

Design Series
ALUMINUM-CLAD VINYL

 **Ply Gem**[®]
CANADA

Windows & Patio Doors



A window for every view.



Single Hung

Single-hung windows have a fixed upper sash and a lower sash that slides vertically to allow ventilation. Popular for traditional homes.



Casement

Casements are hinged on one side and crank open to catch the breeze. They have a contemporary look and are a popular choice over kitchen counters.



Awning

Awning windows are hinged at the top and open outward. Placed high on a wall, or below fixed windows, they provide ventilation and privacy.



Horizontal Slider

Horizontal sliding windows have one fixed sash and one sash that slides left or right. Popular for modern homes and where you don't want an open sash extending over a deck or patio.



Fixed Pane

Non-operating windows including picture windows and architectural shapes such as half-round, elliptical and trapezoid.

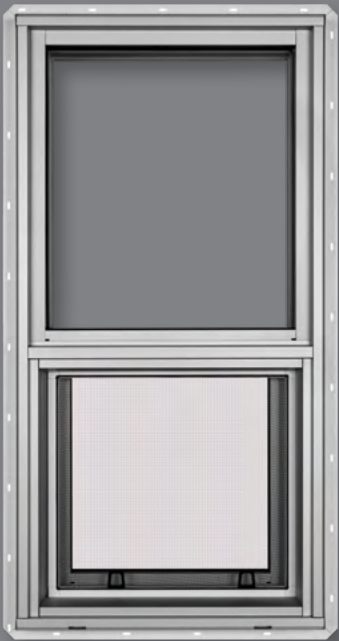


Combinations

Shapes such as arch-top windows can be combined over standard windows to create a distinctive look. Multiple windows can also be combined to create panoramic views.



Design Advanced Slider



Product Options

- ▶ Aluminum clad exterior options.
- ▶ Fusion Colour Wrap™ for interior application.
- ▶ Ability to include grilles and Stimulated Divided Lites.
- ▶ Largest slider frame size available for unobstructed views.
- ▶ Dual and triple glazed options available.
- ▶ Aluminum clad metal sash for uniform look from the exterior.

Performance

- ▶ Amazing product option for projects working toward net zero or passive house.
- ▶ Water Penetration resistance rated 400 Pa.
- ▶ Air Infiltration rates as A3 for horizontal slider and A2 for vertical slider.

U-Values

Profile	Highest TG 2: LoE 270/Arg/ Clear/Arg/LoE 180		Lowest DG: Clear/Air/LoE 180	
	Metric	Imperial	Metric	Imperial
Design Advanced Vertical Slider	1.02	0.18	1.87	0.33
Design Advanced Horizontal Slider	1.02	0.18	1.82	0.32
Design Advanced Direct Set (Slider)	0.85	0.15	1.76	0.31

Design Series

ALUMINUM-CLAD VINYL WINDOWS

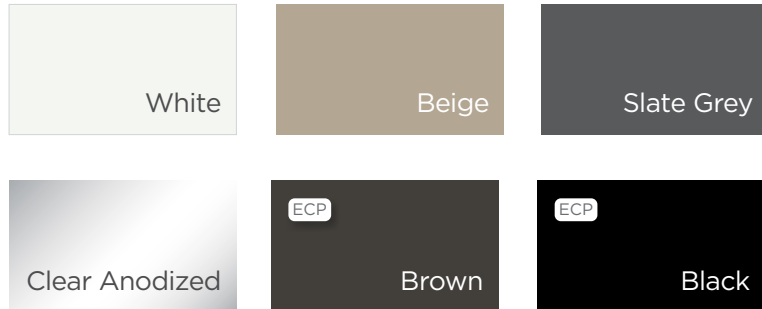


Make a **bold statement.**

Our aluminum-clad vinyl windows offer the best of both worlds: durable, colourful exteriors and low maintenance Fusion Colour Wrapped™ vinyl interior. They pair well with our Design Series Patio Doors for a seamless look for your home.



Exterior Frame Colours



ECP ENHANCED COLOUR PROTECTION

An innovative PVDF coating helps protect our darker colours from fading and chalking. Colours are reproduced as accurately as printer technology allows.

Standard Features

► Seals out the elements

Tri-Fin weatherstripping prevents drafts, dust and moisture from getting in.

► Smooth operation

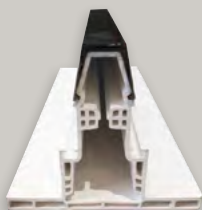
Spring balance system makes opening and closing single-hung windows easy; holds sash open at any height.

► Energy-saving glass

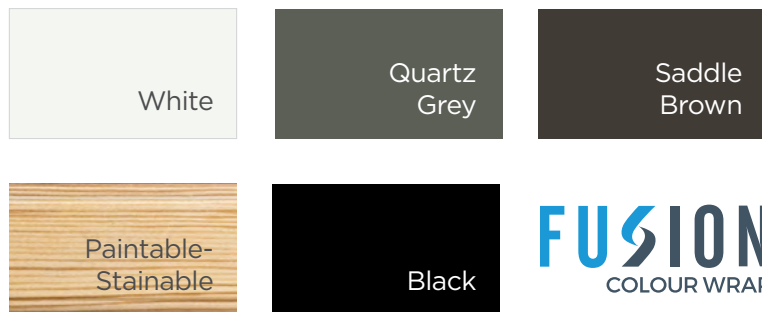
Design Series windows are available with double and triple-glazing. Insulated glass units with LoE and argon can be tailored to your requirements.

► Mbar Addition

Our Design Series Casement and Direct Set windows are made with a vinyl Mullion Bar, "MBar" profile. This design creates a stronger window with common-frame configuration and structural ratings only seen in steel-reinforced factory mulling.



Interior Frame Colours



More Fusion Colour Wrap™ information on page 10.



Design Series

ALUMINUM-CLAD VINYL WINDOWS PATIO DOORS

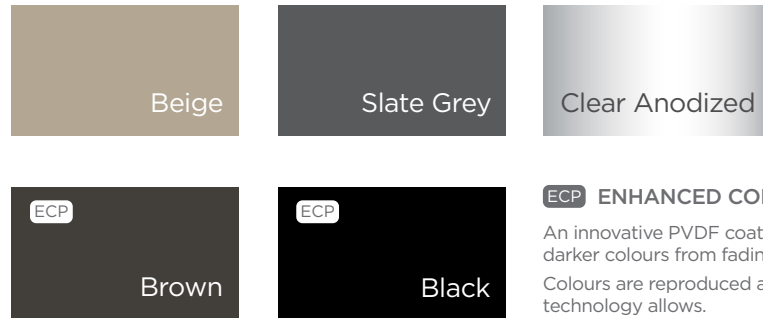


Match your **windows and patio doors.**

Our Design series windows pair well with our Design series patio doors for a seamless look for your home. With matching metal clad aluminum exteriors and Fusion Colour Wrap™ for the interior, your home will have high performing products throughout.



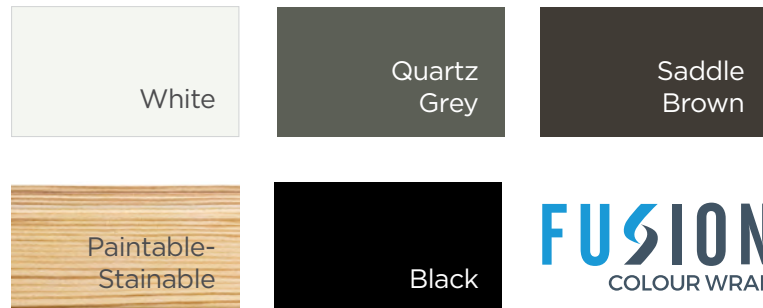
Exterior Frame Colours



ECP ENHANCED COLOUR PROTECTION

An innovative PVDF coating helps protect our darker colours from fading and chalking. Colours are reproduced as accurately as printer technology allows.

Interior Frame Colours



More Fusion Colour Wrap™ information on page 10.

Standard Features

► Design Series

Durable extruded aluminum cladding ensures lasting beauty. On the inside, high performance vinyl offers a clean, low maintenance look.

► Durable operation

Ultra-durable nylon tandem wheels leave no marks and provides a smooth sliding operation.

► Energy-saving glass

Design Series patio doors are designed for our northern climate, it increases comfort and lowers energy bills.

► Protected design

Raised aluminum rails protects the wheels from damage and jamming from dirt and debris.

► Added Security

With various handles and locking choices like toe locks the Design Series patio door provides a secured entrance way to your home.

Configurations and Sizes

2-Wide | XO, OX

Model Code	OSM Size (mm)
5068	1505 x 2014
50610	1505 x 2074
5080	1505 x 2394
6068	1810 x 2014
60610	1810 x 2074
6080	1810 x 2394
8068	2425 x 2014
80610	2425 x 2074
8080	2425 x 2394

3-Wide | XOF, FOX

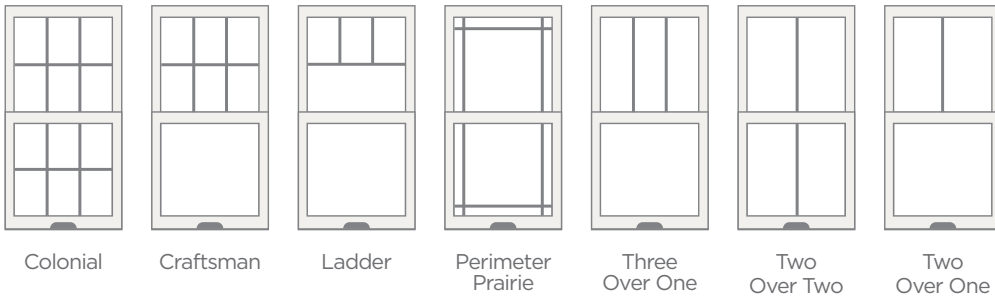
Model Code	OSM Size (mm)
7668	2169 x 2014
7668	2169 x 2074
7668	2169 x 2394
9068	2627 x 2014
90610	2627 x 2074
9080	2627 x 2394
12068	3549 x 2014
120610	3549 x 2074
12068	3549 x 2394

4-Wide | OXIO, OIXO

Model Code	OSM Size (mm)
10068	2924 x 2014
100610	2924 x 2074
10080	2924 x 2394
12068	3534 x 2014
120610	3534 x 2074
12080	3534 x 2394
16068	4764 x 2014
160610	4764 x 2074
16080	4764 x 2394

Accessories GRILLES, SDL'S, HARDWARE & JAMB LINERS

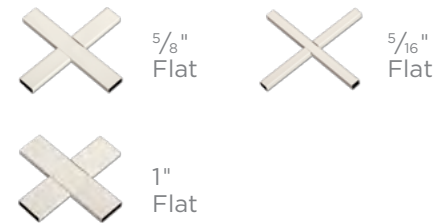
Grille Patterns & Colours



		AVAILABLE COLOURS					
		White	Beige	Black	Brown	Grey	Black/White
AVAILABLE SIZES	1" Flat Grille	•	•	•			
	5/8" Flat Grille	•	•	•	•	•	•
	5/16" Flat Grille	•	•	•		•	

In-Glass Grilles

These are installed between the glass panes. You'll never have to clean them.



Matching Fusion Colour Wrap™ laminated options available for interior colour match.

Jamb Liners

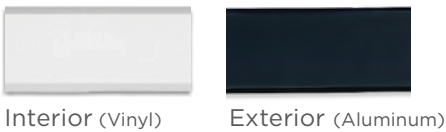
Jamb Liners (extension jambs) provide a clean transition between the window and interior trim. They cover the inside surface of the side jambs, the head jambs and sill. Available in vinyl, foam filled PVC, pine or pre-primed wood in sizes to fit all wall depths.



Simulated Divided Lites (SDL)

These are installed on the outer glass surfaces to simulate the look of divided panes. Exterior and interior materials and colours are matched to your windows.

1" SDL



2" SML



Hardware

Casement/Awning Classic



Casement/Awning Contemporary



Design Patio Door



A drywall return channel, which connects to drywall or plywood used as interior jamb on the window frame, is available in 1/2" and 3/4" sizes.



Glass & Glazing Options

LoE Glass

What is LoE? Low emissivity (LoE) coatings are applied to glass surfaces to reduce the transfer of heat through the window. High solar gain LoE lets more of the sun's heat pass into a room. Low solar gain LoE blocks more of the sun's heat.

ECO GAIN 180

High Solar Gain Glass

A great choice for our northern climate because it allows solar energy to pass through the glass to provide "free heat" in winter. LoE reflects heat back into the room, reducing home heating needs. Throughout the year, Eco Glass Gain 180 protects furnishings from fading and insulates against extreme temperatures.

ECO SHIELD 270

Solar Control Glass

A good choice for variable climates. In summer, Eco Glass Shield 270 can reduce solar heat gain by 50% or more compared to ordinary glass. In winter, argon fill and LoE work together to maintain comfort and reduce energy needs. Throughout the year, Eco Glass Shield 270 protects against fading without darkening your view.

ECO MAX SHIELD 366

Ultimate Performance Glass

This "spectrally selective" glass provides the highest level of comfort, energy savings and fade protection. Instead of one or two layers, the glass is coated with three layers of silver to block summer heat and retain your home's heat in winter - with no room-darkening tints and virtually no exterior reflectance.

Obscure Glass

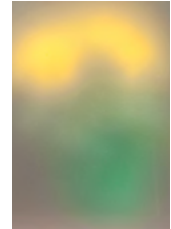
Obscure textured glass ensures privacy while allowing sunlight to brighten a room. It's ideal for bathrooms.



Pinhead



Rain

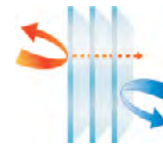


Satin Etch

Glazing Options



Double Glazed



Triple Glazed

Protective Film

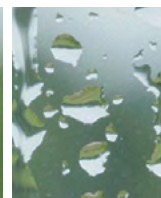


We help protect our windows and doors during transit and at the job site by applying a clear protective film on inner and outer glass surfaces. It eliminates masking and makes cleanup a snap. Simply peel it off to reveal spotless glass.

NEAT® Glass



NEAT®
glass



Ordinary
glass

This special coating reacts with the sun's rays to loosen dirt so it rinses away when it rains. With NEAT®, your windows will stay cleaner longer and be easier to clean. Available with Eco Shield and Max Shield glass.



Fusion Colour Wrap™



FUSION COLOUR WRAP™

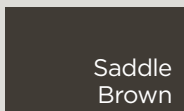
A cost-effective solution to add colour to the interior of your Design Series windows and patio doors.

Features & Benefits

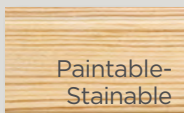
- ▶ Multi-layered film is applied to vinyl using polyurethane reactive hot melt to create permanent bond between wrap and vinyl.
- ▶ Easily withstands the most extreme heat and cold conditions.
- ▶ Extremely resistant to scratches and abrasions.
- ▶ Unaffected by environmental pollutants.
- ▶ Dirt and grime are easily cleaned away using normal mild household cleaners.

Frame Colours

Interior/Exterior Colours

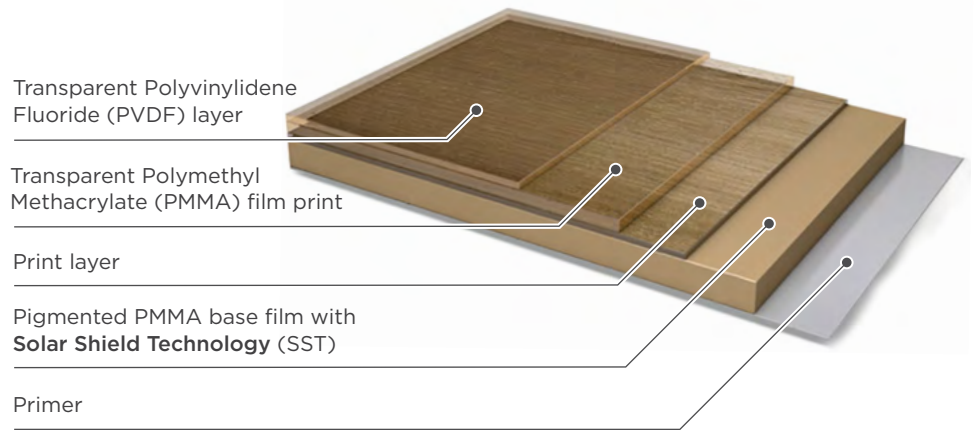


Interior Colour



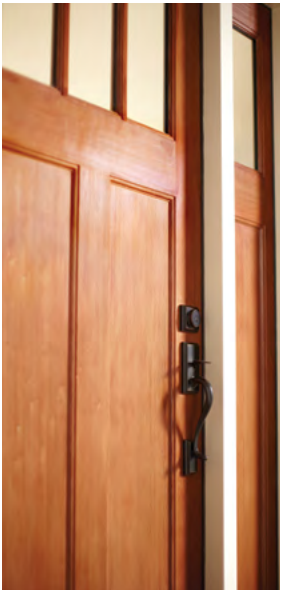
Colours are reproduced as accurately as printer technology allows.

Structure of the exterior film RENOLIT EXOFOL FX



Painting and staining Fusion Colour Wrap™ Paintable-Stainable is the responsibility of the customer.





For more information
visit plygem.ca