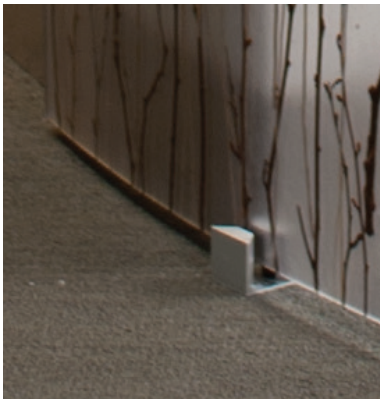
3form® **SLIDE01 Curve** Solutions Document / Installation Manual

3form **Slide01 Curve** is designed to accommodate a variety of wall radii without custom fabrication (anywhere from a 6'-0" to 40'-0" radius). Working with the formability of 3form Varia Ecoresin and Chroma allows you to create curved wall mount doors that impress while keeping the installation and fabrication process simple.



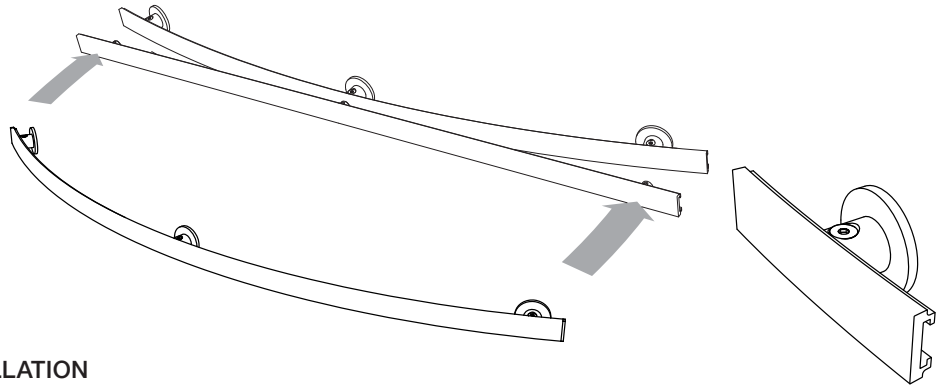
For more information, please visit **3-form.com** or call **800.726.0126**

AUGUST 2013 | MAN - 029- SLIDE01 CURVE | REV 003

Features

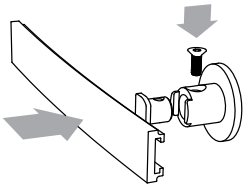
1. EASY MOUNT TRACK

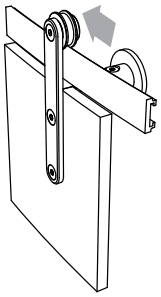
Slide01 Curve rail system-based wall mounted sliding doors rely on adapters from the on site curved rail to wood blocking or metal framing. Wood or other blocking must be installed for the adapters, as door forces can be significant at stopping locations along the track. This track is designed to be curved on site and will not ship pre-curved (3form panel must be formed at 3form's fabrication facility), it is designed to handle radii from 6'-0" to 40'-0". Large Radii such as 40'-0" fall within the tolerance for forming 3form panels due to the nature of the material and forming process. Additionally, the 2 part assembly ensures that the fasteners are always hidden.



2. EASE OF INSTALLATION

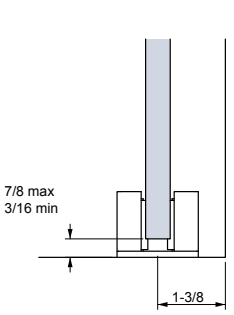
Installation is completed in three simple steps. First, mount the wall adapters to the wall, Second, bend the track to the wall adapters and fasten. Third, attach roller assemblies to the panel. Last, hang the door on the track. For more complete installation instructions refer to the installation manual.

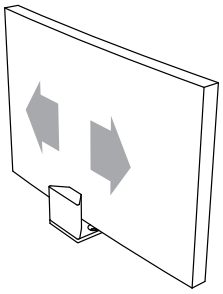


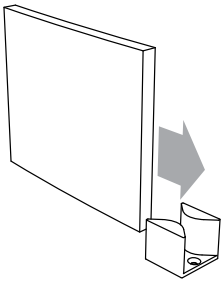


2. EASY MOUNT FLOOR GUIDE

The U-Guide with rollers and the U-Guide receiver operate to keep the doors in place at the bottom as they slide along the top track. The door should always be engaged with the U-Guide with rollers, and the U-guide receiver accepts the door at the opposite side of an opening. Make sure that the panel dimensions will allow for a 3/16" minimum clearance between the panel and the floor and a maximum clearance of 7/8". This will ensure the proper engagement between the panel and the guide while allowing for some variance in the level of the floor.



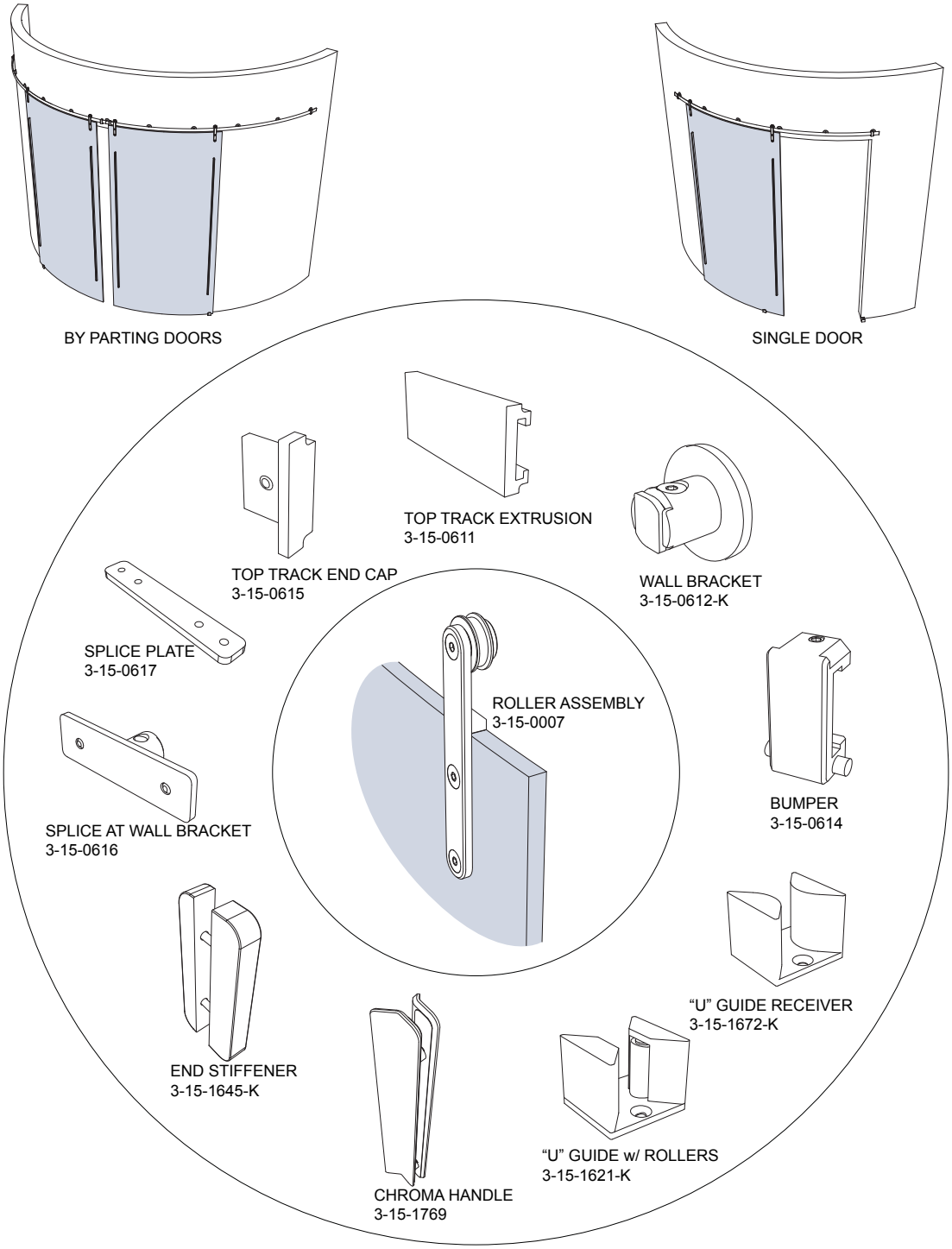




Solution Overview

4. CURVED PANEL

The system is designed to work for 1/2” gauge material, such as ecoresin or chroma, this gauge is chosen to minimize deflection and work best in a hanging panel conditions. The panel must be heatformed to the appropriate radius, when indicating radius to 3form fabrication indicate outside of finish wall as radius; 3form will adjust panel offset from wall.

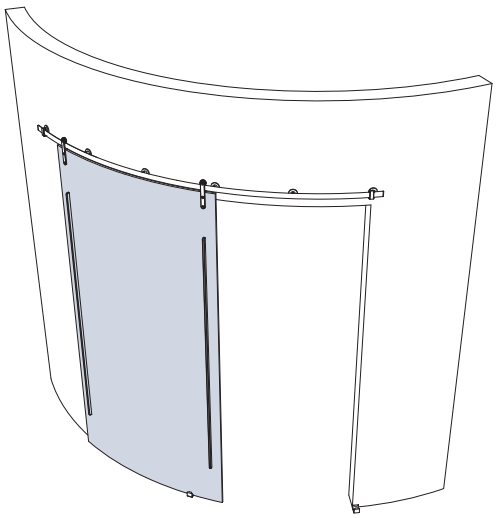


Solutions

1. SINGLE PANEL

READY TO GO SOLUTION 100.27.01

Requires (1) Top Track, (6) Wall Brackets, (1) floor guide with rollers, (1) floor mounted receiver, (2) End Caps, (2) Stop/ Bumpers, (2) Handle/Stiffeners and (1) ½" gauge formed panel.

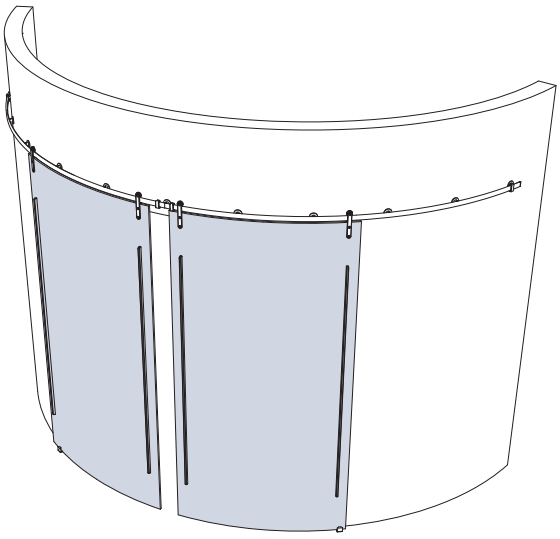


SINGLE DOOR

2. DOUBLE PANEL (BARN DOOR)

READY TO GO SOLUTION 100.27.01.BD

Requires (2) Top Tracks, (1) Splice at adapter, (11) Wall Brackets, (2) floor guide with rollers, (2) End Caps, (4) Stop/ Bumpers, (4) Handle/Stiffeners and (2) ½" gauge formed panels.

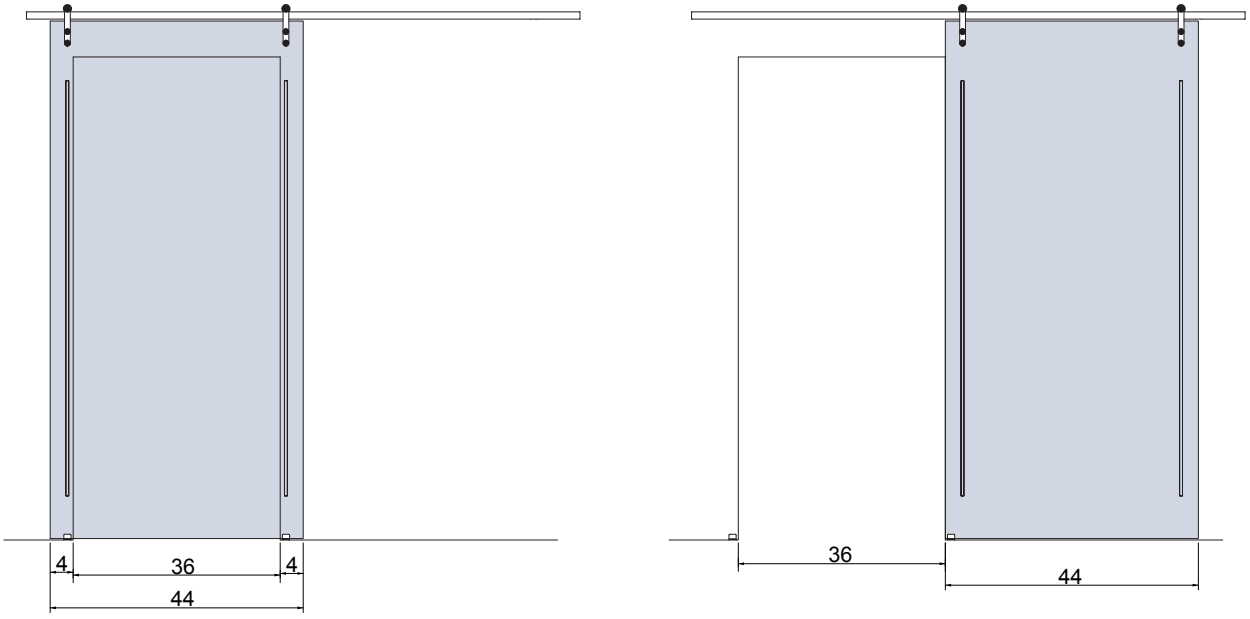


BY PARTING DOORS

Additional Considerations

TRAVEL

The dimensions given in this documentation regarding the placement of the double stop, length of track used, panel size, and position of the track stops in the track result in a 40” travel. For example, in the illustration below, when the panel is closed there is a 4” overlap on a 36” wide opening. In the open position the panel is flush with the opening. The difference, or travel, is 40”.



For most installation purposes the travel is easily adjusted on-site simply by sliding the track stops to the appropriate position for both the open and the closed condition.

Material Considerations

Gauge

The roller assembly, floor guides, and handles are designed to work only with 1/2” gauge material such as Varia Ecoresin or Chroma. This gauge is required to ensure superior panel performance (i.e. minimizing deflection) in hanging panel condition.

Panel Forming

Due to the nature of forming resins the formed panel may not match the track radius, unless out of 3form allowed tolerance door will perform as designed. 3form tolerances for radius heatforming are +/- 1/2”. In addition, there will be shrinkage in the panel when heat formed, so a 48” x 96” panel once heat formed will have a maximum dimension of 46” x 94”. Please factor this smaller panel size into your maximum door dimension.

Clearance

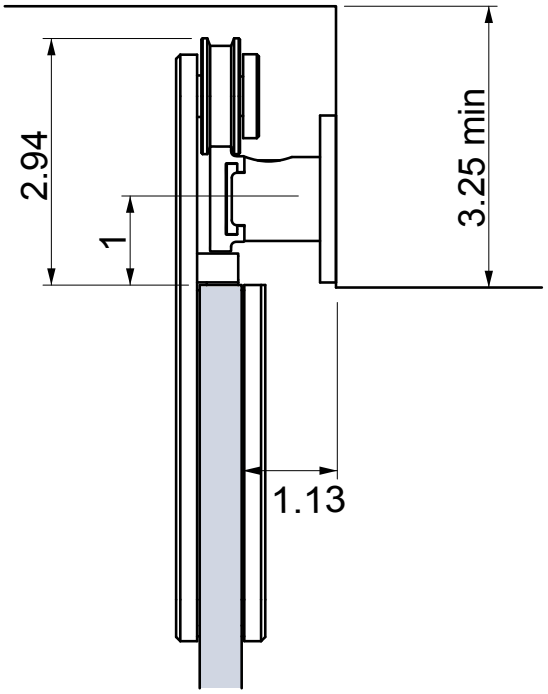
TOP CONDITION

When installing the wall mounted track, you will need 3” (~76mm) clearance between the lower edge of the track and the ceiling to allow installation of the track and the panel.

When installed, there is approximately 2.94” (~74.6mm) distance between the top of the roller and the top of the panel suspended below.

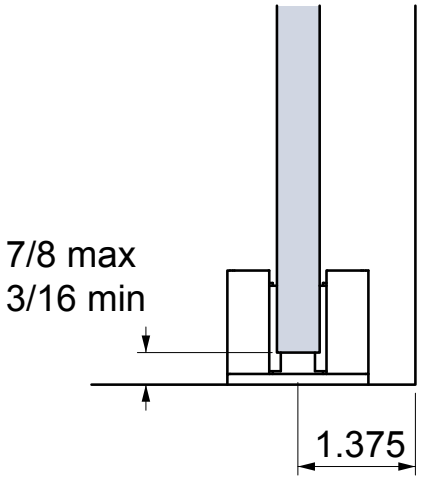
Track

The standard aluminum track is 8’ long and can easily be cut to length in the field. Additionally, each track can be joined with an adjacent track with a splice plate or splice at wall bracket. It is recommended to use the splice at wall bracket where possible.



Bottom Condition

When using the U Guide, ensure that the panel dimension will allow for a 3/16” minimum clearance between the panel and the floor, and a maximum clearance of 7/8”. This will ensure the proper engagement between the panel and the guide. In most situations, the height positioning of the track can easily be determined on-site to allow for proper clearance at the bottom.



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. (See http://www.usdoj.gov/crt/ada/reg3a.
html#Anchor-15677 for more information and diagrams).

> 4.13.5 Clear Width. Doorways shall have a minimum clear opening of 32 in (815 mm) with the door
> open 90 degrees, measured between the face of the door and the opposite stop.
>
> 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 in (1220 mm)
> above finished floor.

Kits A and B may be configured to meet ADA compliance. If an ADA compliant solution is required, please
consult your 3form sales rep to customize your Slide WM solution to the opening you are treating to ensure
the requirements above are met.

General Specifications: Slide01 Curve

Aluminum Extrusions:

Including parts; 3-15-0611

Specifications for Aluminum Extrusions for the Top Support product line are as follows;

Material:	6063 T6
Finish:	Clear (Satin) Anodize, Architectural Type II, Class I
	Powdercoating available
Maximum Length:	Lengths are available in 96.5” lengths.
Recommended Use	Interior Only
MSDS information	Recycled content 56% Post Industrial, 14% Post consumer for a total of 70% recycled.

Milled Aluminum:

Including parts of; 3-15-10612-K, 3-15-0614, 3-15-1672-K, 3-15-1621-K, 3-15-1769, 3-15-1645-K, 3-15-0616, 3-15-0617, 3-15-0007, 3-15-0615

Specifications for Milled Aluminum for the Top Support product line are as follows;

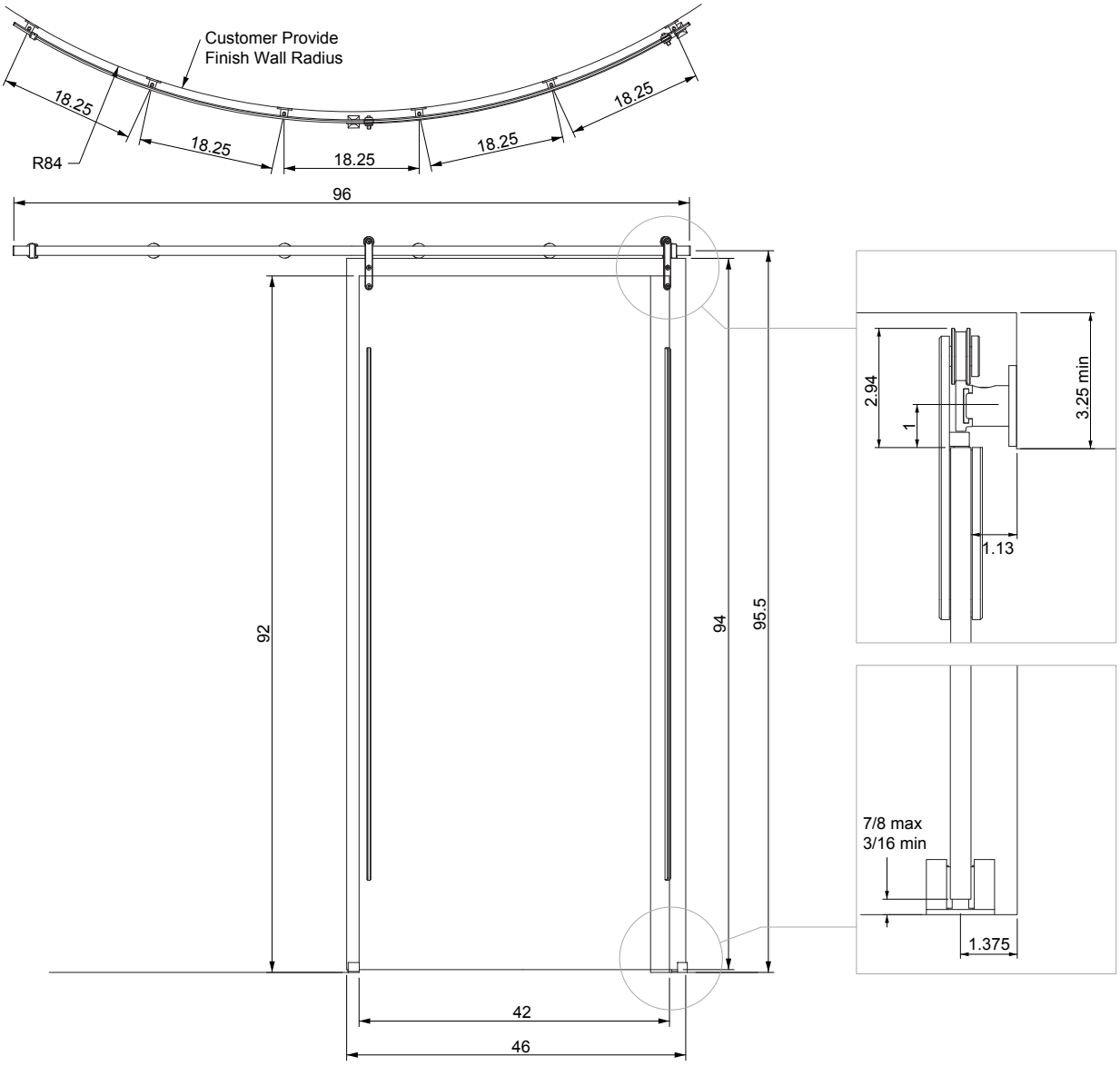
Material:	6061
Finish:	Clear (Satin) Anodize, Architectural Type II, Class I
	Powdercoating available, may not be feasible for all parts
Recommended Use	Interior Only
MSDS information	Recycled content typically between 25% - 35% Post Industrial, 5% Post consumer

STEP 1

Position Top Track

The most important part of getting Slide01 Curve properly installed is positioning the top track correctly. The curved wall should have wood blocking or adequate structure to support the weight of the door at the wall bracket location. NOTE: It is not recommended to use toggle bolts in drywall to mount the wall brackets. The height to the centerline of the top track should be measured from the highest point on the floor and mounted level to make sure the bottom of the door does not rub or drag when opening or closing. This height dimension should be the panel height plus 1-1/2". The dimensions in the illustration below reflect the maximum door size of a 48" x 96" heat-formed panel.

STEP 1, Locate Wall Adapter and Track Height

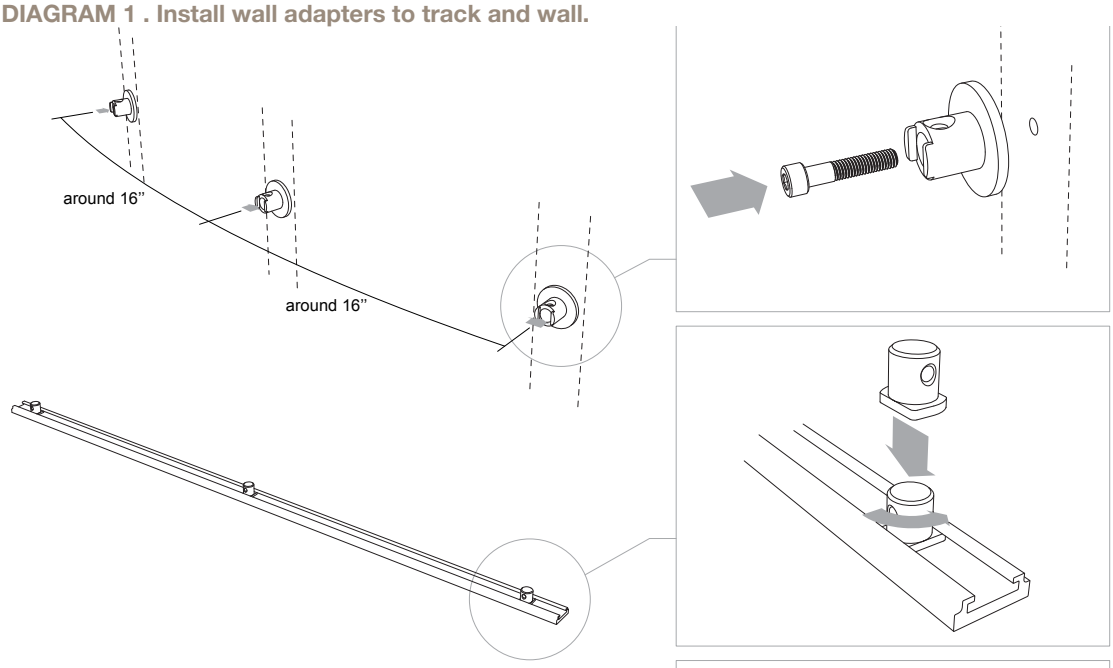


STEP 2-A

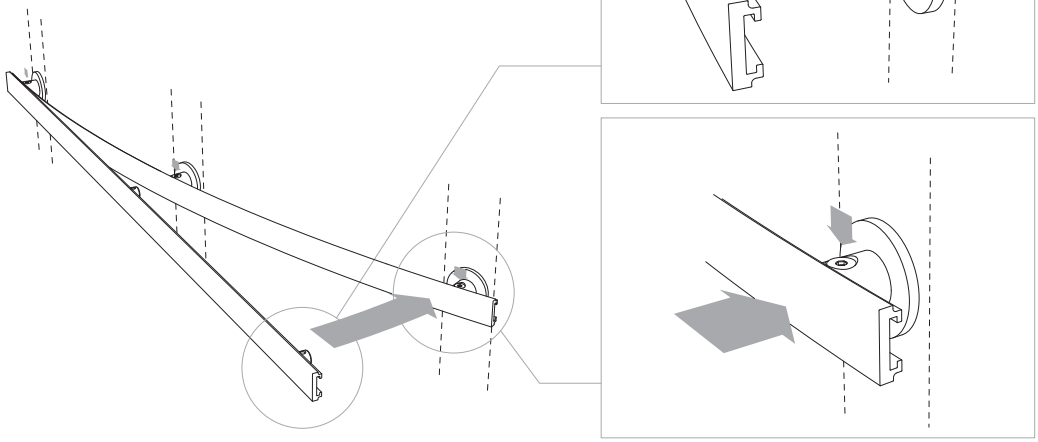
Install wall adapters and Track Single Panel door

Single Door – Mark and mount (6) wall brackets equally spaced at approximately 16” – 18” apart at the correct height and position above the opening using M8 x 40mm screws and appropriate anchors. The starting end of the track should be flush with or slightly past the edge of the door opening. Insert the first track adapter into back of the track as shown and fasten to the first wall bracket with M6 x 14mm screw. Insert the second track adapter; flex the track to align with the second wall adapter and install the second M6 x 14mm screw. Repeat for the remaining brackets.

STEP 2-A, DIAGRAM 1 . Install wall adapters to track and wall.



HINT: To easily mark the locations for mounting the wall brackets. First attach one wall bracket to the wall at the correct height and location. Then attach the remaining wall brackets to the top track at equal spacing. Fasten the track to the first wall bracket. Then flex the track into place, make sure its level, and mark the locations of the wall brackets on the wall.



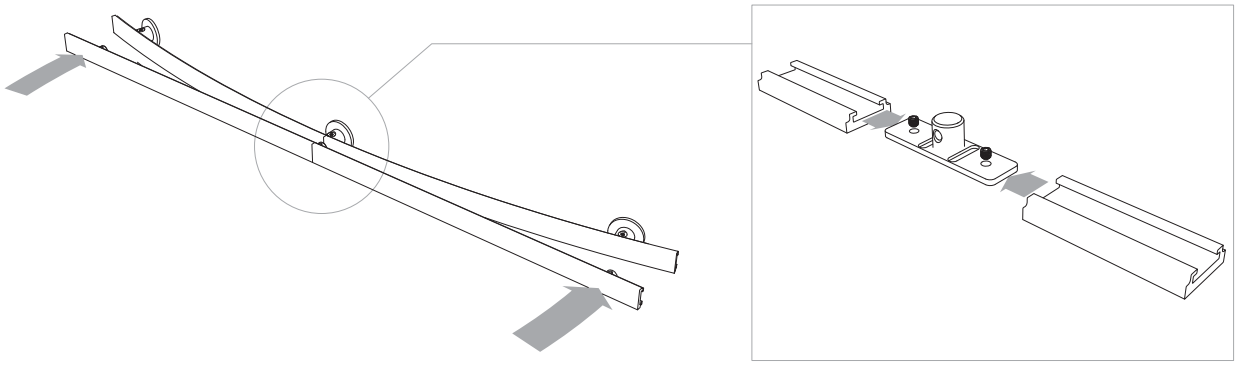
STEP 2-B

Install Track Splice Plate for Double Panel Barn Doors

Double Doors (bi-parting) - Mark and mount (11) wall brackets equally spaced at approximately 17” – 19” apart at the correct height and position above the opening using M8 x 40mm screws and appropriate anchors. The center bracket should be mounted directly above the center of the opening. Attach two tracks together with the splice adapter. Fasten to the center bracket with M6 x 14mm screw. Working both ways from center; insert the track adapters, flex the track to align with the wall brackets and fasten with M6 x 14mm screws.

STEP 2-B, Install Track Splice Adapter for Byparting Door.

Splice top tracks for double panel



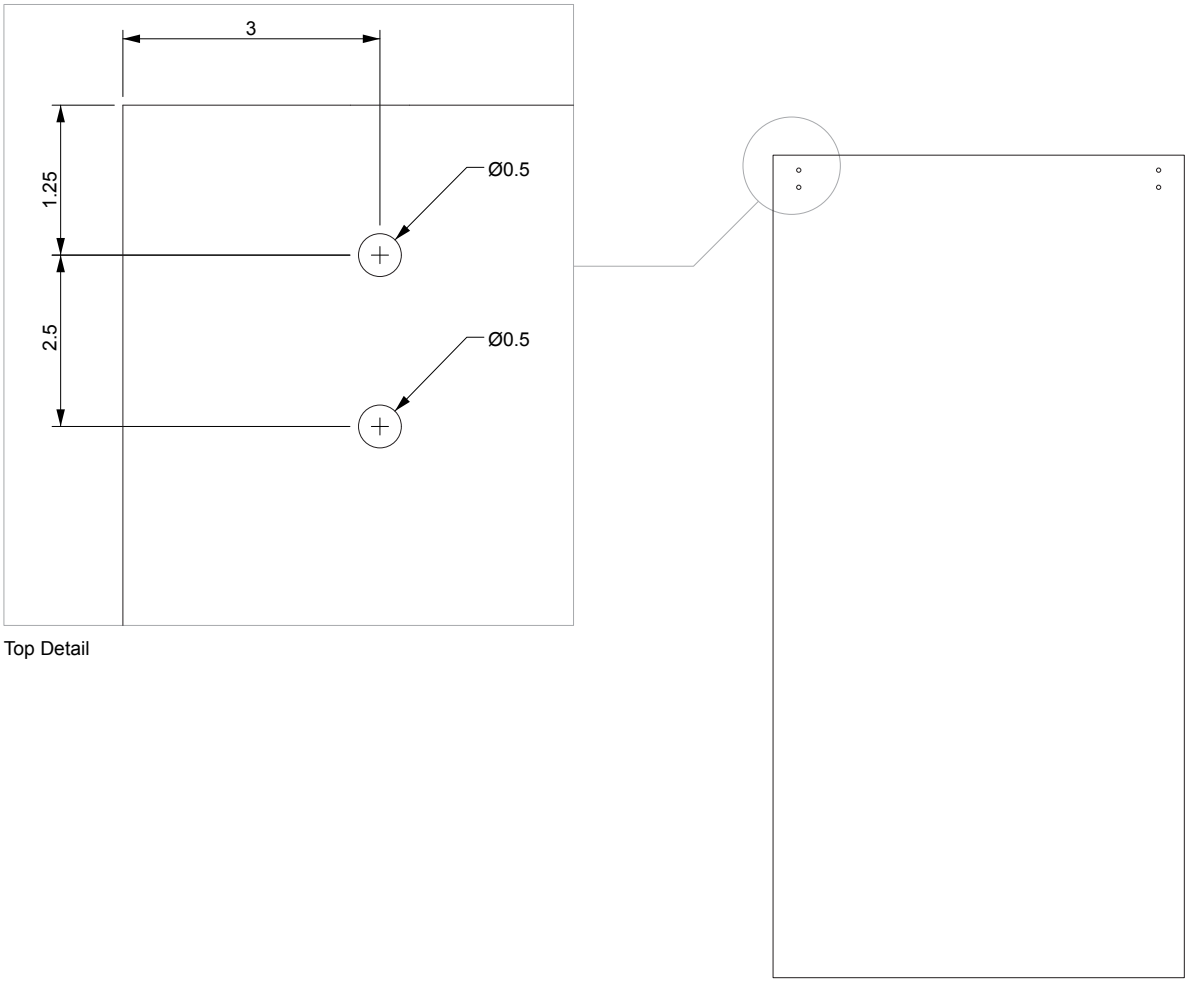
STEP 3-A

Prepare the Panel (Roller Assembly)

The curved door panel must be pre-fabricated to the correct curve at 3forms manufacturing facility. The holes for the top rollers and handles should also be included with this fabrication. However, the panels may easily be drilled in the field according to the dimensions below.

STEP 3-A, DIAGRAM 1 . Drill panel following guides.

3. Drill panel



Top Detail

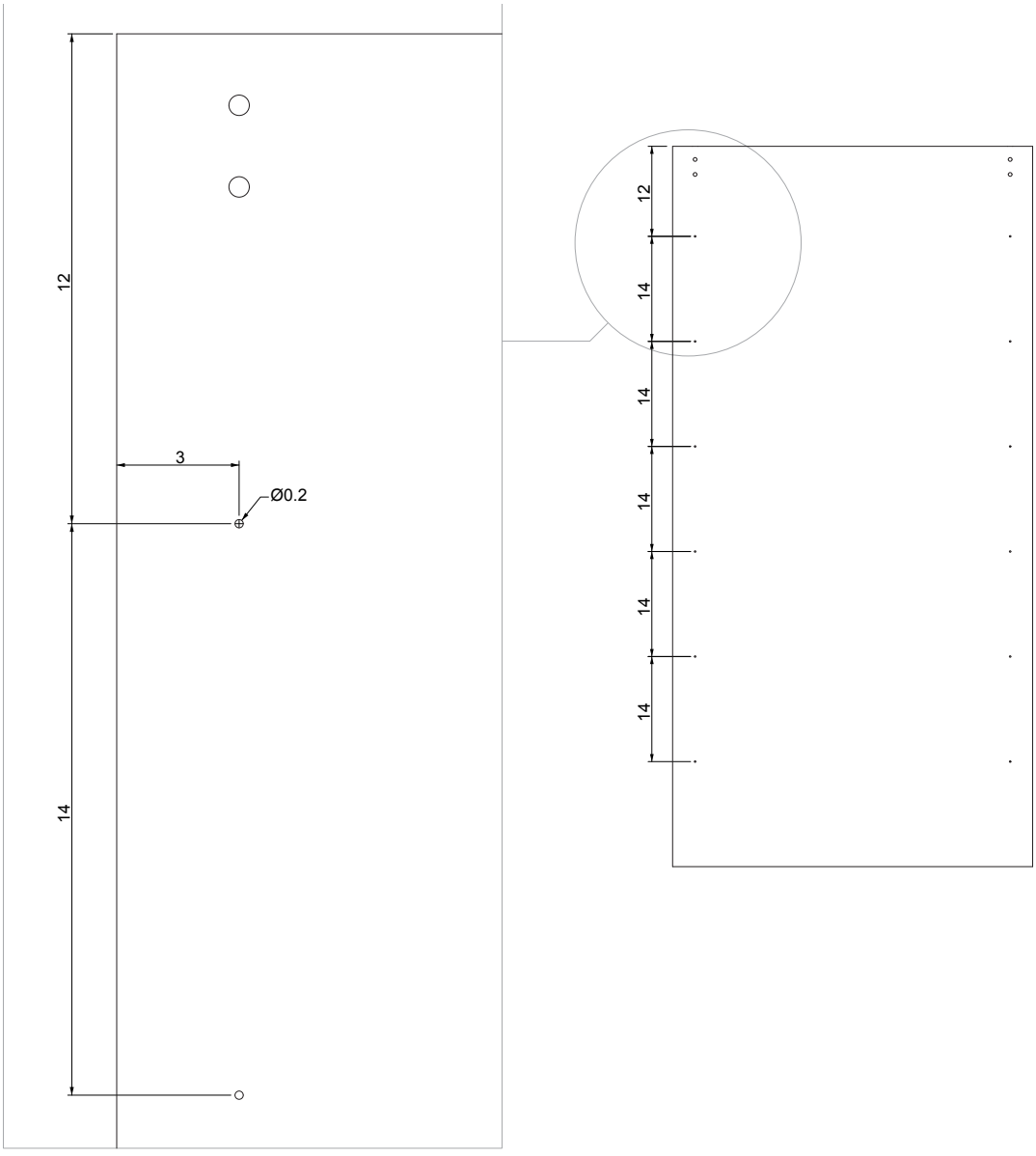
STEP 3-B

Prepare the Panel (Stiffener/Handle)

Each Slide WM kit ships with 2 stiffener handles designed to both add rigidity to the material as well as provide a simple handle for operation.

3form recommends placing the stiffener handles so that the top edge of the stiffener is approximately 7 1/4” from the bottom of the roller assembly and 3” in from the edge. This directly centers the handle stiffener in the middle of an 8’ panel.

This recommendation requires (6) 1/8” diameter holes each 14” apart and directly inline with one another, per the images below.

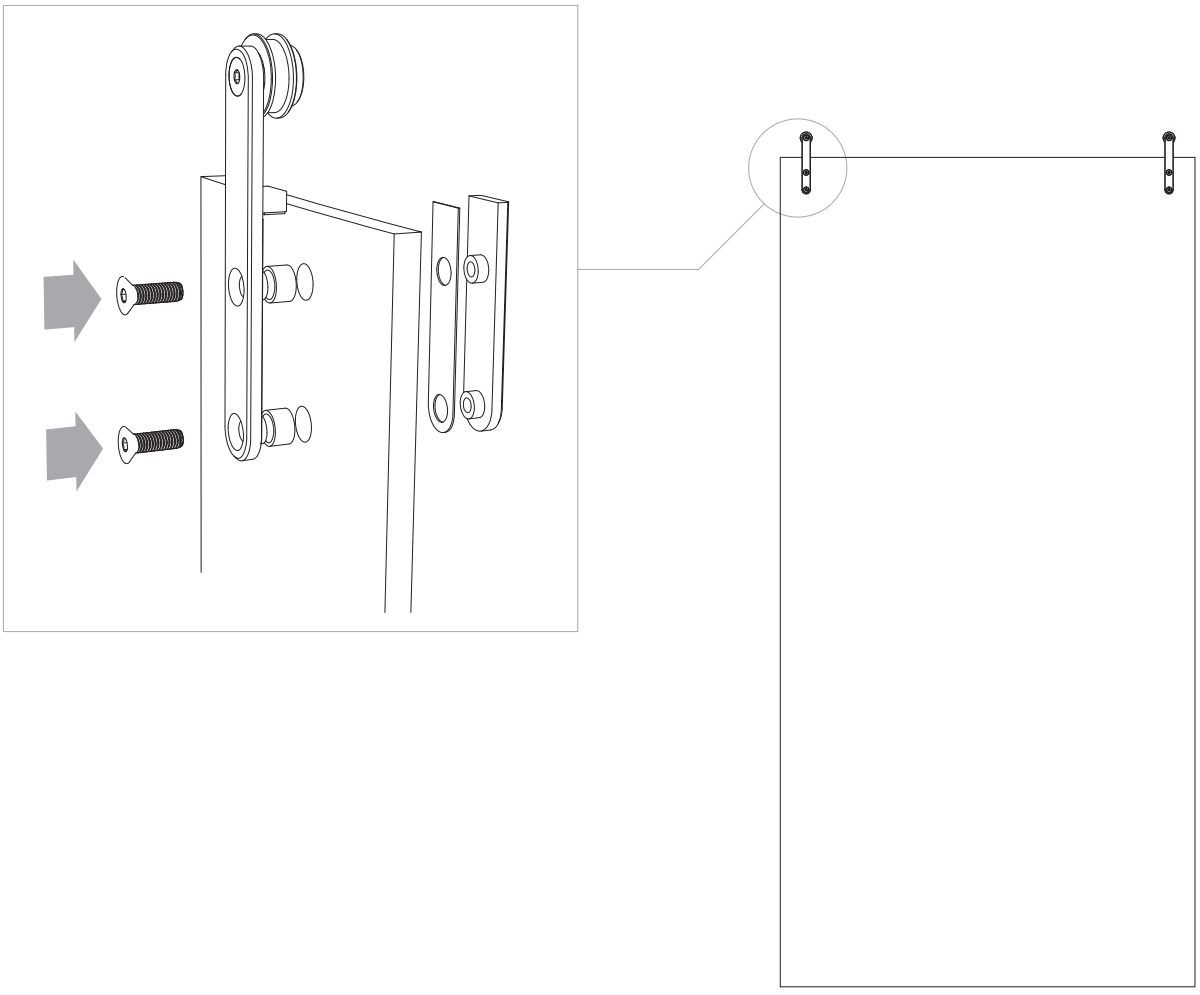


STEP 4-A

Install Top Rollers On the Panel

With the panel prepared, the hardware may now be attached to the panel, according to the illustration below.

STEP 4-A, DIAGRAM 1 . Install hardware on panel.

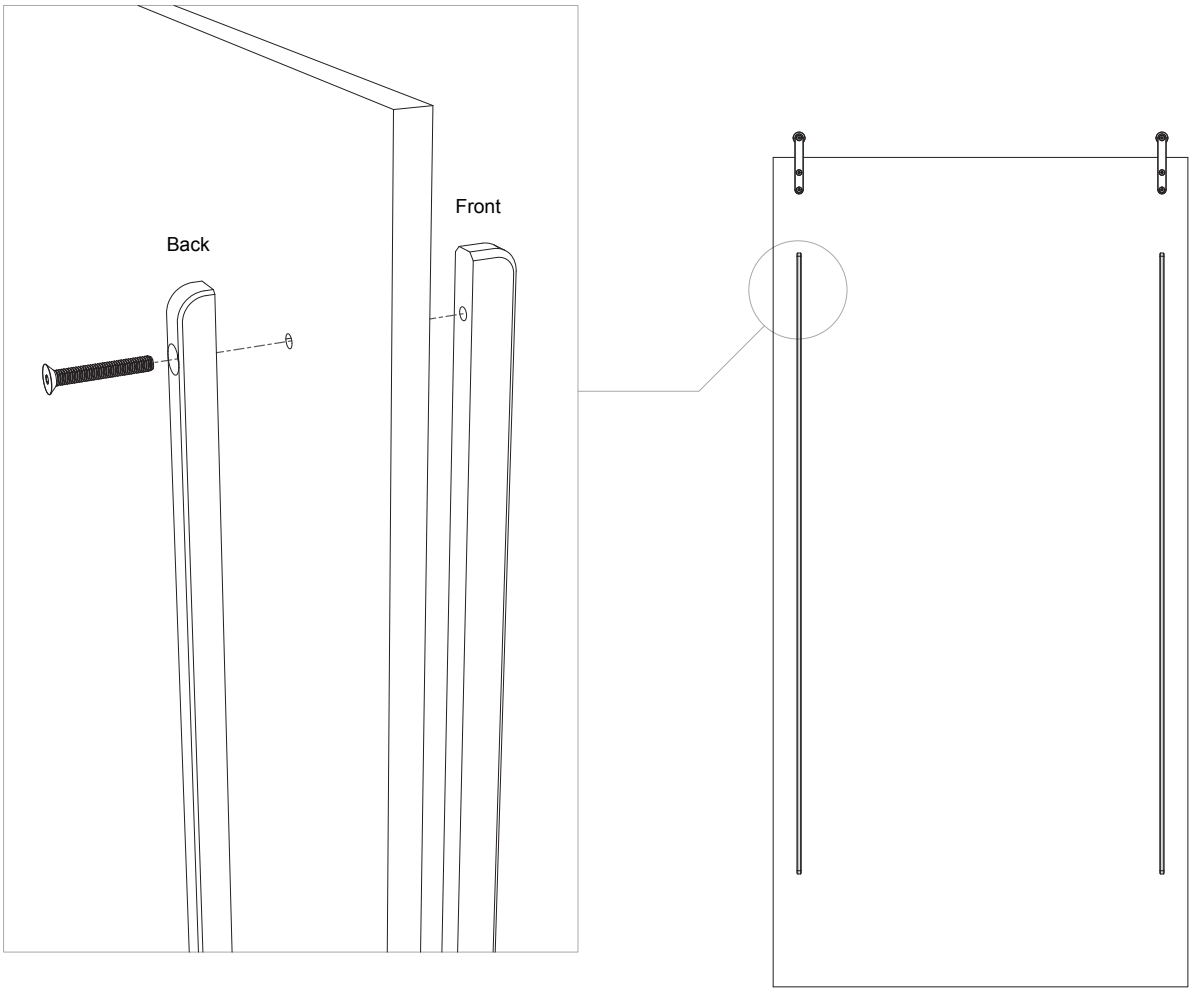


STEP 4-B

Install Stiffeners/Handles On Panel

When fastening the 2 piece stiffener/handle together, note that the shallow piece (1/2” deep with countersunk holes) goes to the back of the panel, while the deeper piece (3/4”) should be placed on the front of the panel.

STEP 4-B, DIAGRAM 1 . Install Stiffeners/Handles on panel.



STEP 5

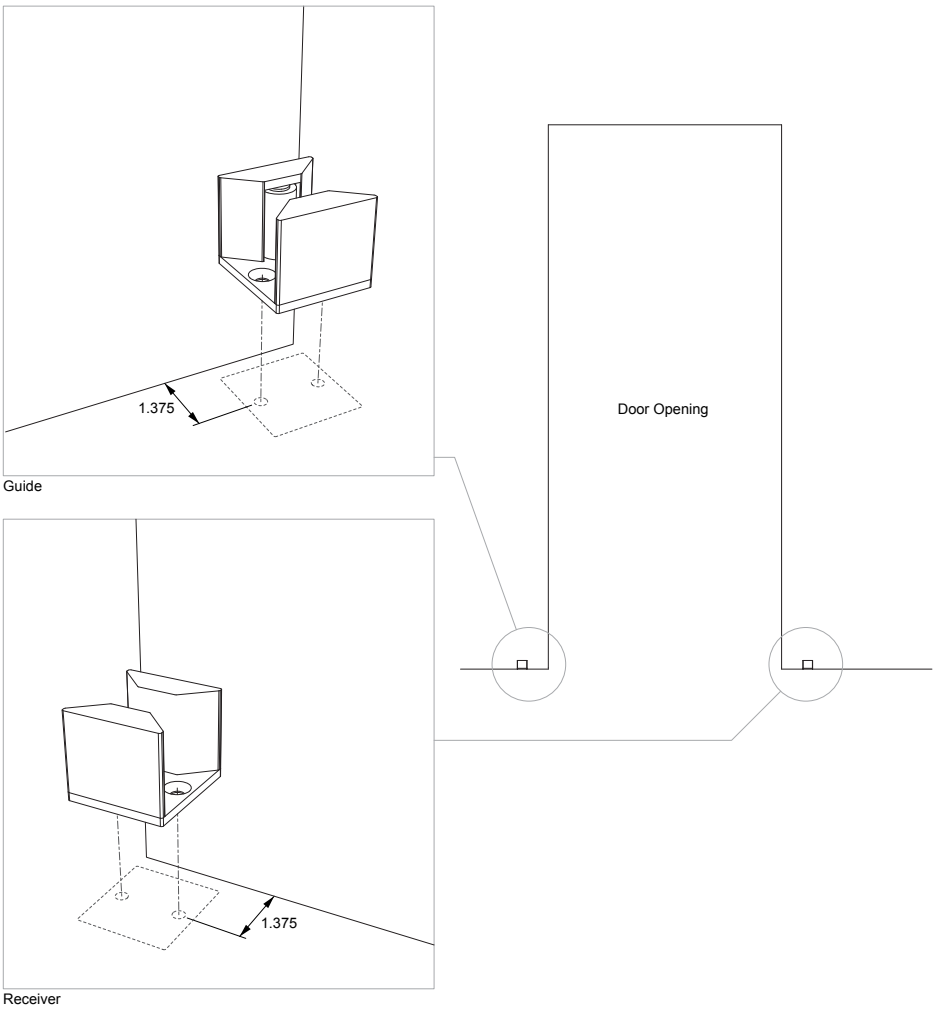
Install Floor Guides

There are 2 types of floor guides, one with rollers and one without. The one with rollers should be placed at the edge of the door opening and will always be in contact with the door regardless of position. The one without rollers is considered a receiver and should be placed on the far side of the opening so the panel will slide into it upon closing. For bi-parting doors (2) floor guides with rollers are used, one at each edge of the opening. The receivers are not used for bi-parting doors.

The guides are easily fastened directly to the floor with the included countersunk fasteners. They should be postioned 1-3/8" out from the wall to the center of the guide.

STEP 5, DIAGRAM 1 . Install floor guides.

5. Install floor guide

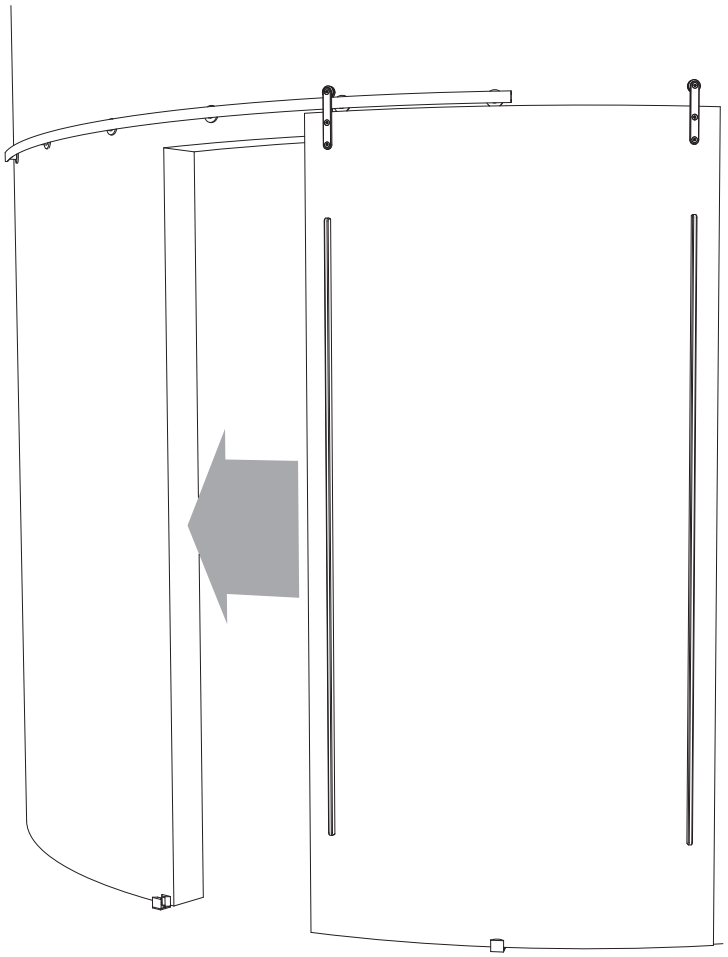


STEP 6

Install Panel Assembly

Install the panel on the top track. If there is room, slide the door on from one end. If there is not room to slide the door on from the end, you will need to take off one top roller. Then tilt the door 30 degrees out and hang it from one roller. Hang the removed top roller from the track and re-attach it to the door.

STEP 6, DIAGRAM 1 . Install panel assembly on track.



STEP 7

Install Bumpers and End Caps

Slide the bumpers onto the ends of the track into the correct position to stop the door at the appropriate position. Tighten the set screws. Insert the end caps on the ends of the track and secure by tightening the set screw.

STEP 7, DIAGRAM 1 . Install bumpers and end caps.