

PLY GEM — ENVIRO SERIES VINYL WINDOWS
MITTEN

Enviro Series Vinyl Windows

SKU: PGC-ENVIRO

WARRANTY

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

COLOURS

2 available

The Ply Gem Enviro Series delivers triple-glazed performance in a contemporary casement and awning window designed for Canada's demanding climate. With slim vinyl frames, large unobstructed glass areas, and triple weather-stripping, the Enviro Series maximises energy efficiency and natural light. Available through Mitten Building Products and stocked at Pro Materials, the Enviro Series covers casement, awning, fixed, picture, and a full range of specialty shapes including curve-tops and custom rakes. TG2 glass options with Eco Shield 270 and Eco Max Shield 366 coatings achieve ENERGY STAR® qualification in all three Canadian climate zones.

Key Features

- Triple-glazed insulating glass — 3/3/3 mm, 1.36 in. total unit, argon fill in both air spaces
- Best U-factors: 0.15 (fixed/picture, TG2 Eco Max Shield 366)
- Truth Encore® fold-away crank hardware in 11 designer colours — will not interfere with window coverings
- Contemporary styling — slim frames and large glass areas for maximum light and views
- Complete shape library: casement, awning, fixed, picture, curve-top, rake, specialty shapes
- ENERGY STAR® qualified across Canadian climate zones with TG2 Eco Shield 270 and Eco Max Shield 366 glass
- Concealed multi-point locking system on casements — single lever seals sash at multiple points for maximum security
- Triple weather-stripping on all operating sashes — ultimate protection against air and water infiltration
- Special egress hardware available for casement windows
- Available in White and Beige with in-glass and applied grille options

Available Colours

NEUTRAL

2 colours



White



Beige

Profiles & Specifications

3/4" CONTOUR

3/4" Contour Grille

In-glass grille sealed between the two panes — never needs cleaning. The curved contour profile gives a traditional divided-lite appearance.



| | |
|---------|---------------------------------|
| Type | In-glass — sealed between panes |
| Width | 3/4 in. |
| Profile | Contour (curved) |

1" CONTOUR

1" Contour Grille

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



| | |
|---------|---------------------------------|
| Type | In-glass — sealed between panes |
| Width | 1 in. |
| Profile | Contour (curved) |

5/16" FLAT

5/16" Flat Grille

Slim in-glass flat grille for a contemporary minimal look. Maximises visible glass area while adding divided-lite definition.



| | |
|---------|---------------------------------|
| Type | In-glass — sealed between panes |
| Width | 5/16 in. |
| Profile | Flat |

5/8" FLAT

5/8" Flat Grille

Mid-width in-glass flat grille. Balances visibility and a classic divided-lite appearance.



| | |
|---------|---------------------------------|
| Type | In-glass — sealed between panes |
| Width | 5/8 in. |
| Profile | Flat |

13/16" FLAT

13/16" Flat Grille

Wider in-glass flat grille with a bold, traditional bar width that suits classic architectural styles.



| | |
|---------|---------------------------------|
| Type | In-glass — sealed between panes |
| Width | 13/16 in. |
| Profile | Flat |

1" FLAT

1" Flat Grille

Widest in-glass flat grille option. Bold grid creates a strong Colonial divided-lite appearance. Sealed — no cleaning required.



| | |
|---------|---------------------------------|
| Type | In-glass — sealed between panes |
| Width | 1 in. |
| Profile | Flat |

STANDARD

Standard Grille

Applied grille pattern installed on the outer glass surface. Simulates divided-lite appearance with a uniform grid. Available in Standard, Half Standard, Three Over One, Two Over Two, and Two Over One layouts.



| | |
|------------|-------------------------------------------------------------------------|
| Type | Applied — outer glass surface |
| Variations | Standard · Half Standard · Three Over One · Two Over Two · Two Over One |

LADDER

Ladder Grille

Applied grille with vertical bars and horizontal rails at top and bottom — a classic Colonial look. Also available as Perimeter Heritage variation.



| | |
|------------|-------------------------------|
| Type | Applied — outer glass surface |
| Variations | Ladder · Perimeter Heritage |

DOUBLE LADDER

Double Ladder Grille

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



| | |
|------|-------------------------------|
| Type | Applied — outer glass surface |
|------|-------------------------------|

HERITAGE

Heritage Grille

Applied Colonial-style grid with even bar spacing across the full pane — complements traditional home styles.



| | |
|------|-------------------------------|
| Type | Applied — outer glass surface |
|------|-------------------------------|

Compatible Accessories

Truth Encore® Hardware — White

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

Truth Encore® Hardware — Beige

Truth Encore® casement and awning window hardware in Beige. Concealed multi-point locking system with fold-away crank handle to match Beige frames.

Truth Encore® Hardware — Champagne

Truth Encore® casement and awning window hardware in Champagne. Concealed multi-point locking system with fold-away crank handle.

Truth Encore® Hardware — Faux Bronze

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

Truth Encore® Hardware — Chestnut Bronze

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

Truth Encore® Hardware — Matte Black

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

Truth Encore® Hardware — Brushed Nickel

Truth Encore® casement and awning window hardware in Brushed Nickel. Concealed multi-point locking system with fold-away crank handle.

Truth Encore® Hardware — Brushed Chrome

Truth Encore® casement and awning window hardware in Brushed Chrome. Concealed multi-point locking system with fold-away crank handle.

Truth Encore® Hardware — Western Pewter

Truth Encore® casement and awning window hardware in Western Pewter. Concealed multi-point locking system with fold-away crank handle.

Truth Encore® Hardware — Antique Brass

Truth Encore® casement and awning window hardware in Antique Brass. Concealed multi-point locking system with fold-away crank handle.

Truth Encore® Hardware — Oil Rubbed Bronze

Truth Encore® casement and awning window hardware in Oil Rubbed Bronze. Concealed multi-point locking system with fold-away crank handle.

Multi-Point Lock

Concealed multi-point locking system for Enviro Series casement windows. Locks the sash simultaneously at multiple points with a single convenient lever for maximum security and a consistent seal against weatherstripping.

Installation Guide

- 1 **GLASS:** Triple-glazed units use a 3/3/3 mm glass configuration with a total IG unit thickness (OD) of 1.36 in. Both air spaces are argon-filled. Glass options are TG1 (single Low-E) and TG2 (double Low-E), available with Eco Gain 180, Eco Shield 270, or Eco Max Shield 366 coatings.
- 2 **CASEMENT OPERATION:** Open the window fully to access both interior and exterior glass surfaces for cleaning from inside. The multi-point locking system will lock even if the sash is not fully latched — always close the sash snugly first, then engage the lock lever to pull the sash tight against the weatherstripping.
- 3 **AWNING OPERATION:** Awnings open outward from the bottom and do not meet Canadian Egress requirements. Limit sash weight to 60 lbs. Open fully for cleaning access from inside the home.
- 4 **HARDWARE LUBRICATION:** Apply a light coating of silicone lubricant on the crank mechanism and pivot points annually. Do not use petroleum-based lubricants — they stay wet and attract dirt. Coastal and high-dust environments require more frequent maintenance.
- 5 **WEATHERSTRIPPING:** Triple weather-stripping on all operating sashes provides protection against air and water infiltration. Inspect annually — replace if compressed or damaged to maintain energy efficiency.
- 6 **CLEANING GLASS:** Use mild soap and water with a soft cloth. For exterior glass on casement and awning windows, open the sash to the full open position to clean from inside. Do not use abrasive cleaners or solvents on vinyl frames or insulating glass units.



MITTEN

Ready to order?

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

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