

The Slide 05 system from 3 form is a clean, versatile sliding door system with excellent functionality that can have the weight borne on either the ceiling or the wall through the use of the wall-mount converter. The sleek frame profiles and matte silver-white finish make the hardware of this door a perfect complement to the aesthetic material it holds, making a beautiful, functional solution for your installation.







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Overview

A note on door selection and the presence of a bottom track:

Slide05 is aesthetically similar to Slide04, but Slide05 does not require a floor track like Slide04 and instead uses a bottom guide under the frame. However, this creates only one point of attachment at the floor instead of two points of attachment, which you get by having 2 rollers on a floor track. This causes Slide05 to be somewhat flexible at the unbound corner of the door. If an installation requires absolute stability then a floor track must be used with Slide04. If you cannot have a floor track then you should expect some flexibility at the bottom of any door system, regardless of the material used or the hardware manufacturer.

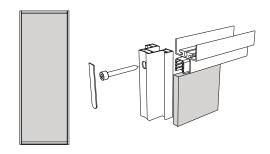
Ceiling or Wall Mounted Track

Since the top track (which bears the weight of the door) can be installed on the ceiling or the wall, there are a variety of possible applications. These include single sliding doors, biparting doors, biparting doors, bypassing doors (2 doors maximum, ceiling mounted track only), and Semi-Pocket Doors. Total single door weight should not exceed 130 lbs.



Framed Door Options and Details

The configuration of Slide 05 involves fully framing your choice of material with a nominal gauge of 1/4" or 3/8". Some material gauges vary, especially glass, so please check with your sales representative to confirm compatibility. The thinner gauge capability of this door allows a more cost-effective panel to be specified without sacrificing panel rigidity or deflection resistance. Also, the minimalist, sleek aluminum frame complements the material without detracting from the overall appearance of the panel.



Additional Options and Accessories

With each door configuration, there are different options to choose from depending on the desired functionality and the aesthetic appearance of the panels. These include the wall mount converter, a mullion option, a bottom roller that can be anchored to the floor or the wall, end covers, bumpers, stops, and dust brushes. These will be detailed later in the document with specific conditions for when each is needed.







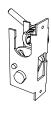








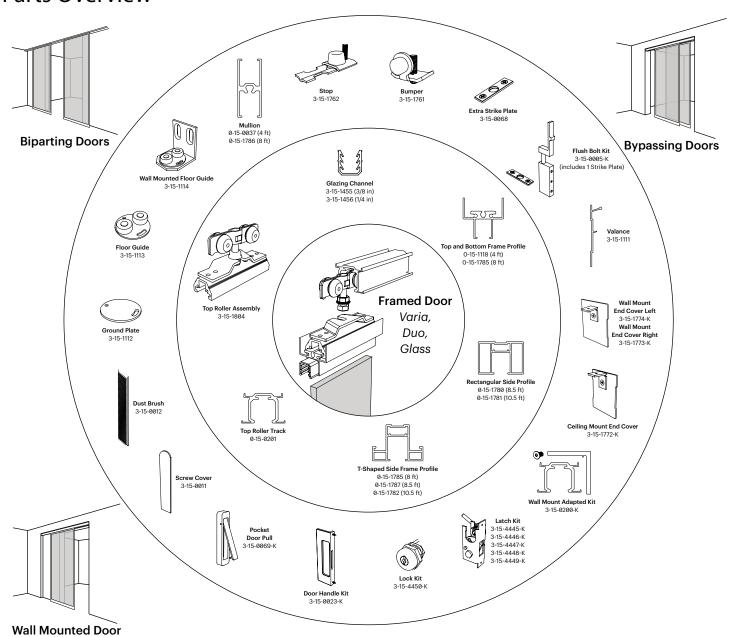






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Overview Parts Overview

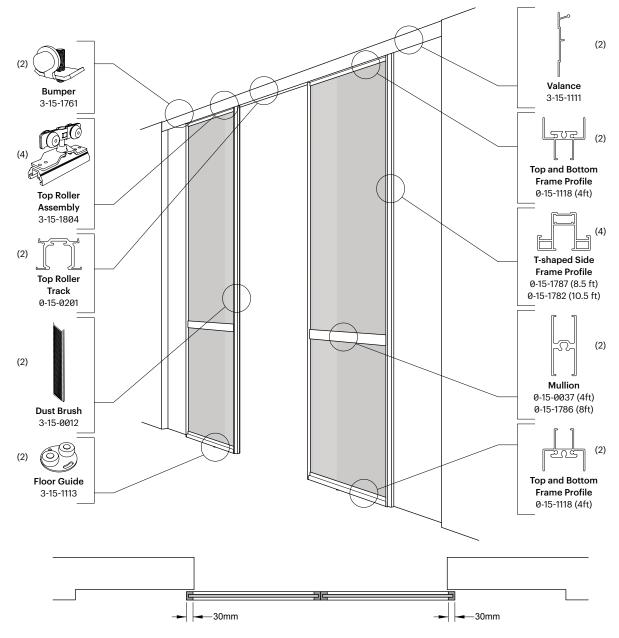


For size dimensions and detail of parts go to: http://www.3-form.com/hardware-catalog-Slide05.php

Solution 1

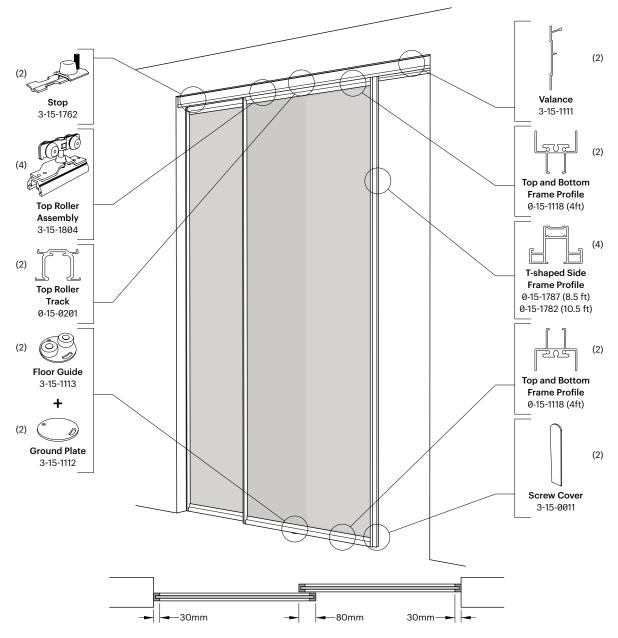
Wall Mounted Semi-Pocket Doors

Biparting doors (sometimes referred to as barn doors) are most commonly mounted with the weight born on the wall, as when the doors are open, they are situated in front of the wall. This particular biparting door configuration has the doors sliding into a semi-pocket door, so that when the doors are open the panels are still visible as an artistic addition to the space. When these doors are closed, they butt into one another and are flush. This can be accomplished by using a single top track, mounted to the wall using the wall mount converter. Bottom rollers are then placed at the outside edge of the door when it is closed. This way the bottom roller acts as a guide as well as a stop for the door. Since this is likely a wall mounted application, please consider wall mount end covers, end cover connectors, floor guides or wall mounted floor guides, and bumpers.



Solution 2 Ceiling Mounted Doors

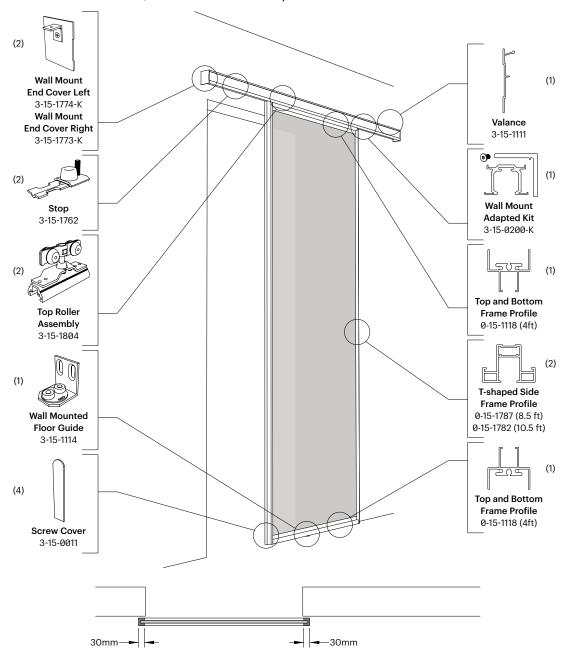
With Slide 05 you can have 2 bypassing doors (no more than 2 are possible) in a ceiling mounted application. In order to achieve this installation, you simply place 2 top tracks next to one another on the ceiling. The details for this placement are outlined on page 7. Doors should be sized to accommodate an 80mm overlap when closed. Please be aware of the opening height and width and the panel and frame sizes and deductions when ordering. Bottom guides would then be placed at the appropriate locations in the bottom frame. When doing this, please take into consideration the desired travel of the doors, as the door will not travel past these floor guides on either side. If there is a high degree of variance in your floor, you can increase the height of the floor guide by using an additional ground plate under the guide.



Solution 3

Wall Mounted Single Door

A single sliding panel can be mounted either to the ceiling or to the wall. In this scenario the single panel door has been mounted to the wall through use of the wall mount profile. When using an installation such as this, please consider the overall travel of the door, as the track will need to span this entire length with some overlap against the wall. A single wall mounted floor guide has been placed in the center of the travel of the door, as the door will not travel past this guide on either side. Other finishing accessories have also been used in this installation, such as end covers and stops.

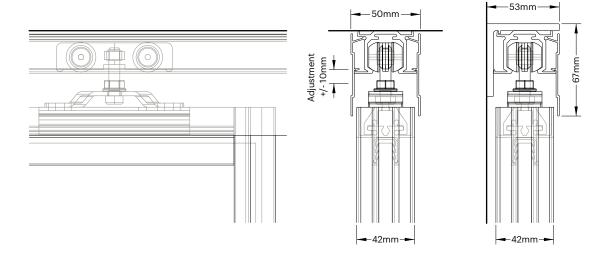


Ceiling Mounted Track

The ceiling mounted track permits an excellent sliding door installation when no floor track is desired. The smooth, self centering rollers glide in the perfectly-sized track. The maximum recommended weight of each door is 130 lbs. You can have multiple doors on the same track, but each roller assembly should only bear 65 lbs. each, and it is not recommended that more than 2 roller assemblies are used per door, resulting in a maximum door weight of 130 lbs. Having no floor track will always allow a certain amount of flexibility in any door. For more information see page 1 of this document.

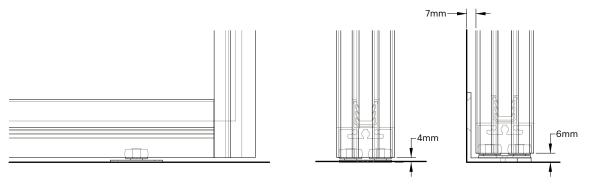
Top Guides

The top track may be fastened directly to an overhead substrate that is appropriate for the weight it will bear. The appropriate fasteners for the substrate should be provided by the installer, and can be drilled directly through the top of the track into the substrate. In general, it is recommended that screws be fastened through the track to the substrate at least every 2', but it is up to the installer to choose the most appropriate number of screws depending on the condition. If the track is being mounted to the wall using the wall mount profile, screw the wall mount converter to the wall using appropriate fasteners (also provided by the installer). The installer should then attach the top track to the wall mount profile with an appropriate fastener, generally a simple hex nut and bolt spaced every 2' apart.



Floor Guides

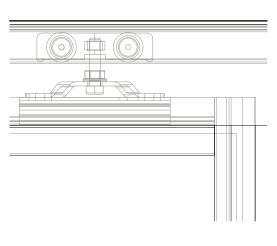
The floor guide is a set of rollers that can either be fastened directly to the floor or fastened to the wall. This roller stays flush inside the bottom frame profile, holding the door in place as well as acting as a stop for the door, as the side profiles of the door will not move beyond the bottom roller. There needs to be approximately 4mm of clearance between the bottom frame of the door and the floor when attaching the bottom roller directly to the floor, or 6mm of clearance when using the wall mounted floor guide. These bottom rollers also accommodate approximately 6mm of variance in the floor without coming out of the bottom profile. If the variance of the floor is greater than 6mm you can build up the height of the floor guides with additional ground plates, part 3-15-1112

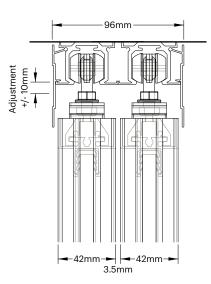


Bypassing Door Track Placement

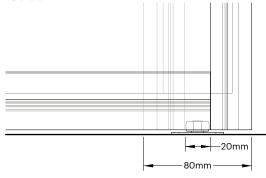
When installing bypassing doors place 2 top tracks next to one another as shown below. You would also place 2 bottom guides next to one another inside the bottom frame on the floor at the distance shown below. You can have no more than 2 bypassing doors with this system. For more bypassing doors it is required to have a floor track to hold the doors in place. Please see the 3form Slide 04 system for more bypassing doors.

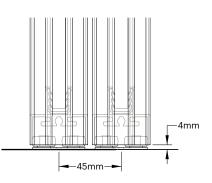
Ceiling Guide





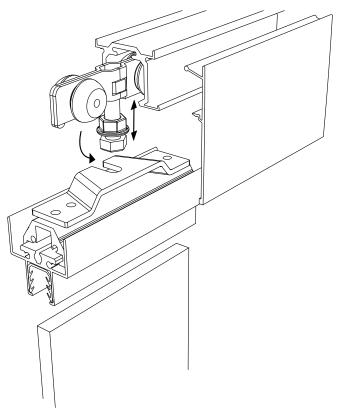
Floor Guide





Level Adjustment

The roller assembly attaches to the top profile of the frame. Once the door is installed, you can adjust the level of the door as shown below, using a standard wrench.

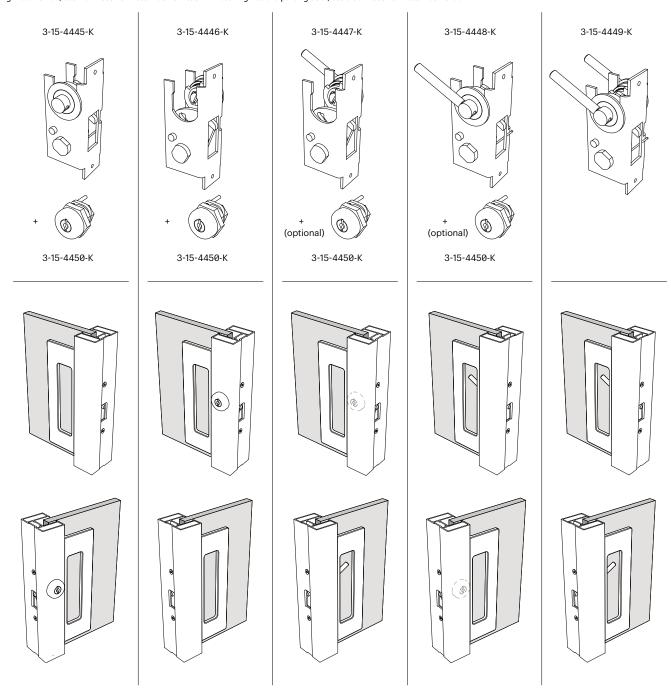


Valance

Once the door is properly adjusted, simply snap the valance directly onto the top track, whether it is ceiling mounted or wall mounted through use of the wall mounted adapter. If the track is mounted against a wall and will never be seen from the back side, no valance is needed on that side, but a valance should always be used on at least one side, and sometimes both if both sides are visible.

Door Lock and Latch Options

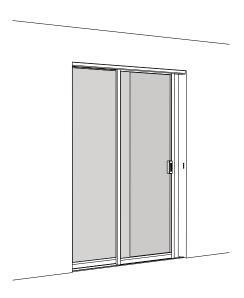
The lock and latch options allow you to latch two biparting doors together or latch a door into a wall with or without a key. Below are the different lock and latch options for the door. Use the chart to specify the parts needed for a given application. Note that the end of the door must butt into a surface or another door for the latch or lock to work. If latching into the wall, use Wall Receiver Plate Kit 3-15-1693-K. If latching into a biparting door, use Door Receiver Plate Kit 3-15-0024-K.



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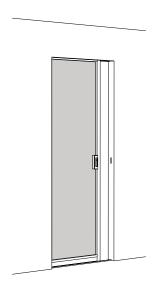
Features

Typical Installations with Lock or Latch

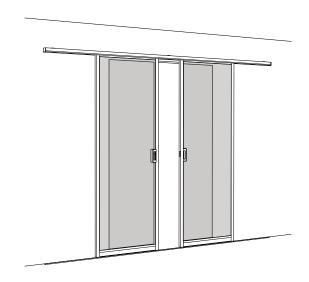


Two Bypassing Doors

Use a flush bolt to fix the first door in place as you latch the second door to the wall. Slide 05 is limited to only 2 bypassing doors.

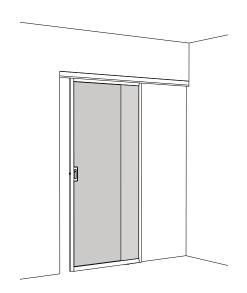


Pocket Door



Biparting Doors

The door with the receiver plate needs a flush bolt to keep door in place when latching the doors together.

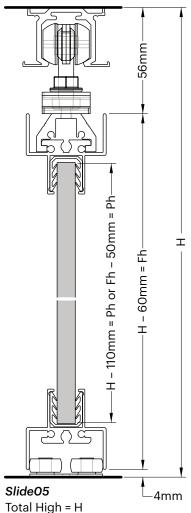


Wall Mounted Single Door

The wall must be built out for the latch to hook into.

Overall Dimensions Height

When ordering your door, please be aware of the following panel and frame deductions that need to be considered for your installation. All figures are in mm. For instance, your panel height must be 110mm less than the total opening height and 50mm less than the frame height. This accounts for the top track, the bracket and roller, and bottom guide.



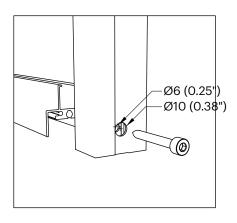
Total High = H
Frame High = Fh = H - 60mm
Panel High = Ph = H - 110mm = Fh - 50mm

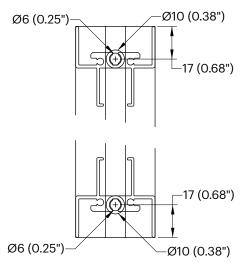
Example:

H = 2200mm

Fh = 2140mm

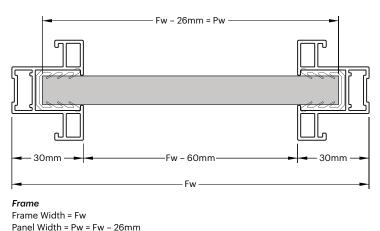
Ph = 2090mm

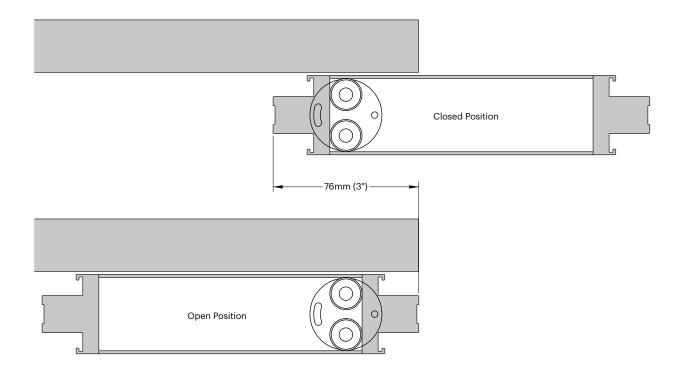




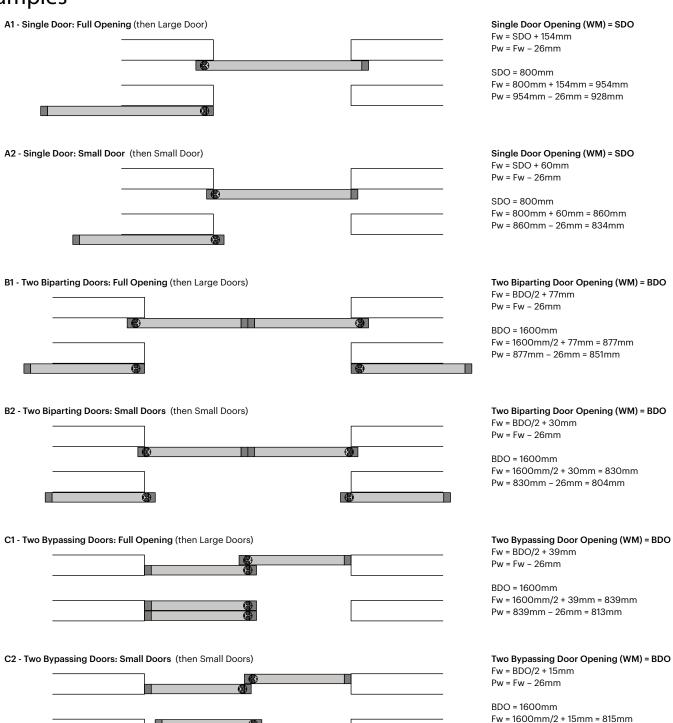
Overall Dimensions Width

When determining the width of your doors, please take into account the desired overlap of the door and the wall, or the 2 doors in a bypassing configuration. In a single door wall mounted opening, the frame width needs to be 60mm wider than the opening so that when the door is closed there will be no reveal between the door and the wall. Please pay careful attention to these deductions for all scenarios to determine proper door size. The roller placement and travel of the doors should also be considered. The doors will not travel beyond the roller, so if you have bypassing doors that you want to be flush when open then there will need to be more overlap in the doors, as shown below





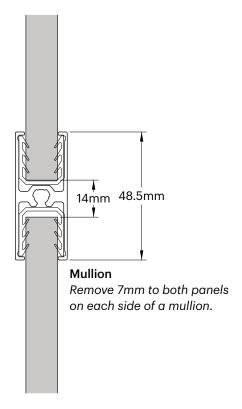
Overall Dimensions Examples



Pw = 815mm - 26mm = 789mm

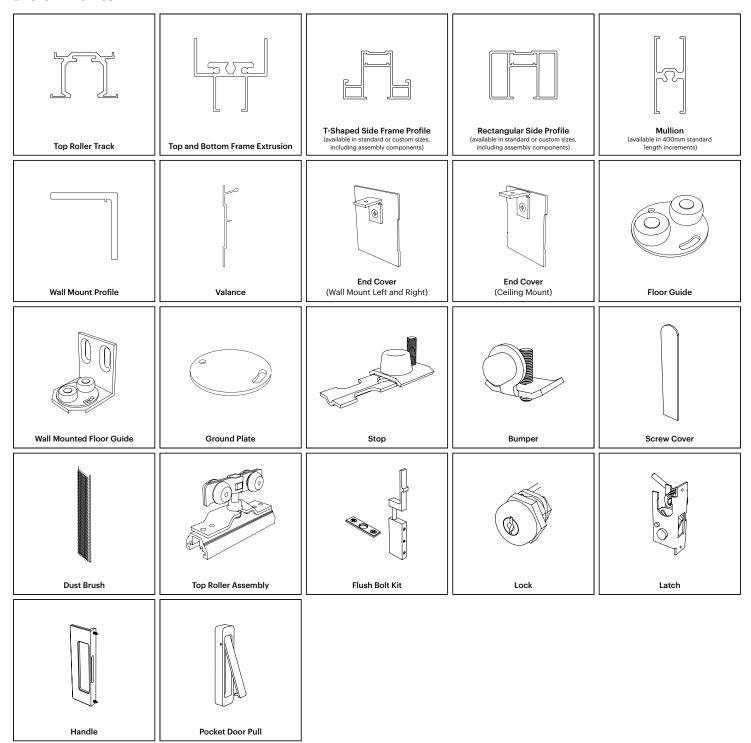
Overall Dimensions Mullions

Mullions are a good solution in an application where more than 1 panel type is desired, or where the door is larger than the available panel size, so more panels can be used. Mullions can only be used horizontally. Mullions must be cut to length on site. Also, the holes in the side frame used to attach the mullion must be drilled on-site; Please see page 10 of this document for drill hole sizes. Up to 3 mullions can be used in each door. Please use the below illustration for the panel deductions to accommodate the mullion.

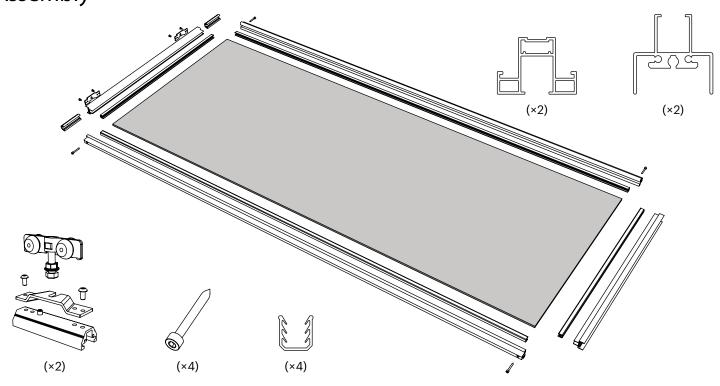


Installation

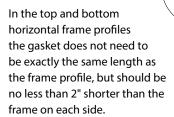
Door Parts

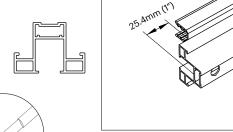


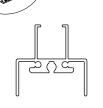
Installation Part 1 Assembly

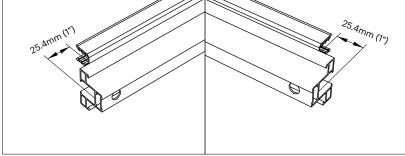


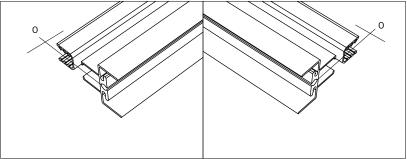
Install the glazing channel or gasket. Cut glazing channel or gasket (the rubber extrusion that holds the panel) to length in all frame profiles. When cutting the gasket to length for the vertical side frames, ensure that the gasket does not cover the pre-drilled holes.



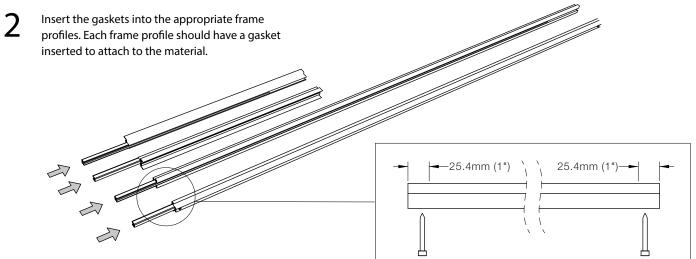




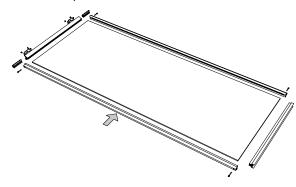




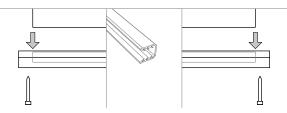
Assembly



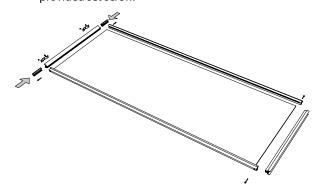
Push the profiles onto the material by pressing the rubber gasket (which should be inside the profile) onto the panel material.

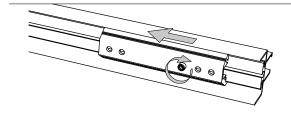


When putting the vertical side frames onto the panel, ensure that the panel does not overlap the holes that are drilled in the frame.



Slide the Top Frame attachment piece (without the top roller attached), as shown below, onto the top frame profile prior to putting the top profile onto the panel. Place these an even distance from each edge. Then tighten this attachment piece in place using the provided set screw.

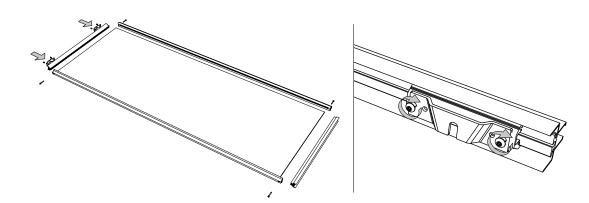




Installation Part 1 Assembly

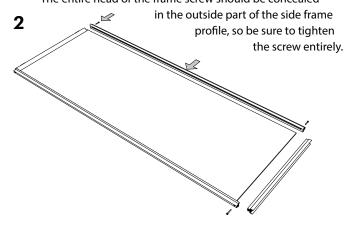
4a

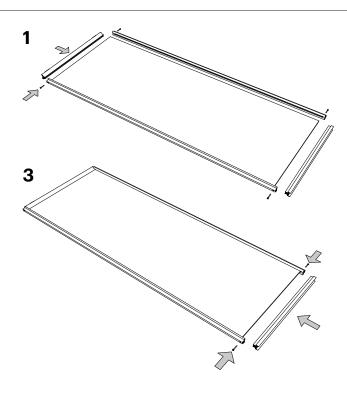
Attach the Top Roller Fixation (the bent piece of flat steel that holds the roller in place) to the Top Frame Attachment piece with the screws provided.



4b

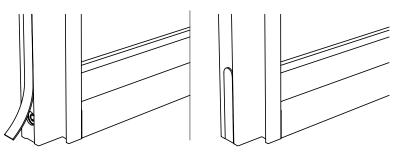
Once all of the frame profiles are attached to the panel with the gaskets, fasten the frame together with Frame Screws in all 4 corners. Holes for these screws will come pre-drilled. The frame screw should go through the vertical side frame profiles and into the small, partially open slots in the top and bottom horizontal frames. The screw slots in the top and bottom frame profiles are not pretapped, and get tapped by use of the Frame screw. The entire head of the frame screw should be concealed





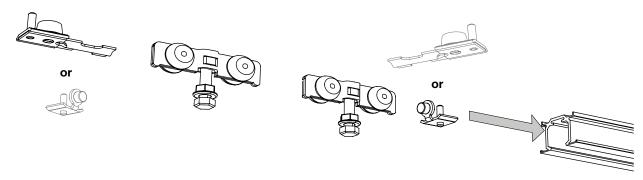
4b

After the door is fastened together cover the screws using either the self-adhesive plastic screw covers or the self-adhesive dust brush which also acts as a dampener when the side of the door meets another door or a wall.

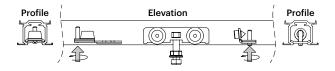


Install

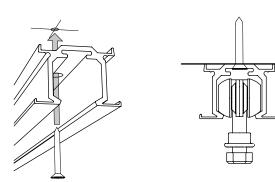
1a Install all hardware inside the top track that needs to be inside the track once it is attached to the top surface. This includes bumpers or stops, as well as the top rollers. Both rollers should be next to one another in the track, with the bumpers or stops on the outside.



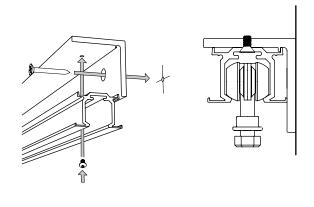
Once the door is completely in place, tighten down the Stop or Bumper using the set screws.



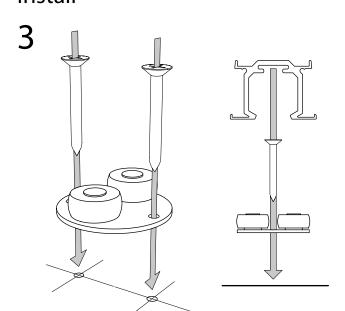
Attach the top track to the top surface. The top track may be fastened directly to an overhead substrate that is appropriate for the weight it will bear, which should be no more than 130 lbs. per door. The appropriate fasteners should be provided by the installer and should be drilled and countersunk directly through the top of the track into the substrate. In general, it is recommended that screws be fastened through the track at least every 2', but this should be determined by the installer based on the condition.



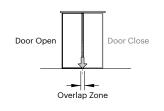
If the track is being mounted to the wall using the wall mount converter kit (3-15-0200-K), Drill and screw the wall mount converter to the wall using appropriate fasteners (also provided by the installer) to studs and reinforcement. Mount Wall Adapter to wall prior to attaching top track. Mount the pre-drilled and countersunk top track with provided fasteners (M4Ć.7, 3-15-0865) to the wall adapter.



Installation Part 2 Install



Fasten the bottom guides to the appropriate spot on the floor. Be sure that the center of the guide is directly centered below the top track. When determining positioning of the guides on the floor, also consider the overall travel of the door. The bottom guide will always stay inside the bottom frame of the panel, so travel is restricted to the width of the door. Additional anchoring, such as concrete anchors, must be selected by the installer. You can also have the wall mounted floor guide if the condition is appropriate. If this is the case, anchor the guide to the wall instead of the floor in the appropriate location using appropriate anchors.

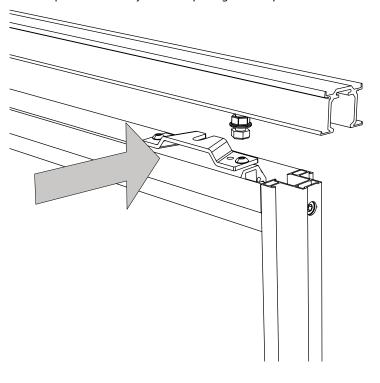


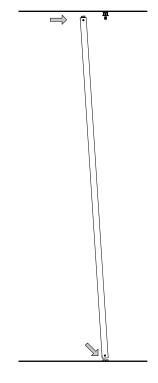




With Ground Plate Wall Mounted Floor Guide

Install the assembled panel door to the top track by placing the bottom of the door over the bottom guide first, then sliding the bolt in the Top Roller assembly into the opening in the top roller bracket.



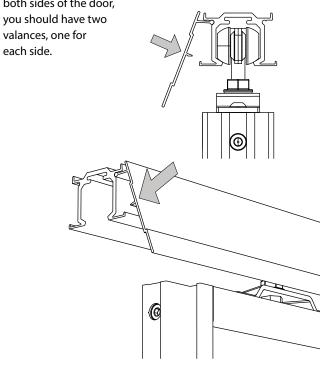


Installation Part 2 Install

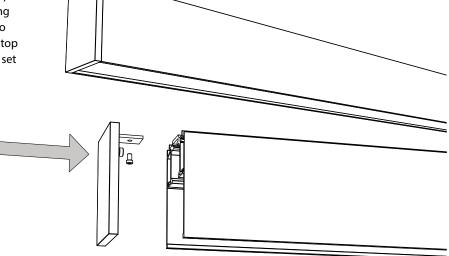
Level the door by adjusting the top roller hanging bolt with a wrench. When adjusting for level, consider the plumb of the wall that the door will butt into as well

to ensure that when the door is closed, it will be flush with the wall. Once you have achieved your desired level, tighten the top bolt down onto the bracket to secure the door in place.

Snap the valance securely onto the top track where it is exposed, as shown here. If the top track is exposed on both sides of the door, you should have two

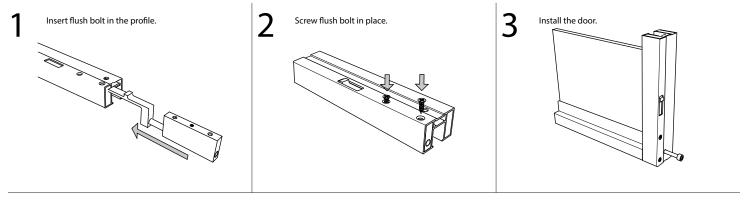


If a side of your top track is exposed, install the end caps by inserting the connecting bracket of the end cap into the uppermost slot in the top track, then tightening the set screw to hold it in place.



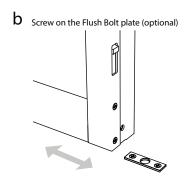
Flush Bolt

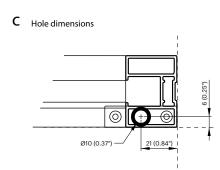
The Flush Bolt option allows you to secure the door to a strike plate in the floor. This option can only be used with the Rectangular Profile and the fabrication for the Flush Bolt should be done by 3form prior to shipping the door. Please follow the instructions below to install the flush bolt.



Use the installed door to find and mark the desired location for the Strike Plate. Then drill a hole in the floor using a 5/16" bit for the main hole. Appropriate screws for the substrate (#10 screws recommended) must be selected by the installer.



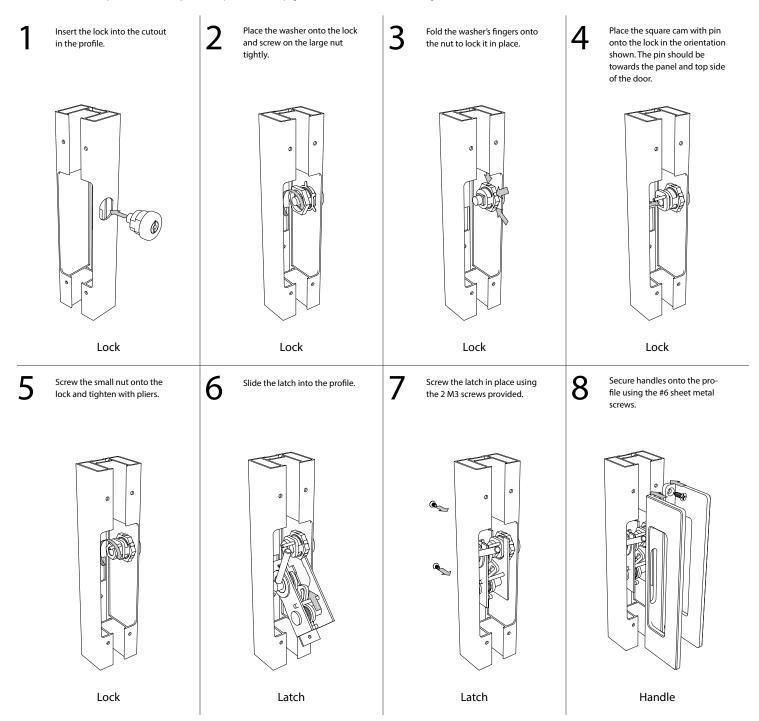




Lock, Latch and Handle

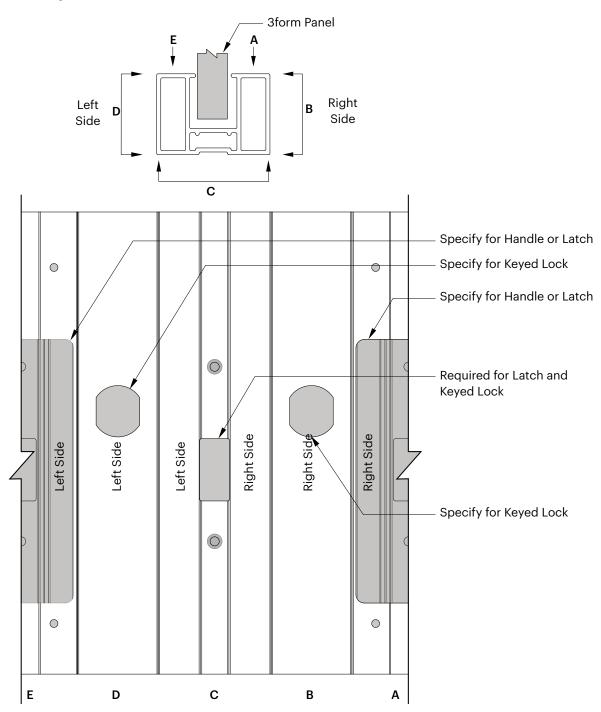
Follow the below instructions to install the lock and/or latch assemblies and the door handles.

This installation is usually done at the factory before shipment; Refer to page 24 for an extrusion fabrication diagram.



Lock/Latch Rectangular Extrusion Unrolled Diagram

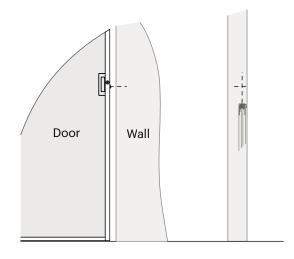
The unrolled diagram below shows how each lock / latch accessory will be machined into the extrusion by 3form. This is for clarification only and specification only and is not intended as a fabrication drawing.



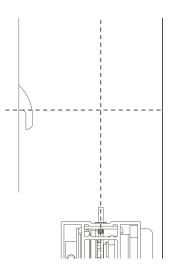
Installation Part 3 Wall Receiver Plate

Follow instructions below for doors latching into the wall.

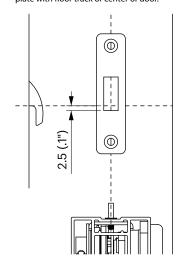
The door edge should be flush against wall when closed. Make sure there is no gap > 1/16" between the wall and door where the hook is



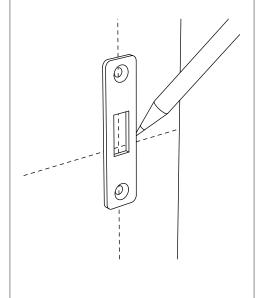
Slide door against wall with hook out. Measure distance from floor or track to horizontal line of hook.



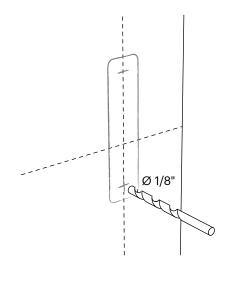
Locate bottom of receiver plate slot 0.1" below the horizontal line of the hook. Center plate with floor track or center of door.



Mark the location of screw holes on wall and outline shape of the plate.

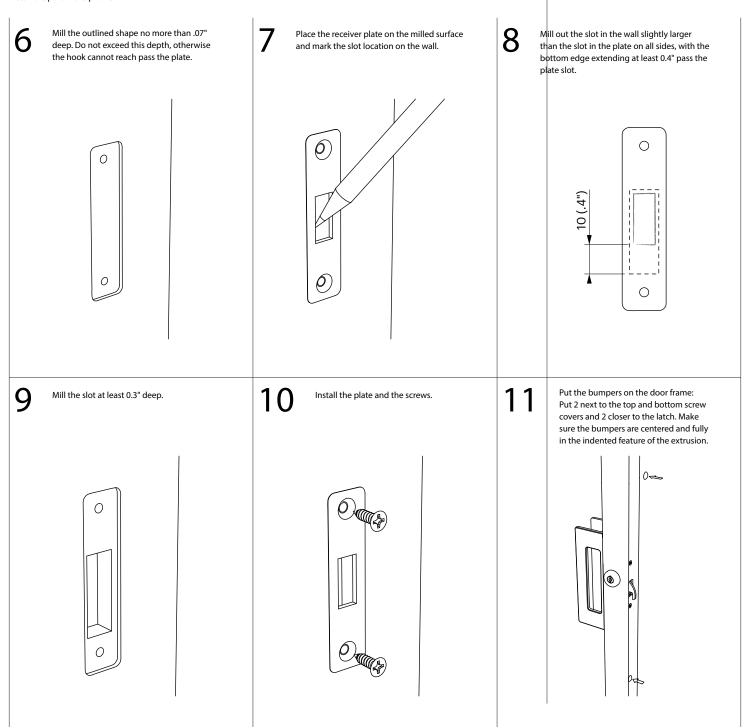


Drill the holes to 1/8".



Installation Part 3 Wall Receiver Plate

Install the part in the profile



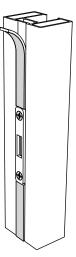
Door Receiver Plate

Follow instructions below for biparting doors latching together if not already installed at the factory. After doors are placed into tracks, level wheels on both doors so that the doors are at the same height.

Screw the plate onto the door frame using #6 sheet metal screws provided.



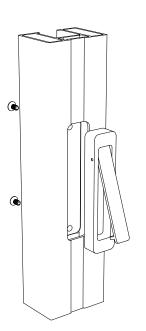
Place dust brush along the door frame, above and below the plate. Do not put dust brush on other door.



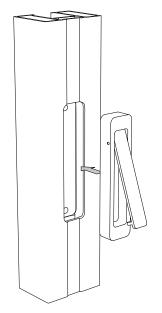
Pocket Door Pull

Install pull before door is assembled. Make sure pull orientation is correct before assembling doors.

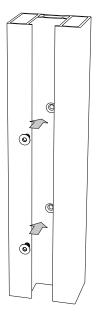
1



Insert handle into the profile cutout.



Attach screws from the other side of the profile.



3form Solution Document

Slide 05[™]

ADA Compliance

Per the Department of Justice ADA Regulations, the following guidelines should be considered in the design of your custom Slide solution when used to treat doorway openings:

4.5.2 Changes in Level

Changes in level up to $\frac{1}{4}$ " (6 mm) may be vertical and without edge treatment (see Fig. 7(c)). Changes in level between $\frac{1}{4}$ " and $\frac{1}{2}$ " (6 mm and 13 mm) shall be beveled with a slope no greater than 1:2 (see Fig. 7(d)). Changes in level greater than $\frac{1}{2}$ " (13 mm) shall be accomplished by means of a ramp that complies with 4.7 or 4.8

4.13.5 Clear Width

Doorways shall have a minimum clear opening of 32" (815 mm) with the door open 90°, measured between the face of the door and the opposite stop.

4.13.8* Thresholds at Doorways

Thresholds at doorways shall not exceed 3/4 in (19 mm) in height for exterior sliding doors or $\frac{1}{2}$ " (13 mm) for other types of doors. Raised thresholds and floor level changes at accessible doorways shall be beveled with a slope no greater than 1:2 (see 4.5.2).

4.13.9* Door Hardware

Handles, pulls, latches, locks, and other operating devices on accessible doors shall have a shape that is easy to grasp with one hand and does not require tight grasping, tight pinching, or twisting of the wrist to operate.

*Lever-operated mechanisms, push-type mechanisms, and U-shaped handles are acceptable designs. When sliding doors are fully open, operating hardware shall be exposed and usable from both sides. Hardware required for accessible door passage shall be mounted no higher than 48" (1220 mm) above finished floor.

Please refer to the following website for more information and diagrams: http://www.usdoj.gov/crt/ada/reg3a.html#Anchor-Appendix-52467