

PLY GEM — DESIGN SERIES ALUMINUM-CLAD VINYL WINDOWS
MITTEN

Design Series Aluminum-Clad Vinyl Windows

SKU: PGC-DESIGN

WARRANTY

Contact Pro Materials for current Ply Gem Design Series warranty terms — (416) 833-8900

COLOURS

11 available

The Ply Gem Design Series delivers premium aluminum aesthetics with the durability and low maintenance of vinyl. Featuring fully extruded aluminum exterior cladding in 11 colours — with Kynar®-based Enhanced Colour Protection on darker finishes — and white or beige vinyl interiors, the Design Series suits every architectural style. Available through Mitten Building Products and stocked at Pro Materials, the Design Series covers casement, awning, horizontal slider, single hung, fixed, and specialty shape configurations. Both double-glazed (DG1) and triple-glazed (TG1/TG2) options are available, with TG2 Eco Shield and Eco Max Shield glass qualifying for ENERGY STAR® across all three Canadian climate zones.

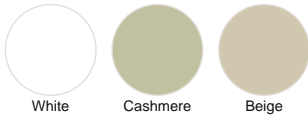
Key Features

- Fully extruded aluminum exterior cladding — 11 colours including White, Black, Slate Grey, Sable, Redwood, and Clear Anodized
- Double or triple glazing (DG1/TG1/TG2) with Eco Gain 180, Eco Shield 270, Eco Max Shield 366 glass options
- White or beige vinyl interior — low maintenance, never needs painting
- Horizontal sliders: non-marking rollers, Tri-Fin weatherstripping, knife latch lock, anti-lift sash security, equal sight line design
- Aluminum SDL (1") and SML (2") grille options matched to exterior cladding colour
- Optional 2-inch exterior brickmould
- Enhanced Colour Protection (ECP) on darker colours — Kynar®-based acrofluor coating resists fading and chalking
- ENERGY STAR® qualified in all Canadian climate zones with TG2 Eco Shield/Eco Max Shield glass on casement, awning, and fixed types
- Truth Encore® folding casement/awning hardware in 11 designer colour finishes
- Single hung: spring balance system holds sash open at any height; steel-reinforced top pull rail
- Steel reinforcement in vinyl components on casement and awning windows
- Jamb liners in 5 materials (vinyl, foam PVC, hem fir, oak, pre-primed wood) for any wall depth

Available Colours

NEUTRAL

3 colours



White

Cashmere

Beige

COOL

2 colours



Clear Anodized

Slate Grey

EARTH

4 colours



Sable

Taupe

Redwood

Brown

BOLD

1 colour



Hunter Green

DARK

1 colour



Black

INTERIOR FRAME

2 colours



White

Beige

Profiles & Specifications

3/4" CONTOUR

3/4" Contour Grille

In-glass grille sealed between the two panes — never needs cleaning. Curved contour profile gives a traditional divided-lite appearance. Available in White and Beige; two-tone option available.



Type	In-glass — sealed between panes
Width	3/4 in.
Profile	Contour (curved)
Colours	White, Beige (two-tone available)

1" CONTOUR

1" Contour Grille

Wider in-glass contour grille for a more substantial traditional look. Sealed between panes — maintenance free. Available in White and Beige.



Type	In-glass — sealed between panes
Width	1 in.
Profile	Contour (curved)
Colours	White, Beige
Note	Non-intersecting — can form a T but cannot cross

5/16" FLAT

5/16" Flat Grille

Slim in-glass flat grille for a contemporary minimal look. Available in White and Beige.



Type	In-glass — sealed between panes
Width	5/16 in.
Profile	Flat
Colours	White, Beige

5/8" FLAT

5/8" Flat Grille

Mid-width in-glass flat grille. Available in White, Beige, and Black (two-tone option available).



Type	In-glass — sealed between panes
Width	5/8 in.
Profile	Flat
Colours	White, Beige, Black* (two-tone available)

13/16" FLAT

13/16" Flat Grille

Wider in-glass flat grille. Available in White, Beige, Black, Redwood, and Brown.



Type	In-glass — sealed between panes
Width	13/16 in.
Profile	Flat
Colours	White, Beige, Black, Redwood, Brown

1" FLAT

1" Flat Grille

Widest in-glass flat grille. Bold Colonial divided-lite look. Available in White, Beige, Black, Redwood, and Brown.



Type	In-glass — sealed between panes
Width	1 in.
Profile	Flat
Colours	White, Beige, Black, Redwood, Brown
Note	Non-intersecting — can form a T but cannot cross

STANDARD

Standard Grille

Applied vinyl grille on the outer glass surface. Available in patterns: Standard, Half Standard, Perimeter, Heritage, Three Over One, Two Over Two, Two Over One. Custom 90xx configurations available with minimum 100mm bar spacing.



Type	Applied — outer glass surface
Patterns	Standard · Half Standard · Perimeter · Heritage · Three Over One · Two Over Two · Two Over One
Custom	90xx series: specify vertical (3rd digit) and horizontal (4th digit) bar count; min 100mm spacing

LADDER

Ladder Grille

Applied grille with vertical bars and horizontal rails — classic Colonial look. Multiple ladder patterns available including perimeter heritage variation.



Type	Applied — outer glass surface
Patterns	Ladder · Perimeter Heritage

DOUBLE LADDER

Double Ladder Grille

Applied grille with two sets of vertical bars for a more detailed Colonial appearance.

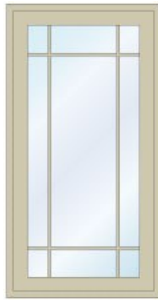


Type	Applied — outer glass surface
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HERITAGE

Heritage Grille

Applied Colonial-style grid with typical 180mm bar spacing. Available as single or double heritage patterns.



Type	Applied — outer glass surface
Spacing	Typical 180mm between heritage bars
Patterns	Single Heritage · Double Heritage · Heritage with Side Bars (300-series)

ALUMINUM SDL

Aluminum SDL / SML

Simulated Divided Lites with vinyl interior and aluminum exterior surface — matched to the window's aluminum cladding colour. Available in 1" SDL and 2" SML profiles.



Type	SDL/SML — vinyl interior / aluminum exterior
Profiles	1" SDL · 2" SML
Colours	Matched to aluminum cladding colour

Compatible Accessories

Truth Encore® Hardware — White

Truth Encore® casement and awning hardware in White. Sleek fold-away crank handle will not interfere with most window coverings. Concealed multi-point locking seals sash at multiple points simultaneously.

Truth Encore® Hardware — Beige

Truth Encore® casement and awning hardware in Beige. Fold-away crank handle with concealed multi-point locking system.

Truth Encore® Hardware — Champagne

Truth Encore® casement and awning hardware in Champagne. Fold-away crank handle with concealed multi-point locking system.

Truth Encore® Hardware — Faux Bronze

Truth Encore® casement and awning hardware in Faux Bronze. Fold-away crank handle with concealed multi-point locking system.

Truth Encore® Hardware — Chestnut Bronze

Truth Encore® casement and awning hardware in Chestnut Bronze. Fold-away crank handle with concealed multi-point locking system.

Truth Encore® Hardware — Matte Black

Truth Encore® casement and awning hardware in Matte Black — a popular contemporary finish. Fold-away crank handle with concealed multi-point locking system.

Truth Encore® Hardware — Brushed Nickel

Truth Encore® casement and awning hardware in Brushed Nickel (additional cost). Fold-away crank handle with concealed multi-point locking system.

Truth Encore® Hardware — Brushed Chrome

Truth Encore® casement and awning hardware in Brushed Chrome (additional cost). Fold-away crank handle with concealed multi-point locking system.

Truth Encore® Hardware — Western Pewter

Truth Encore® casement and awning hardware in Western Pewter (additional cost). Fold-away crank handle with concealed multi-point locking system.

Truth Encore® Hardware — Antique Brass

Truth Encore® casement and awning hardware in Antique Brass (additional cost). Fold-away crank handle with concealed multi-point locking system.

Truth Encore® Hardware — Oil Rubbed Bronze

Truth Encore® casement and awning hardware in Oil Rubbed Bronze (additional cost). Fold-away crank handle with concealed multi-point locking system.

Multi-Point Lock

Concealed multi-point locking system for Design Series casement windows. Single lever locks the sash at multiple points simultaneously for maximum security and a consistent seal against weatherstripping.

Installation Guide

- 1 **GLAZING:** Design Series windows are available in DG1 (double-glazed, OD = 0.75 in., one argon-filled air space) or TG1/TG2 (triple-glazed, OD = 1.36 in., two argon-filled air spaces). Direct Set windows use OD = 1.00 in. for DG1 — different from other window types.
- 2 **ALUMINUM CLADDING:** Fully extruded aluminum cladding is available in 11 exterior colours: White, Cashmere, Beige, Clear Anodized, Slate Grey, Sable, Taupe, Hunter Green, Redwood, Brown, and Black. Darker colours (Beige, Slate Grey, Taupe, Hunter Green, Redwood, Brown, Black) include Enhanced Colour Protection (ECP) — a Kynar®-based acrofluor coating that resists fading and chalking.
- 3 **CASEMENT OPERATION:** The concealed multi-point lock seals the sash at multiple points with a single lever — always close the sash snugly first, then engage the lock to pull it tight against the weatherstripping. Open fully to clean both glass surfaces from inside.
- 4 **SINGLE HUNG OPERATION:** Spring balances hold the lower sash open at any height. Steel reinforcement in the top pull rail adds structural integrity. The upper sash is fixed; only the lower sash operates.
- 5 **HORIZONTAL SLIDER OPERATION:** Sliders run on non-marking rollers. Tri-Fin weatherstripping on the operating sash prevents drafts, dust and moisture. Centre-mounted knife latch lock with anti-lift security feature prevents the sash from being lifted out.
- 6 **JAMB LINERS:** Available in vinyl, foam-filled PVC, hem fir, oak, or pre-primed wood to fit all wall depths. Drywall return channel available in 1/2" and 3/4" sizes for drywall or plywood interior jamb applications.



MITTEN

Ready to order?

Submit your spec list and we'll respond with pricing and availability - usually within one business day.

WEB

promaterials.ca

PHONE

(905) 836-7272

EMAIL

info@promaterials.ca

ADDRESS

Unit 5, 1235 Journey's End Cir, Newmarket, ON