

2020

Windows & Doors Brochure



TECHNICAL INFORMATION

LIFT & SLIDE DOORS



HORIZONTAL SLIDING WALLS



FOLDING DOORS



MULTI-SLIDE DOORS



FRENCH & PIVOT DOORS



WINDOWS



TS.X0

 **PANDA**
WINDOWS & DOORS



THE ART OF LUXURY

When The View Matters

With over 25 years in the business and thousands of successful custom projects worldwide, Panda Windows & Doors™ has earned its reputation as an industry-leading pioneer.

Renowned for our attention to detail, innovation, and cutting-edge design, we offer the largest selection of products by any single manufacturer.

Panda Windows & Doors™ is a name you can trust when planning your next build. Be it a residential, commercial, remodel, or new construction project, we have the experience to create a modern custom window or door system that is perfect for you.

Engineering Solutions

Unique one-off designs are our specialty. We pride ourselves on our ability to make any design possible and use our expertise to meet any engineering hurdles head on. Whether your goal is to maximize the size of your openings or enhance the look and feel of your property, we can help you get the most value out of our products. Let us turn your vision into a reality!

Energy Efficiency

Energy efficiency of private homes and commercial real estate has never been more important.

At Panda, we recognize the importance of energy efficient solutions, and empower you to leverage our thermally-broken profiles to meet your energy demands - without compromising on design.

Every Panda product can be designed and engineered to your exact specifications.

Customization

Guided by our in-house designers, we can help you choose everything from the profile thickness, glass and weather resistance, to color, material types, handles, tracks, and more.

We can accommodate almost any request, and with so many parameters that can be customized, there is virtually an infinite number of possibilities to make it your very own!

Performance

From extreme temperature fluctuations to high-force winds - you can trust our systems to perform at their best when you need them most.

At Panda, we take personal safety very seriously. To meet the most stringent building codes and environmental demands, our thermally-broken and hurricane-rated systems provide the comfortable interior temperatures you want with the protection you need, even when outdoor conditions are deteriorating.

Innovation

Persistent and relentless innovation is something we choose to pursue. Not because we have to, but because we refuse to accept the status quo.

Using the latest 3D rendering systems, printers, and CNC machines, we regularly release brand new systems to market. Cutting-edge, modern, and innovative designs are the key reasons why we are considered the best in the business. Offering the largest selection of products on the market today, we are the ultimate one-stop-shop for any kind of buyer.

Whether you are building a stadium, hotel, high-end restaurant or your personal home, we can bring your design to life with our innovative and diverse product line.

Style

Elegant design is everything. It is something we strive to achieve with every product we release to market.

For us at Panda, the look and style of a product is equally as important as its function and performance. We never compromise on either - and neither should you. We can help achieve a look that matches your aesthetic vision - be it the color, integration with wood, or thickness of the profile - by designing a system that doesn't forget about style. Our products can enhance the look and feel of your project while adding value and inspiring design.



TS.X0

What is the TS.X0?

Panda Windows & Doors is proud to present its flagship, award-winning, state-of-the-art TS.X0 Door System. Featuring an ultra-thin 15/16” profile and immersive glass paneling, the TS.X0 serves to redefine the modern luxury living space. Elevate your brand by integrating the style-rich craftsmanship and high-end class of the TS.X0 into your business or storefront. With a view that draws in and holds the eye, the TS.X0 is designed to make the best first-impression possible!

Applications and Uses

The TS.X0 combines immense glass panels (up to 250 sqft in size) with industry-leading components and technology. The result is a spectacular view that is minimally visually obstructive and is synonymous with luxurious, high-end appeal. The TS.X0 features a unique, proprietary sliding door system, is easy to operate, highly customizable, and is fortified to ensure the safety and security of its users. Truly elegant in a residential space, show-stopping in a business, office, or commercial setting, the TS.X0 brings the future of glass to the forefront and the art of luxury to your doorstep!

Features and Benefits

- Oversized glass panels available as large as 250 sqft.
- The header and frame jambs are all able to be recessed, creating the illusion of floor-to-ceiling glass.
- High-quality engineering and durable steel rollers allows the system to transition smoothly and maintain smooth operation over the longevity of the system.
- Panda’s extruded 6063-T6 aluminum profiles means systems are more durable and reliable than competitors’, even with everyday use.
- Our world-class engineering coupled with European hardware creates a weightless feel even when operating system panels in excess of over 800 lbs!
- Ability to maximize clear open space with the use of a pocketed panel storage system.
- Multi-point locks and a durable craftsmanship secure the door against forced entry.

- On panels that exceed 10 ft in height, the 15/16” stiles are structurally reinforced to maintain integrity without comprising the sleek modern look.
- TS.X0 system panels can be as tall as 16’, have a 250 sqft footprint, and weigh as much as 2000 lbs!

Customizations

Panda fabricates every system according to your exact designs and specifications. We offer several options for glass, finish, tracks, and curved systems so that you have a variety of options to choose from when designing your new system!

Tracks

- Several track options are available to complement your design goals:
- **2 ½” Recessed Drainage Track**
This track is ideal for applications implementing floor-to-ceiling glass as it allows the panel to be recessed.

- **2 ½” ADA Recessed Drainage Track**
This track is great for commercial applications that require ADA compliance, but do not require the panel to be recessed.
- **3 ¼” ADA Recessed Drainage Track with Inserts**
This track makes for a seamless transition between your indoor and outdoor space. This track is barefoot friendly and offers minimal obstruction for foot traffic, and is recommended for applications that may be prone to heavy rains or direct weather as the drainage channel is the largest available.

Awards and Recognition

On September 18th, 2019, Window + Door Magazine announced our TS.X0 as the award winner for Most Innovative Patio, Multi-Slide, or Multi-Panel Door System! Panda Window and Doors™ accepted the award at GlassBuild America, an annual expo featuring industry leaders from across the country.





FOLDING DOORS

What is a Folding Door?

Also known as bi-fold systems, folding doors are a popular choice for maximizing openings up to 90% without the need for pocket areas. Functioning as top-hung systems when opened, they slide and stack perpendicular against one or both of the opening jambs – just like an accordion.

Applications and Uses

Folding doors are in demand for a reason - they are innovative, contemporary, easy-to-use, and fully customizable.

Features and Benefits

- Pinch-proof, quadruple EDPM bubble gaskets between each panel ensures you can enjoy the beauty of the system without compromising safety. Pinch-proof gaskets provide ease of mind - especially if young children are present.
- When open, the stacked system panels take up ~ only 10% of the space (5% on each side, or 10% on one side), leaving the remaining 90% of the opening clear for foot traffic or enjoying uninterrupted views.

- The best option for opening up space other than a pocketed Multi-Slide or Lift & Slide door.
- Daily doors (aka swing, egress, or flag doors) can be integrated simply, allowing for easy entry and exit without having to open the entire system.
- The customizable design allows for either an in-swing or out-swing configuration.
- Concealed throw-pins in the top and bottom tracks ensure a very secure system.
- A heavy-duty European groove-hinge anchoring system (10mm stainless steel pin) allows for tall and heavy panels.
- European hardware and Delrin polymer rollers allow the system to roll smoothly, keeping the rollers from developing a flat side over time.
- Our unique 6063-T6 aluminum extrusions means Panda systems are more durable and reliable than our competitors', even with everyday use.
- "Ultra" systems are available for especially large openings (up to 13 feet tall) and has optional bottom support due to heavier panels.
- A bottom-running recessed track option is available (ideal to help carry the weight of very large systems).

Tracks

Several track options are available to complement your design goals:

- **3/4" Recessed Track**
The smallest recessed track available for folding doors. Recommended for interior or full coverage applications.
- **1 1/2" Recessed Drainage Track**
This recessed drainage track is ideal for residential applications in cases where the 2" Thermally Broken Recessed Drainage Track is too large.
- **1 1/2" ADA Recessed Drainage Track**
An ADA compliant recessed drainage track ideal for commercial applications.
- **2" Thermally Broken Recessed Drainage Track**
This track offers improved energy efficiency performance thanks to its thermally isolating properties that create a barrier between inside and outside temperatures.
- **2 1/4" Recessed Drainage Bottom Running Track**
This track carries most of the weight of the system on the track itself to lessen the load on the header, enabling larger panel sizes.
- **3/4" ADA Surface Track**
An ADA compliant, surface-mounted track ideal for interior applications or full coverage applications. Ramps come standard on the interior and exterior.

- **3/4" Surface Track**
Suitable for interior or full coverage applications. Ramps come standard on the interior and exterior with weep drainage options available.
- **2 3/16" Thermally Broken Standard Surface Track**
Offers improved energy efficiency performance thanks to its thermally isolating properties that divide inside and outside temperatures. The track is installed directly on top of the finished flooring, and can be powder coated to match the system.
- **2 3/16" Standard Surface Track**
Similar in design and installation to the 2 3/16" Thermally Broken Standard Surface Track, this option is for non-thermally broken units. The track can be powder coated to match the system.
- **2 3/16" Standard Surface Track (S.74 Out-swing Only)**
Similar in design to the 2 3/16" Thermally Broken Standard Surface Track, with the added option of a wood-clad interior surface. Perfect for installation that requires the track exposure. This track can be powder coated to match the system exterior, with wood-cladding to match the system interior.



LIFT & SLIDE DOORS

What is a Lift & Slide Door?.....

Due to their ease of operation, Lift & Slide doors are a popular choice for opening up large expanses. When not in use, a system of levers and wheels drop each panel to the floor sill, compressing double v-gaskets against the floor, sides, and top of the panel. With the gaskets designed to create an airtight and watertight seal around each panel, the system is remarkably weather-proof and safe against forced entry.

Applications and Uses

Lift & Slide door systems are state-of-the-art and easy-to-use. Best for applications that require maximum protection from the elements (such as high-force winds or extreme temperatures), they are among the most weather-resistant systems on the market. Panda's Lift & Slide systems are designed to meet the most stringent building codes nationwide and have proven performance in the most demanding environmental conditions.

Features and Benefits

→ Offers a barefoot friendly recessed track that sits just 3/16" above the finished floor.

- Can support panels as large as 100 square feet.
- Steel rollers and hardware components are available for coastal applications where corrosion from salt is a concern.
- Our unique 6063-T6 aluminum extrusions means Panda systems are more durable and reliable than our competitors', even with everyday use.
- Ability to maximize open space up to 100% when pocketing (storing) the doors.
- Multi-point locks leverage the weight of the panel and secure the door against forced entry.
- State-of-the-art engineering means each panel can be operated with only a single finger, even when panels exceed 600lbs!
- Hurricane-rated "Impact" Lift & Slide doors are available.
- Varying profile thicknesses are available for a more modern and contemporary look.
- Multi-direction panel configurations are available.

Tracks

Several track options are available to complement your design goals:

- **2 ½" Recessed Drainage Track**
This track is recommended for applications that are prone to heavy rains or direct weather as the drainage channel is the largest available. Featuring 3/16" visible above the finished flooring, this track creates a beautiful and seamless transition between your indoor and outdoor space. It is barefoot friendly and offers minimal obstruction for foot traffic.
- **2 ½" Recessed Track**
This track is recommended for interior or exterior use with Lift & Slide systems that have complete protection from the elements; as it is not suited to deal with water infiltration. Featuring 3/16" visibility above the finished flooring, this track creates a beautiful and seamless transition between your indoor and outdoor space. It is barefoot friendly and offers minimal obstruction for foot traffic.
- **1 ¼" Recessed Drainage Track**
This track is recommended for applications with wood sub-flooring or post-tension concrete. Featuring 3/16"

visibility above the finished flooring, this track creates a beautiful and seamless transition between your indoor and outdoor space. It is barefoot friendly and offers minimal obstruction for foot traffic.

- **1 ¼" Recessed Track**
This track is ideal for applications with wood sub-flooring or post-tension concrete. It is recommended for both interior and exterior use with Lift & Slide systems that have complete protection from the elements; as it is not suited to deal with water infiltration. Featuring 3/16" visibility above the finished flooring, this track creates a beautiful and seamless transition between your indoor and outdoor space. It is barefoot friendly and offers minimal obstruction for foot traffic.
- **5/16" Surface Track**
Perfect for interior applications, this track is installed directly on top of the finished flooring.
- **1/2" Surface Track**
This track is only offered for the S.10, S.11, TS.19 and IS.14 systems. Sill pan, weep drainage, and ramp options are all available.



MULTI-SLIDE DOORS

What is a Multi-Slide Door?.....

Also known as sliding doors or telescoping doors, Multi-Slide Door systems are ideal for opening up large expanses. They are made up of several panels that slide and stack to one or both sides of an opening or into a pocket. There is virtually no limit to how many panels can be included in one system.

Applications and Uses

As they allow openings to be maximized up to 100% when doors can be pocketed, Multi-Slide Doors provide a minimally obtrusive way of opening largespaces. Fully customizable, they are state-of-the-art, high-quality and easy-to-use.

Features and Benefits

- A 'bottom-running' system means all of the system's weight is carried on the bottom track.
- European hardware and Delrin polymer rollers allow

the system to roll smoothly, keeping the rollers from developing a flat side over time.

- Steel rollers and hardware components are available for coastal applications where corrosion from salt is a concern.
- Our unique 6063-T6 aluminum extrusions means Panda systems are more durable and reliable than our competitors', even with everyday use.
- Ability to maximize clear open space to 100% if the door can be pocketed.
- State-of-the-art engineering means each panel can be operated with only a single finger, even when panels exceed 600lbs!
- Multi-point locks secure the door against forced entry.
- Varying profile thicknesses allow for the option of having a slimmer, more modern look.
- Multi-directional panel configurations are available.

Customizations

Panda fabricates every system according to your exact design and specifications. Choose from a variety of options for wood, track, handles, glass, finish, and curved systems.

Tracks

Several track options are available to compliment your design goals:

→ 5/8" Surface Track

This track is only available for the S.81 and S.83 systems. It can be installed directly on top of finished flooring or can be partially recessed, offering full protection from harsh weather conditions. Sill pan, weep drainage, and ramp options are available.

→ 9/16" Surface Track

This track is only available for the S.90 system. It can be installed directly on top of finished flooring or can be partially

recessed. It comes with a 5/16" interior lip, offering protection from harsh weather conditions.

→ 2 1/2" Recessed Drainage Track

This track is recommended for Multi-slides with shelter from the elements, as it does not offer comprehensive protection against harsh weather conditions. **No drain option also available.**

→ 1 1/4" Recessed Drainage Track

This track is recommended for applications with wood sub-flooring or post-tension concrete, where trenching to install a track is not possible. It is recommended for Multi-slides with shelter from the elements, as it does not offer comprehensive protection against harsh weather conditions. **No drain option also available.**



PANDA SELECT

What is a Panda Select Multi-Slide Door?

The Panda Select Multi-Slide system is a cost-effective option for the discerning client. Also known as a sliding or telescoping door, the Multi-Slide system is composed of several panels that slide and stack to one or both sides of an opening or into a pocket. There is virtually no limit to how many panels can be included in one system.

Applications and Uses

Multi-slide door systems are durable and easy-to-use, and customizable options are available. They provide a minimally obtrusive way of opening large openings when doors can be pocketed.

What is a Panda Select Lift & Slide Door?

The Panda Select Lift & Slide system is a cost-effective option for the discerning client. Enhanced ease of operation makes Lift & Slide systems a popular choice for opening up large spaces. When not in use, a system of levers and wheels drop each panel to the floor sill, compressing double v-gaskets against the floor, sides, and top of the panel. With the gaskets designed to create an airtight and watertight seal around each panel, the system is remarkably weather-proof and secure against forced entry.

Applications and Uses

Lift & Slide systems are among the most weather-resistant systems Panda offers, making them the best option for applications that require maximum protection from the elements. Known for its durability, high-quality, and ease of use, they are also fully customizable.

What is a Panda Select French Door?

The Panda Select French Door system is a cost-effective solution for the discerning client. Also referred to as a egress or terrace door, the French Door system is a popular choice for entryways as well as patio and deck applications. In addition, the system can be fabricated with both sidelites and transom windows, perfect for customizing your design.

Applications and Uses

Ubiquitous throughout modern homes, the French door has a chic, timeless style that brings an elegant touch to your project. The longevity of the system paired with its inherent ease-of-use makes the French Door a popular choice for those looking for the perfect blend of style, substance, and value!

Customizations

Panda fabricates every system according to your exact design and specifications. Choose from a variety of options for wood, track, handles, glass, finish, and curved systems.

Finishes

Panda's standard finish options include 25 AAMA 2604 powder coat colors, all done on-site at our fabrication facility. Options are available for custom color matching, metallic/bonded colors, and even AAMA 2605 powder coat finishes. Kynar and anodized finish options are also available. For added flexibility, thermally broken systems support two-tone finishes.

Tracks

Panda offers several track options that will complement your design goals and are best suited for a variety of applications.



HORIZONTAL SLIDING WALLS

What is a Horizontal Sliding Wall (HSW)?

The HSW system is the premier option for maximizing openings (up to 100%) by sliding and storing panels outside of the opening. The system is top-hung and comprised of multiple individual panels. Featuring completely customizable parking areas, the panels slide and stack anywhere - even in a closet around the corner.

Applications and Uses

By creatively storing panels around corners and in closets, the HSW system is truly versatile door system. Innovative, customizable, and easy-to-use, the HSW system comes with all the custom options Panda has available.

Features and Benefits

→ Custom engineered parking areas to fit your exact design specifications.

- Panels can be stacked outside of the opening, leaving 100% of the opening clear.
- Operable swing panels can be integrated into the system for daily use without having to open the entire system.
- Frameless options allow for no sight lines and uninterrupted views, providing an ultra-modern design for contemporary projects.
- Locking hardware and concealed throw pins create a secure system.
- European hardware and Delrin polymer rollers allow the system to roll smoothly, keeping the rollers from developing a flat side over time.
- Our unique 6063-T6 aluminum extrusions means Panda systems are more durable and reliable than our competitors', even with everyday use.

Tracks

Several track options are available to complement your design goals:

- **1/2" Surface Track**
Suitable for interior or full coverage applications, ramps come as standard on the interior and exterior.
- **3/4" Surface Track**
Suitable for interior or full coverage applications, ramps come as standard on the interior and exterior with weep drainage options available.
- **3/4" Recessed Track**
This is the smallest recessed track available and is recommended for interior applications or applications where there is full coverage of the door system.
- **1 1/2" Recessed Drainage Track**
A recessed drainage track ideal for applications where the 2" Thermally Broken Recessed Drainage Track may be too large.

→ 1 1/2" ADA Recessed Drainage Track

An ADA compliant recessed drainage track ideal for commercial applications.

→ 2" Thermally Broken Recessed Drainage Track

With its thermally isolating properties, this track offers improved energy efficiency by creating a barrier between inside and outside temperatures.

→ Dust Proof Keepers

The most minimal, no-track option available. Recommended for applications with lots of foot traffic and limited weather exposure as it has no weather resistant properties. Each keeper cylinder can lock when panels are open to become ADA compliant.

****This system is currently undergoing NFRC testing.****



OPERABLE WINDOWS FRENCH & PIVOT DOORS



What are the Different Types of Operable Windows?

Awning

Awning windows are typically used as vents and do not fully open. They are hinged at the top of the frame with the window opening facing the ground.

Hopper

Hopper windows are typically used as vents and do not fully open. Hopper windows are hinged at the base of the frame, swing inwards or outwards, with the window opening facing the ceiling.

Casement

Casement windows feature full-articulation and are able to open completely. Similar in function to the French doors system, Casement windows hinge at the jamb and can swing inward or outward.

Tilt & Turn

Tilt & Turn windows are typically used in projects that require a dual-functioning window. Featuring double hinges (both the jamb and at the base), Tilt & Turn windows are able to operate as a casement window as well as a hopper window. All Tilt & Turn windows swing inwards due to the operation of the window.

What is a French Door?

Also known as egress or terrace doors, French Doors are a popular choice for entryways as well as patio and deck applications. In addition, the system can be fabricated with both sidelites and transom windows, perfect for customizing your design.

Applications and Uses

Ubiquitous throughout modern homes, the French Door has a chic, timeless style that brings an elegant touch to your project. The longevity of the system paired with its inherent ease-of-use makes the French Door a popular choice for those looking for the perfect blend of style, substance, and value!

What is a Pivot Door?

Pivot Door systems are a popular choice for entry doors, as they can accommodate a wider and taller opening with a single panel. Each unit is fabricated with a concealed self-closer in either the subfloor or the header. Pivot doors can be fabricated with sidelites and transom windows for added glass and design purposes.

Applications and Uses

Pivot Door systems are elegant, easy-to-use, and highly desirable, with all of the custom options Panda has available. Panda's large Pivot Door systems can impressively enhance entryways with awe and admiration.

Features and Benefits

- Quality hardware and heavy duty self-closers handle the weight of each panel.
- Our unique 6063-T6 aluminum extrusions means Panda systems are more durable and reliable than our competitors', even with everyday use.

- State-of-the-art engineering means each door can be operated with minimal effort, even when panels exceed 500lbs!
- Ability to maximize clear open space (up to 100% dependent upon the ability to pocket the door).
- Multi-point locks and durable fabrication secure the door against forced entry.
- Varying profile thicknesses allow for the option of a slimmer, more modern look if so desired.

Customizations

Panda fabricates every system according to your exact design and specifications. Choose from a variety of options for wood, track, handles, glass, finish, and curved systems.

TS.X0

WINDOW & DOOR MAGAZINE
2019 AWARD WINNER





THE ART OF LUXURY



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