

# CALO® Series

*comfort | durability | quality | performance*

Calo**Patio**®

Calo**Fixe**®

Evo**Patio**®



Your light provider

**FENPLAST**  
PVC Sliding Doors

## comfort

Fenplast PVC sliding doors are designed and manufactured by always keeping in mind the comfort they ensure.

Comfortable because they are warm, but also because they are designed knowing that you will have to clean them (as few grooves as possible), and open and close them often.

## durability

The purchase of sliding doors is a major investment and a wise consumer will want to be sure to make the right choice on a long-term basis.

Fenplast is one of the rare Canadian manufacturers which are totally integrated vertically and which therefore controls its input: from the powder required for the extrusion of PVC profiles to the glass and sealants used in the sealed units and light-reflecting paint that may be applied to the sliding doors. Combined with hardware having the best reputation and which is the most ergonomic, these sliding doors will ensure you have peace of mind for many years to come.

## quality

Using the latest robotics and automated equipment linked to computer servers, manufacturing quality sliding doors has become an obsession. Whether they are for the do-it-yourselfer, for professional renovators, for homebuilders or ultimately for users, Fenplast sliding doors are sure to please by their precise construction, their ease of installation and their glossy finish. Just like jewels in their case, they are packaged so as to ensure their protection for delivery to your home.

## performance

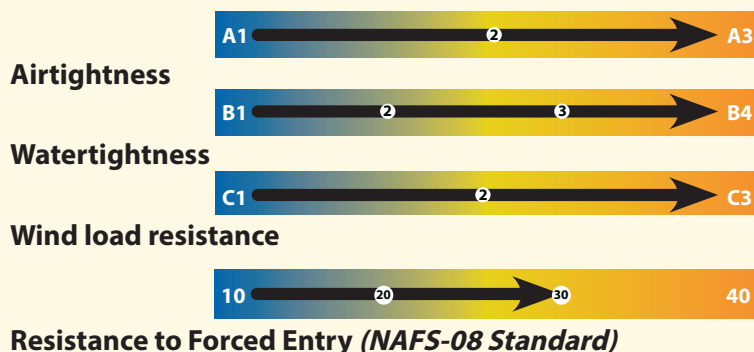
Various Canadian agencies have devised standards for measuring the performance of a sliding door.

## Sliding door efficiency against the elements:

### CAN/CGSB-82.1-M89 Standard

In Canada, the CAN/CGSB-82.1-M89 Standard applies to any window manufacturer who wants to offer a performance product.

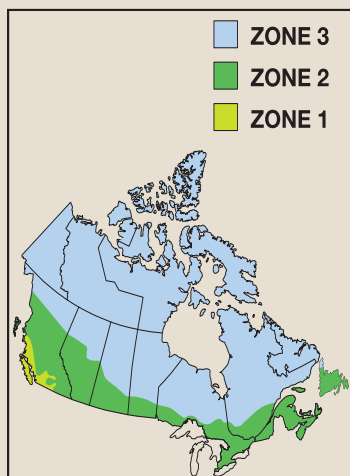
#### This standard establishes the following parameters:



MAXIMUM  
Canadian Rating



## Energy Star® certification



In February 2015, the Office of Energy Efficiency (OEE) has applied a revision of the ENERGY STAR® certification for the fenestration product industry.

Just like kitchen appliances and other everyday products, consumers may determine the energy performance of their fenestration products simply by reading the sticker applied on certified products.

As shown in the enclosed map, Canada is divided into 3 distinct zones, each bearing one of the numbers 1-2 or 3. Therefore, depending on its performance, a sliding door will be classified according to the number of zones passed. You will note that the classification is valid for one model of sliding door with one type of glass and one width of grilles. **A product appropriate for a greater number of zones will have better energy performance.**

The **CaloPatio®** sliding door line was designed to meet the specific needs of new constructions and renovations.

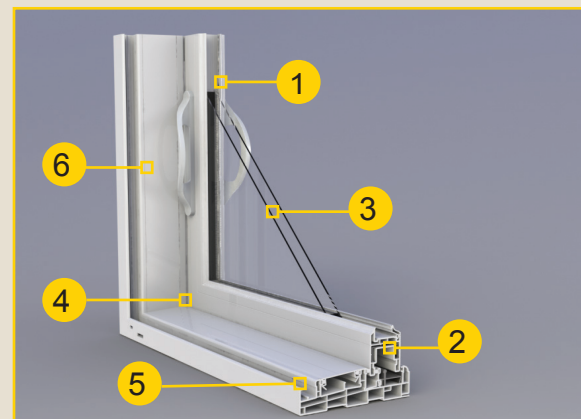
### 100% PVC Sliding Door

- 1 7 ¼" Frame and sashes entirely in PVC. The sashes are steel reinforced.
- 2 Double weather-stripping around the perimeter.
- 3 Energy savings: Possibility to insert a triple glazing with a nominal thickness of 1 ¼".
- 4 All joints are fusion welded at 45°, thus avoiding the use of glue or other sealant that will age badly.
- 5 All cavities are covered by a PVC cladding.
- 6 Installed into the house framing without visible head screws.

#### Additional Features:

- Elaborate design and manufacturing, making cleaning easier
- Smooth, effortless ball-bearing action for all the different types of openings and closings.
- The sealed units and PVC are under Life Warranty.
- Best performance levels in Canadian tests (CAN/CGSB-82.1-M89.)
- Security: Provides superior forced-entry protection (F2.)
- Can be combined with other Fenplast products, giving you more options and variety regarding grilles, transoms and even our popular fake mullions.

# CaloPatio®



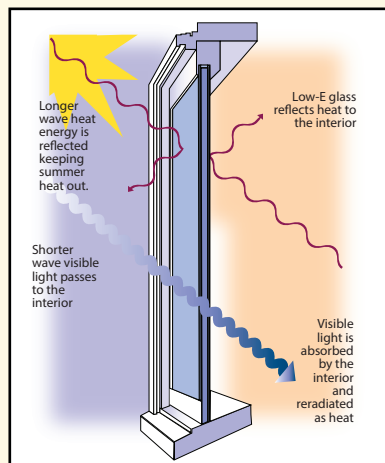
## Sealed Unit

When choosing a sliding door, it is important to pay attention to the type of glazing option. The type of sealed unit on a sliding door, due to glass dimension, seriously affects its insulation factor. Because the cost of heating is continuously increasing, a glass with high energy properties will shortly pay for itself in economy and comfort.

There are three ways of increasing the insulation of a sealed unit built with two panes of glass:

### 1. Applying a transparent metallic coating.

Glass having a metallic oxide coating is called low emissivity glass (also known as Low-E). You will also have the benefit of variable protection against the sun's UV rays which damage carpets and fabrics.



*Fenplast offers, as an option, the **LOW-E ES®** glass, designed to maximize the energy potential of a sliding door using an exceptional ER (Energy Rating) indicator.*

### 2. Replacing the air between the two panes of glass with an inert gas.

Inert gas between the two glass panes reduces conductivity (when compared to air) and increases the temperature of the internal surface of the sealed unit. Argon is the gas most often used.

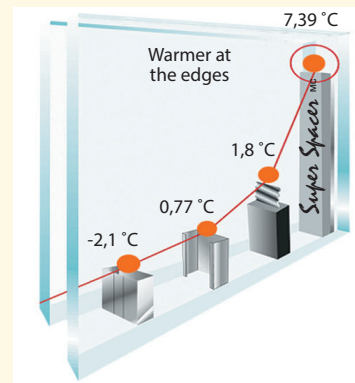
*All sealed units manufactured by Fenplast are injected with Argon gas to a minimal and certified rate fill of 95%, thereby maintaining the warmth of your home without any additional expense.*

### 3. An insulating glass spacer.

The glass spacer is the part that separates the two panes of glass along the perimeter of the sealed unit and that allows to reduce the conductivity and offer superior insulation.

Several types of insulating glass spacers are available and fill this function with varying degrees of success.

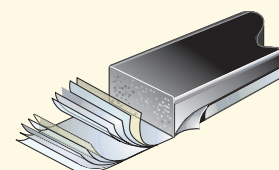
#### Comparison of different spacers



Sightline temperature

*Fenplast uses an insulating spacer, which is approved by NASA and made of double sealed structural foam edge called the **Super Spacer™**.*

*This type has all the advantages of a non-metallic insulating glass spacer while maintaining the features of durability and gas retention which meet the highest international standards.*



Super  
Spacer™

EdgeTech™



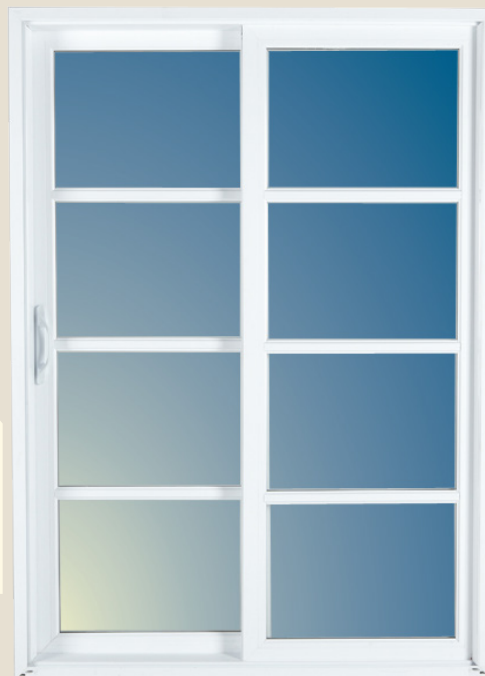
# CaloPatio®

## Sliding Door



9 Feet

Available in a two or three panels version. See table on page 5 for standard dimensions.



5 Feet

This sliding door stands apart by its rigid frame, made entirely of insulating multi-cavity PVC, making it exceptionally sturdy and energy efficient. With its elegantly streamlined colonial-style sashes, it matches all Fenplast product lines. Its airtightness is guaranteed with its continuous double weather-stripping around the perimeter and strong interlock that are also fitted with double weather-stripping, providing it with unique performance.

You can enhance your CaloPatio® door with decorative, security and even energy options, by using triple glazing for unparalleled efficiency.

## Basic Hardware



### Truth™ "Allure" Handle

Stylized handle with double mortise lock made of a single piece of aluminum, providing durability and security.

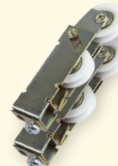
Its contemporary and fine profile reduces interference between the outside screen, and inside curtains and blinds, and allow for easy opening of the sliding panel.



### Double Mortise

The double mortise ensures greater security than a single mortise or other type of surface lock.

This system, with its double opposing hooks, makes it virtually impossible to lift the panel from the outside.



### Roller Wheels

The tandem nylon roller wheel system provides smooth, self-lubricated radial movement on the rail. Its treated metal casing is wear and corrosion resistant.

### "Design" Screens



This screen is provided with a robust extruded aluminum frame and features a few significant advantages.





# CaloFixe®



If your door system needs a transom or a rectangular side panel, the CaloFixe® PVC frame, 7¼" thick, matches beautifully the door appearance, providing an aesthetically pleasing harmony.



6 Feet

Sliding door with the *Élégante*® kit and the EvoPatio® panel.

Details on these two options are on the next page.

## Standard Dimensions\*

Total measurements / 2 panels

X = Mobile panel  
O = Fixed panel



3 panels

Width

58<sup>1/2</sup>

70<sup>1/2</sup>

82<sup>1/2</sup>

94<sup>1/2</sup>

85<sup>3/8</sup>

103<sup>3/8</sup>

121<sup>3/8</sup>

139<sup>3/8</sup>

Height

79<sup>1/2</sup>

58<sup>1/2</sup>

70<sup>1/2</sup>

82<sup>1/2</sup>

94<sup>1/2</sup>

85<sup>3/8</sup>

103<sup>3/8</sup>

121<sup>3/8</sup>

139<sup>3/8</sup>

81<sup>3/16</sup>

\*For custom sizes, see p.6

PERFORMANCE based on the CAN/CGSB-82.1-M89 Standard

ENERGY RATING\*

Air-tightness	A-3
Water-tightness	B-4
Windload resistance	C-3
Forced Entry (NAFS-08 Standard)	Level 30

Double glass	RE Rating	CANADA Zones
Clear glass	-	1
Low-E ES® glass	33	2

Triple glass	RE Rating	CANADA Zones
1 Low-E-ES® glass	29	3
2 Low-E-ES® glass	42	3

\* Without grilles or EvoPatio® panel. See the rating with EvoPatio® at fenplast.com

# Options



## Decorative

### *Élégante®*

The following three elements:

Signature handle, threshold aluminum inserts and the Deluxe screen can be combined in the advantageous *Élégante®* option kit, where you will benefit the price of an ensemble.

These elements can also be ordered separately.

#### Aluminum Inserts



These inserts give a final touch to the door, hide the screen groove and facilitate cleaning and maintenance of the sliding door threshold.

#### Truth™ Signature Handle



Stylized handle with double-mortise lock, which is easy to handle. Available in different choices of decorative finishes: Oil Rubbed Bronze, Satin Nickel, Brass, Antique Brass, Pewter and White.

#### EvoPatio® panels



Give a "French door" look to your sliding door with these thermoformed PVC panels replicating the appearance of Evolution panels® used on our steel door.

#### Integrated Blinds

Novatech's **Discretion** integrated horizontal retractable blinds are definitely an interesting option. They are made out of aluminum (white only) and only available in the most popular standard dimensions.



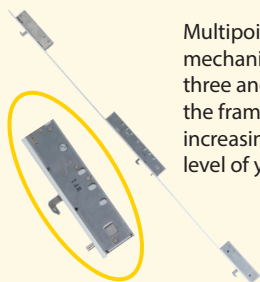
## Security

#### Security Bar



An aluminum bar attached on the frame, which unfold onto the edge of the mobile panel and prevents it from opening.

#### Multipoint



Multipoint locking mechanism provides three anchor points in the frame, therefore increasing the security level of your sliding door.

#### Cylinder Lock



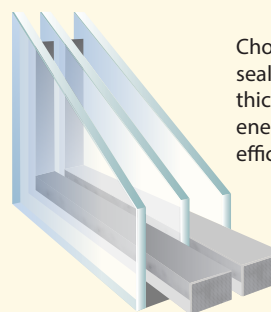
To lock the sliding door from the outside and increase your security.

#### Ventilation Lock



Easy to operate by foot, this lock is the security solution allows you to lock the door with a 3" gap for ventilation. It can be installed in the threshold or at the head of the door.

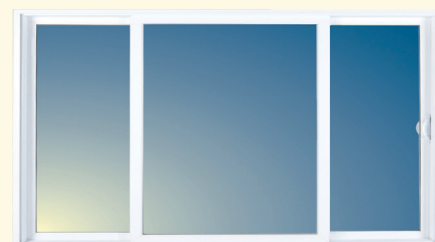
#### Triple Glazing



Choose a triple glazed sealed unit of 1¼" overall thickness, for maximum energy and acoustical efficiency.

#### Non-standard dimensions

We can make custom size sliding door, according to your specific needs.



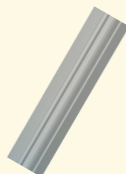
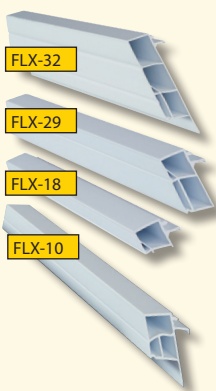


## Exterior mouldings

Different exterior mouldings can perform an installation according to the requirements for your project.

### PVC mouldings

Various exterior PVC mouldings allow you to make an installation according to the Fenplast windows and doors.

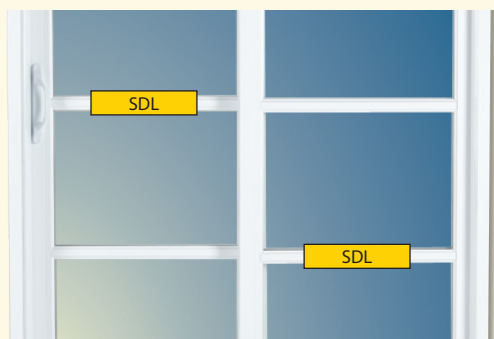


### Brick mould

This brick mould, made of two parts of aluminum, guarantees a superior finish. This moulding is available in two thicknesses: 1" and 2".

## Fake mullion (SDL)

Another way of giving a distinctive look to a door or a window is to add fake mullions (SDL) on the glass surface. These fake mullions measuring 13/16", 1 1/8", 1 5/8" or 2 1/16" in width are glued directly on the sealed unit with tape especially developed for this application. These fake mullions may be applied only on the outside glass surface or on both sides of the unit. The addition of an integrated muntin bar that is aligned with the mullion greatly improves the esthetic aspect of the windows and doors set.

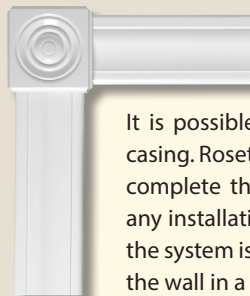


## Jamb extensions

Three finishes are available: PVC-cladded pine, select pine or oak appliqué. These jamb extensions may be inserted in the slot [insertion option] of the sliding doors frame.



# Options

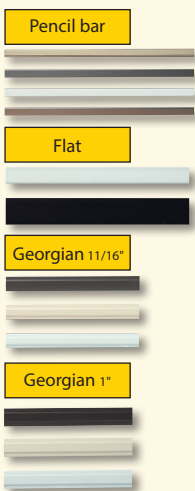


## Casings and rosettes

It is possible to add in our doors and windows, a full PVC casing. Rosettes held in place with a screw hidden in its center complete the installation. This esthetic addition completes any installation in a jiffy and eliminates painting. Even more, the system is designed to be removable if you decide to paint the wall in a few years.

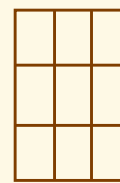
## Grilles

An economical but nevertheless very esthetic way of personalizing a home is to add grilles to the windows and doors. The muntin bars are inserted between two sheets of glass, thereby avoiding tedious maintenance without voiding the warranty of the sealed units.

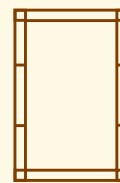


Three types of muntin bars are offered: pencil bar type, flat, or Georgian (colonial), the most popular, which is available in width of 11/16" and 1".

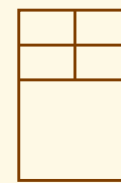
They may be assembled in a traditional "rectangular" manner, a "contour" or "prairie" manner, or even "partially". You can even combine them with a simulated divided lite (SDL) to enhance this custom feature.



rectangular



contour



partial

# Paint

The PVC extrusions used in the manufacturing of Fenplast sliding doors are made out of white resins. Fenplast offers the possibility of having the outside or/and inside of the sliding doors with a choice of more than 20 standard colours or with the specific colour you would like to have.

The paint used for this application is especially formulated to prevent the heat absorbed by it from being transferred to the material behind. In doing so, the materials maintain their dilation and contraction properties almost intact, thereby allowing them to be painted from pale to dark colours.





# The company



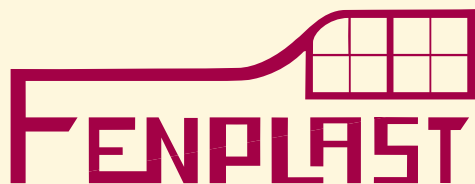
**Fenplast** has been manufacturing high quality fenestration product since 1989. Located in Candiac on the South Shore of Montreal, **Fenplast** has gradually become vertically integrated. It started off assembling PVC windows; it then designed and extruded all the profiles used in its products. Integration continued when **Fenplast** decided to produce its own sealed units using *Super Spacer™*. This means high performance products manufactured with components controlled at all steps of the production process to ensure enhanced uniformity and durability.

**Fenplast** defines itself as "Your light provider". It designs all its windows and doors with jambs that obstruct as little as possible. This feature allows light to stream in without hindrance. A choice of hi-performance glass allows you to decide on whether you want maximum performance from your windows and/or doors or a restriction in the heat gain due to the type of glass used.

**Fenplast** windows and doors are known to be at the forefront of your needs, as much as by their refined design as by their sound and thermal insulating features.

## Warranty

**FENPLAST** offers a limited lifetime warranty on the PVC jamb and profile extrusions, the break in the sealed joint of sealed units and the hardware integrated with its doors and windows. This warranty is completely transferable as long as the owner of the building can provide the contract or original purchase invoice. We strongly suggest that you read the "WARRANTY" brochure to find out about the details of application, including restrictions and exceptions.



Candiac, Quebec | 1-888-FENPLAST  
[www.fenplast.com](http://www.fenplast.com)



CALO\_A\_15

Printed in Canada.