to complement the depth and character of the traditional North American home while delivering the progressive performance it deserves. →

### Picture and Specialty Shapes

Loewen Picture windows are designed for maximum views with a minimum of wood framework. Picture windows, do not open, the ideal combination of view and ventilation can be created by pairing them with operable windows. Picture units can be built in a variety of different shapes. →



### Bow and Bay Windows

Bow and Bay windows add valuable living space to your home - how much extra space is up to you. Loewen three-sided Bay windows can be built at any angle between 34–90 degrees. These angles determine how much extra space you gain by controlling how far the window extends. Bow windows feature a series of four or more adjoining windows that form an arc or bow. →



### Sliding Patio Doors

Loewen Sliding Patio doors can open up the walls in your home to new possibilities.

For safety, security, and ease of operation, Loewen uses laminated sash construction, thick, tempered safety glass and smooth tandem rollers. For added security, Loewen builds an anti-panel lift device into every patio door. →



### MultiSlide Doors

MultiSlide doors provide large dramatic openings for the transition from indoor to outdoor living spaces. With an easy and quiet operation, using smooth tandem rollers, MultiSlide interlocking sliding panels provide secure and weatherproof options in large openings.

A generous selection of custom configurations and design options are available, including bi-parting and hidden pocketing. →



## CONFIGURATIONS

### BiFold Doors

BiFold Doors are made up of multiple door panels that fold open, creating a large opening that makes for a stunning transition to the fresh air and spaciousness of outdoor living. BiFold Doors are available in configurations of up to 16 panels, which allows for openings of up to 52 feet wide. Folding to the outside so as not to disturb interior furnishings, BiFold Doors put outdoor spaces in a new perspective. Now available narrow stile BiFold doors. →



### Swinging Terrace Doors

There are multiple styles of Terrace Doors to choose from - Terrace (single) and French (double). Available in traditional wide stile and new narrow stile, and in out-swing and in-swing versions. Other design options include mid-rail and raised panel doors, fixed or venting Sidelites and Transoms, and Barrier-free Sills (ADA Flat Sills). →



### Narrow Stile Doors

Take advantage of slimmer stiles and rails compared to the standard Terrace Door panels while still incorporating the standard Terrace Door frame.

Available in Inswing, Outswing and Bifold configurations. →



### LiftSlide Doors

The Loewen LiftSlide Door allows expansive glass panels to roll smoothly and easily. This door not only provides a panoramic view but also extends the living space of your home. With the touch of a hand, the LiftSlide mechanism effortlessly carries individual glass panels weighing up to 850 pounds. The flush track protrudes ever so slightly above the finished floor so your interior and exterior finishes flow seamlessly. For more inclement environments, a raised threshold is available for additional protection.

The Loewen LiftSlide can be manufactured in straight, cornered, stacking, angled, and curved configurations. Available in both jamb and pocketing configurations. →



# StormForce™ Series

## Maximum Protection from Coastal Environments

StormForce™ from Loewen takes the performance of our standard windows and doors to the extreme, offering fenestration that is structurally enhanced to meet and exceed; International Residential Code, Florida Building Code and other Coastal requirements, including the stringent Dade County certification. Each test is conducted by an independent agency, based on extreme conditions and varying product sizes. Code compliance is a fundamental aspect of Loewen design and engineering.

### HIGHLIGHTS

Maximum coastal protection - purposely designed to withstand all of nature's harshest elements - hurricanes, tropical storms, high winds, driving rain, sweltering heat and freezing cold.

Concealed structural upgrades - no unsightly brackets and/or locks commonly seen on coastal products.

Versatile and enhanced styling - Douglas Fir or Mahogany wood interior standard with the choice of extruded aluminum cladding.

Optimal thermal performance - LowE insulated glazing, laminated, and reflective glazing options provide comfort, shading and peace of mind.

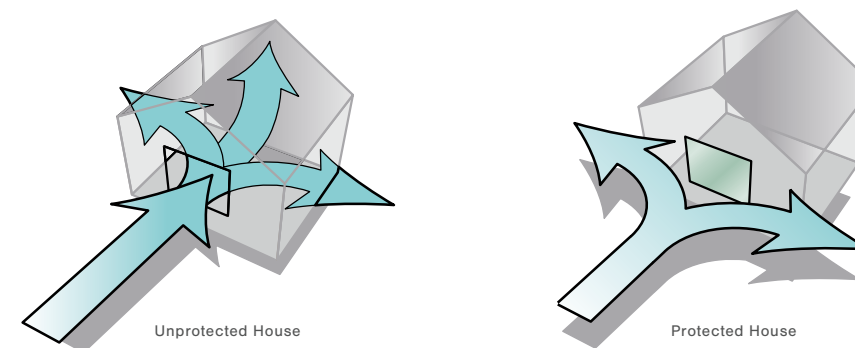
### StormForce is available on:

- Windows** Awning, Casement, Picture/Direct Set and Double Hung
- Doors** Swinging Terrace Doors, Sliding Patio Door and LiftSlide



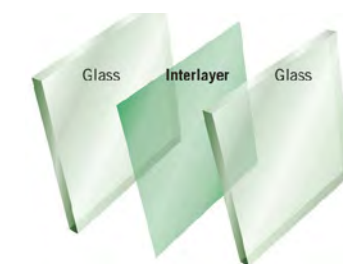
The Florida Building Code is the strictest code in the United States for resistance to wind-borne debris and wind loading for fenestration products. Many Loewen certified products meet high velocity wind zone 4 standards.

All components in a StormForce™ window or door provide a number of additional benefits: enhanced security, excellent ultraviolet ray protection and increased sound attenuation.



Windborne wreckage can impact a home during windstorms and hurricanes, with gusting, pervasive winds to follow. To protect the integrity and interior of homes, windows and doors must resist penetration and remain intact and in place.

Impact designed laminated-glass windows and doors pass windborne debris-impact tests. Even when broken, glass fragments remain integral, adhering to the plastic interlayer, to preserve the building envelope.



All Loewen StormForce™ products use industry-leading laminated glass produced by bonding a combination of plastic vinyl layers and polyester film between two panes of glass into a single sheet. Laminated glass has the look of ordinary glass but offers a fortification against accidental impact, forced entry, sun damage and noise that far surpasses standard glass.



# Engineered Performance

Regardless of environment, from the cold harsh northern climate, to the hot and sunny South and tropical storm threatened eastern regions, Loewen products are engineered to comply and exceed building codes across North America.

Each product test is conducted by an independent agency and is based on extreme conditions and varying product sizes. Code compliance is a fundamental aspect of our product design and many of our products meet the performance requirements for certification in all United States and Canadian climate zones. The National Fenestration Rating Council data empirically shows that Loewen products are among the industry's best in terms of thermal performance.

Loewen's engineering creates extraordinary strength and durability, enabling dramatic design, innovation and inspiration.



# Warranty

## Unsurpassed Support, Consideration and Service

Every Loewen window and door is designed and built to rigorous specifications that ensure its integrity. We have always stood behind our products with unsurpassed support, consideration, and service.

Compare the strength of the Loewen warranty to any other and see the confidence we have in the quality of our windows and doors.

### The Loewen Advantage

- Full 20-year warranty on glass, wood components, and paint finishes on clad product.
- We guarantee our products for the full length of our warranty, meaning our support does not reduce over time.
- Complete coverage for all color finishes on our aluminum clad exterior including protection against fading and chalking for 20 years.
- Full 10-year coastal warranty on painted finishes within one mile of the coastline.
- Fully supported warranty service with our network of Loewen experts and regional dealer inspections.
- Full 2 years labor warranty.

### Competition Warranties

- May promote a longer warranty even if it is limited or not inclusive for all parts.
- May be prorated warranties that reduce the manufacturer's liability as the product ages.
- Vinyl and wood fiber clad exteriors may carry a color fade only warranty or none at all.
- Warranties on paint that extend past those of the paint specifications will not extend the life of the paint finish and are always limited.
- Warranties that cover various distances from the coast often do not consider the specific effects of coastal weather conditions.
- Confusing language - for example: a lifetime warranty against corrosion for an exterior component that contains no metals really needs to cover against UV deterioration and chalking.

**20<sup>3</sup>**  
**20/20/20**  
**WARRANTY**

#### 20/20/20 Limited Warranty

Loewen metal clad products carry a 20 year warranty covering paint, glass and wood components.

Visit [loewen.com](http://loewen.com) for complete details.

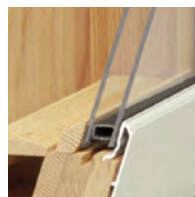


## Glazing

Loewen Windows and Doors are crafted with glass solutions that match the luxury of every frame. Combining technology and manufacturing expertise, Loewen utilizes the latest technologies to provide strong, soundproof, and clear glass to ensure you always get the most out of every view.

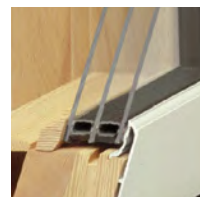
### Sealed Units with LowE surface coatings for maximum performance

- Loewen standard 1/8" (3mm) double strength glass offers greater strength and clarity over thinner glass, making our products more insulative, more soundproof, more resistant to impact and considerably more resistant to stresses caused by fluctuations in temperature
- Loewen standard sealed units contain Argon gas and machine applied primary and secondary sealants, reducing the chance of seal failure, improving Argon gas retention and increasing strength



### Double

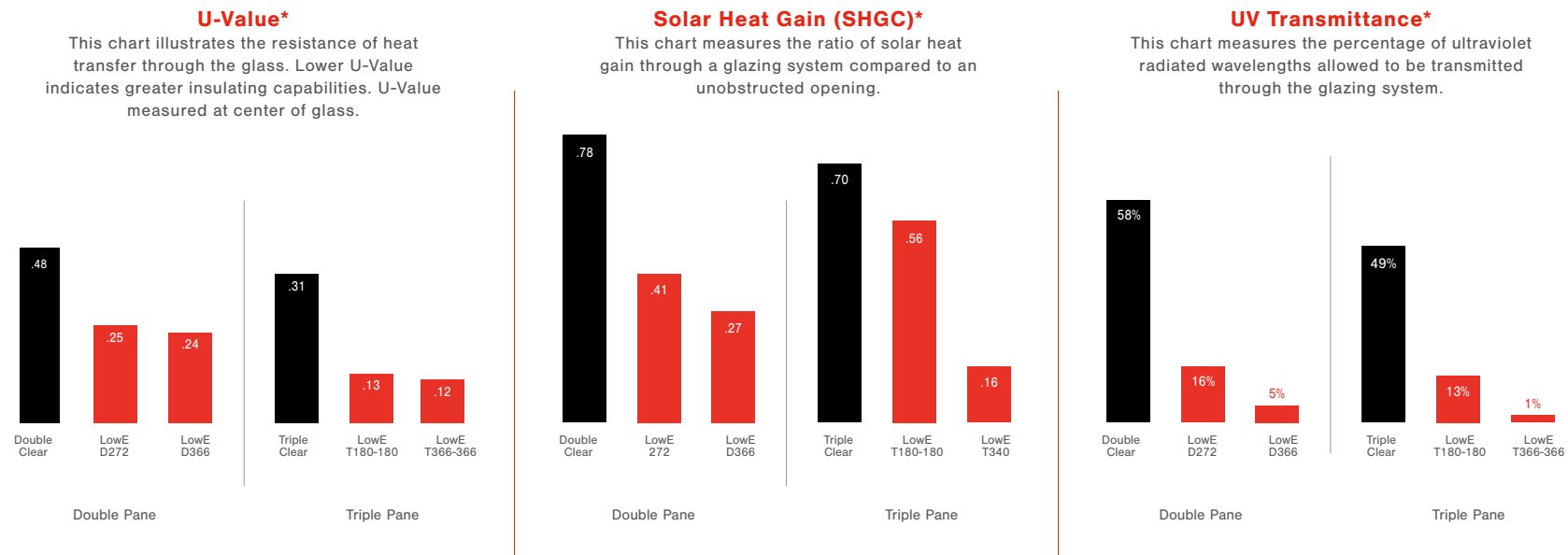
Double glazed, with one or more layers of LowE coating and on 1/2" (13mm) air space filled with argon gas and stainless steel thermal spacer bar.



### True Triple

Triple glazed, with multiple layers of LowE coatings and two 1/2" (13mm) air spaces filled with argon gas and stainless steel thermal spacer bars. Unlike other window systems we offer sealed units with two true 1/2" cavities between panes to maximize energy efficiency.

## LowE Compared With Clear Double & Triple Pane Glass Units



\*ASHRAE calculated values Window 5.2 | 1/2" airspace (13 mm) | Does not apply to sealed units with capillary tubes installed

Note: Information in these charts compares the center of glass performance levels of the sealed unit only when manufactured with different glazing options. They are not representative of overall window performance, which depends on many factors including grille options, such as simulated divided lites, grilles between glass, product size and configuration. This information cannot be used to calculate energy performance, to determine resistance to condensation or to develop assumptions about suitability for use or compliance with energy codes. For overall performance of specific windows or doors, refer to "NFRC U-factor and SHGC/VT" information.

**Other Glazing Choices:** Tranquility™ Sound Glass | Neat™ Glass | Preserve™ Protective Film



COLOR & FINISH

# Color and Finishing

## AAMA 2605 | Anodized | Cyprium

### Metal Clad Painted Finishes

We have worked with industry professionals and designers to define our palette of exterior metal clad colors and finishes. These paints meet the specifications of the American Architectural Manufacturers Association (AAMA) 2605. The qualities of this paint provide robust weathering, fade and chalk resistance and a beautiful finish that lasts for decades when cared for properly.

### Custom Architectural Colors

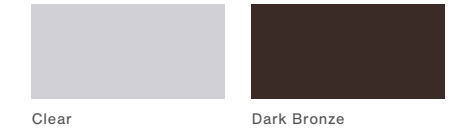
When personal style or design dictates a unique color solution, just tell us what your wish is. Our standard range of aluminum clad colors is enhanced with the choice of true custom color specification. The integral cross matching system and color approval process ensures that you get the exact color you want using AAMA 2605 paints.



### Anodized Finishes

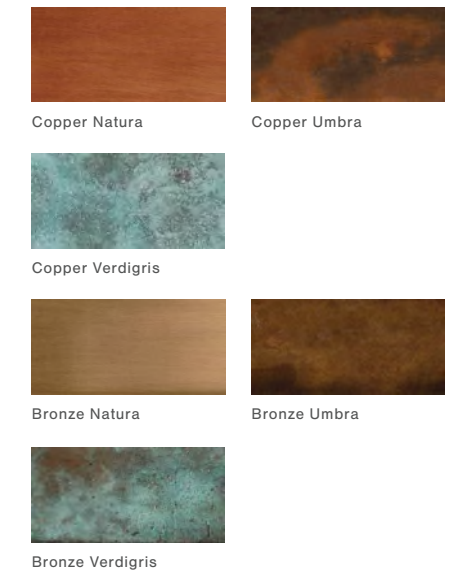
For a durable alternative to paints and organic coatings, our Anodized Finishes offer a rich matte look that reduces sunlight glare and allows the aluminum to maintain its metallic appearance. In addition to the aesthetically desirable etching, our Anodized Finishing also increases resistance to corrosion and abrasion on aluminum. This aluminum is 100% recyclable and uses a water-based process with no volatile organic compounds for eco-friendliness.

Meets the AAMA 611 specification



### Cyprium Cladding & Finishes

The Cyprium Collection features copper and bronze clad windows and doors that are unique in design and artisanal in detail. These hand-wrought living surfaces develop distinctive patinas that define the individual aesthetic character of the homes to which they belong. Patinas are treasured as a mark of lasting value, as each patina is ever-changing.



Colors and finishes may not be exactly as shown





## Window & Door Hardware Options

Selecting a style and finish that reflects your unique taste is a critical part of creating the right look, which is why Loewen offers a wide range of hardware options. Hardware is a defining element of the experience of windows and doors. High performing, smooth and stylish hardware elevates the look and feel of your home.

We constantly review our hardware selection and new options are regularly added. Not all finishes are available in each hardware style. Consult your Authorized Loewen Dealer for the most current information.



INTRODUCTION

# Loewen Heritage

Our History is So Much of What We Are – Our Essence.

If our inspirational designs reflect our artistic soul, history describes our journey and helps explain the foundation upon which the Loewen brand of windows and doors is built.





Information subject to change without notice.

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