The TS.75
ALUMINUM WOOD CLAD THERMALLY BROKEN FOLDING DOOR SYSTEM

Expanding spaces to the extraordinary
Overview

The Panda line of Folding Door Systems is designed to optimize space utilization while dramatically expanding spaces to the outdoors where pockets are not possible. They are suitable for every application, giving you the design freedom to achieve the exact folding opening desired without compromise.

By combining advanced technology with top-quality hardware, Panda’s Folding Door Systems offer stronger support, superior performance and life-long durability. This allows Panda to manufacture large door systems that withstand very heavy loads and operate effortlessly.

The TS.75 Aluminum Wood Clad Thermally Broken Door System is specifically engineered to achieve maximum thermal efficiency without compromising design, imagination and aesthetics, and standing up to external pressures such as corrosion and humidity.
Overview

ULTIMATE THERMAL PERFORMANCE

The TS.75 Aluminum Wood Clad Thermally Broken Folding Door System is specially engineered to provide the highest levels of acoustical and thermal insulation properties.

The extruded aluminum uses polyamide insulating strips offering low conductive properties and greatly reducing the effects of thermal bridging. The interior side of the frame is made of engineered wood for aesthetic beauty and warmth. The wood cladding creates a barrier to sound transmission and heat transfer adding an extra layer of energy efficiency.

Benefits

• Maximizes an opening without having to pocket the doors.
• Greater access to natural daylighting improves well-being and allows for savings in utility costs.
• Contributes to improving the overall thermal performance of the building envelope.
• Enhanced security features make it difficult for break-ins to occur.
• Substantial noise reduction and acoustical insulation.
• Versatility and design flexibility offers an uncompromising beautiful aesthetic.
• Keeps fresh air flowing through the living space to remove pollutants and stale air.
• Aluminum provides a maintenance free exterior.
• Wood cladding warms the interior environment and compliments interior millwork.
• Pinch free resistant gaskets keep the little ones safe.
• Creates a healthier and more comfortable lifestyle.
• 10-year limited warranty on all material components and a 2-year limited service warranty.

When the system is open, the opening is maximized by over 90% creating endless views to where the sky is literally the limit
Technical Description

The TS.75 Folding Door System runs along a single track system and is composed of multiple hinged panels (up to ten in one direction) or unlimited in paired groups of up to six hinged panels multiplied across the opening. This top-hung system carries its weight through a head track and features maintenance-free sealed bearing rollers to allow for the quietest and smoothest operation.

MATERIALS

Aluminum

The TS.75 panel features a narrow 6063-T5 extruded aluminum profile with mitered corners attached and aluminum corner gussets. Its profile is thermally broken by a 15/16inch (24 mm) polyamide strip.

Finishes available include 25 standard powder coat colors. These colors cover the most popular choices, and are readily available at the standard price. All standard and custom colors are verified AAMA 2604 Compliant with the option to upgrade to a verified AAMA 2605 Compliant powder coating finish for an additional charge.

Wood

Wood Cladding is attached to aluminum using specially designed clips for easy access to glazing when repairs or wood cladding upgrades are needed.

In-stock wood supply includes pine and poplar. Other exotic species such as mahogany, Douglas fir and oak, among others, can be custom ordered.

Glazing

- Clear Low-E tempered-insulated 1” glass is the standard.
- Glazing options at a thickness of ¼” to 1¼” may be used for improved thermal transmittance, privacy and safety protection.
- SDLs, TDLs and automated blinds may be integrated.
- The glass is shimmed by means of accessories located in the corners of the doors and is externally adjustable at any time.
Technical Information

Running
- Top-hung system is standard
- Bottom running systems are available for low-weight capacity headers, mostly used in interior applications

Bottom Track System
- Flush u-channel track recessed into the floor for an ADA compliant and uninterrupted floor finish is available
- Standard 2 3/16” track mounts directly to sub-floor and has the best resistance to weather infiltration
- A built-in drainage track can be used for more exposed openings

Gasketing System
Air infiltration is prevented by the use of quadruple magnetic “Z” EPDM glazing gaskets and dense felt brushes that wrap around the entire folding system and nest together between panels. These gaskets maintain the integrity of the thermal pocket and eliminate accidental pinching of fingers between panels.

Hardware
- Wide variety of contemporary door handles including Panda’s in-house built D-shaped handles. Any handle that fits a 7 mm can be used
- A concealed multi-point lock system engages into the top and bottom tracks for increased security
- The pin locking system is used to lock vertical adjustment once heights are set
- Integrated top and bottom hinges are attached to the top carrier and lower guides providing a clean, sleek visual appeal and a secure, long-lasting overall product
- A magnetic keeper or panel collector can be added as an additional safety feature

Operating Mechanism
- The top of each panel has its own solid aluminum carriage with four wheels that run inside an adjustable header.
- Wheel carriages are made using wheels that are fabricated from Delrin® polymer over stainless steel sealed bearings and have a corrosion resistant treatment applied for high performance in highly humid regions
- This assembly is designed to withstand an ultimate load of 450 pounds (204 kg) per wheel carriage and operate with the slightest push of a finger. The result is a folding door panel system that rolls freely, smoothly and quietly.
Panel Information

Number of Panels
Countless panel groups can be built. They slide along the tracks and are connected with special joints and seals.

Panel Weight
Each panel weights approximately 6 to 9 lbs/sqft depending on overall panel size.

Panel Size
- Each panel is available in scalable sizes of up to 120” and up to 144” with a true divider.
- Maximum width is 42”.

Panel Construction
- Panels are made of high quality 6063-T5 extruded aluminum with a profile thickness of 2 ⅛”.
- Maximum view and minimal obstruction with narrow 3 ⅛” stile and rail profiles.

The TS.75 System
Have a question or want to request a quote? Contact us
Configurations

The TS.75 System is engineered to open inwards or outwards with panels stacking to the left, right or bi-parting. Outswing systems are recommended for weather performance in exterior applications. They also help increase the livable interior space because they swing to the outside.

Individually operable swinging panels can be built into most units (with an odd number configuration) to create an every-day entry/exit without needing to unlock the entire system. Typically the direction of the daily swing door will dictate the overall system configuration.

Several layouts including straight lines, 45 and 90 degree corners with zero posts and other specialty segments can be combined to create stunning architectural effects. The 45 degree corner configuration is only possible in out-swing configurations.

Pass-through folding window systems can be integrated into countertops or pony walls for increased functionality. Panda’s FlexCounter™ option combines a folding pass-through window with a full size door system to create beautiful indoor-outdoor transitions in kitchens and bar areas.

Standard Configurations

Exterior view of a 4 panel system with a pass door stacking to the left.
FlexCounter™ consists in a countertop-mounted window system that runs along a recessed track. Often combined with a matching full size glass door system, this unique configuration expands indoor living spaces and blends them to the outdoors, creating functional entertaining areas in kitchens, bar and restaurants.

**Window Wall FlexCounter™**
This window and door combination runs along a recessed track for an unobstructed countertop surface on the window level and a barefoot friendly passage on the floor level.
When the FlexCounter™ assembly is closed, the window strip seamlessly connects with the glass door system to cover the entire opening while offering a secured waterproof shelter.
When fully opened, the panels disappear into pockets or fold away creating a flawless transition into the outdoors and adding a greater sense of openness to the space.

**Window FlexCounter™**
The window system strip runs along a recessed track for an unobstructed countertop surface. A window style FlexCounter™ is often used in restaurants and lounges with outdoor bar seating areas. It creates an open space where bartenders can easily interact with customers.
Vertical Section

- Top running
- Standard recessed track
- Inswing

- Top running
- Standard recessed track
- Outswing

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Vertical Section

- Top running
- Standard recessed drainage track
- Inswing

- Top running
- Standard recessed drainage track
- Outswing
- Top running
- Surface mounted ADA compliant track
- Inswing

- Top running
- Surface mounted ADA compliant track
- Outswing
Example of multiple panel articulation illustrating door panels folding to the left.
Plain view

Example of multiple panel articulation illustrating door panels bi-parting in the center with a left swing door.
Example of multiple panel articulation illustrating door panels bi-parting in the center.
Example of multiple panel articulation illustrating a 45 degree corner configuration.
Header tracks

Top Hung

- The header track is designed to withstand an ultimate load of 450 pounds (204 kg) per wheel carriage and operate with the slightest push of a finger.

- Features an adjustable header with ¾" shim space. Once door heights are set and locked, the mechanism will not self-adjust or loosen over time. Further head adjustments can be made at any time with a screwdriver.
**Bottom tracks**

**Standard Surface Mounted Track**

- 2\(\frac{3}{8}\)" track mounts directly to sub-floor
- Best resistance to weather infiltration
- Delivered as standard with the TS.75 system

The TS.75 System

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**Bottom tracks**

**Recessed ADA Drainage Track**

- Available with or without drainage line
- Barefoot friendly passage
- The finished floor is laid in between tracks leaving only a 3/8" rail exposed

The TS.75 System

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Bottom tracks

Standard Recessed Track

The TS.75 System

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Bottom tracks

1/2" ADA Compliant Track

- Low profile for ease of ingress and egress
- Mounts directly to sub-floor
**Side Frame**

Open side jamb meeting even with panel system (outswing)

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5\frac{3}{8}''
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Side jamb with swing door (in-swing)

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6\frac{7}{16}''
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Side jamb with swing door (out-swing)

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6\frac{7}{16}''
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Side Frame

Hinged side jamb for folding and swing doors

90 degree corner with post meets even number of panels (out-swing)

The TS.75 System

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System Joints

Panel meeting joint (in-swing)

Even panel to swing door (in-swing)

Center swing door with inactive panel (in-swing)

Center bi-part door (in-swing)

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We recommend the use of the following CSI Category when specifying this product.

CSI Code: 08 13 76           Bifolding Metal 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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