The IS.14
ALL ALUMINUM IMPACT LIFT & SLIDE DOOR SYSTEM

Expanding spaces to the extraordinary

Florida approved #17457

Private Residence - Rum Point Beach, Grand Cayman
Architect: John Doak Architecture
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 IS.14 All Aluminum IMPACT Lift & Slide Door System is specifically engineered to endure large missile and hurricane impact without compromising design, imagination and aesthetics, and standing up to coastal pressures such as corrosion, humidity and salt.
Overview

ULTIMATE PERFORMANCE

The contemporary design of the IS.14 combined with ultimate performance with an outstanding 100DP provides a large-scale opening solution to commercial and residential projects in the high velocity hurricane zone (HVHZ) and other wind-borne debris areas.

Designed to comply with stringent Florida Building Codes TAS 201; TAS 202; and TAS 203, the IS.14 is ideal for use in highly exposed areas such as:

- Florida including Miami-Dade County.
- US States within the Gulf of Mexico including coastal Texas.
- The entire US East Coast.
- Hawaiian Islands.
- The Caribbean.
- Yucatan Peninsula of Mexico.

Benefits

- Provides a 24/7 barrier against severe inclement weather that provides peace of mind.
- The oversized panels can withstand Category 5 Hurricanes, Tropical Storms, High Winds and Driving Rain.
- Maximum glass exposure creates endless views to where the sky is literally the limit.
- Greater access to natural daylighting improves well-being and allows for savings in utility costs.
- Versatility and design flexibility offers an uncompromising beautiful aesthetic.
- Keeps fresh air flowing through the living space to remove pollutants and stale air.
- Substantial Noise Reduction.
- Enhanced Security features make it difficult for break-ins to occur.
Testing performed on the pocketing 90 degree zero post All Aluminum IMPACT Lift & Slide Door System (IS.14) by Architectural Testing resulted in the following outcome.

This test was done on two different specimens, including a large 5’ x 10’ system and a 5’ x 12’ system which both used Panda’s patented recessed drainage track system.

With these incredible results, Panda becomes the only manufacturer in the industry with the ability to craft large-sized panels while providing ultimate performance and weather protection.

| Design Pressure: | ± 100 DP  
| Tested to wind speeds up to 197.64 MPH |
| Air Infiltration Result: | ± 1.57 psf (25mph)  
| 0.15 cfm/ft² |
| Water Infiltration Result: | ± 20 psf  
| No leakage |
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.
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 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 weights approximately 7 to 8 lbs/sqft depending on overall panel size.

Panel Size
- Each panel is available in scalable sizes of up to 5’ wide and 12’ tall.

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 1/2” stile and rail profiles.
**Technical description**

**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.

**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 tight system.

**Glazing**
- Features laminated impact resistant glass, either 1/2" monolithic or 1 3/8" double insulating glass.
- SDLs, TDLs and automated blinds may be integrated.

**Finishes**
- All 25 standard powder coat colors are verified AAMA 2604 Compliant.
- Anodized and Kynar© finishes are available as options.

**Handles**
- Wide variety of contemporary door handles including recess and Panda's in-house temporary handles.
- Any handle that fits a 10mm diameter hole can be used.

Have a question or want to request a quote? Contact us
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.

With Pockets
- System can pocket left or right.

Without Pockets
- System can stack left and/or right.
- The header track features adjustable shims from 1/2” to 1” depending on type of bottom track and finished floor thickness.

- The header track widths are 4” for one panel, 7” for two panels, 10” for three panels, and 13” for four panels approximately.

- Trench width should be taken into account when planning rough header construction.
Pocket Interlock

Recommended Pocket Width

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

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

90° Post

45° Post

EPDM GLAZING GASKET
GLAZING CLIP

GASKET

GLASS

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The IS.14 System
**Bottom Tracks**

**Standard Recessed Track**

- 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.

Minimum Trench Depth: 2 ½”
Bottom Tracks

Standard Recessed Drainage Track

- 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.

Minimum Trench Depth: 2 1/2”
Recessed Track

- 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.

Minimum Trench Depth: 1 ¼”
**Bottom Tracks**

**Recessed Drainage Track**

- ADA Compliant.
- Barefoot friendly passage.
- Patented Technology.
- This track has a weep channel for increased security against water infiltration.
- 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.

**Minimum Trench Depth: 1 ¼"**
Bottom Tracks

Surface Track

- ADA Compliant.
- It is used in situations 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.

The IS.14 System

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 Doors

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.

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