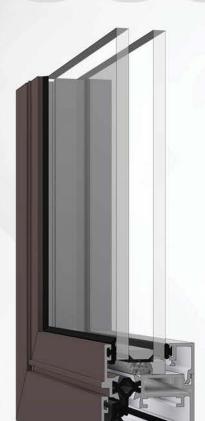


Commercial Applications Group Casement Inswing/Fixed Thermal Aluminum Window

G800 Series



CW-PG70-C

Peerle has do toward manuf

Peerless Commercial Applications Group (CAG) has created a window specifically geared toward low rise wood structures. Peerless CAG manufactures superior aluminum energy efficient

windows and doors. The G800 series is a Commercial Window and is rated according to Fenestration & Glazing Industrial Alliance (FGIA).

Commercial windows are commonly used in low and mid-rise buildings where larger sizes, higher wind loading requirements, limits on deflection, and heavy use are expected. Peerless CAG goes above and beyond by life-cycle testing our G800 product which tests the durability of our product. Life-cycle testing models the normal wear that can be expected due to the typical number of basic operating cycles and locking hardware opening/closing cycles experienced during the life of a typical product. Air leakage and water penetration tests are conducted both before and after life-cycling to evaluate any performance changes. There must be no damage to hardware and other components that would render the window inoperable. Life-cycle testing ensures that a window will last for many years.

Comparison of Commercial, Light Commercial, and Residential Windows

	Product Designation	Minimum Test Size	Deflection at Design Pressure	Minimum STP Structural Test Pressure
Casement	Class R-PG15-C	23.62"x59.06"	Reported	22.56 psf
	Class LC-PG25-C	31.50"x59.06"	Reported	37.59 psf
	Class CW-PG30-C	31.50"x59.06"	L/175	45.11 psf
Fixed	Class R-PG15-FW	47.24"x47.24"	Reported	22.56 psf
	Class LC-PG25-FW	55.12"x55.12"	Reported	37.59 psf
	Class CW-PG30-FW	59.06"x59.06"	L/175	45.11 psf

U-Value

U-value is a window's overall ability to resist heat flow. The lower the u-value the more heat a window will keep out during summer, and the more cold it will keep out during winter. A standard G800 window achieves a low 0.32 U-Value



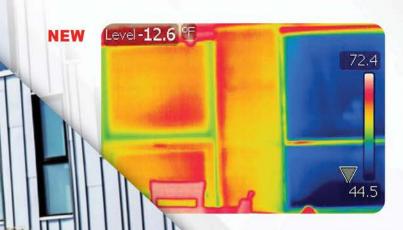


PHIUS

Passive House Institute of the United States is a non-profit organization that's purpose is to make Net Zero building a mainstream market standard. PHIUS sets strict standards for energy performance; buildings that meet these ratings use 40-60% less energy. The Peerless G863 Fixed beside Casement Inswing window is PHIUS certified for energy efficiency.

SHGC

SHGC measures how much heat is transmitted through a window. The lower the SHGC the better the window resists heat flow through the window. **G800 series meets a low 0.23**





Comparison of old versus new windows with an outside temperature of 30°F

Americans with Disabilities Act (ADA)

The Americans with Disabilities Act (ADA) became law in 1990. The ADA is a civil rights law that prohibits discrimination against individuals with disabilities in all areas of public life. Including: jobs, schools, transportation, and all public and private places open to the general public. The purpose of the law is to make sure people with disabilities have the same rights and opportunities as everyone else.

ADA handle hardware needs to operate at no more than 5 pounds of force, we can achieve that requirement on inswing products. Handle location is also important; a casement inswing makes the window accessible by giving you the flexibility to move the handle.

OPERATING FORCE Less than 5 lbs.



Painted-to-Match Removable Hardware

Preserving the aesthetic of a room, we powder coat all of our hardware to match the window frames for a seamless look. The G800 window comes with a removable handle to reduce hardware damage during shipping, secure the building while it is being finished, and increase shipping efficiency with more windows able to be loaded on a single pallet.



Standard Glass

Cardinal 366 Low E coating achieves some of the best energy performance for glass available in the industry. Paired with Neat+ a coating that uses a combination of static dissipation to reduce the amount of dust on the window surface, your building will stay looking fresh for years to come!

1" IGU: 1/4" Cardinal 366 x 3/16" clear annealed CARDINAL IG





Powder Finish

The G800 window system offers a durable two color powder coat finish, one color for the interior and one color for the exterior. Due to the versatility of aluminum there are many color options available. Peerless windows have the best warranty available with a 10 year product warranty and a 20 year finish warranty. Extended warranties are available depending on the application and location of a project.

Metallic colors available with up-charge

Anti-microbial Powder

How many times have you touched a window frame or handle without even thinking about it? Peerless anti-microbial powder coating is custom-formulated coatings that suppress the active growth of micro-organisms & bacteria. Our powder supplier has done many lab tests that show a significant decrease in the number of living bacteria in 24 hours. Choosing products with an anti-microbial powder coat finish doesn't mean you will never have to clean your window sills again, but it is an easy way to make homes safer for everyone.

Standard Powder Coat Finish Options



Dark Bronze

Charcoal

Shown colors are visual representation and may appear slightly different on powder chips.

Performance Values of the G800 Series

G800 window series are top performing windows in the commercial window industry with enhanced air, water, and thermal performance when compared to other industry standard products. There are many different windows within the commercial window market, including aluminum, fiberglass, and vinyl windows.



Benefits of aluminum windows over fiberglass and vinyl windows:

- Lower U-values than fiberglass windows due to pockets in frames
- · Bigger sizes for daylighting and better views
- No cladding is needed with aluminum windows
- · Huge range of color selection with up to 30 year warranty for powder coat finish
- Painted-to-match powder coated hardware for clean aesthetic
- Aluminum windows can withstand higher wind pressures; windows will need less steel to meet high design pressures
- · Compression gaskets and center vent gasket aid in air and water performance
- Option for co-extruded accessories for easy installation
- Aluminum windows withstand the test of time and will not warp or sag

CERTIFICATION

AAMA Standard/Spec
AAMA Rating
Standard Test Size
Air CFM @1.5 psf
Water test pressure
Structural load test pressure
U Value
U Value (with Low E Powder Finish)
STC (Sound Transmission Class)

OITC (Outdoor Indoor Transmittance Class)

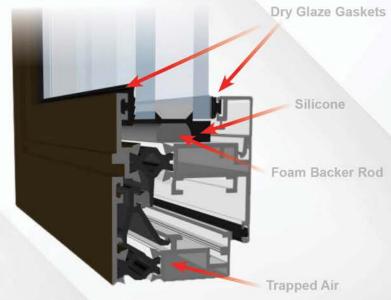
G800

A4440-17 CW-PG70-C 72"x72" <0.1 cfm/sf 12 psf

105 psf 0.32

0.30

35-39 21-31



Home Owner

Third-Party Certifications

- NFRC certified window for performance
- · IGCC certified insulting glass for long life

Comfort & Safety

- Reduces home energy consumption
- · Reduces air & dust flow into the home
- Additional comfort of outside noise reduction
- · Multi-point locks for enhanced home security
- · Optional key-operated locks available
- Anti-microbial finish to reduce bacteria growth and transfer

Low Maintenance

- High-end durable powder coat finish meets all design needs
- Durable metal handle and hinges for extended life
- Easy-to-adjust hardware, if necessary

Casement Inswing by Fixed PRODUCT FEATURES

Frame Depth

15/3

Typical Wall Thickness

.079"

1" IGU(1/4"(LowE366-#2) x 1/4"

(clear)

Exterio

Frame Choices

- Continuous head/sill/jamb eliminates mullions
- Flange or integral trim designs can eliminate field trimming

Easy Installation

Installer

- Pre-drilled installation holes reduce installation time
- Easy-to-remove film keeps glass clean
- Dry exterior gaskets ensure easy re-glazing if necessary

Exterior/Interior Glazing Material Santoprene/Santoprene

Thermal Break Design

Polyamide strut

SHGC/U-value

0.23/0.32



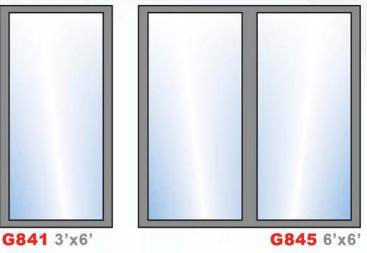
How can configurations benefit you?

- Similar or same sight lines
- Can clean from interior of building
- Can Meet 5 lb. ADA operating force with no twisting or grasping of hand or wrist
- Performs better on air, water, thermal, structural, and sound tests
- Compression gaskets provide tighter seal than old wool pile technology
- · Dynamic wind can cause damage to windows and hardware on project out
- No wicket screen on project in
- Handle hardware is higher from floor on a project in window

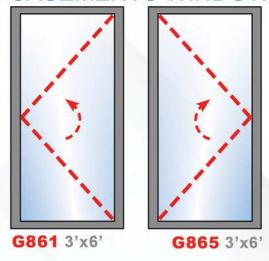
Configurations and sizes



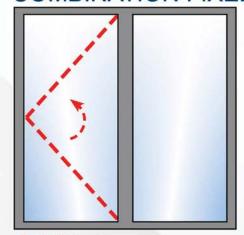
FIXED WINDOWS

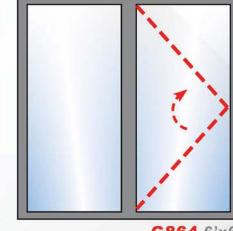


CASEMENTS WINDOWS



COMBINATION FIXED AND CASEMENT





Seamless look

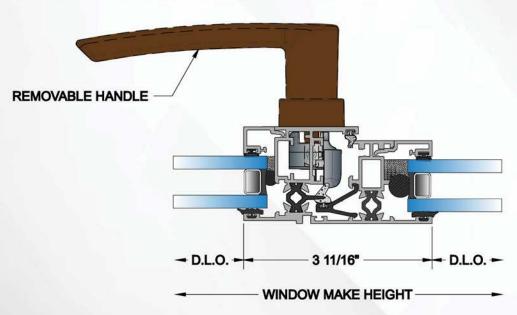
OPERABLE JAMB OPERABLE JAMB HANDLE 4 7/8"

OPERABLE HANDLES

WINDOW MAKE HEIGHT -

Ask your Application Engineer to see other options.

OPERABLE HANDLE AT MEETING RAIL



Window handles will be painted-to-match the window frames for a seamless look.



Benefits OF CO-EXTRUDED FRAME OPTIONS



Job sites are often delayed due to budgets and installation complications.

Peerless co-extruded accessories are designed to save our customers time and money. We offer options of co-extruded panning, integral trim, nailing fin, and extended legs in a variety of combinations.

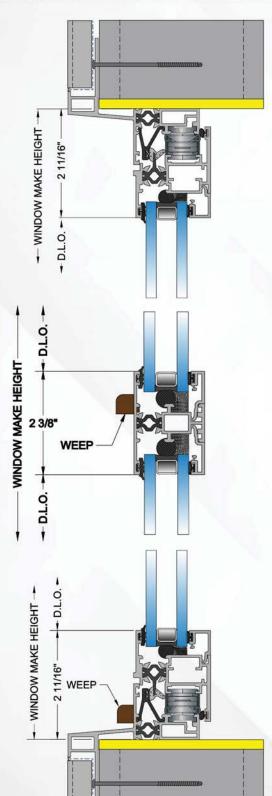
- Co-extruded accessories can have pre-drilled installation holes to meet engineering calculations
- · No labor intensive field trimming when accessories are co-extruded on window frame
- Reduces the number of extra parts and pieces required for field installation
- Faster installation time than other separate installation options
- · Ability to get aesthetically pleasing exterior sight-line
- · Saves money on time and labor expenses

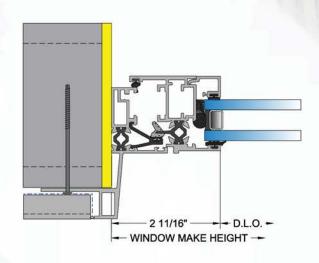


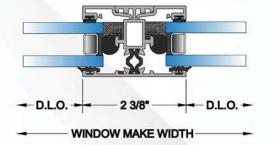


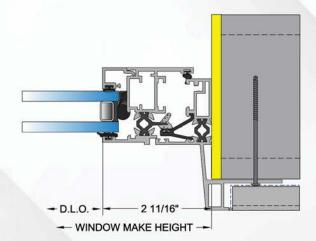
Options CO-EXTRUDED FRAME

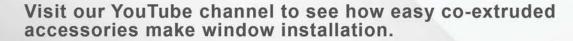
Keyed Stucco Pan with Nailfin





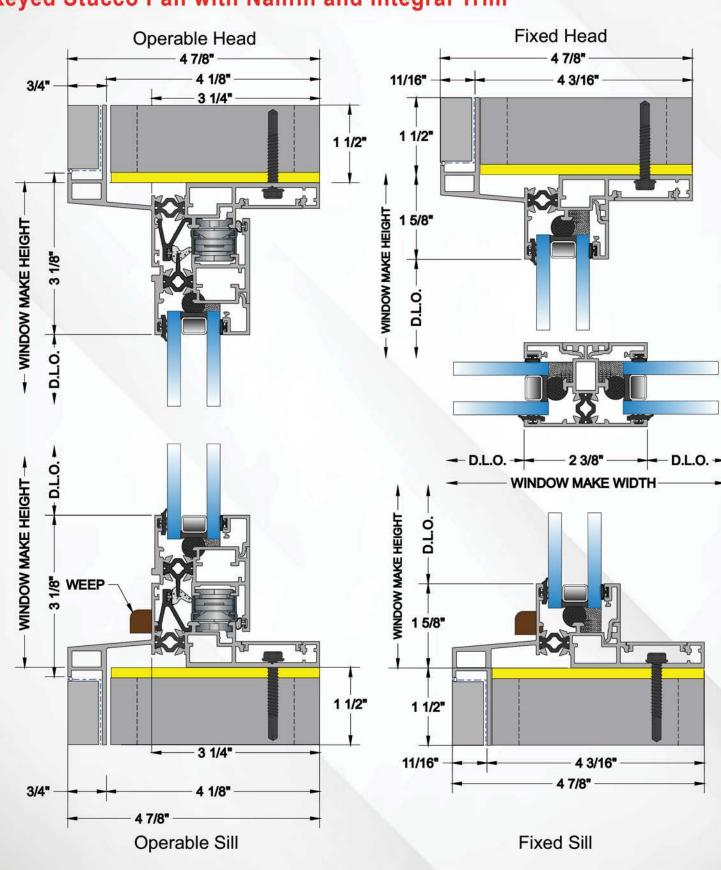






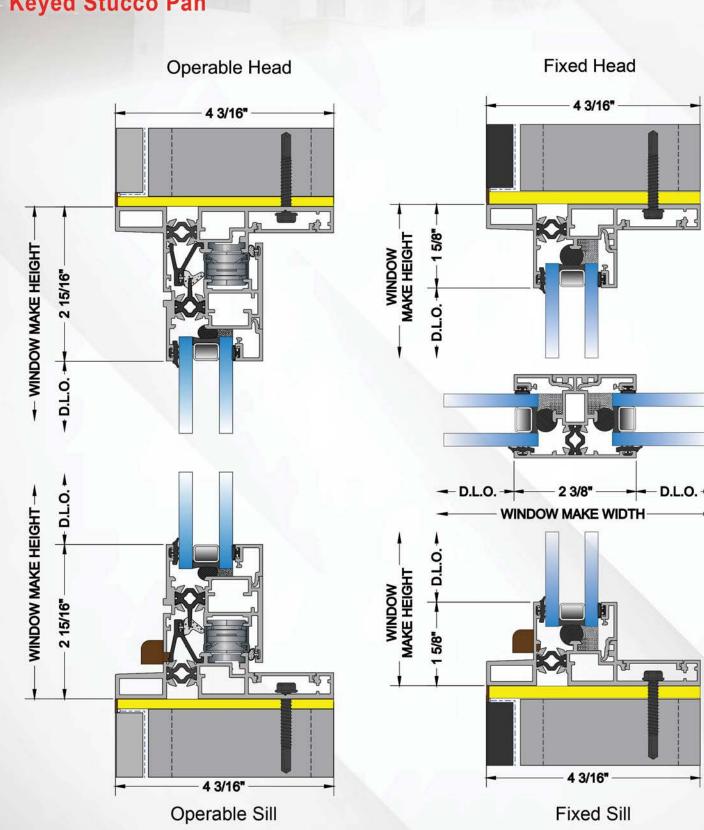
Iptions

Keyed Stucco Pan with Nailfin and Integral Trim



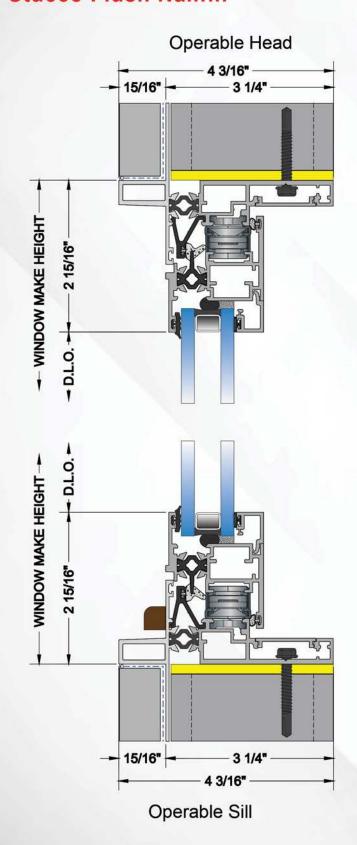


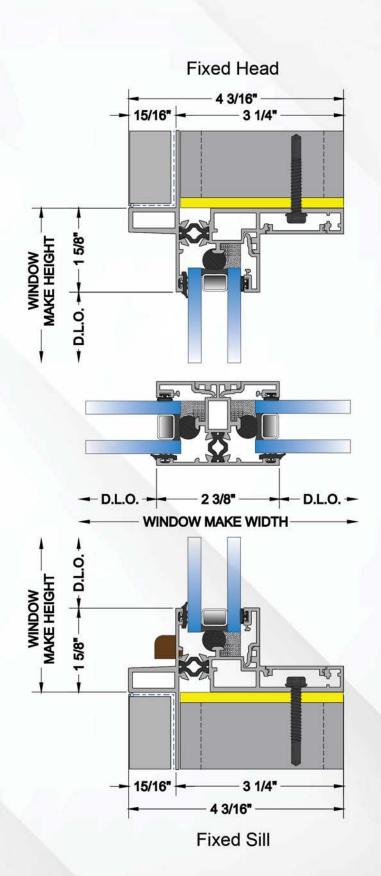
Keyed Stucco Pan



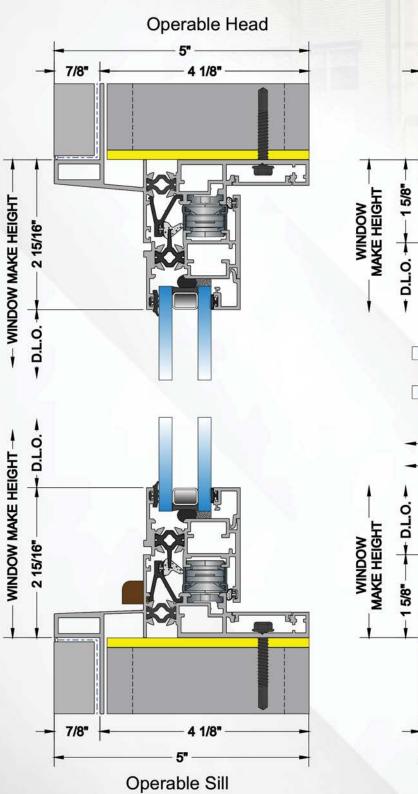
Options CO-EXTRUDED FRAME

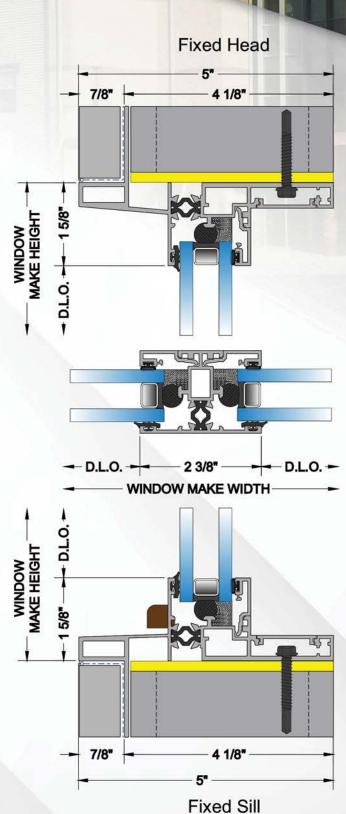
Stucco Flush Nailfin





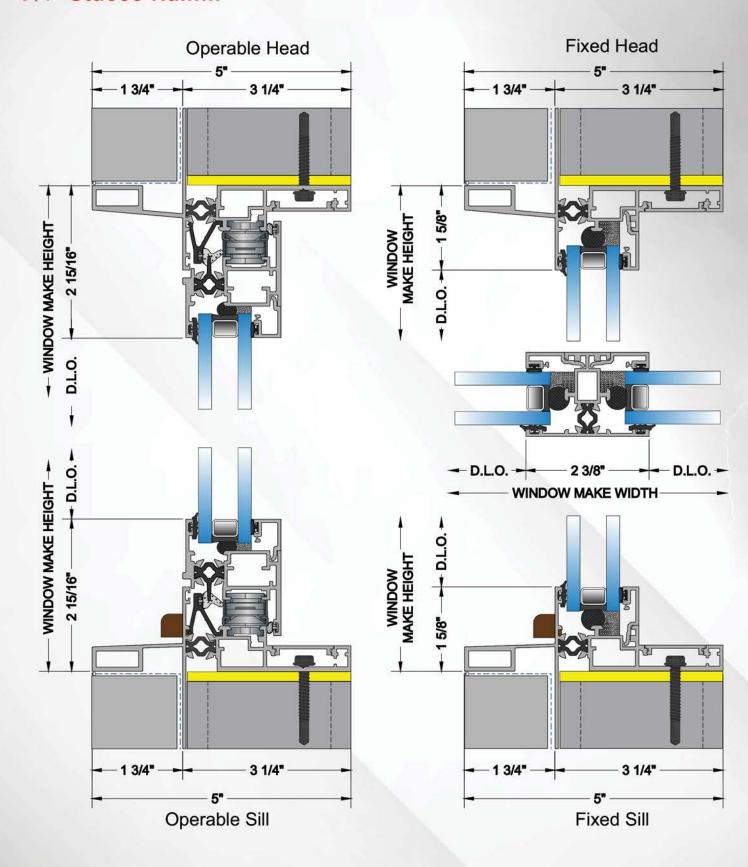
7/8" Stucco Nailfin







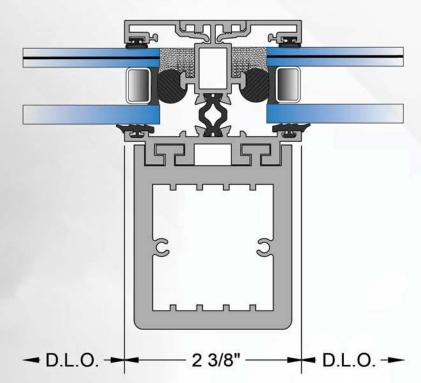
13/4" Stucco Nailfin

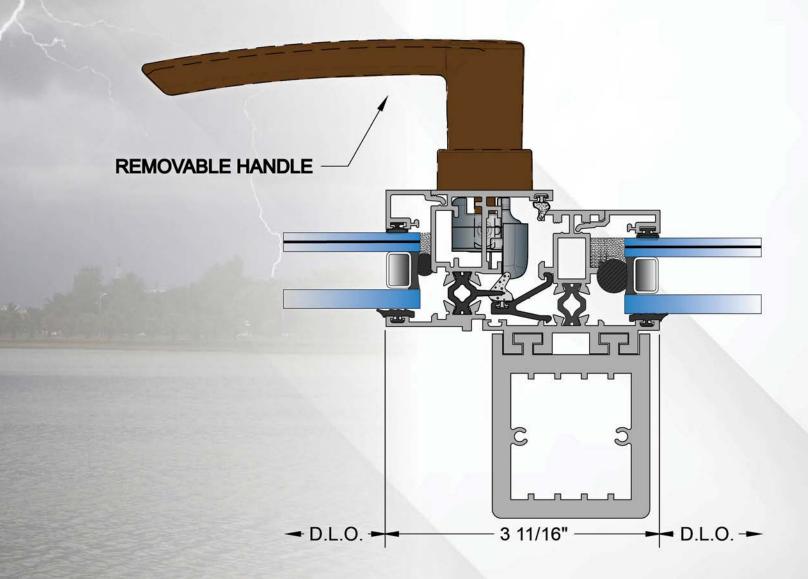


INSWING HURRICANE MEETING RAIL

G845 FL# 31776

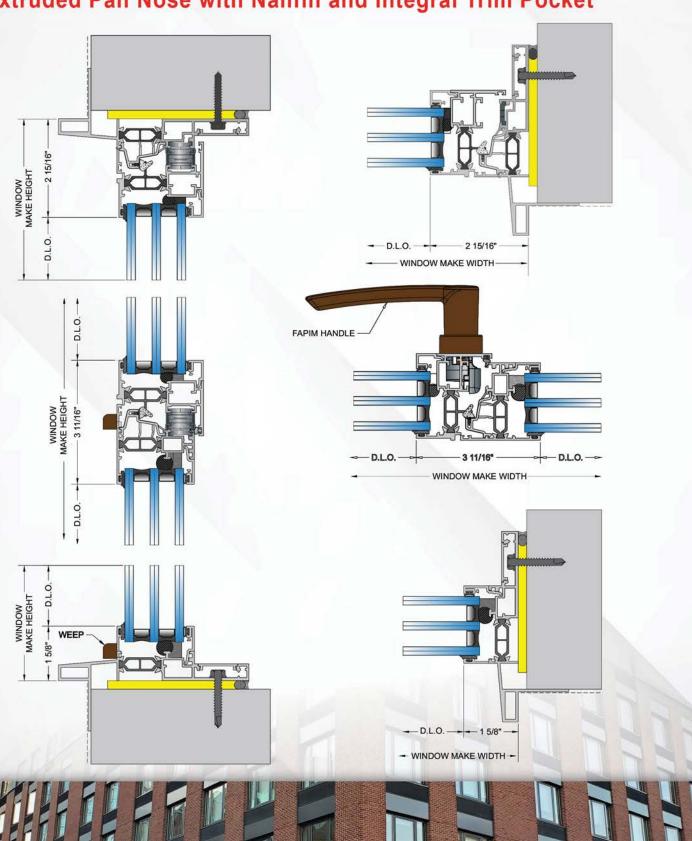
G863 FL# 31310





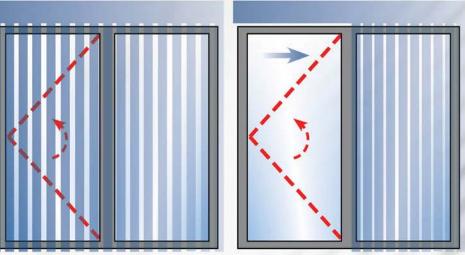
Casement Casement BESIDE FIXED • TRIPLE IGU

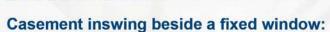
Co-Extruded Pan Nose with Nailfin and Integral Trim Pocket

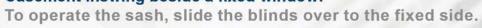


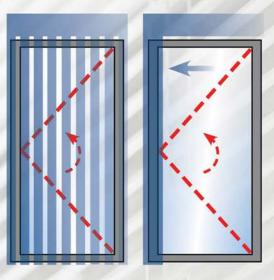
Blinds

Vertical Blinds



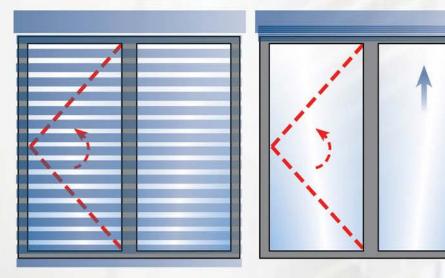




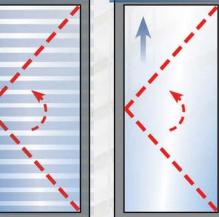


Casement inswing: To operate the window, slide the blinds over to opposite side of the handle. Each window has a 4" limit so the blinds will not be in the way of operating the sash.

Horizontal Blinds







Casement inswing or Casement inswing beside a fixed window:

Blinds are installed above the top of the window. To operate the window, pull up the blinds.

