The S.10
ALL ALUMINUM LIFT & SLIDE DOOR SYSTEM

Expanding spaces to the extraordinary
Panda’s Lift & Slide Door Systems have been designed to be the pinnacle of sliding door technology. Engineered to achieve superior performance, weather tightness and smooth operation in configurations where oversized panels are incorporated.

This European inspired design provides minimal site-line interference opening up large expanses while bringing the outdoors in. They also offer versatility as interior doors in environments where sound control is important.

The S.10 All Aluminum Lift & Slide Door System has been the architect’s choice when it comes to colossal openings. Its robust aluminum construction allows large, heavy panels to operate smoothly and securely. It is often used on highly trafficked projects requiring extra-large solutions. This system can be combined with curved or specialty segments to create stunning architectural effects and open up panoramic views with virtually no obstruction.
Overview

FRAMED VIEWS

Aluminum allows for larger sizes with huge glass expanses that not only accentuate the views of the surroundings but also welcome more natural daylight into interior spaces. With door panels that can reach up to 20’ tall, the S.10 Lift & Slide Door System creates a giant framed mural of the outdoors. The S.10 profiles are manufactured from 6063-T5 aluminum which provides superior strength and durability.

Benefits

- Greater access to natural daylighting improves well-being and allows for savings in utility costs.
- Maximum glass exposure creates endless views to where the sky is literally the limit.
- Contribution to a healthier and more comfortable lifestyle
- Enhanced security features make it difficult for break-ins to occur.
- Substantial noise reduction.
- Versatility and design flexibility offers an uncompromising beautiful aesthetic.
- Keeps fresh air flowing through the living space to remove pollutants and stale air.
- Aluminum frames meet the highest demand in strength, performance and longevity.
- Aluminum offers a great variety of rich and luxurious finishes that require minimal maintenance.
- Aluminum is a 100% recyclable, non-toxic and fully sustainable.
- 10-year limited warranty on all material components and a 2-year limited service warranty.
The Lift & Slide Advantage

The Lift & Slide door system offers three significant advantages over conventional multi-slide doors.

Smooth Operation
The Lift & Slide door system runs on two wheel carriages engineered to provide maximum support and incredibly smooth movement.

The wheel carriages that support the panels are comprised of synthetic nylon wheels with encased stainless steel ball bearings. Each wheel carriage can support up to 550 lbs which allows a 1,100 lbs panel to be supported by two multi wheel carriages.

With just the push of a finger; heavy, oversized panels roll smoothly and operate easily!

Superior Weather Performance
Superior sealing capabilities when the door is in the locked position provide protection against air and water infiltration. Dual weather gaskets at the top, bottom and sides engage by rotating the handle 180° and dropping the panels 3/16". The sealing system becomes tighter with increased door size.

Panels use their own weight to compress the seals, thus creating a completely secured wall system when the system is closed and locked, ideal for exterior applications requiring an added layer of security and for climates with extreme weather conditions.

Barefoot Friendly Passage
Panda’s ADA Compliant track system is recessed into sub-floor to ensure the smoothest possible operation. The finished floor is laid in between tracks leaving only a 3/16" rail exposed, a virtually unobstructed threshold from the interior to the exterior area for a barefoot friendly passage.

The drainage recessed track version has a weep channel built-in for increased protection against water infiltration. Panda holds a patent for the drainage technology applied on this track.

Lift & Slide door systems allow for larger panels, which results in fewer vertical posts and more unobstructed views. When building structure allows it, these doors can be pocketed into the wall, leaving a completely unobstructed opening. When stacked, the sliding panels take up the width of one entire panel and stack flush against one another, aligning perfectly for a straight profile.
1. Handle is in the closed and locked position.

2. Door System is securely sealed in the closed and locked position with the weather-stripping engaged in compression. The panels are pulled toward the jamb and lowered onto the track, engaging the dual weather gaskets at the top, bottom and sides.

3. A 180° turn of the door handle unlocks the door.

4. When the handle is rotated down 180°, a special hardware system that unlocks the door and lifts the panel off the track is activated. The door is lifted by about \(\frac{3}{4}\)° taking the pressure off the weather-stripping, enabling motion with very little effort. In this position, the door slides free on rollers and tracks.
Panel Information

Number of Panels
- Countless panel groups can be built.

Panel Weight
- Each panel weighs approximately 7 to 8 lbs/sqft depending on overall panel size.

Panel Size
- Each panel is available in scalable sizes of up to 168” and up to 240” with a true divider.
- Maximum width is 120”.

Panel Construction
- Panels are made of high quality 6063-T5 extruded aluminum with a profile thickness of 2 3/4”.
- Maximum view and minimal obstruction with narrow 4” stile and rail profiles.
Technical description

MATERIALS

Aluminum
The S.10 frame extrusions are manufactured from 6063-T5 aluminum alloy for superior strength and durability.

Glazing
- Clear Low-E tempered-insulated glass is the standard.
- Other glazing options at a thickness of up to 1 7/8" may be used.
- SDLs, TDLs and automated blinds may be integrated.

OPERATING MECHANISM
- The wheel carriages that support the panels are comprised of synthetic nylon wheels with encased stainless steel ball bearings and have a corrosion resistant treatment applied for high performance in coastal regions.
- Concealed multi-point locking system for smooth operation and security.
- Specially designed EPDM V-gaskets and dense felt brushes create a totally closed weather sealed system.

RUNNING
The weight of the panels is carried by rollers fixed to the bottom edge of the panels located in the bottom track. The top track serves as a guide.

FINISHES
- All 25 standard powder coat colors are verified AAMA 2604 compliant with the option to upgrade to AAMA 2605.
- Anodized and Kynar® finishes are available as options.

HANDLES
- Wide variety of contemporary door handles including Panda’s in-house fabricated handles.
- Any handle that fits a 10mm diameter hole can be used.
Configurations

By custom building each door system in house with multiple panel, track types, angled panel connectors and radius curves, almost any size and shape of opening can be accommodated.

**CORNER**
- 45° AND 90° UNITS

**STRAIGHT**

**PANORAMIC**
- MIN. RADIUS (144")

**With Pockets**
- System can pocket left or right.

**Without Pockets**
- System can stack left and/or right.

Have a question or want to request a quote? Contact us
Vertical Section

- Header Framing
- Header Track
- EPDM Glazing Gaskets
- Surface Drainage Track
- 5/16" Surface Track
- Recessed Track
- Recessed Drainage Track
- Standard Recessed Track
- Standard Recessed Drainage Track
- Adjustable Shims
- Top Panel Rail
- Top Clip
- EPDM Glazing Gaskets
- Interior
- Exterior

The S.10 System

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Top Track

- The header track features adjustable shims from ½" to 1" depending on type of bottom track and finished floor thickness.
- The header track widths are approximately 3 ¾₆" for one panel, 6 ¾₆" for two panels, 9 ⅞₆" for three panels, and 13 ⅞₆" for four panels.
- Trench width should be taken into account when planning rough header construction.
Side Frame

- Typical shim space is \( \frac{1}{2}" \).
- The side frame widths are approximately \( 3\ \frac{3}{4}" \) for one panel, \( 6\ \frac{7}{8}" \) for two panels, \( 9\ \frac{7}{8}" \) for three panels, and \( 13\ \frac{15}{16}" \) for four panels.
Pocket Interlock

Recommended Pocket Width

1 Track - 6”
2 Tracks - 9”
3 Tracks - 12”
4 Tracks - 15”

If the pocket is built smaller than the recommended width, the inner wall may need to be framed after installation of bottom track.
Corner Posts

90° Post

45° Post

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Bottom Tracks

**Minimum Trench Depth: 2 ½”**

Recommended Trench Width

1 Track – 6 ¾”
2 Tracks – 9 ⅞”
3 Tracks – 12 ⅛”
4 Tracks – 16 ⅛”

- ADA Compliant.
- Barefoot friendly passage.
- Recessed into sub-floor to ensure the smoothest possible operation.
- The finished floor is laid in between tracks leaving only a 3/16” rail exposed.

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**The S.10 System**

Have a question or want to request a quote? [Contact us](mailto:contactus@pandawindows.com)
**Bottom Tracks**

**Standard Recessed Drainage Track**

**Minimum Trench Depth: 2 ½”**

Recommended Trench Width

- 1 Track – 6 ¾”
- 2 Tracks – 9 ¾”
- 3 Tracks – 12 ¾”
- 4 Tracks – 16 ¾”

- ADA Compliant.
- Barefoot friendly passage.
- Patented Technology.
- Recessed into sub-floor to ensure the smoothest possible operation.
- This track has a weep channel for increased security against water infiltration.
- The finished floor is laid in between tracks leaving only a 3/16” rail exposed.

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Bottom Tracks

Minimum Trench Depth: 1 ½”
Recommended Trench Width
1 Track – 3 5/8”
2 Tracks – 6 7/8”
3 Tracks – 10 1/8”
4 Tracks – 13 3/8”

- ADA Compliant.
- Barefoot friendly passage.
- Recessed into sub-floor to ensure the smoothest possible operation.
- The finished floor is laid in between tracks leaving only a 3/16” rail exposed.
- This track features a shallower recess than the standard tracks mentioned above and is leveled with stack shims instead of all-threads.
Bottom Tracks

**Minimum Trench Depth: 1 ¼”**
Recommended Trench Width
- 1 Track – 3 ¼”
- 2 Tracks – 7”
- 3 Tracks – 10 ¼”
- 4 Tracks – 13 ½”

- ADA Compliant.
- Barefoot friendly passage.
- Patented Technology.
- Recessed into sub-floor to ensure the smoothest possible operation.
- This track has a weep channel for increased security against water infiltration.
- The finished floor is laid in between tracks leaving only a 3/16” rail exposed.
- This track features a shallower recess than the standard tracks mentioned above and is leveled with stack shims instead of all-threads.

The S.10 System

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Bottom Tracks

- ADA Compliant.
- It is used in configurations where recessing is not possible.
- This low 3/16" track mounts directly to the finished floor.
- For best operation, floor must be smooth and level.

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Bottom Tracks

Recommended Trench Width (including ramp)
1 Track – 4 1/2"
2 Tracks – 8"
3 Tracks – 11 1/2"
4 Tracks – 15"

- This low 1/2" track mounts directly to the finished floor.
- It is used in situations where recessing is not possible.
- For best operation, floor must be smooth and level.
- This track sits on the floor with a sill pan featuring drain ports on the bottom of the track. Water travels to the exterior with the help of the sill pan.
- ADA Compliant.

Surface Drainage Track

Have a question or want to request a quote? Contact us
We recommend the use of the following CSI Category when specifying this product.

CSI Code: 08 32 13  Sliding Aluminum-framed Glass Door

Do you have a project?
Give us a call to discuss the details!
We’ll guide you and propose solutions to meet your unique needs.

Contact us
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