

# The Metro Series



When Ventilation becomes  
part of the Design.

## PTAC Window

In hospitality, residential, and commercial projects, traditional Packaged Terminal Air Conditioner (PTAC) units can often interrupt the architectural harmony due to their bulky appearance and intricate installation. The Win-Gate PTAC Louver Windows were designed to effortlessly incorporate ventilation into the window system, providing a truly cohesive, high-performance solution characterized by minimalist aesthetics and smart engineering.

Customized integrated  
solutions for a facade that  
is pure and premium.



# Features & Benefits

## Integrated Design

The PTAC units are seamlessly integrated with the window frame, creating a single, complete unit for easy on-site installation. This design approach significantly reduces the steps involved in assembly, minimizes the risk of human error, and guarantees long-term operational stability and airtightness.

## Enhanced Thermal Insulation

Thermally broken aluminum profiles effectively prevent heat transfer, addressing the fundamental performance issues of conventional windows and doors, resulting in exceptional comfort.

## Quick Installation

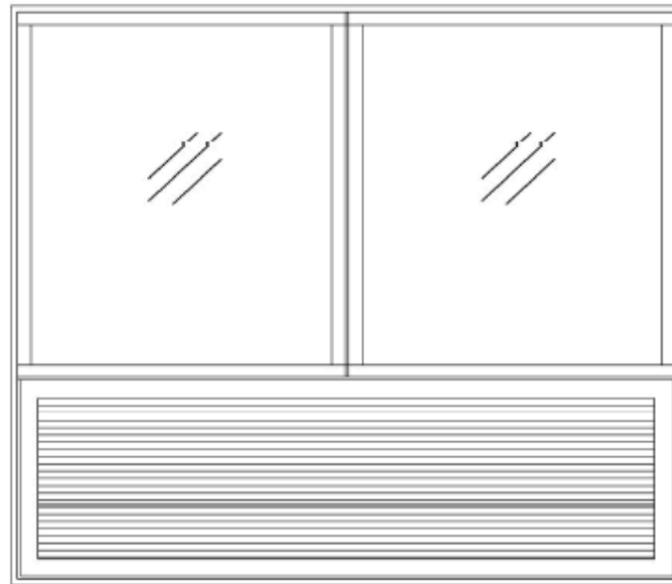
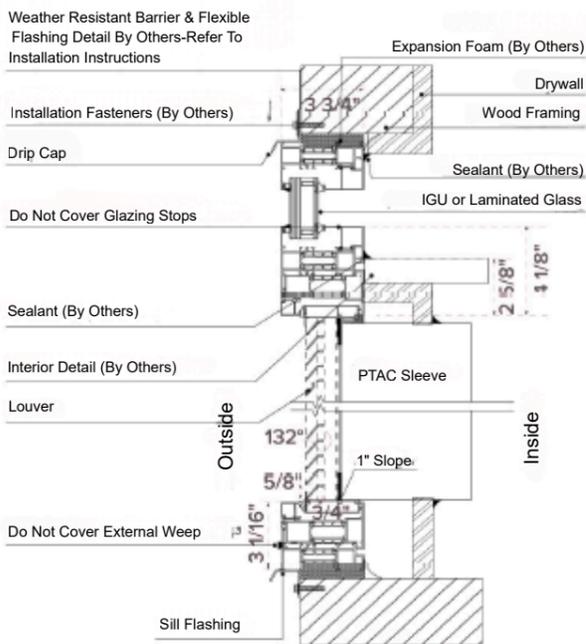
The NailFin installation flange simplifies the process of fitting windows and doors into a new opening, ensuring that they are weathertight.

## Customizable Design

The unit can be tailored to various operating types, colors, and configuration options, ensuring a seamless visual harmony with the building's exterior facade.

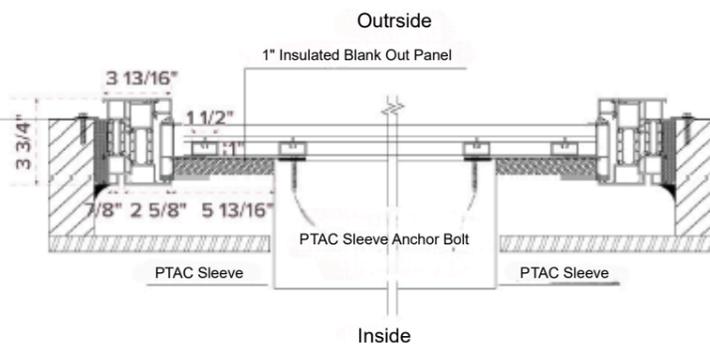
## Soundproof Glass

Soundproof glass employs a multi-layer or laminated design to greatly minimize noise transmission. Additionally, it offers safety, thermal insulation, and UV protection.



Weather Resistant Barrier & Flexible Flashing Detail By Others-Refer To Installation Instructions

Install Window with Fasteners at Jambes First, then Fasten Drip Cap & Sill Flashing to Window at Head & Sill



Interior



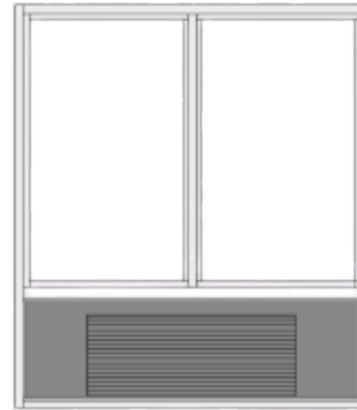
Outside



**Wall Sleeve**  
**Standard Size**  
**42.0"x16.0"**  
**(supplied by client)**

# Compatible Window Types

**PTAC Units: Versatile Pairing with Window Styles**  
PTAC units can be combined with a variety of window styles, such as fixed, sliding, casement, tilt-and-turn, or awning, to complement hotel layouts and design themes. Each option delivers robust performance, efficient sound insulation, and a smooth user experience.



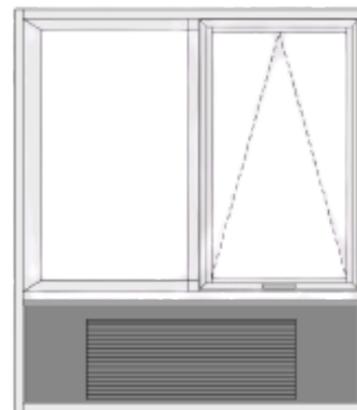
Picture Window



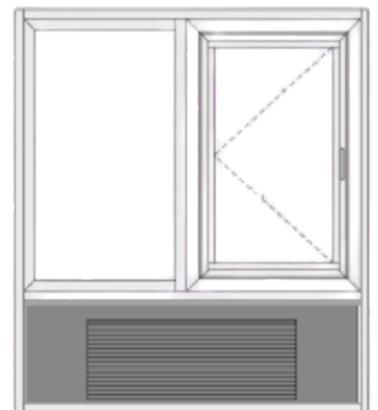
Sliding Window



Tilt & Turn Window



Awning Window



Casement Window



# Window Wall System

In the realm of commercial architecture, the window wall system serves as more than just an opening; it acts as a vital communication interface between your brand and the outside world. Our window wall system offers a seamless canvas for display and design, elevating your facade into a striking testament of clarity, presence, and professionalism.



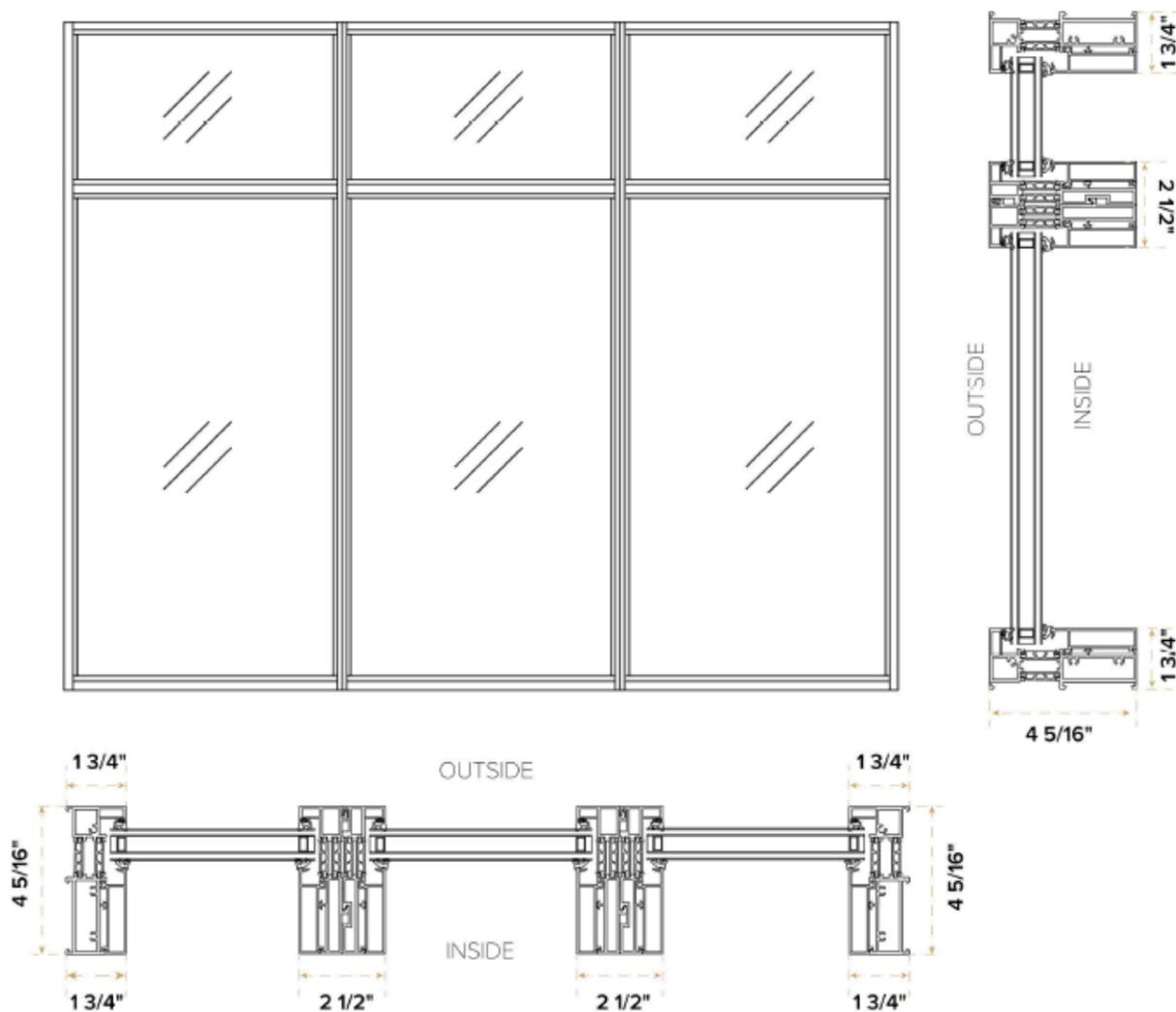
# Window Wall -110s

When the height reaches or exceeds 13 feet, it is recommended to use the 110S storefront window.



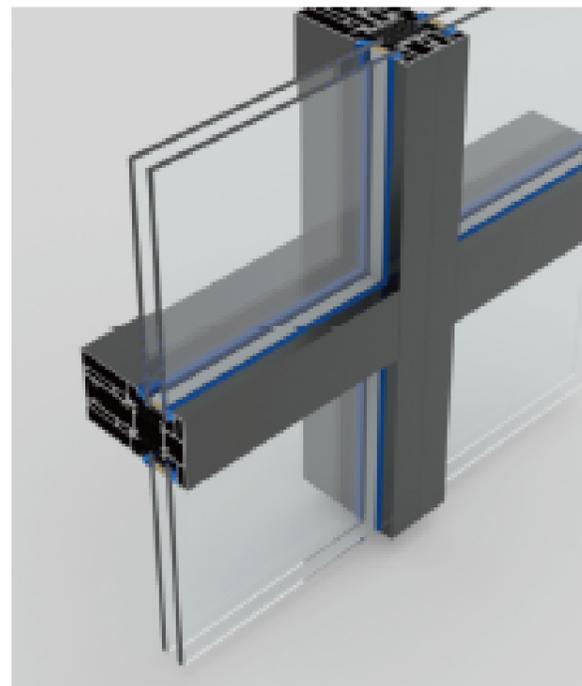
## FBC Certified Hurricane Proof Window

Win-Gate hurricane proof window is being tested in accordance to THE FLORIDA BUILDING CODE, 8TH EDITION (2023), the latest version building code. All units are tested by codes TAS 201, 202, 203, and also large missile impact standards according to Zone 4, Missile Level D at 50 ft/sec.



Glazing Options	Double pane		Triple pane	
	U-Value	SHGC	U-Value	SHGC
Energy Ratings:				
Picture Window:	<b>0.31</b>	<b>0.25</b>	<b>0.25</b>	<b>0.23</b>

If your local code request different ratings, we have different glass specifications to meet the requirement.



### Key Characteristics:

- **Visibility:** Provides clear, unobstructed views into the store, which is essential for retail attractiveness and branding.
- **Framing:** Utilizes aluminum frames with large glass panels, often paired with glass doors for entry.
- **Non-Load Bearing:** Depends on the building's structure for support, making it ideal for ground floor applications, unlike curtain walls.
- **Durability:** Designed to withstand high foot traffic and adverse weather conditions while complying with commercial codes, using single or double-pane glass.
- **Function:** Enhances curb appeal, showcases merchandise, and increases natural light, serving as a vital marketing tool.

### Types and Variations:

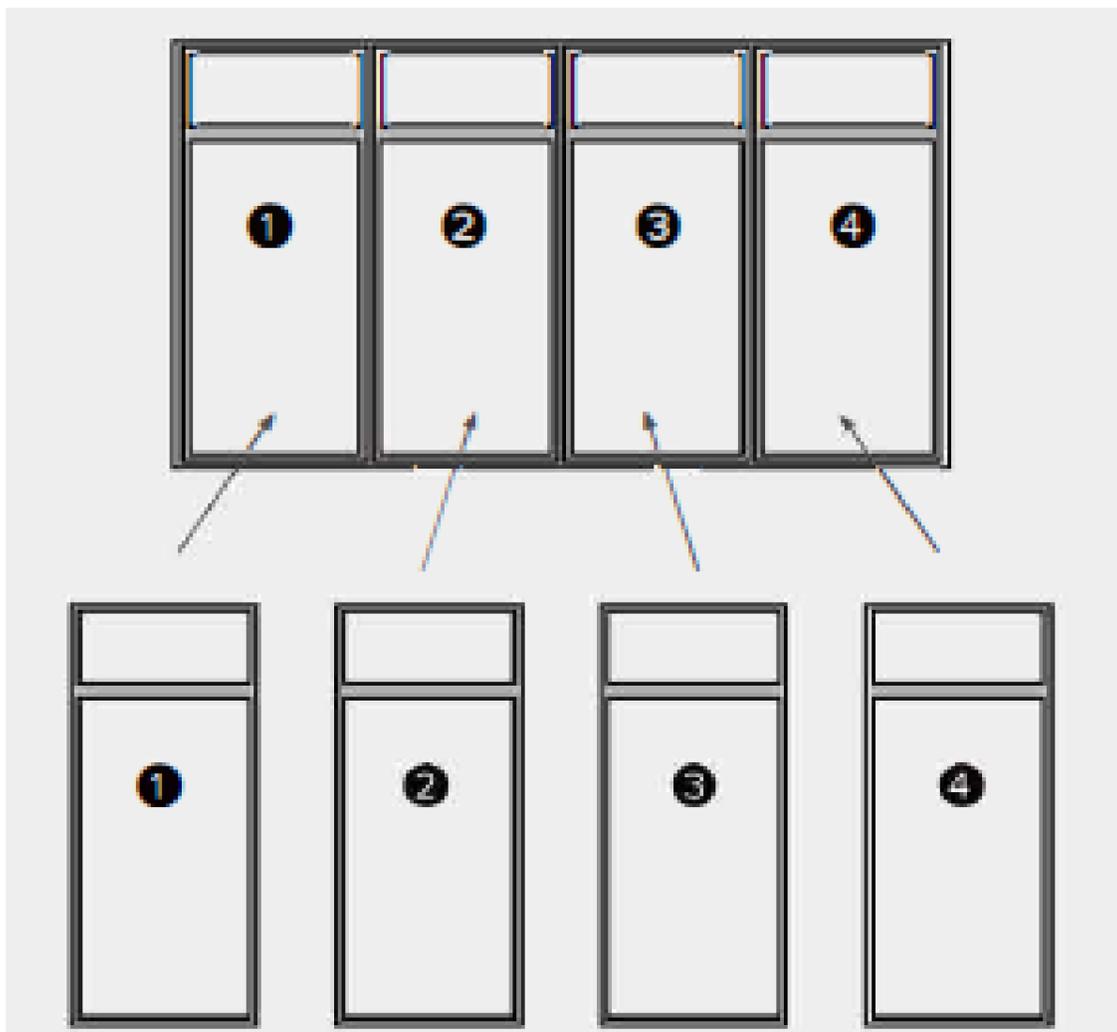
- **Standard:** Commonly found in ground-floor retail spaces, typically standing at 10 feet high or less.
- **Maximum View:** Incorporates seamless glass from edge to edge with minimal mullions, offering a sleek and modern appearance.
- **Glass Types:** Varies from basic double-pane thermal insulated IGUs to three-pane options for enhanced energy efficiency, or insulating laminated IGUs for improved impact resistance and sound dampening.

# Quick Installation

An Efficient Method for Construction

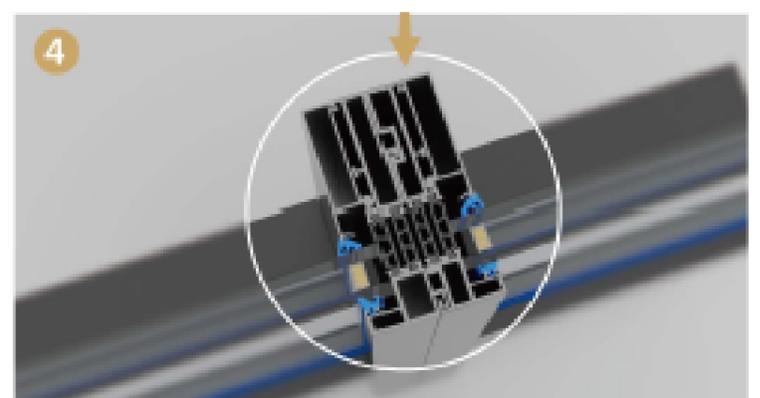
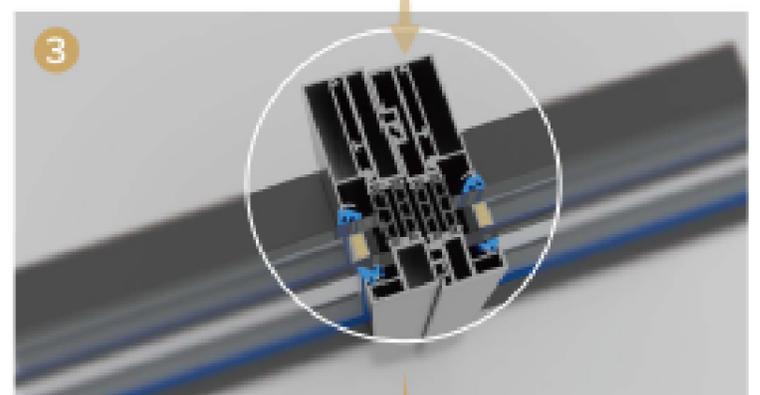
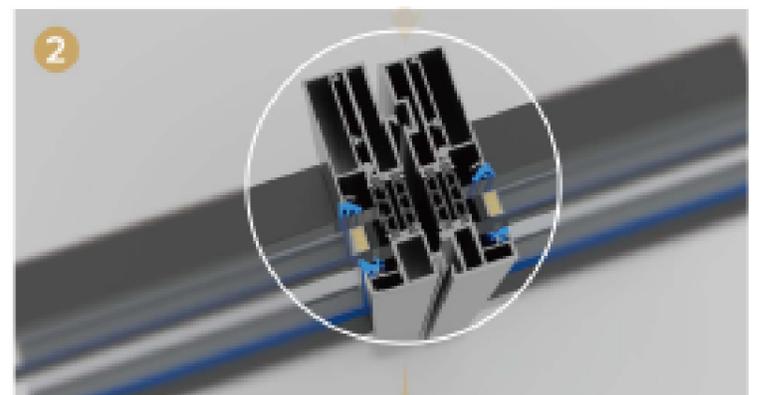
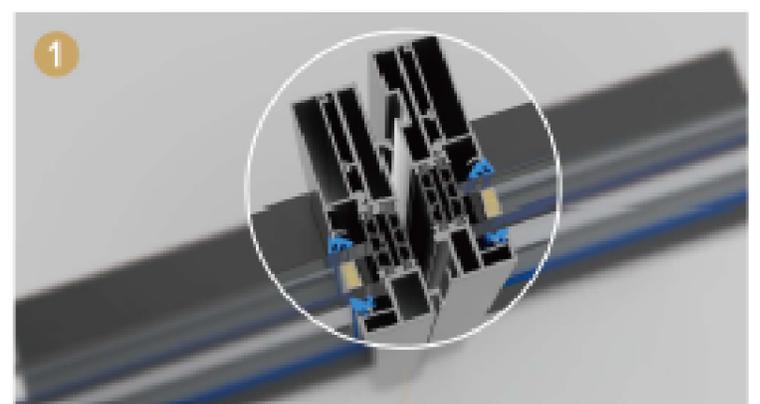
## Enhanced Perspectives

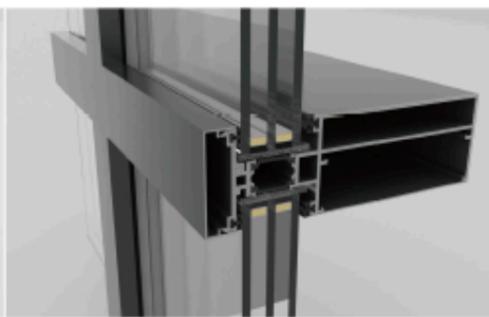
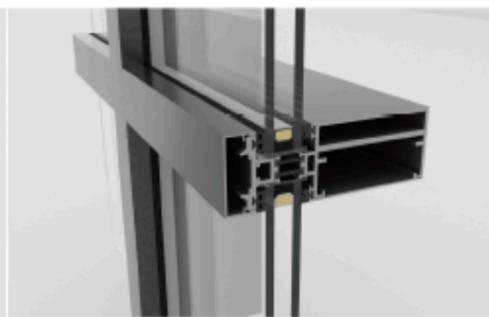
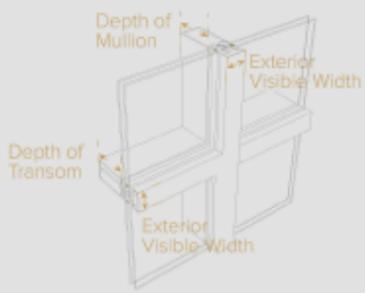
Experience the convenience of lighter, more manageable window wall system combinations that seamlessly connect as you install them into the rough opening. This innovation simplifies the installation of larger combinations. In fact, a majority of contractors surveyed reported that they could decrease their installation team by 50% by utilizing the Win-gate easy connect joining system.



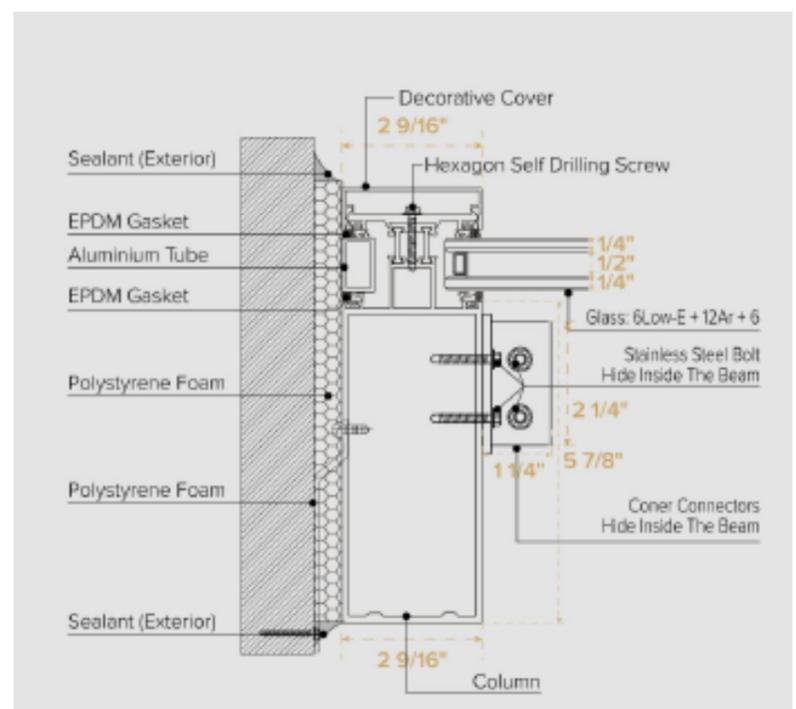
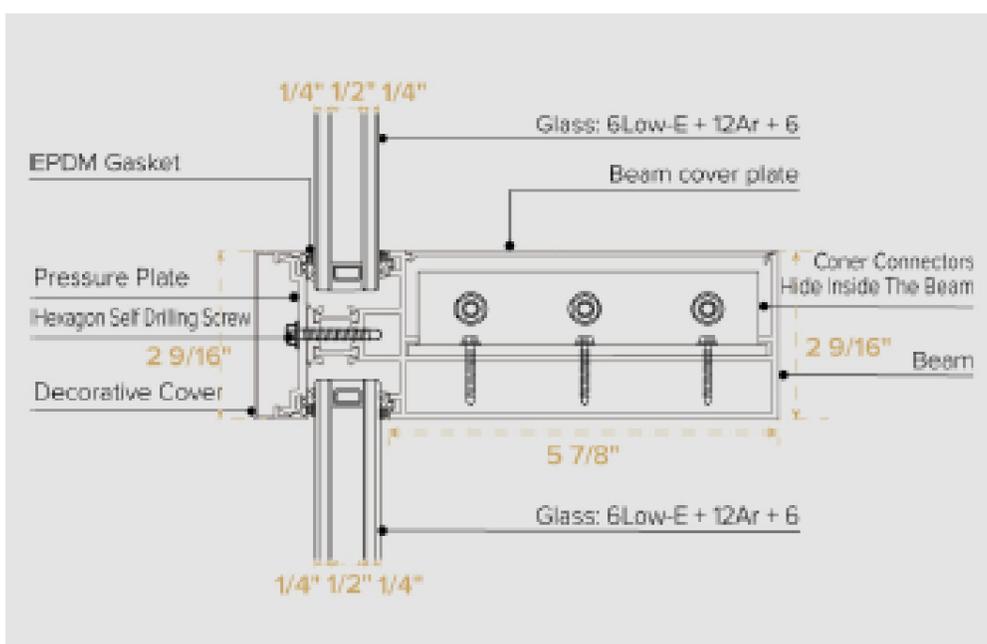
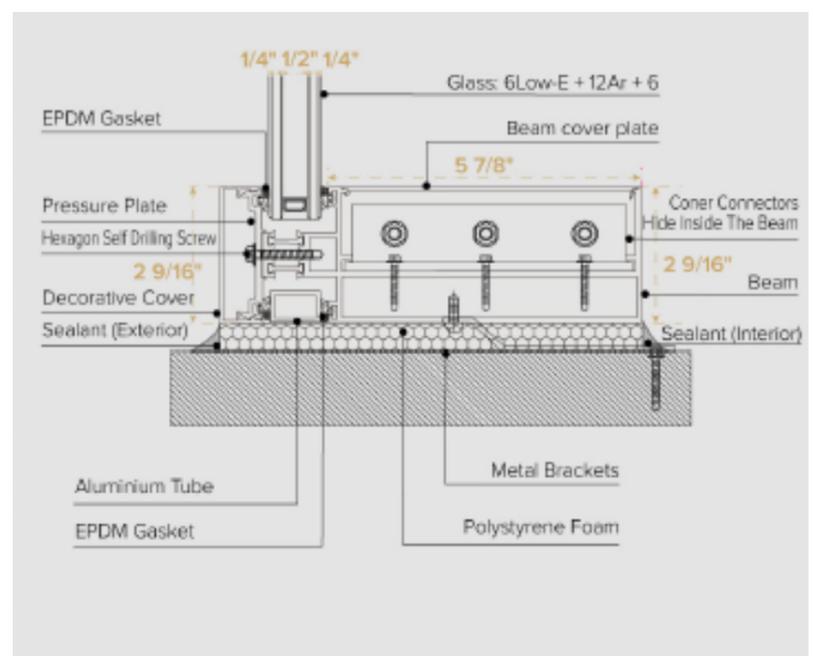
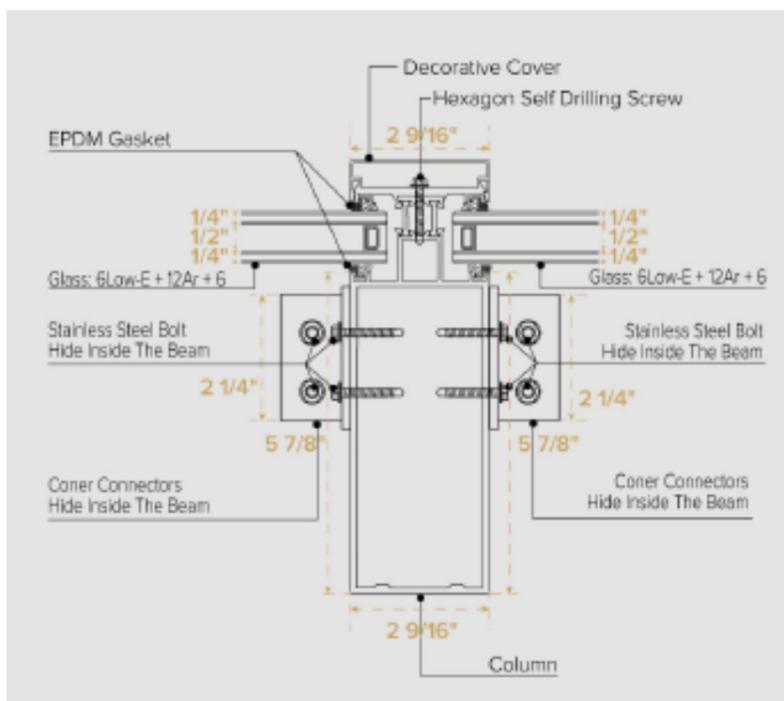
## Connection Process

Installing the 110s storefront is extremely simple: just clip the units directly together, ensure the visible faces are flush, and then secure them with nails (as shown below).





Style Variants	Window Wall 120S	Window Wall 150S	Window Wall 180S
Interior visible width	1 15/16"	2 9/16"	2 9/16"
Exterior visible width	1 15/16"	2 9/16"	2 9/16"
Glass thickness	15/16" - 1 5/8"	15/16" - 1 5/8"	15/16" - 1 5/8"
Depth of vertical mullion	4 3/4"	5 7/8"	7 1/8"
Depth of horizontal transom	4 3/4"	2 15/16" - 5 7/8"	2 15/16" - 7 1/8"
Cap depth	13/16"	5/8"	5/8" - 1 3/8"
U-Value	0.35Btu/(h.ft <sup>2</sup> .°f) depending on glazing or panel type	0.35Btu/(h.ft <sup>2</sup> .°f) depending on glazing or panel type	0.35Btu/(h.ft <sup>2</sup> .°f) depending on glazing or panel type
SHGC	0.35 depending on glazing type	0.35 depending on glazing type	0.35 depending on glazing type
Wind load resistance	105psf	120psf	135psf
Water tightness	12.95psf	12.95psf	12.95psf
Air tightness	Air leakage 0.2 ≤ cfm/ft <sup>2</sup>	Air leakage 0.2 ≤ cfm/ft <sup>2</sup>	Air leakage 0.2 ≤ cfm/ft <sup>2</sup>
Size limits	Width: 7' Height: 14'	24' height max	65' height max
Glass installation method	Fixing by pressure plates	Fixing by pressure plates	Fixing by pressure plates
Aluminum Profile	6060-T66	6060-T66	6060-T66
Type of Vents	Casement, tilt & turn, awning window, and door elements	Casement, tilt & turn, awning window, and door elements	Casement, tilt & turn, awning window, and door elements
exterior face caps	Different shapes available	Different shapes available	Different shapes available

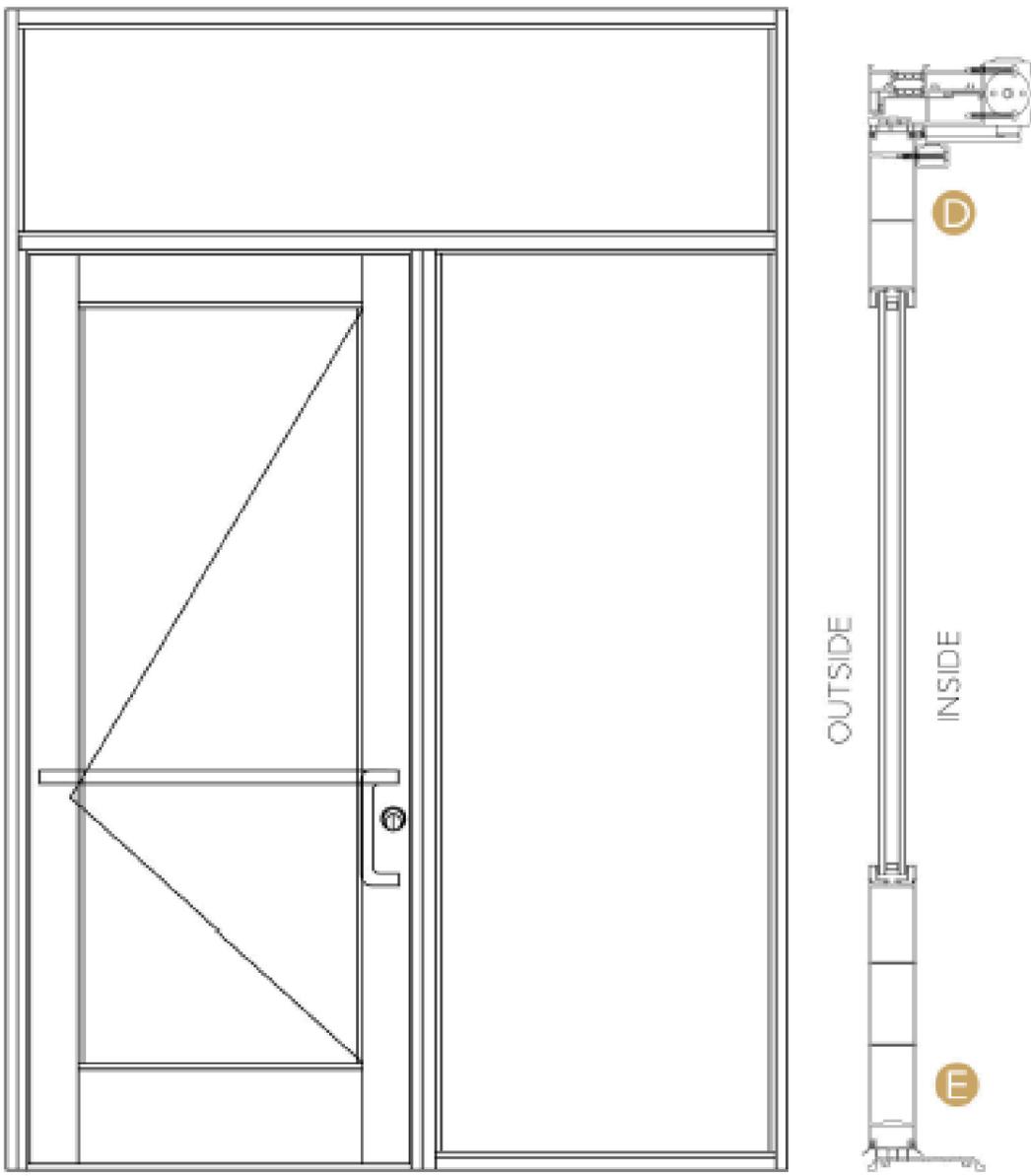


# Commercial Doors

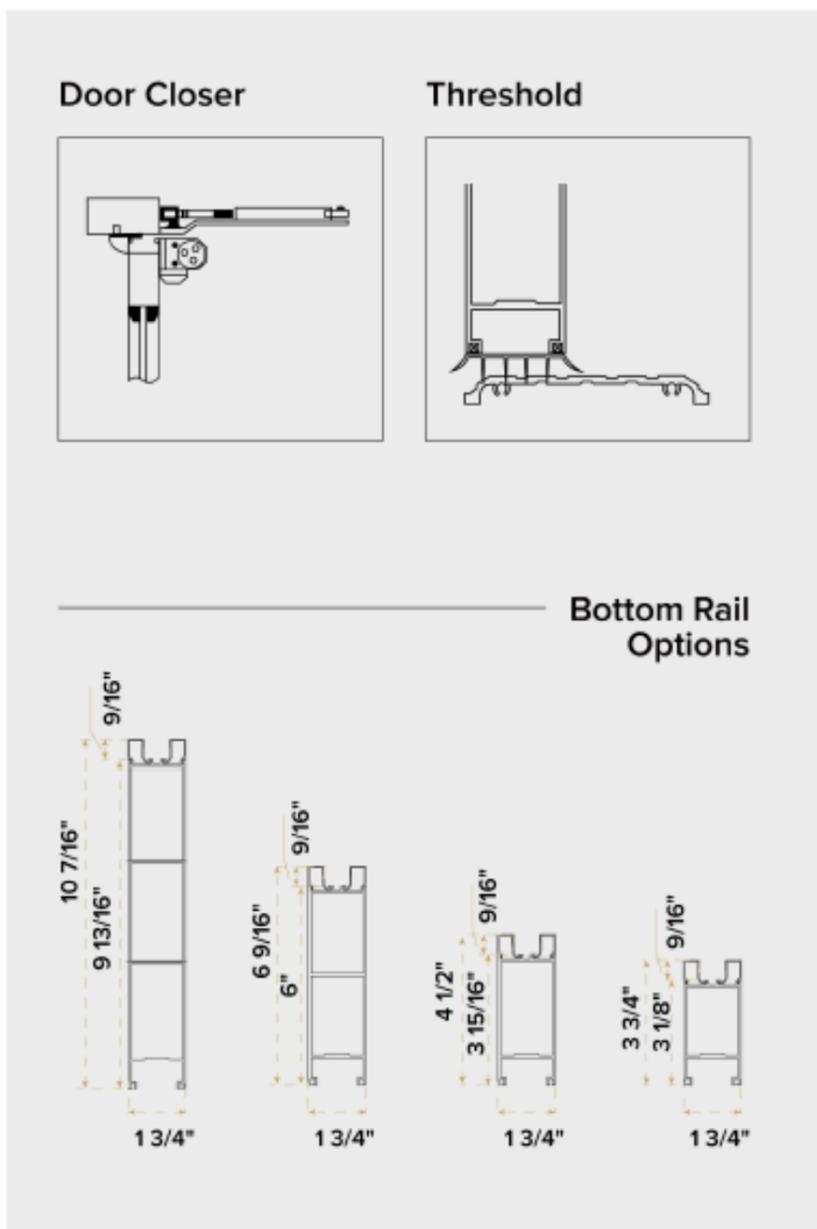
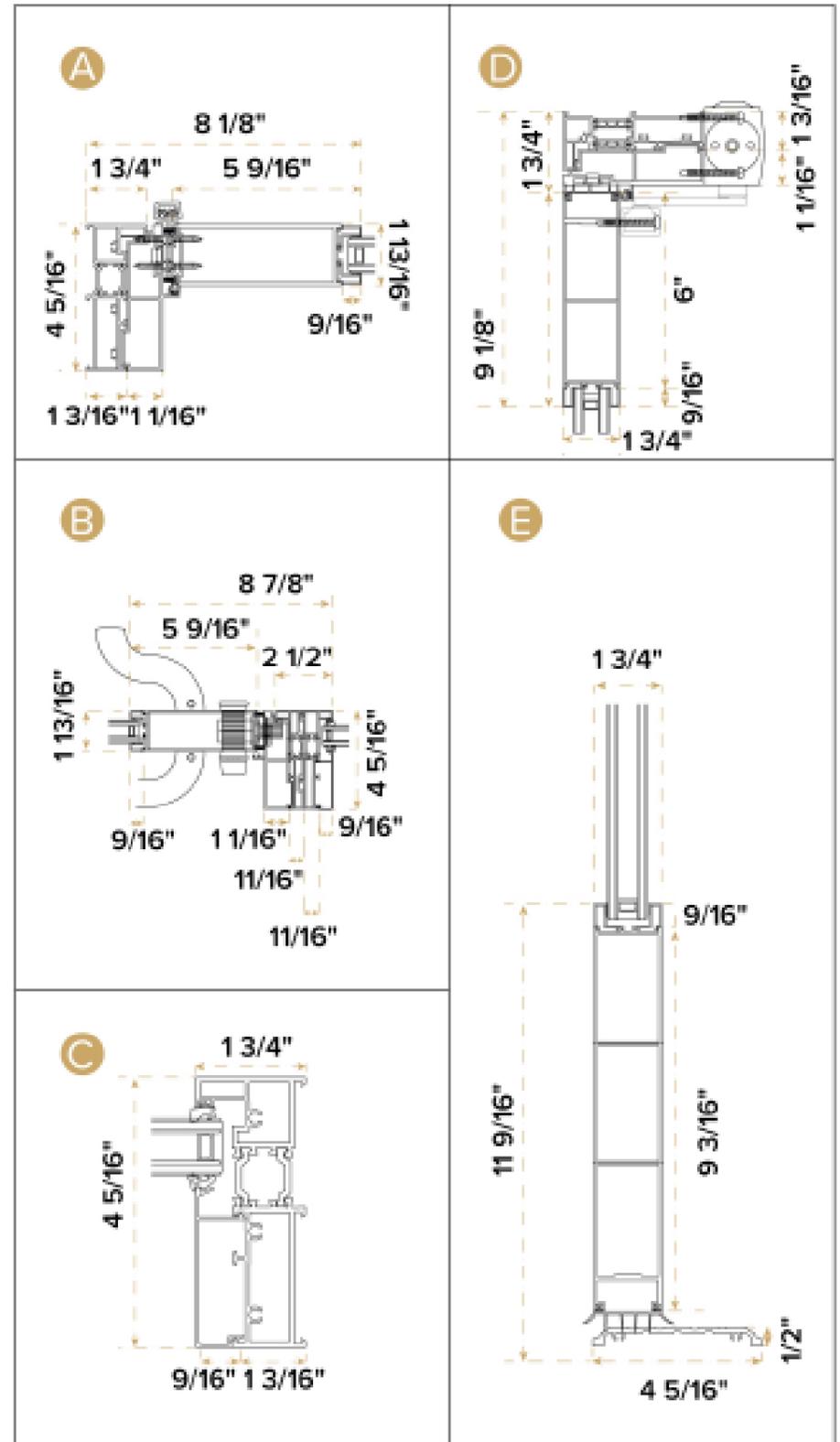
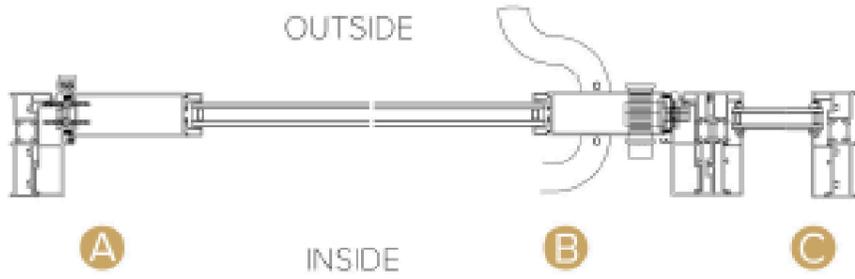
We understand the vital role your doors play in your storefront. They create the first impression for customers as they enter and leave a lasting impression as they exit, all while supporting you in delivering your highest quality products and services.

Your business is all about providing customers with the best products and services. Our focus is on ensuring they can enter your establishment smoothly and reliably.





# Product Introduction



# Hardware



A continuous hinge is a single, full-length metal pivot that spans nearly the entire height of the door leaf. It offers seamless, linear support from top to bottom, enhancing the door's performance, security, and aesthetic appeal significantly.

The lock mechanism serves as the concealed mechanical core of a door—an invisible protector that combines security, durability, and effortless functionality. Investing in a high-quality lock is the most essential safeguard for your entire door system.



Engineered for longevity and designed for daily high-traffic environments, our 304 stainless steel door pulls provide outstanding corrosion resistance and durability. The satin finish not only resists fingerprints but also simplifies maintenance.

A door closer serves as the door's “smart muscle” and “silent guardian,” enhancing an ordinary door into a secure, energy-efficient, and user-friendly mechanism. It is an essential element in both commercial and public architecture.

# Features & Benefits

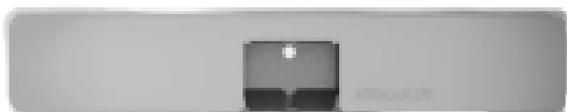
<b>Jamb:</b>	4 5/16"
<b>Bottom rail:</b>	10 7/16" (Options: 6 9/16" / 4 1/2" / 3 3/4")
<b>Panel thickness:</b>	1 3/4"
<b>ADA Sill:</b>	4 5/16" Non-Thermal
<b>Opening Methods:</b>	Single Door / Double Swing Door
<b>Single Door:</b>	2'-1 5/8" ≤ W ≤ 3'-7 1/4"
	5'-10 7/8" ≤ H ≤ 8'
<b>Double Swing Door:</b>	4'-3 1/8" ≤ W ≤ 7'-6 1/2"
	5'-10 7/8" ≤ H ≤ 10'



# Optional Exit Device



A rim panic device is attached directly to the surface of the door, featuring a latch that extends from the panic device instead of the door's edge. This represents the most straightforward design of panic hardware and is the easiest to maintain. Rim panic devices can be utilized on single doors or on double doors when paired with a removable mullion.



The Electric Strike is a surface-mounted, windstorm-resistant device, specifically engineered to work with rim exit devices featuring a  $\frac{3}{4}$ " throw Pullman latchbolt. To install, simply position the electric strike on the frame's surface, align it with the exit latchbolt, and secure it in place.



One of the benefits of push-to-exit buttons is their versatility. These buttons are ideal for electronic locking systems, as they offer a convenient free exit option on doors. Additionally, in certain situations, a push-to-exit button can serve as a backup when the access control panel fails to unlock the door.



# Automatic Sliding Door

In contemporary commercial architecture and public areas, the automatic sliding door has transformed from a mere functional feature into a fundamental component that enhances spatial efficiency, user experience, and building intelligence. It acts not only as a vibrant interface connecting people and spaces but also as a sophisticated hub that facilitates barrier-free access, energy management, and brand representation.



# Features & Benefits

## Exceptional Guest Experience

Experience a hands-free, dignified arrival and departure like never before. Our doors respond intuitively, ensuring a smooth transition for all guests, including families with strollers and travelers carrying luggage.

## Perfect for Various Locations-

- Main entrances
- Lobby-to-restaurant transitions
- Pool and patio access
- Spa entrances
- Conference hall doorways



### Enhanced Safety & Accessibility:

Fully ADA-compliant, with reliable motion sensors and safety edges to ensure safe passage for guests of all abilities. Promotes inclusive, barrier-free access.

### Full Or Partial Breakout For Emergency Egress:

The automatic door system ensures that the door opens automatically upon power failure, meeting international fire safety standards.

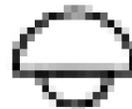
### Operational Efficiency & Climate Control:

This system minimizes energy loss by operating only when necessary, aiding in the maintenance of stable lobby temperatures while lowering HVAC expenses. The quick open/close cycle effectively restricts air exchange.



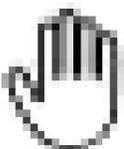
### Durable & Dependable:

Crafted for high-traffic settings using sturdy, commercial-grade materials. Engineered for round-the-clock reliability with minimal upkeep, guaranteeing a consistent flow during your peak hours.



### Fail-Safe Egress:

Provides an instant manual override option. The door panels effortlessly detach from the automated track and swing open, guaranteeing a dependable exit at all times.



### Customizable Design:

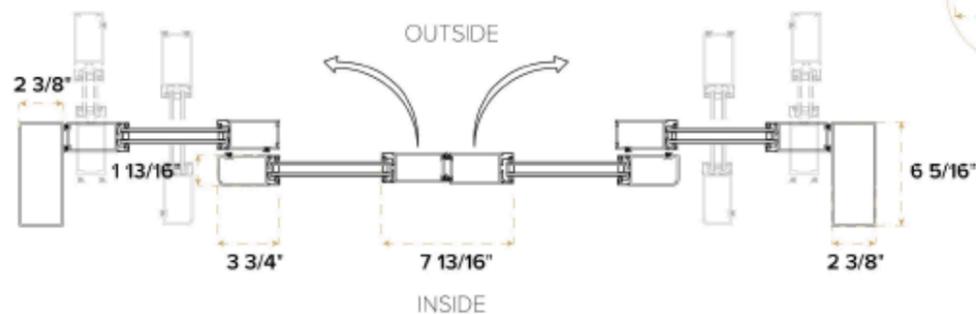
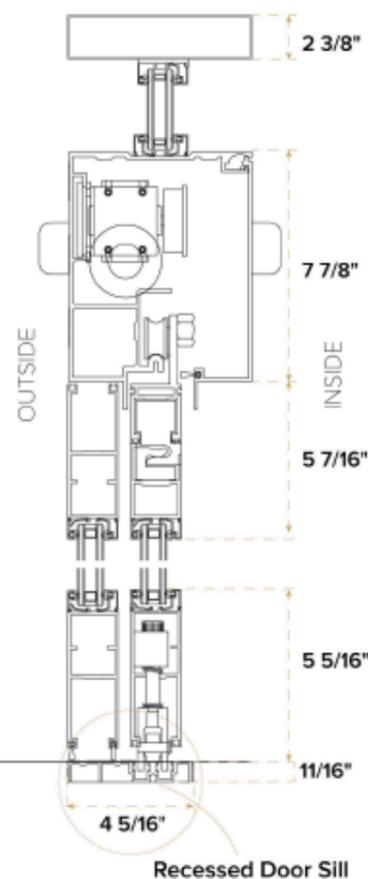
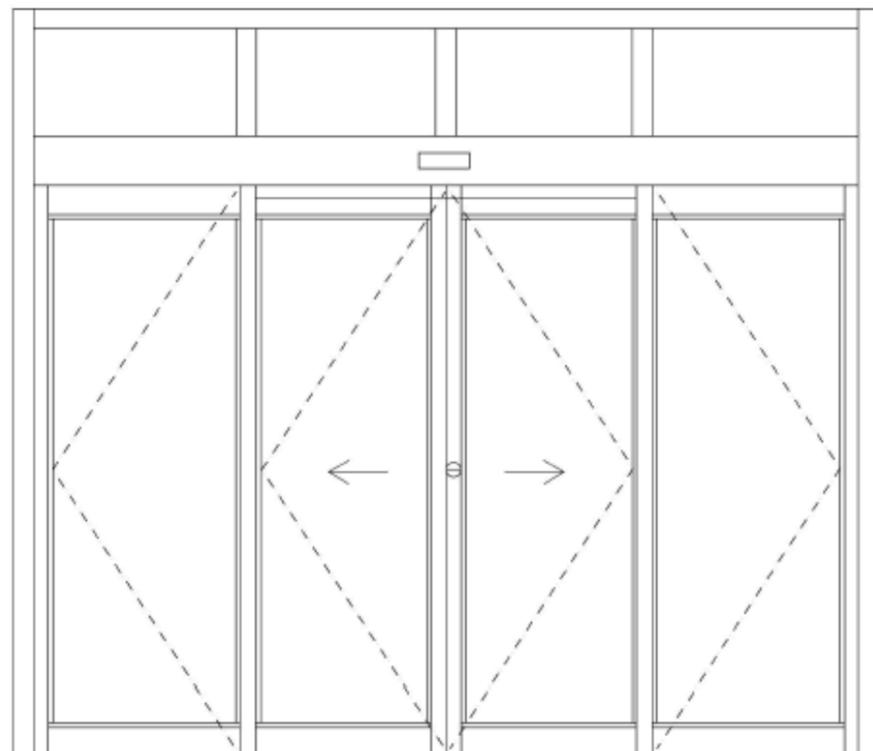
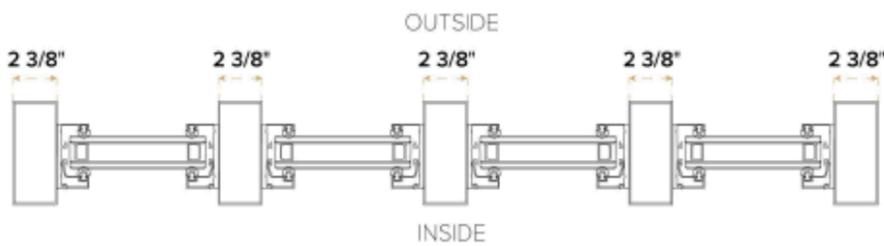
This design comes in an array of finishes, glass tints, and opening configurations (either single or double slide) to suit any architectural style, ranging from classic elegance to minimalist sophistication.

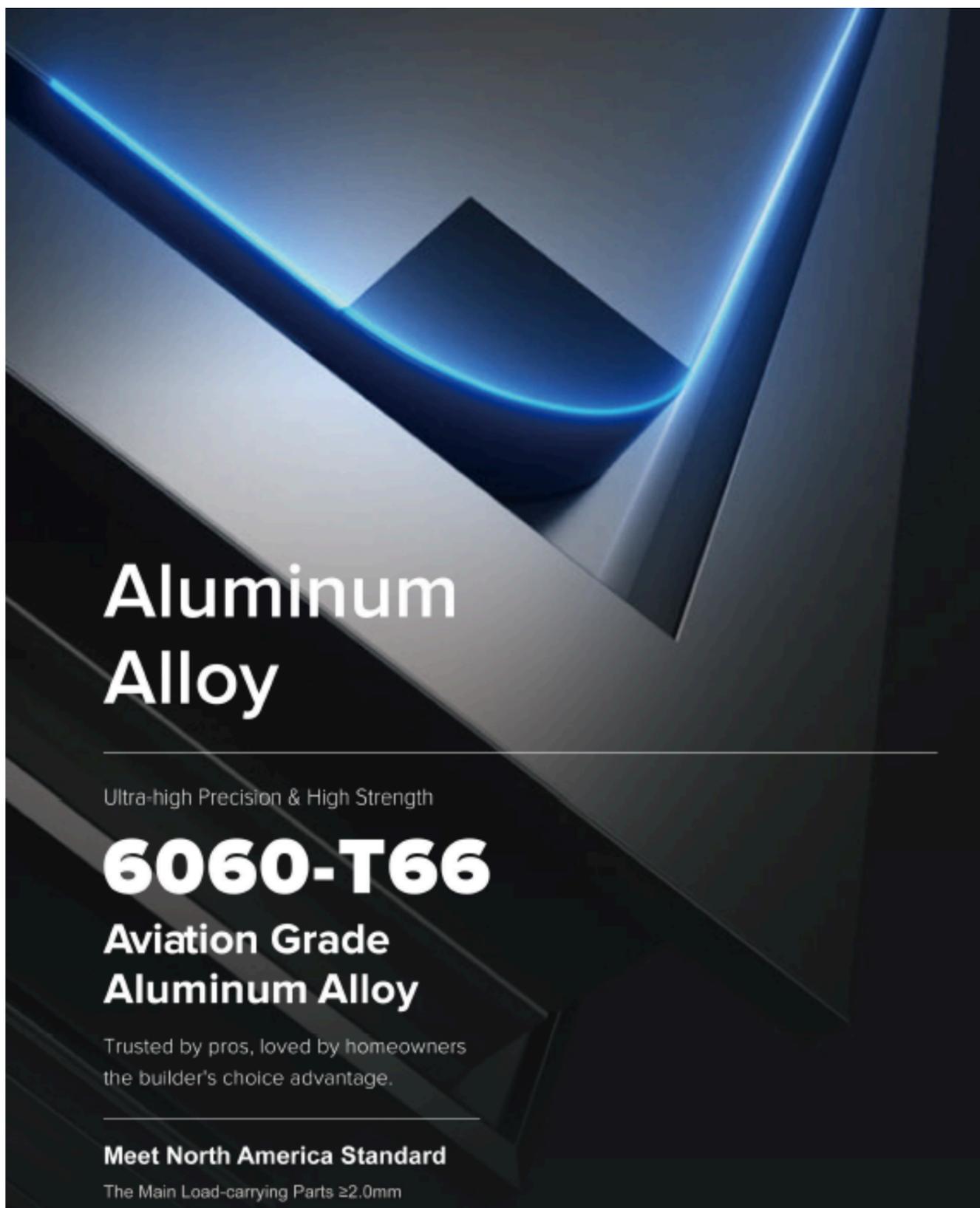




Configuration and features	
Standard Finishes	Power Coating and RAL Colors
Package Height	Up to 9' (108")
Package Height W / Transom	Up to 12' (144")
Package Width	Single slide up to 8' (96"); Bi-part slide up to: 16' (192")
Door Panels	Top and bottom rail: 5 5/16" including glass stop; Left and right stile: 3 3/4" including glass stop; Muttin at bi-part slider: 7 13/16" including glass stops
Jamb Tubes	3 1/8" x 6 5/16"
Motor tube	7 7/8" x 6 5/16"
Vertical Transom Mullion	2 3/8" x 6 5/16"
Threshold	1 1/16" high or can be recessed
Weather Stripping	Brush
Glass Specification	Single pane, Insulating glass, laminated glass
Prower	
Prower Supply	110-230VAC 50/60HZ
Internal Power Supply Available For Accessories	24V
Fuse	P20
Power Consumption	150W

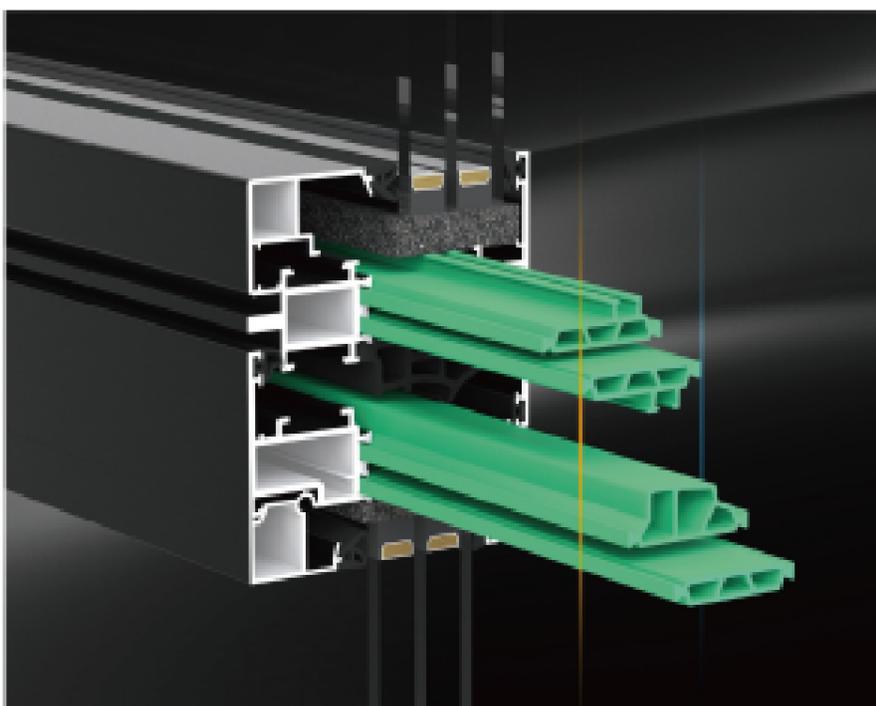
Safety And Security	
Lock	Mortise lock
Sensore	German Dorma-ES68S, Radar motion sensor
Controller	German Dorma-ES68S, paired with a DK90 microprocessor controller
Operating Speed	Opening: 10-50 cm/s (adjustable) Closing: 10-40 cm/s (adjustable)
Portable remote control	Auto-off - Hold open Two way traffic - exit only Full open - partial open





### Thermal Break Aluminum System

The thermal break aluminum system features an insulating strip (nylon PA66) integrated into the aluminum profile, which divides the indoor and outdoor aluminum sections. This design effectively obstructs pathways for heat transfer, creating a "thermal break" that greatly improves the thermal insulation performance of windows and doors.



### Strength

- **Exceptional Energy Efficiency**  
Reduced Energy Consumption: The thermal break effectively prevents heat transfer, offering insulation during the summer and retaining warmth in the winter. This can lead to a decrease in air conditioning and heating energy usage by about 30%-50%.
- **Outstanding Sound Insulation Performance**  
The multi-layer sealing design, especially when paired with double-glazed or laminated glass, can diminish noise levels by 30-40 decibels. This makes it ideal for noisy settings such as streetside locations or areas near airports.



## Finish Options



Powder Coating



Fluorocarbon Coating



Anodizing

## Color Options for Exterior/Interior

Color is not just an aesthetic detail; it plays a vital role in a comprehensive fenestration solution. Our thoughtfully designed color system is created to integrate effortlessly with a variety of architectural materials and styles. You can choose from over 200 RAL K7 colors.

