



TABLE OF CONTENTS

Automatic Sliding Doors 3

- ✿ Profiler® Series 2000B Elite Belt Drive..... 3
- ✿ Profiler® Series 2000 Linear Drive 3
- ✿ ProSlide™ Series 2003 Belt Drive..... 3
- ✿ ProSlide™ Series 2003SA Belt Drive..... 3
- ✿ ProSlide™ 2003 Series Belt Drive Telescoping..... 4
- ✿ HD-Slide 2001 Belt Drive..... 4
- ✿ HD-Slide 2500 All-Glass Elegant™ Series..... 4

Automatic Swinging Doors (also known as full power doors) 6

Low Energy Swinging Doors..... 7

Automatic Folding Doors 8

Revolving Doors..... 9

- ✿ Series 9600 Grand® Revolving Door..... 9
- ✿ Series 9600 MiniGrand® Revolving Door..... 9
- ✿ Series 9300 AutoFlow™ 9
- ✿ Series 9200/9100 ControlFlow™ 9
- ✿ Series 9500 EasyFlow™ 10

ICU / CCU / Isolation Room Doors 11

Lead-lined doors..... 14

Drive-Thru Service Windows 15

Industrial Sliding Doors..... 15

- ✿ RapidSlide™ 15
- ✿ HD-Slide with Hollow Metal Panels..... 15
- ✿ HD-Slide with Aluminum & Glass Panels..... 15



- ⚙ UltraClean™ and Sterile doors 15
- Door Construction 16
- Finishes 16
- Quality Assurance and Code Compliance 17
- Installation Considerations 17
- Design Life 17

General: Horton Automatics manufactures a variety of automatic pedestrian doors. This selection guide is intended to acquaint architects, specification writers and owners with the various Horton products available and the process involved in selecting an appropriate automatic door. Please refer to the Horton [glossary](#) for the proper definition of terms with which you may not be familiar.

TYPES OF DOOR SYSTEMS

There are six (6) door systems available from Horton Automatics: [Sliding](#), [Full Power Swing](#), [Low Energy Swing](#), [Folding](#), [Revolving and Manual Intensive Care Unit](#) doors. In addition, we offer a line of [Service Windows](#) both in manual and automatic configurations as well as a line of [Industrial Sliding doors](#). The Horton Automatics industrial line includes exclusive pneumatic and explosion proof operators. Popular subsets of the above include: In-Ground swing operators, lead-lined doors and our new 2-wing and all-glass automatic and manual revolving doors.



AUTOMATIC SLIDING DOORS




The automatic sliding door is a very efficient way to accommodate simultaneous two-way traffic flow. It can also be used very effectively in controlling directional traffic situations such as one door for entry-traffic and another for exit-traffic – this is the typical set up of large retail establishments. When a vestibule air lock is considered, the distance between door banks should be a minimum of 9 feet (12 feet is preferred) to provide an adequate detection zone for the activation sensors.

Automatic sliding doors are available in single, biparting and telescoping slide configurations. These are furnished as complete standard packages, surface mounted or concealed overhead. Slide doors typically include an operator, header track, carrier wheels, sliding door panel(s), sidelite panel(s), jambs, lock and activation/safety systems. Door systems can be designed in full (all panels break out for emergency egress), partial or non-breakout configurations. Finish options and custom designs are available and Horton specializes in custom designs. Horton offers five drive mechanisms:

- ❁ **PROFILER® SERIES 2000B ELITE BELT DRIVE.** This 4" x 6" header is a Horton exclusive. The slim design maintains harmony with store fronts which are typically 4" or 4.5" thick providing for attractive sightlines. In addition, the Series 2000B header is also used in our hurricane packages, resulting in a robust construction. The 2000B system is available in single slides ranging from 7' to 9' and biparting ranging from 8' to 16', and also in hurricane rated configurations up to ±55 PSF. Click [here](#) to review the specifications and architectural details of the standard products and [here](#) for similar details of the hurricane-rated system.
- ❁ **PROFILER® SERIES 2000 LINEAR DRIVE.** In addition to the benefits listed above, the Linear Drive is a Horton exclusive design in which a travel block with a built-in clutch describes a helical path along a 1/2" stainless steel rod to open and close the door panels. There are fewer moving parts and wear items resulting in a quiet, dependable and durable system. The 2000 Linear Drive system is available in single slide configurations ranging from 7' to 9' and biparting configurations ranging from 8' to 16', and also in hurricane rated configurations up to ±55 PSF. Click [here](#) to review the specifications and architectural details of the standard products and [here](#) for similar details of the hurricane-rated systems.
- ❁ **PROSLIDE™ SERIES 2003 BELT DRIVE.** The ProSlide™ is ideal for high traffic applications. This heavy duty belt drive system is engineered to provide long life and quiet operation. Click [here](#) to review the specifications and architectural details.
- ❁ **PROSLIDE™ SERIES 2003 SA BELT DRIVE.** This system shares the power train and header design of the ProSlide™ 2003 and its panel hanger brackets are designed for surface mounting as opposed to overhead concealed mounting.


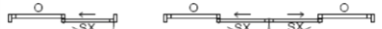
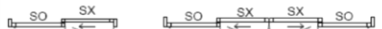





- ❁ **PROSLIDE 2003™ SERIES BELT DRIVE TELESCOPING.** This system uses the Series 2003 power train in a bi-part or single telescoping mechanism. Click [here](#) to review the specifications and architectural details.
- ❁ **HD-SLIDE 2001 BELT DRIVE.** The HD Slide boasts an 8" x 8" mammoth header that houses a powerful system designed for large heavy commercial and industrial applications. The HD-Slide header is the mechanism of choice for all glass Elegant™ entrances and platform screen doors for people mover systems. The HD-Slide 2001 is the power train of the [HD-Storm](#) hurricane-rated system, which at ±80 PSF is the highest rated, largest envelope hurricane-rated door system on the market. Click [here](#) to review the specifications and architectural details.
- ❁ **HD-SLIDE 2500 ALL GLASS ELEGANT™ SERIES.** The frameless styling of the Elegant™ series adds distinction to your facility by showcasing the inner beauty of the building while offering the advantages of automatic operation and energy conservation. This series is available in sizes ranging from 6' to 8' for single slides and 9' to 14' for biparting and comes standard with ½" tempered glass. Click [here](#) to review the specifications and architectural details.

Selection Guide						
Model	Type	Unit Width	Max. Clear Opening	Type 110 Breakout Opening	Type 310 Breakout Opening	
 Elegant™	Single	7' to 9' (2134-2743)	3' to 4' (914-1219)	3' 1¼" to 4' 1¾" (959-1264)	6' 3" to 8' 3" (1905-2515)	
	Bipart	9' to 14' (2743-4267)	3' 6" to 6' 4" (1067-1930)	3' 10" to 6' 4" (1168-1930)	7' 9½" to 12' 9½" (2375-3899)	
 Profiler® & ProSlide™	Single	7' to 9' (2134-2743)	3' to 4' (914-1219)	3' 3½" to 4' 3½" (1003-1308)	6' 3" to 8' 3" (1905-2515)	
	Bipart	8' to 16' (2438-4877)	3' to 7' (914-2134)	3' 7" to 7' 7" (1092-2311)	6' 9½" to 14' 9½" (2070-4509)	
 ProSlide™ Telescoping	Half	7' to 12' (2134-2743)	3' 7½" to 6' 11½" (1105-2121)	2' 1¼" to 3' 9¼" (641-1149)	6' 1" to 11' 1" (1854-3378)	
	Biparting	9' to 16' (2743-4877)	4' 1½" to 8' 9½" (1257-2680)	2' 7½" to 4' 11½" (800-1511)	7' 5" to 14' 5" (2261-4509)	



System Hanging and Mounting Options

PERIMETER MOUNT		O-X The sliding panel 'X' shall be installed to slide along the inside of the fixed sidelite 'O'.
		O-SX The swing-slide panel 'SX' shall be installed to slide along the outside of the fixed sidelite 'O'. 'SX' panel shall swing out 90 degrees from any point of slide travel.
		SO-SX The swing-slide panel 'SX' shall be installed to slide along the inside of the swing-out sidelite 'SO'. 'SX' panel shall swing out 90 degrees from any point of slide travel.
		O/SO-SX The swing-slide panel 'SX' shall be installed to slide between the fixed sidelite 'O' and the swing-out sidelite 'SO' panel. 'SX' shall swing out 90 degrees from any point of slide travel.
SURFACE MOUNT		P-SX Unit is surface applied to outside face of the wall. The swing-slide panel 'SX' panel shall swing out 90 degrees from any point of slide travel.
TELESCOPING	 <p>Only O-X-SX type shown but available in all types.</p>	O-X-X Slide only. Non-breakaway. O-X-SX Lead panel swings out in emergency. SO-SX-SX All panels swing out in emergency. P-X-SX Unit is surface applied to outside face of the wall. Lead panel swings out in emergency.
		<p>Two-speed slide panels move in same direction. Lead Panel (Fast) moves twice the distance as the secondary (Slow) panel. Single or Center Parting. Provides large clear opening.</p>

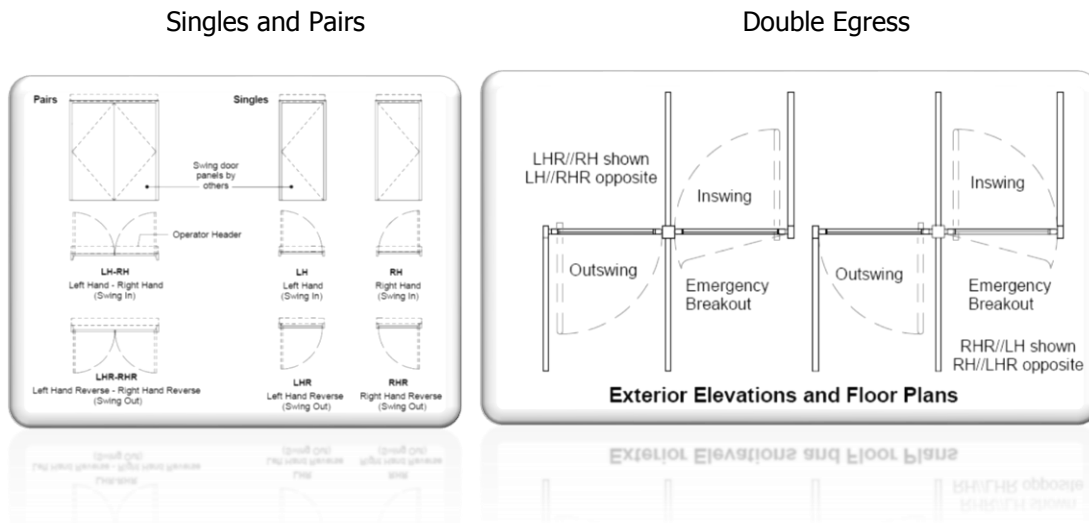
[Back to Table Of Contents](#)



AUTOMATIC SWINGING DOORS (ALSO KNOWN AS FULL POWER DOORS)

The automatic swinging door is normally used for directional or one-way pedestrian traffic. Typically, one door is used for ingress and another for egress. Horton does not recommend the use of automatic swinging doors for two-way traffic applications for full power applications. When exceptions are made, the application must be well planned in consultation with experienced designers with perhaps a remote switch/push plate to activate the door well in advance of an approach. The key issue is synchronizing the activation and safety sensors so that a smooth traffic flow is achieved. When a vestibule air lock is considered, the distance between door banks should be a minimum of 9 feet (12 feet is preferred) to provide an adequate detection zone for the activation sensors.

Horton recommends the use of the aluminum swing door panel when a Horton Automatics Series S4000 or S7000 operator is used. This practice ensures that the door is constructed to accommodate the demands of automatic application. Design professionals often find that supplying an operator for use on existing doors is generally limited to applications where the need to closely match adjacent entrances in the area is critical or when fire rated doors are under consideration. Automatic full-power swing doors can either be supplied as complete packages, or simply as the operator with header and drive arms. They can be mounted as overhead-concealed operators for direct drive applications or surface mounted for push and pull applications. Automatic swing door products are designed for [single, pair or double egress](#) applications.



When supplied as a complete package, this will generally include an operator, header, door panel(s), jambs, lock, guide rails, electronic activation/safety system and all applicable safety hardware. When existing door panels are used, then an operator with header and drive arms are supplied – along with an appropriate activation and safety system.

In all instances, guide rails may be required to protect the swing area of the door panel. If the doors swing against a natural barrier such as a wall, the guide rails may be removed from consideration. Click [here](#) to review the specifications and design sheets. Explosion proof pneumatic swing operators are also [available](#) for industrial applications.



LOW ENERGY SWINGING DOORS

Low energy swinging doors provide accessibility for the physically challenged – while allowing other pedestrians to use the door as a normal manual swinging door. Typically, low-energy operators are applied to existing doors in order to meet ADA requirements. Hospitals and bathrooms are also typical applications.

Automatic low-energy swinging door operators are designed for applications requiring [ADA](#) (American with Disabilities Act) compliance. They are available in [single pair or double egress](#) configurations. This type of operator is usually activated with push plates, which the industry calls “knowing act activation.” The unit includes the header, operator and drive arm. Because the door moves at an intrinsically safe speed, safety sensors are not required by code. Some users require extra sensors for added protection – again this is not required and does not affect the safe operation of the low energy entrance.

Horton Automatics offers two Low Energy Systems:

- ❁ [Heavy Duty HD-Swing® 4000 LE](#)
- ❁ [EasyAccess® Series 7100 Low Energy](#)
- ❁ [In-Ground Swing Operator](#)

Also, Horton Automatics offers an In-Ground Swing Operator, designed to install underground for applications where preserving the visual appeal of an entrance is an utmost consideration. This is typical of historical building. The application of choice for this system is Low Energy.

[Back to Table Of Contents](#)



AUTOMATIC FOLDING DOORS

Folding doors are a space saving solution when the opening width is restricted to approximately six (6) to eight (8) feet and there is a need to move traffic in both directions. Folding doors are a sound choice in narrow corridors as they maximize the opening path (85% of the total wall-to-wall width can be used as a walkway). Single fold doors are best suited for directional or one-way traffic, whereas bi-fold doors are best suited for two-way traffic

Automatic folding doors are furnished as complete packages which typically includes the operator, header, pivot hardware, door panels, guide rails, lock and activation/safety system. They are offered in either [single fold](#) or [bi-fold](#) configurations.

Selection Guide			
Type	Unit Width	Maximum Clear Opening	Maximum Breakout Opening
Single (2 panels)	3' 8" to 4' (1118–1219)	2' 8" to 3' (813–914)	2' 11" to 3' 3" (889–991)
Pair (4 panels)	6' to 8' (1829–2438)	4' 4" to 6' 4" (1321–1930)	4' 11" to 6' 11" (1499–2108)

[Back to Table Of Contents](#)



REVOLVING DOORS

Manual and automatic revolving doors can be used for high-traffic applications requiring simultaneous entry and exit or controlled access. Revolving doors have the advantage of reducing the amount of exchanged air from the building to the outside and vice versa, creating an air lock that helps manage energy use and expenses. This occurs as the rotating wings do not allow for the direct flow of air to go through the entrance, effectively acting as an “always opened, always closed” entrance. Empirical studies ([MIT](#) et al) indicate that the amount of air that can be exchanged through a revolving door is less than 10% of what is exchanged through a swing or slide entrance. This phenomenon translates into significant savings in energy consumption and CO₂ emissions. In areas of high wind and high humidity, savings are particularly substantial, resulting in a payback of months. Horton has developed an interactive simulation that allows owners and facility managers to assess the savings in Kilowatt/Hour, CO₂ reduction and air conditioning equipment – please call us for FREE energy assessment of your entrance.

Our automatic and manual revolving doors are manufactured as complete packages in virtually any finish the specifier desires. Horton offers four-wing and three-wing designs. Larger doors also offer center core displays. Smaller doors have center shaft drive systems. Doors smaller than 9 feet in diameter are typically offered in security and controlled access applications. All Horton revolving doors are factory-equipped with all necessary activation and safety systems for safe operation and code compliance.

- ❁ **SERIES 9600 GRAND® REVOLVING DOOR.** Manufactured in diameters ranging from 12 to 16 feet, this system offers spacious compartments and provides an elegant and energy efficient entrance capable of handling large volumes of pedestrian traffic as well as shopping carts, bicycles, wheel chairs and hospital stretchers. They are typically designed in three-wing configurations and in the specifier’s choice of round or segmented drum and canopy combination. The Grand® Revolver comes with a center core which is an ideal promotional display and is capable of handling 45 people per minute.
- ❁ **SERIES 9600 MINIGRAND® REVOLVING DOOR.** Offered in diameters ranging from 11 to 12 feet, this system has the same construction of a Grand with a center shaft as opposed to the center core of the Grand. All options available with the Grand® are available with the MiniGrand® including activation and safety systems. The MiniGrand® is capable of handling 40 people per minute.
- ❁ **SERIES 9300 AUTOFLOW™.** This hands-free entrance system comes in 10 foot diameters (9’ available for foreign countries). It features a reduced speed feature that slows the rotation for wheelchairs, strollers and other slower moving traffic. This series is offered in 3 or 4-wing configurations and with a curved or segmented drum.
- ❁ **SERIES 9200/9100 CONTROL FLOW™.** The ControlFlow™ is available in [1-way](#), [1-way airport](#), [2-way card access](#), [anti-piggyback/anti-tailgate](#) and [Object Detection](#) security packages, all with user selectable security levels. Level III bullet resistant glazing and mat-less activation is also available. The ControlFlow™ is the ultimate protection for financial institutions, government offices, laboratories and any other facility where security is paramount. The ControlFlow™ is factory-equipped with all the



necessary safety, security and application-specific sensors and hardware and delivered in your choice of finish. Diameter range from 6 foot 6 inches to 12 feet depending on the application.

- ❁ **SERIES 9500 EASYFLOW™**. This is an outstanding choice for energy efficiency and architectural appeal. Each system is equipped with a speed control that limits the rotational speed of the system for safe operation and book-fold hardware for emergency egress. This system is available in curved and segmented drum and canopy design, choice of finish, 3- or 4-wing configurations, and 6 to 8 feet diameters (up to 9 feet for foreign countries), with an option for return to quarter point.

Grand®

3-Wing

Selection Guide

Standard Segmented® Drum	
Outside Diameter	Entry - 3 Wing
12'	5' 3 3/4"
14'	6' 3 3/4"
16'	7' 3 3/4"

Standard Round Drum	
Outside Diameter	Entry - 3 Wing
12'	5' 1 1/2"
14'	6' 1 1/2"
16'	7' 1 1/2"

10' 1.1%, 14' 5.1%, 16' 5.1%

Order options: Book - 1.000, Standard - 1.000

MiniGrand®

3-Wing Segmented® Drum **3-Wing Round Drum**

Selection Guide

Outside Diameter	Standard Segmented® Drum	Standard Round Drum
	Entry - 3 Wing	Entry - 3 Wing
11'	4' 9 3/4"	4' 7 3/4"
12'	5' 3 3/4"	5' 1 3/4"

15' 2.3%, 17' 4.3%, 19' 4.3%

Order options: Book - 1.000, Standard - 1.000

ControlFlow™ 1-Way

Segmented® Drum **Round Drum**

Selection Guide

Inside Diameter	Segmented® Drum		Round Drum	
	Entry - 3 Wing	Entry - 3 Wing	Inside Diameter	Entry - 3 Wing
8'	8' 3 1/2"	8'	8' 3 1/2"	
9'	9' 3 1/2"	9'	9' 3 1/2"	
10'	10' 3 1/2"	10'	10' 3 1/2"	

10' 10.3%, 10' 10.3%, 8' 8.3%, 9' 9.3%

Order options: Book - 1.000

ControlFlow™ 2-Way Card Access

Round Drum

Selection Guide

Segmented® Drum	
Inside Diameter	Entry - 4 Wing
6'	3' 10"
7'	4' 6 3/4"

Round Drum	
Inside Diameter	Entry - 4 Wing
6'	3' 10 1/4"
7'	4' 7 3/4"

3' 4.3%, 6' 3.10%

Order options: Book - 1.000, Standard - 1.000

ControlFlow™ Airport Security

Segmented® Drum **Round Drum**

Selection Guide

Segmented® Drum		Round Drum	
Outside Diameter	Entry - 3 Wing	Outside Diameter	Entry - 3 Wing
12'	5' 3 3/4"	12'	5' 1 1/2"

15' 2.3%, 15' 2.1%

Order options: Book - 1.000, Standard - 1.000

[Back to Table Of Contents](#)



ICU / CCU / ISOLATION ROOM DOORS

Horton offers the industry's broadest line of ICU/CCU systems including smoke-rated (tested to UL 1784 to meet the requirements of NFPA 105) swinging, sliding (automatic and manual), telescoping, bi-folding/bi-swinging, and self-closing (no power) with unlimited custom, special glazing, and finish options. Click [here](#) for specification and architectural details of Horton Automatics ever expanding line of health care solutions. The following information gives you more detail of our ICU offering in particular.

Table I lists the different types of glass, header type and configurations available.

Table I. System Type, Hand, Header Type and Glass

System Type	Hand	Header Type	1/4" Clear Tempered	1/4" Etch Matte	1" Mini Blinds	1" Fire Rated Panel
Swing	Single LHR or RHR, Pair LHR-RHR	2-1/2"	Approved	Approved	Approved	Approved
Single Slide	P-X or X-P (Type 010)	2-1/2"	Approved	Approved	X	X
Single Slide	SO-SX or SX-SO (Type 310 Trackless)	2-1/2" or 6"	Approved	Approved	Approved	Approved
Single Slide	O-SX or SX-O (Type 110)	2-1/2"	Approved	Approved	X	X
Single Slide	SO-SX or SX-SO (Type 310)	2-1/2"	Approved	Approved	X	X
Telescoping	SO-SX-SX or SX-SX-SO (Type 310T)	2-1/2"	Approved	Approved	X	X
Telescoping	SO-SX-SX or SX-SX-SO (Type 310T Trackless)	2-1/2"	Approved	Approved	X	X
Self Closing Single Slide	SO-SX or SX-SO Trackless	6"	Approved	Approved	X	X

The following eleven (11) customizable options are available for all Horton S-rated units:

1. Choice narrow medium and wide stiles
2. Hardware on vertical rails (handles, flush bolts, etc.) can be placed at any point
3. Accessories tested with a given system (e.g., handles, bar carts, etc.) are optional
4. Muntins are optional and available in any size 2 1/4" or larger
5. Etch-matte and smooth glass may be used interchangeably
6. If mini-blind glass is specified, any mini-blind glass supplier can be used as long as it's manufactured to the OEM-SL20-A standard (mini-blinds sandwiched by two panes of 3/16" clear fully tempered glass)
7. Mini-blind systems can be ordered without the fire-rated panel for both swing and slide systems. The mini-blinds would encompass the entire frame of the door in place of the bottom fire-rated panel
8. Any door hardware can be added as long as the hardware assembly does not penetrate the door assembly
9. 4" and 4 1/2" jambs can be specified
10. Constant latching flush bolts can be used in place of manual flush bolts (supplier specific)
11. Powder coat and anti-microbial finishes are available
12. Table II lists the maximum sizes, bottom rail types, muntins and stiles available in our current S-rated ICU offering



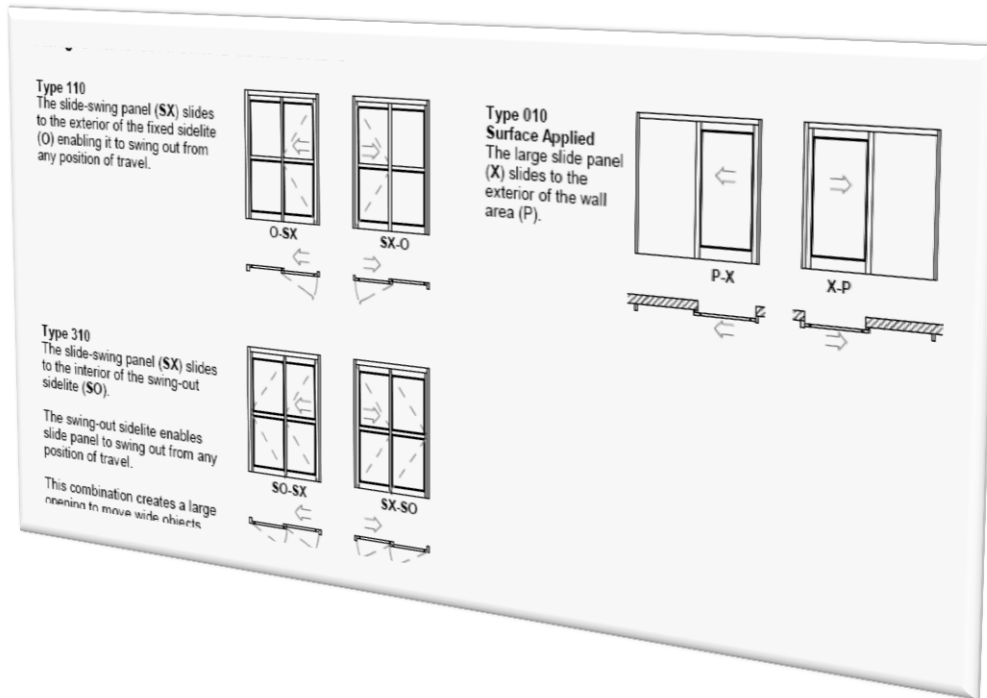
Table II. Max Sizes, Bottom Rail, Muntin and Stile Approved Options

Horton Smoke-Rated Door Configurations					
Door Type	Maximum Size		Bottom Rail Available	Muntin Available	Stile Available
	Width	Height			
Single Slide					
Track					
110	9'	7' 2½"	4", 6½", 8", 10"	2¼ or larger	Narrow/Medium/Wide
310	9'	7' 2½"	4", 6½", 8", 10"	2¼ or larger	Narrow/Medium/Wide
Trackless					
310	9'	7' 2½"	4", 6½", 8", 10"	2¼ or larger	Narrow/Medium/Wide
Telescoping					
Track					
310T	12'	7' 6"	4", 6½", 8", 10"	2¼ or larger	Narrow/Medium/Wide
Trackless					
310T	12'	7' 6"	4", 6½", 8", 10"	2¼ or larger	Narrow/Medium/Wide
Single Slide Self-Closing					
Trackless					
310	9'	8' ½"	4", 6½", 8", 10"	2¼ or larger	Narrow/Medium/Wide
Single Slide with Miniblinds					
Trackless					
310	9'	8' ½"	4", 6½", 8", 10"	2¼ or larger	Narrow/Medium/Wide
Single Slide P-X or P-SX					
Trackless					
010	11' 3½"	7' 2½"	4", 6½", 8", 10"	2¼ or larger	Narrow/Medium/Wide
Swing					
Equal/Unequal	8'	7' 6½"	4", 6½", 10"	2¼ or larger	Narrow/Medium/Wide
Swing with Mini-blinds					
Equal/Unequal	8'	8' ½"	10"	2¼ or larger	Narrow/Medium/Wide

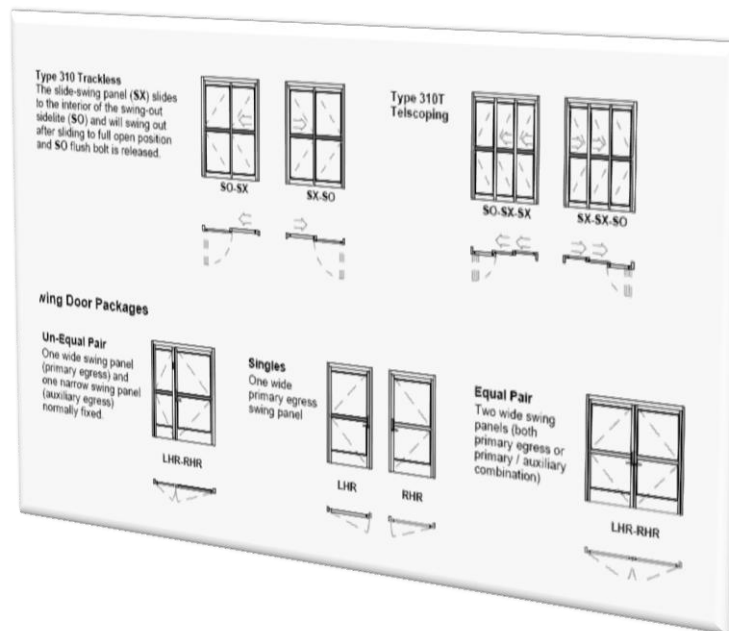
Please note that all other Horton Automatics ICU door systems can be manufactured to S-rating specifications and that **only** the above will carry the **factory applied** UL 1784 label. For non-tested units (i.e., no label), Horton will include compliant perimeter S-rated gasketing and positive latching. Please contact Horton Automatics for details.

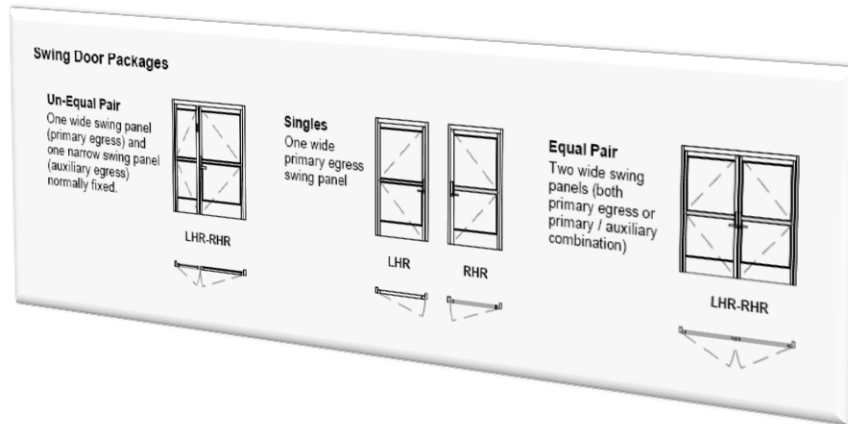


Packages with Bottom Guides



Trackless Packages





Our Product Line is in constant evolution – [contact us](#) for the latest information

LEAD-LINED DOORS

Horton offers [swing](#) and [slide](#) lead-lined doors for hospital X-ray applications. These doors feature a 1/16" of 1/32" lead inlay to contain X-ray radiation. The doors can be finished in flush stainless steel, aluminum, Formica (HDL) or Kydex. Consult with us your special requirements, if any.

[Back to Table Of Contents](#)



DRIVE THRU SERVICE WINDOWS

They are ideal for restaurants, pharmacies, hospitals and any other facility that uses drive thru's to enhance their customer experience. Whether activated manually or automatically, these service windows are available in 2-panel designs ranging from 48 to 50¼ inches and 4-panel designs up to 53½ inches.

INDUSTRIAL SLIDING DOORS

With up to 12 feet of stroke and up to 500 pounds of weight capacity, these door systems are engineered for general industrial as well as sterile environments. These doors systems are offered in P-X, X-P or P-X-X-P configurations and are also available with pneumatic and/or explosion proof operators.

- ❁ **RAPIDSLIDE™** is a light weight steel door system that uses Polyurethane filled [Thermacore®](#) panels for maximum energy efficiency. The RapidSlide™ is available in widths ranging from 13 to 25 feet.
- ❁ **HD-SLIDE WITH HOLLOW METAL PANELS.** This heavy duty industrial system uses a 18 or 20 gauge galvanized steel skin door with Kraft honeycomb core. It also uses 14 gauge interior framing channels. The panels have a flush clean design with no exposed fastener. This system is available in widths ranging from 11 feet 3 inches to 21 feet 3 inches.
- ❁ **HD-SLIDE WITH ALUMINUM & GLASS PANELS.** This full view system is typically offered in medium stiles (5 inches wide) and 6½ inch bottom rails. This system is available in widths ranging from 9 feet 2 inches to 21 feet 2 inches.
- ❁ **ULTRACLEAN™ AND STERILE DOORS.** Horton offers three products to meet the needs of clean room and sterile applications. These systems feature positive seals, vinyl weather-stripping and touch-less wall mounted scanner activation. Electrical interlocks for sequential operating of up to 10 doors is available as well as pneumatic and explosion proof packages.
 - [Ultraclean™ Atmospheric I ISO class 3](#) – Most stringent applications lab systems designed to meet ISO 14644-3 Class 3
 - [Ultraclean™ Atmospheric II](#) – Ideal for clean room and pharmaceuticals applications
 - [Ultraclean™ Sterile](#) – Ideal for food processing and hospital laboratories

[Back to Table Of Contents](#)



DOOR CONSTRUCTION

Door panels are constructed from extruded aluminum. Horton doors feature a unique corner block design that adds rigidity to the panel and ensures years of trouble-free service in the most demanding conditions. The corner block design is a Horton exclusive and is far superior to lower grade through bolt construction typical of other manufacturers. Steel doors are typically provided for fire labeled applications. Stainless steel clad provides a superior non-corrosive finish.



FINISHES

Horton offers industry standard anodic finishes comprised of either 204-R1 class II clear or 313-R1 class I dark bronze. Other finishes are available including special anodize and powder or liquid paint. Cladding materials such as stainless steel and muntz metal (brass) are available in #4 brushed and #7 polished finishes. Anodize, powder paint and clad are VOC-free (Volatile Organic Compounds) and are sound choices for [GREEN](#) design and LEED certification.

[Back to Table Of Contents](#)



QUALITY ASSURANCE AND CODE COMPLIANCE

All Horton products are backed by a one year limited warranty against defect of materials and workmanship and a one year warranty by the installer for labor when installed by an authorized Horton Automatics distributor. If you are specifying a Horton Automatics doors system in the USA or Canada, please verify your provider is certified by AAADM (American Association of Automatic Door Manufacturers). Horton Automatics pedestrian doors comply with the following codes or standards. Consult individual local Horton service providers for verification of field compliance. Follow this link for Horton's [code compliance statement](#).

- ✿ [ANSI A156.10](#): Standard for Power Operated Pedestrian Doors encompasses automatic sliding, swinging and folding doors. A door installed by an authorized Horton Automatics distributor ensures professional and code-compliant installation.
- ✿ [ANSI A156.19](#): Standard for Power Assist and Low Energy Power Operated Doors encompasses doors that operate at a slow speed with low power and can be remotely activated by a push switch/plate or another remote activation device.
- ✿ [ANSI A156.27](#): Standard for Revolving Doors
- ✿ ANSI A117.1 or ADA Compliance for accessibility
- ✿ ADA and fire codes for means of egress
- ✿ UL or ETL Listing, or equivalent as required
- ✿ Wind load and impact testing as required for coastal applications

INSTALLATION CONSIDERATIONS

- The floor should be level across the entire width of the automatic door opening
- Minimally, the floor should be flat and level at least five feet in front of the breakout or swing area of the door(s). A slight slope away from the door (for drainage purposes) is acceptable and recommended
- The rough opening should be approximately 1/2 larger than the overall door package width and 1/4 larger in height
- Each door requires an electrical supply on a separate 120 or 220 volt, 60 hertz, 15-amp circuit

DESIGN LIFE

When properly used and maintained, your Horton Automatics system will last a lifetime. Your local distributor will advise of the typical maintenance schedule. Always demand the use new genuine Horton Automatics parts when servicing your door system.



[Back to Table Of Contents](#)