

Installation Manual

Glass Wall

Installation, Operation and Maintenance Instructions

362 TR, SR & 600 SR Partitions



Introduction

This Installation, Operation and Maintenance Manual is part of Modernfold's commitment to providing complete and accurate information about our products. However, we are constantly evaluating and improving our documentation to provide you with the information you need to install and maintain your Modernfold partition.

If you have any suggestions for the improvement of this manual, send them to us at:

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Specific Tools Required

Modernfold Glass Wall 362 SR, 362 TR & 600SR

Hammer Drill with 1/4", 1/2", 3/4", and 1" bits

(Chisel points if BTS closer to be installed)

- 3/16" Allen wrench (top pivot, door closure block #17)
- 6mm Allen wrench (top pivot, door closure block G150)
- 5/16" Allen wrench (top pivot, retainer plate #17 & G150)
- 5mm Allen wrench (top pivot, adj. roller block #17 & G150)
- 5mm Allen wrench (top pivot, adj. roller block #17 & G150)
- 18mm open end wrench (top pivot, adj. roller block nut #17)
- 17mm open end wrench (top pivot, adj. roller block nut G150)
- 1" open end wrench (trolley adjustment)
- 3/4" open end wrench (jamb nut)
- Spanner wrench (pass door hardware)
- 2" masking tape and chalk line
- Drill
- 1/4" plastic plug anchors – 2 per floor strike
- Blade knife

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Preliminary Installation

Modernfold defines the **preliminary installation** as the installation of the suspension system and its related parts. The Glass Wall can be installed on our #17 and G150 suspension systems. The installation of each of these systems is essentially the same: each piece of track is mounted to the header, secured together, leveled and plumbed.

Special Note:

To ease the installation process and reduce the number of possible errors, it may help to place the pieces of the suspension system on the floor in their proper positions, if possible, according to the layout drawings. This is especially useful if you are installing a switch & curve or programmed intersection layout.

Beginning the Installation ~ #17 Direct Mount

Chalk a line in the center of the header where the track will hang. Mark the spacing of each thru hole in the track along this center line. The track is pre-drilled every 6" with a 5/32" clearance hole for the screws. Then drill (or tap) the header for the proper type of fastener. The standard fastener shipped with the suspension system is a #14 round head wood screw, 2-1/2" long. If you are mounting the track to another surface, such as concrete or steel, then you will have to provide the proper anchor for your situation.

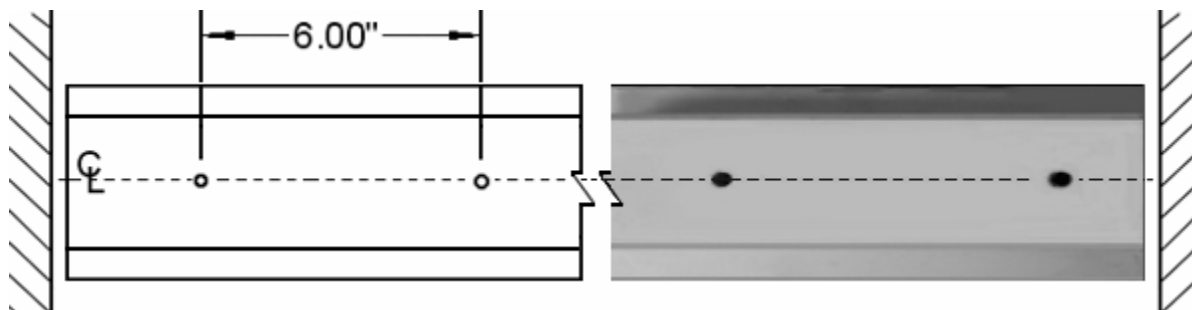


Figure 1: Hole spacing for direct mounting #17 track

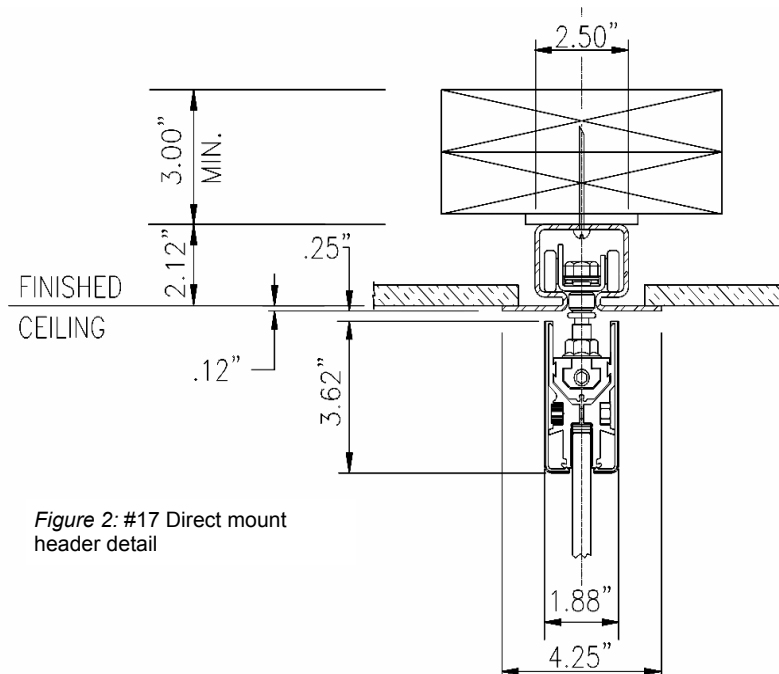


Figure 2: #17 Direct mount header detail

Attach Track to Header

Starting with the first section of track, at the *stack* end of the opening, secure each section to the header. Be sure each section is aligned with and butted tightly to the previous one and that there are no burrs or sharp edges upon which the carrier can catch. The track must be level within 1/8" across the opening width.

Pay particular attention to mounting the screws completely into the header, so that each screw is driven as far in as possible. The screw head can interfere with the operation of the trolley if it isn't completely secured.

Joining Track Sections

Direct mounted #17 track sections are joined with splice tabs at each joint. (However, do not insert a tab at the 4'-0" removable section until the installation is complete.) *Be sure that the sections are properly aligned, with no protruding edges.* If you cut any track sections to fit in the field, you must bevel the edges where the cuts were made. This will help assure a smooth transition and appearance at each joint.

Once the sections are in place, drive a splice tab into the slot formed by the bottom of the track shape. If the splice tab does not fit securely, remove it and bend each end slightly downward, until the tab fits securely in the track.

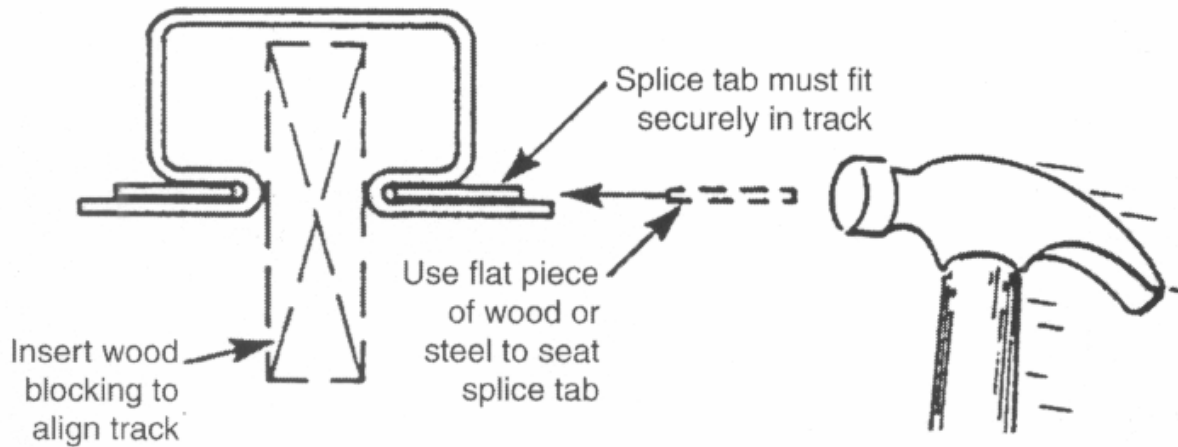


Figure 3: Inserting splice tab into track joint

Beginning the Installation ~ #17 Bracket Mount

Special Note:

Most stack configuration weldments are pre-drilled for their respective hanger brackets. Because these sections support the weight of the entire partition in a small area, the mounting holes are located closer together. Refer to the *Hanger Rod Layout* drawing for proper spacing.

The track is hung from the structural support by the hanger rods with a thru hole connection at the track bracket.

All track fabrication height adjustments can be made at the track, or at the Structural support, if possible.

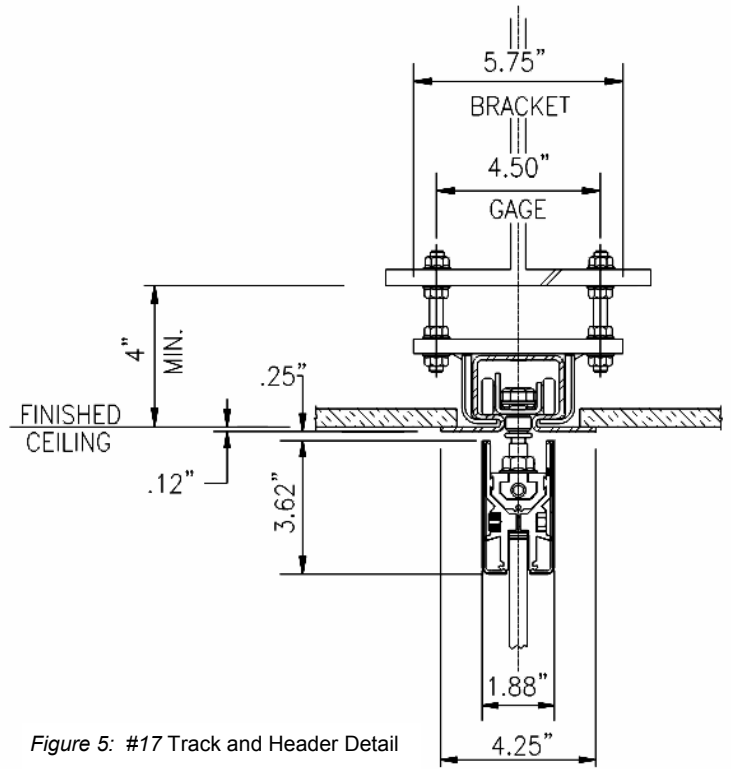


Figure 5: #17 Track and Header Detail

Installing the Hanger Rods



Figure 6: Installing Hanger Rods

Attach the first two (2) pairs of hanger rods to the structural support using a 3/8"-16 flange nut on *both* sides of the support. Then attach a pair of hanger rods at or near the *lead* end of the first section of track. This procedure will allow you to hang each end of the track section, and then install the remaining intermediate hanger rods. Alternatively, you can install all of the hanger rod pairs at the same time.

This will allow you to attach the brackets sequentially, which may be easier for some job site conditions.

Attaching the Hanger Brackets

Starting at the stack end, slide the required number of brackets (from the *Hanger Rod Layout* drawing) onto the track. you will need to adjust each bracket's position as the sections of track are hung.

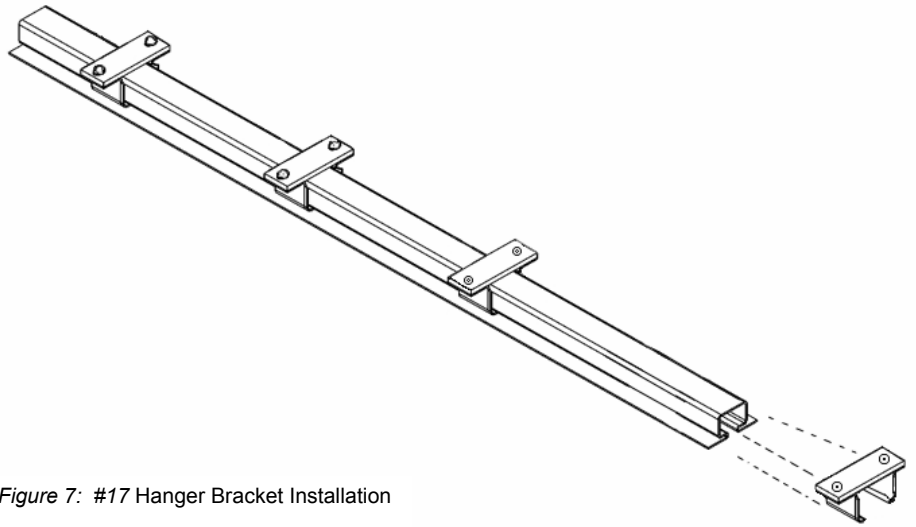


Figure 7: #17 Hanger Bracket Installation

Hanging Track Sections

First Section

Lift the track into place and slide the brackets over the hanger rods, either at each end or sequentially, depending upon which method of hanger rod installation you used. Again, be sure to use a flange nut on **both** sides of the hanger bracket.

Do not completely tighten the flange nuts at this time. You will be adjusting them as each track section is installed.

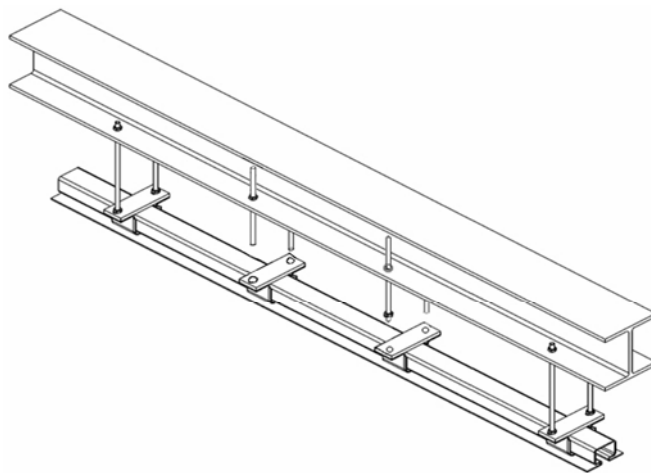


Figure 8: Installing First Track Section

Intermediate Sections

Each track section is hung in the same manner as the first section. Attach a pair of hanger rods near each end of the section (or for each bracket), securing to the structural support with a flange nut on both sides. (If the attachment at the structure is not a thru-hole connection, only one flange nut is required.)

Final Section

The final (removable) track section is also hung by attaching the hanger rods to the structural support and to the brackets on the track. However, when using the #17 suspension systems, the track itself can be removed from the brackets to allow for the panel installation.

Joining Track Sections

#17 track sections are joined with splice tabs at each intersection. Bracket mount splicing is identical to direct mount. Refer to pages 2 & 3 for details

Installing Track Stops, #17 & G150

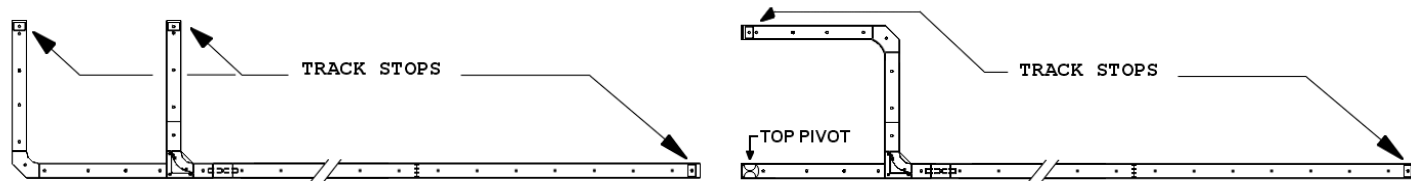


Figure 9: Typical Track Stop Locations

Track stops should be installed at all of the dead ends of the track. The purpose is to protect the glass edges from being damaged by inadvertent contact with the fixed walls. With that in mind each stop should be individually set to the glass edge it is going to protect. Both types of stops, #17 & G150, can be locked down through the gap in the track, however they need to be installed in their relative position prior to installing the trolleys, or temporarily positioned while installing the track.

Drop Header Trim Installation

To fill the gap in the opposite side of the track, you need to insert the drop ceiling support and spring clip between the top of the track flange and the ceiling. Insert the spring clip into the track above the flange and push firmly until it snaps into place. Then insert the drop ceiling support and push it in firmly, until it is captured by the spring clip.

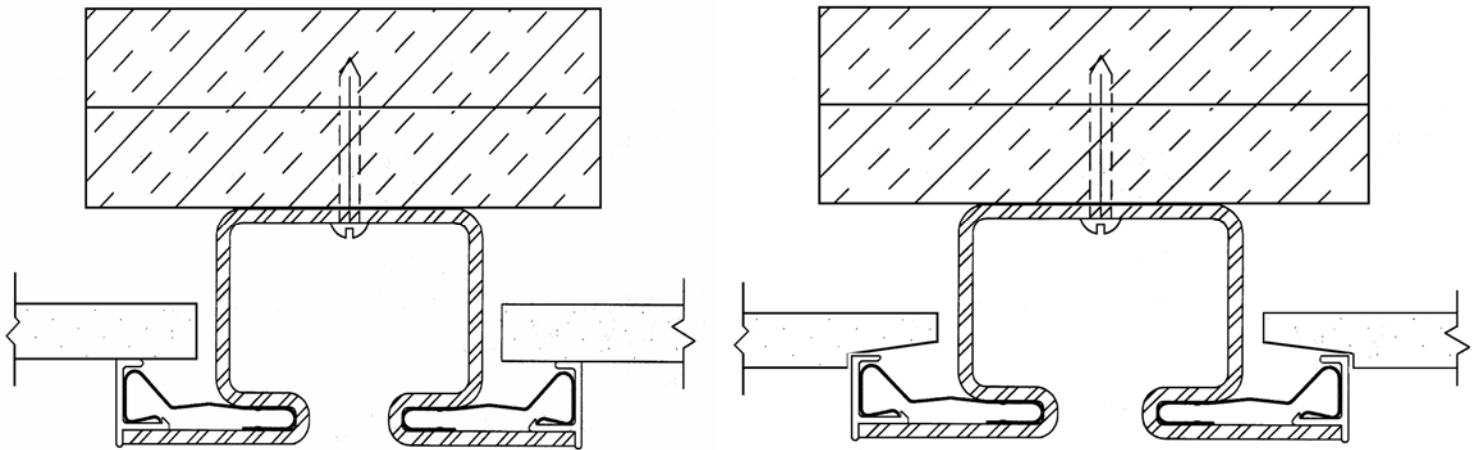


Figure 10: Installing Dropped Ceiling Support Clips & Trim with different styles of tile

Note:

It is especially important to utilize Drop Ceiling Support strips with tegular ceiling tile.

Beginning the Installation ~ G150 Direct Mount

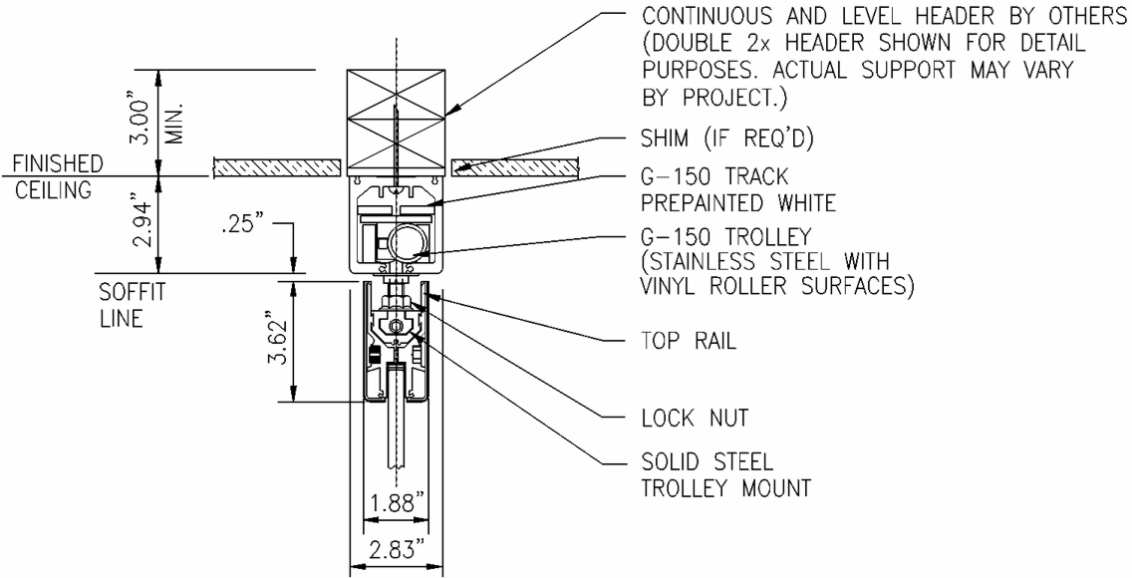


Figure 11: Surface Mounted Installation

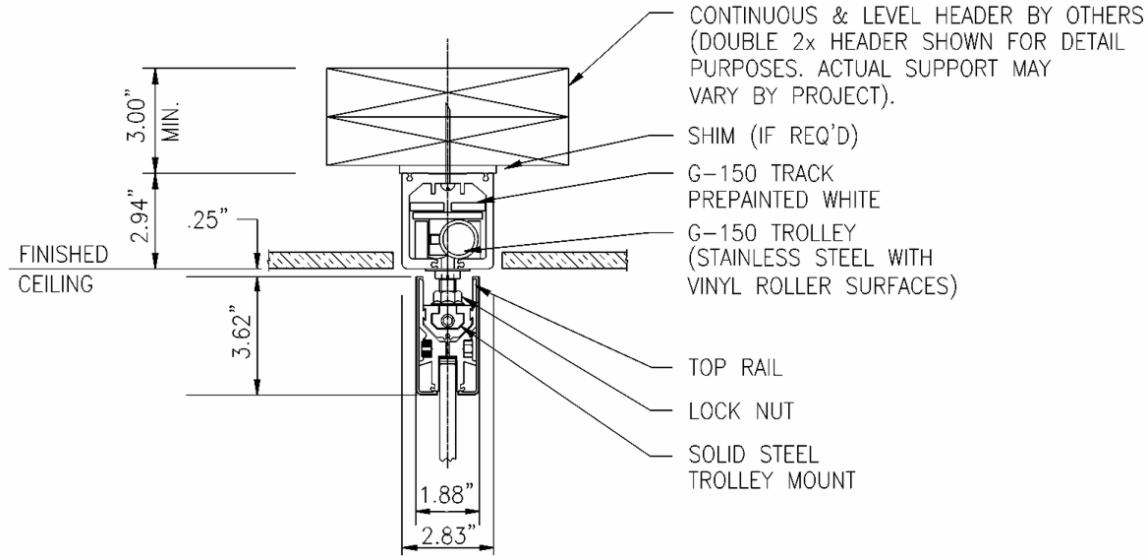


Figure 12: Recess Mounted Installation

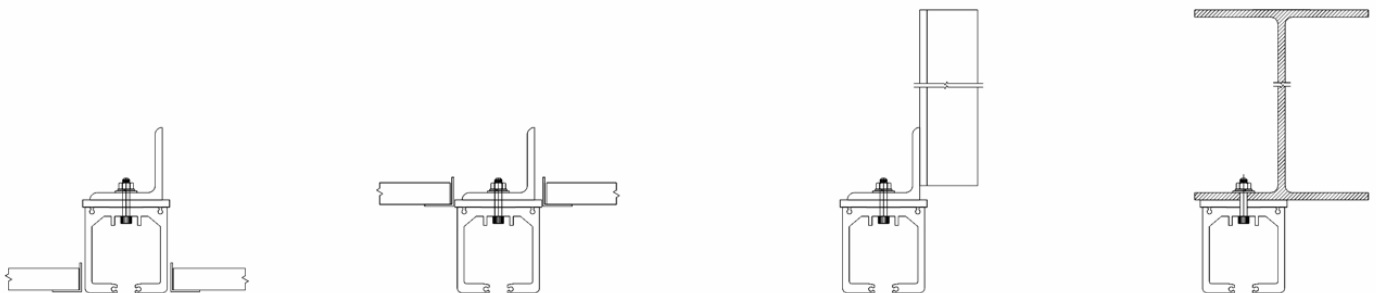


Figure 13: Possible Installations

Opening Tolerances and Site Guidelines

Steel - Must be level within .13" across the entire length of the track including the stack area

Track – Must be level within .13" across the entire length of the track including the stack area

Track installation must be laser checked for an accurate straight run-down the length of the opening

NOTE: Direct mounted track must be shimmed level within .13"

Floor – Must be level within .13" across the entire length of the opening including the stack area

The maximum out of level, overall, is .25" on either side of the opening.

Beginning the Installation ~ G150 Direct Mount

Chalk a line in the center of the header where the track will hang. Mark the spacing of each thru hole in the track along this center line. The track is pre-drilled every 12" with a 5/16" clearance hole for the screws.

Drill (or tap) the header for the proper type of fastener. There are no fasteners shipped with the suspension system. You will have to provide the proper anchor and fastener for your type of installation.

Ceiling Substructure for Track rail and Installation of the Track rail

The track rail must be bolted over its entire length (including the stacking track area) to a correctly aligned horizontal (longitudinally and transversely) ceiling structure

The substructure should be designed to accommodate the total weight of all the panels both in the stacking area and in the partition section.

Hanging Track Sections

The first assembly to be installed will be the stack area weldment. Lift into place and install with fasteners determined by type of header system installed.

Next section (piece) to install is the 3.94" removable (maintenance) section. Groove pins will be used at the running edge joints only. Drill, drill/tap header to accommodate same fastener used to attach other track sections.

Screw removable section to header making sure aligner plate fits properly then use a blade screwdriver to position pins over joints **after** the panels have been installed!

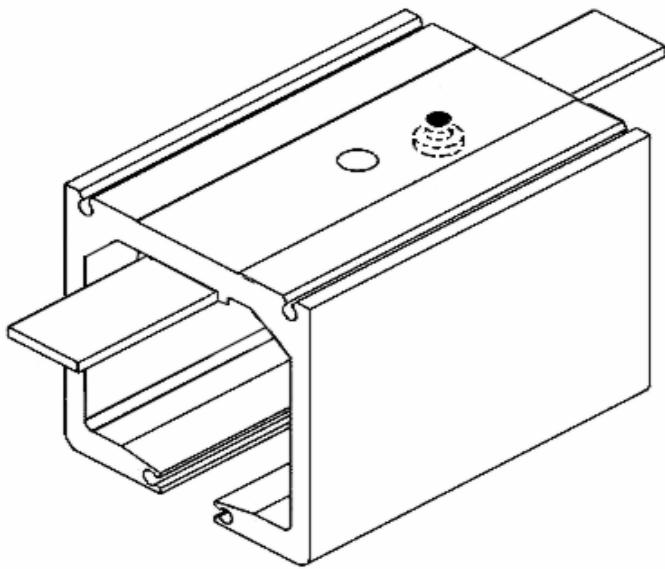


Figure 14: Removable (Maintenance) Track Section

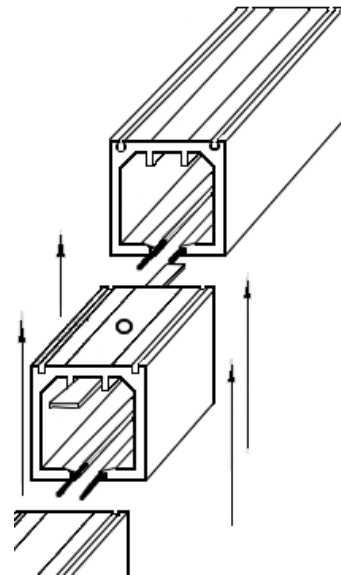


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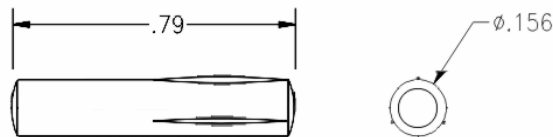


Figure 16: Groove (splice) Pin

Continue installing the remainder of the intermediate sections. First by guiding track section on to previous section's splice pins then fastening to the header. Lastly, install 4 groove pins into the opposite end of the track, groove end first insert approximately 3/8" with 3/8" exposed. Continue with remainder of sections until complete.

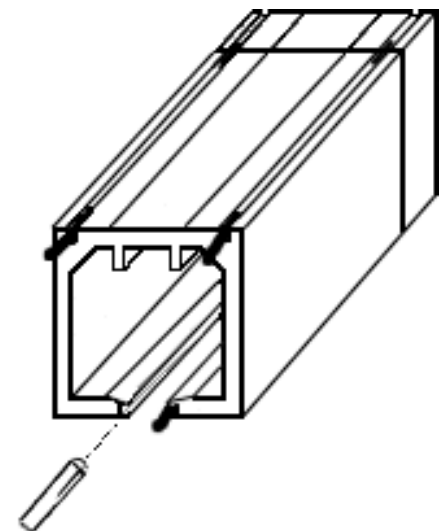


Figure 17: Installing Groove Pins in Track Section

Installing Switches

#17 and G150

The #17 switch installs much the same as the track itself: mounted with brackets and attached to hanger rods, or directly to the header.

The G150 switch is similar to the #17 with respects to the weight and the size with the main difference being the G150 is only available as a direct mount with either recessed or surface mounted track.

Be sure to check the layout drawings for the proper position and orientation of the switch and curve intersections in your installation. It is important that each switch be installed in its proper place in order for the switch's programming lugs to perform appropriately.

Special Note:

You must use a #17 Glass Wall switch for a #17 Glass Wall installation to utilize the Glass Wall #17 trolley with the Delrin (nylon) tire. If you are using a standard #17 switch you must use standard steel wheeled trolleys.

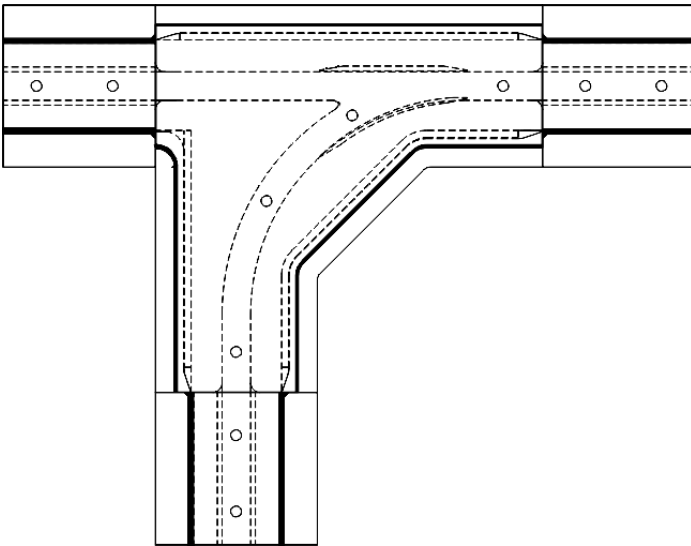


Figure 18. #17G Direct Mount L.H. Switch

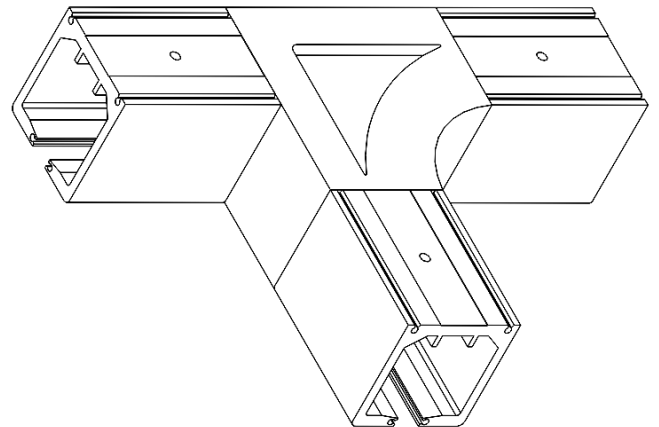


Figure 19. G150 Direct Mount L.H. Switch

Leveling the Track

When all of the track sections are installed, level the entire track. Be sure fabrication height is correct, then check for any loose hanger rod flange nuts. If the track is direct mounted, shim the entire track as necessary to correct any discrepancies in the header. Finally, check the track joints to make sure the track is straight and that all of the sections fit together without gaps. Also make sure that there are no burrs or offsets to interfere with trolley operation. Tighten all of the bolts on the splice cover assemblies or, for direct mounted track, make sure that the splice tabs or splice pins are positioned securely.

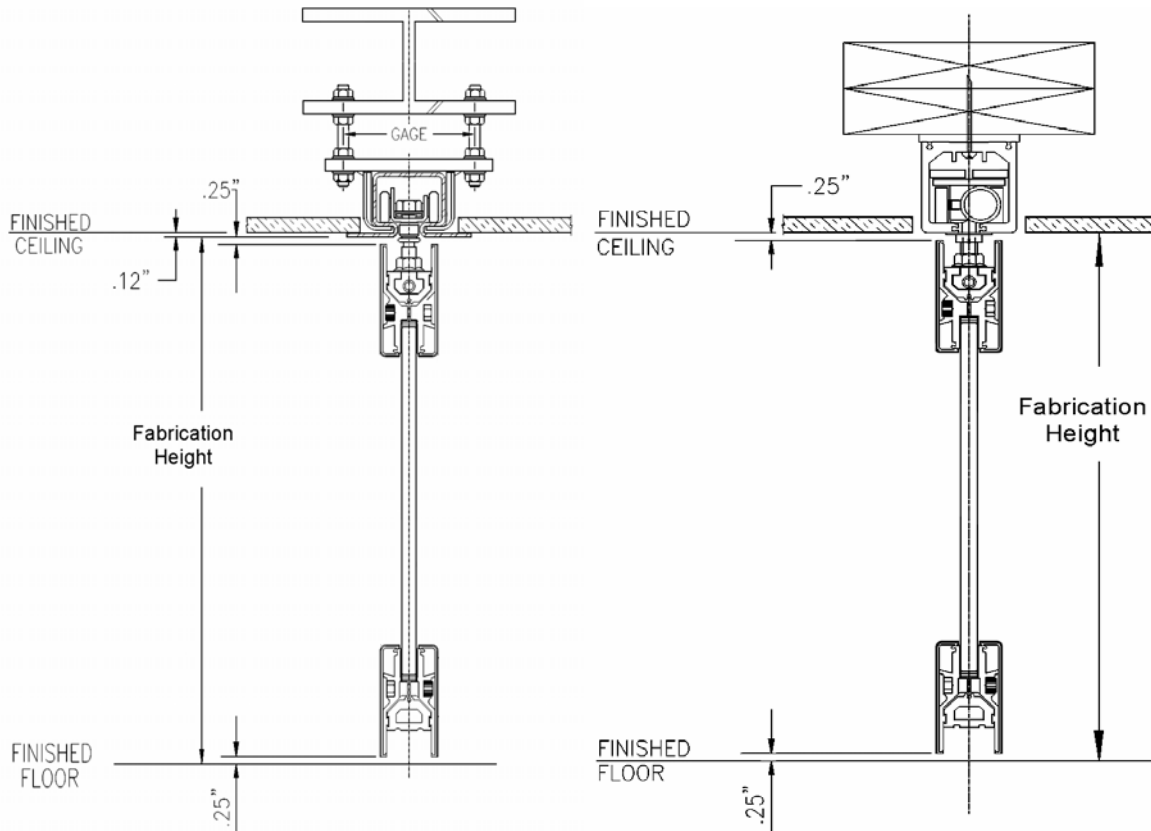


Figure 20. Determining Fabrication Height

Cleaning & Lubricating the Track

Clean the inside of the track to remove dirt, shavings or other foreign matter that may interfere with the operation of the partition. (Small screws can be particularly damaging to the trolley tires.) Then coat the inside of the track with a thin covering of petroleum jelly (i.e., Vaseline).

BTS-80 Closer Installation

The best time to install the closer is during the track preliminary installation before the floor finishing is complete. The BTS 80 Closer ships with an additional collar mounted around the perimeter of the mounting box. This is only used if you are installing a Convertible Panel. For standard PC1 applications it must be removed.

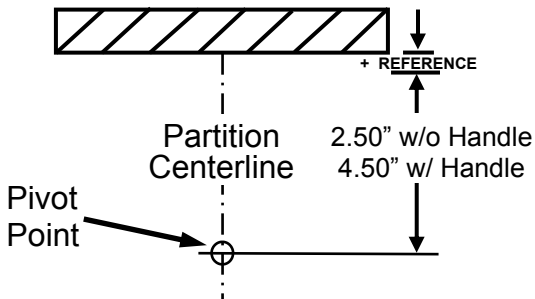


Figure 21: Locating pivot point.

Mark location of center pivot according to custom layout drawings.



Figure 22: BTS 80 Door Closer

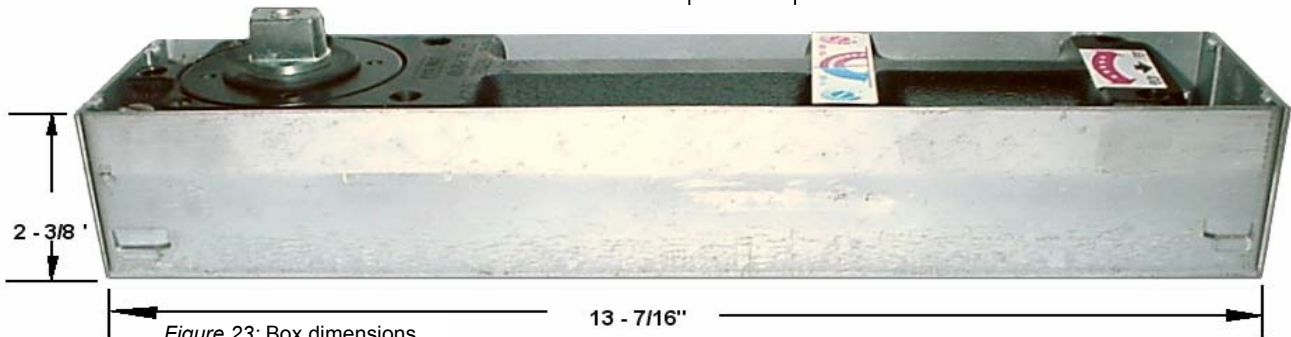
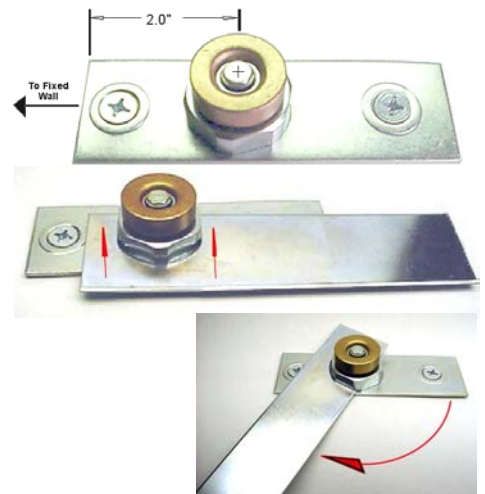


Figure 23: Box dimensions

8852 Pivot Installation

The layout for the bottom pivot assembly is the same as above, Locate your pivot point based upon panel being fitted with handles or not, add reference dimension per the layout drawing and attach to the floor. This type of pivot doesn't require a recess. The type of flooring material will determine the proper fasteners to use. The pivot is vertically adjustable, utilize the furnished wrench for adjustments



Special Note: If your installation calls for a mechanical closure, you must install the closure **before installing the panels**. Then proceed to the panel installation instructions.

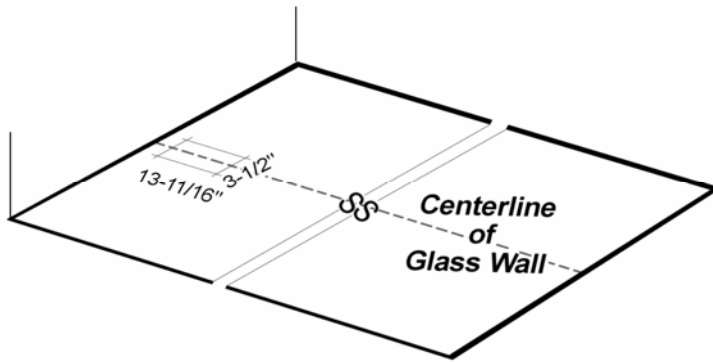


Figure 24. Layout for BTS cutout

Layout the dimensions of the BTS Closer on the floor.

Mark dimensions of BTS closer $\frac{1}{4}$ " wider than actual dimension of closer box.

Cut/chip out concrete to the required depth and width.

Place the BTS Closer in the hole, align and grout in place.

Set the height of box level with the concrete. The Closer sets level with carpet height.

Minor height, level and side-to-side dimension can be made, if necessary, after box is grouted in.

Attach cover plate and check level, adjust as necessary.

Before Beginning Installation

If the suspension system was installed at an earlier date, it should be checked for level and readjusted as necessary before panels are installed. Also confirm that all hardware has been properly tightened.

Prior to hanging the panels, conduct the following inspections:

- Inspect each panel for damage; make any required repairs.
- Inspect trolley for damage.

Identify each panel and stage in preparation for hanging. The panels are hung beginning with the Lead panel then reverse order, the Closure panel is last. (All panels are numbered from the stack end to the lead end.)

In order to insert the trolleys into the G150 track, you must remove the 3.94" maintenance section of track. #17 Track has a 4'-0" removable section.

Note

You must use #17G trolleys (delrin tire) with #17G Switch & Curves. #17G Trolleys will not work with standard #17 switch & curves.

Installing the Panels on a #17 Header

If you are installing a partition with a switch & curve or programmed intersection, be sure that each trolley diverter is oriented properly before installing the panels in the track. The location of the diverter is dependent upon the type of stack configuration.

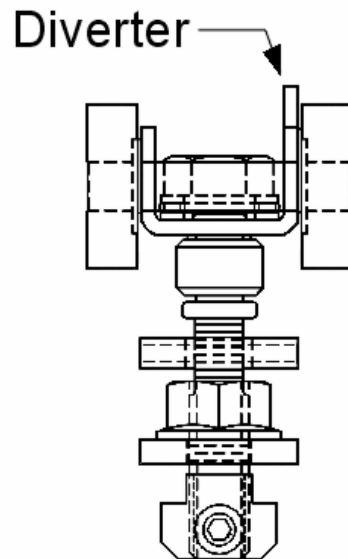


Figure 25 : #17G Trolley with Delrin wheels

If the layout calls for a 90° side stack, the diverter on the lead trolley of each panel will be on the opposite side as the stack configuration. If you have a parallel side stack configuration, the diverter on the lead trolley will be on the same side as the stack.

Positioning The Trolley Diverters

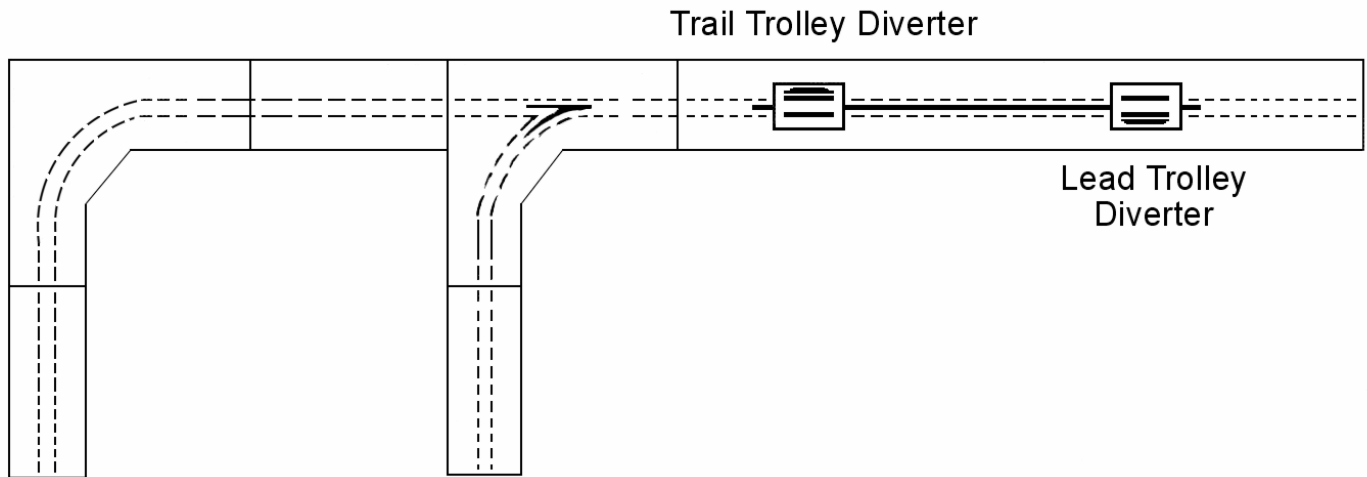


Figure 26 : Positioning Diverter for Parallel side stack

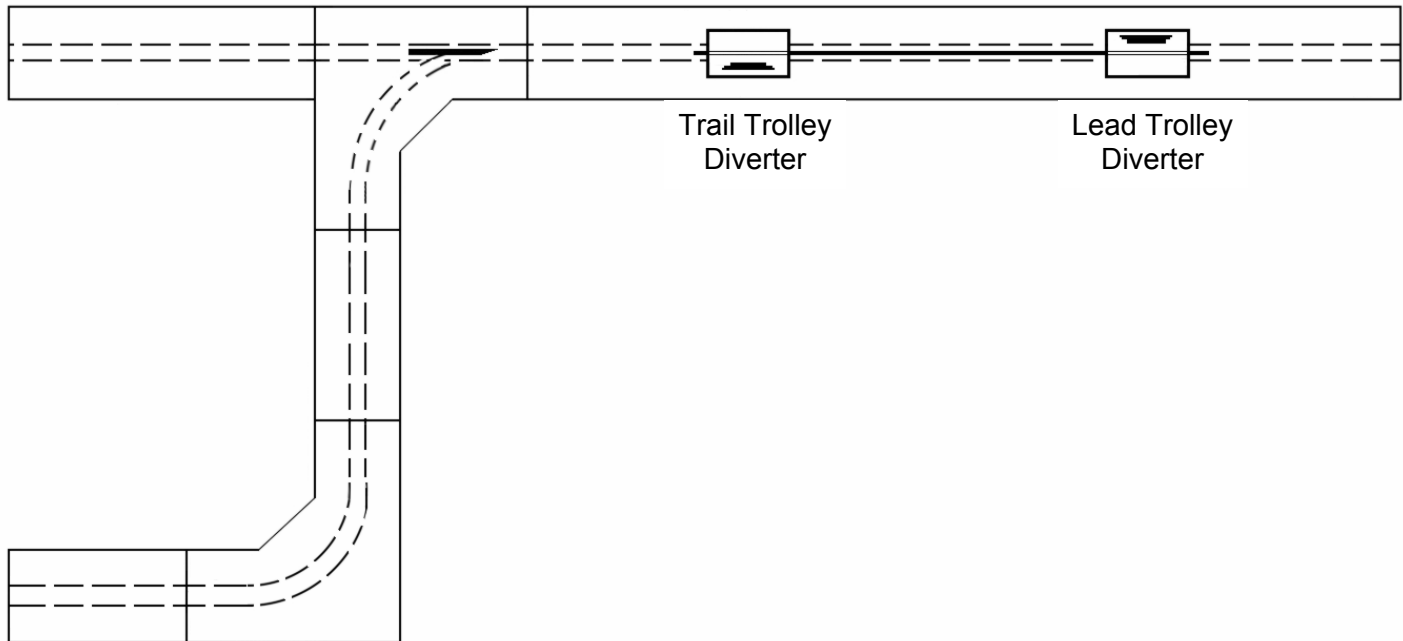


Figure 27 : Positioning Diverter for 90 degree side stack

If you have a parallel side stack configuration, the diverter on the lead Trolley of each panel will be on the same side as the stack. If the layout calls for a 90° side stack, the diverter on the lead trolley of each panel will be on the opposite side as the stack configuration.

Panel Installation #17 track

Plumb down from centerline of track at both ends and mark at floor (mark on masking tape if carpet).

Run a strip of 2" wide masking tape the entire length of the opening and snap a chalk line between centerline marks. (This will keep all floor bolt receivers and strikes in a straight line when installing).

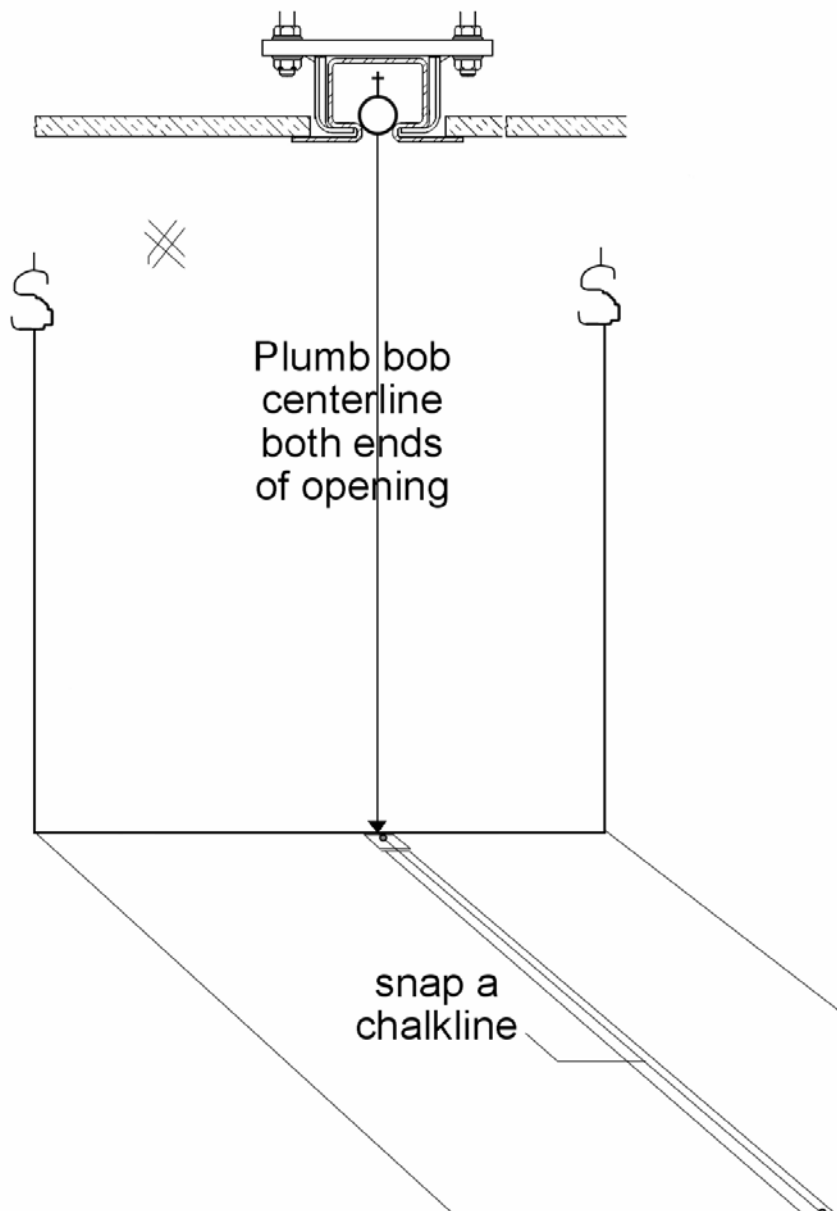
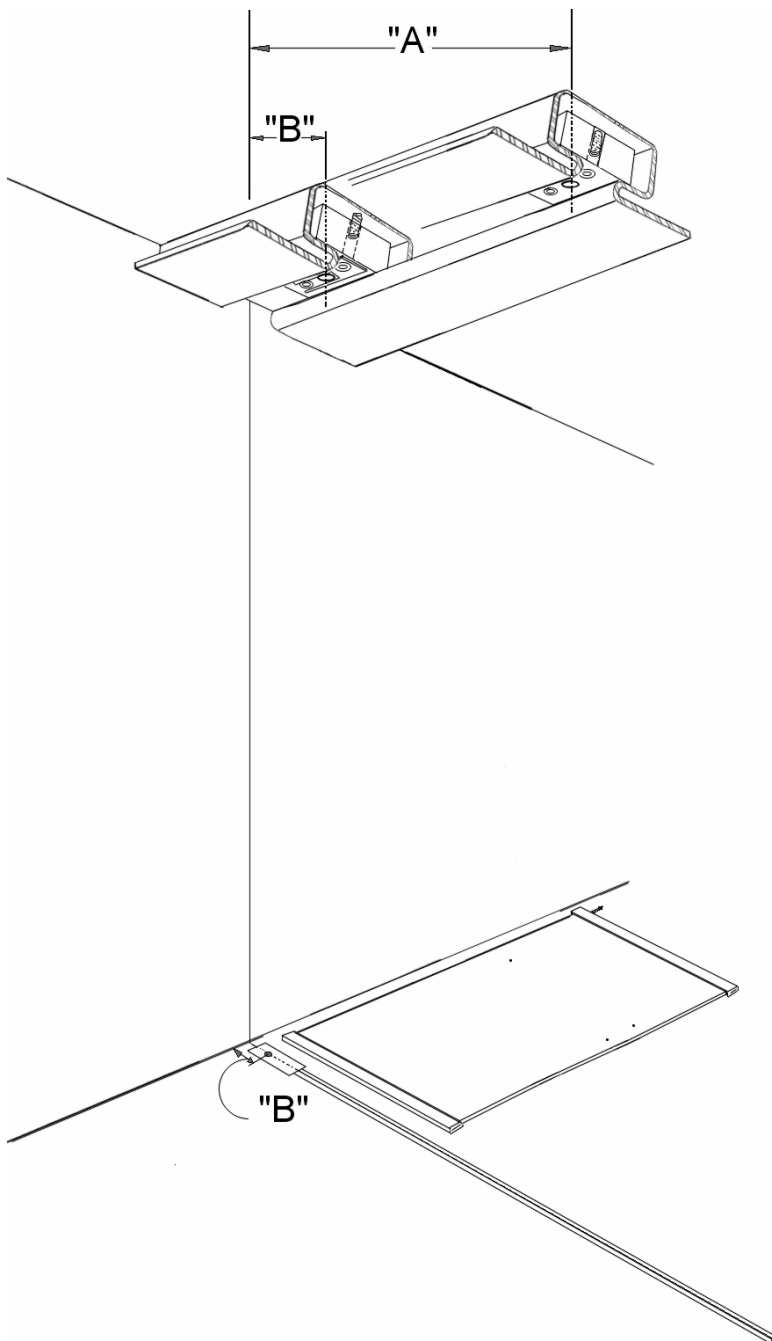


Figure 28. Determining centerline for strike installation.

Installing Pivot Panel with BTS 80 Closer

Put top pivot block in the track and push down to approximately 4' off wall ("A"). Make a mark at track that is plumb up from BTS spindle (locations "B"). Place the bottom of panel parallel to the centerline at approximate location of BTS closer.



Stand panel up to approximately 70°-80°, making sure that pivot hole is engaged with BTS spindle.

Rotate panel 90° to perpendicular with track as if in stack position, maintaining 70°-80° lean.

Slowly raise panel up, feeding pivot pin into pivot block. Move pivot block to pre-marked location and secure – check panel for vertical level and correct gap between trail glass edge and wall.

There are two sizes of hex allen wrench required to install the pivot block a 3/16" used on the two screws that lock against the track and a 5/16" wrench is used on the cap screw that locks the retainer plate in place.

SPECIAL NOTE:

Place pivot block in approximate install location *prior* to placing trolleys in track, or during installation of preliminary.

Figure 29. Positioning pivot block and closure panel

Top Pivot Installation

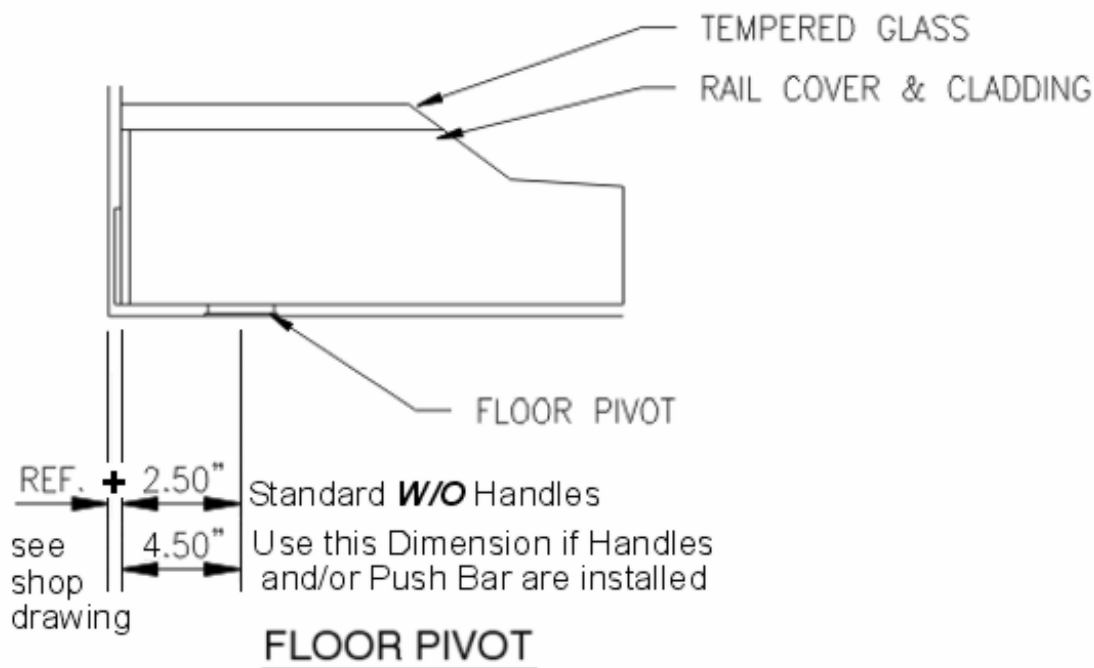
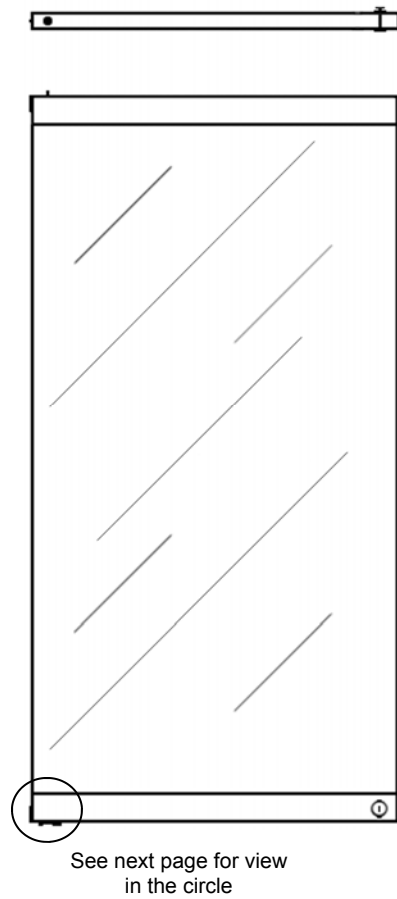
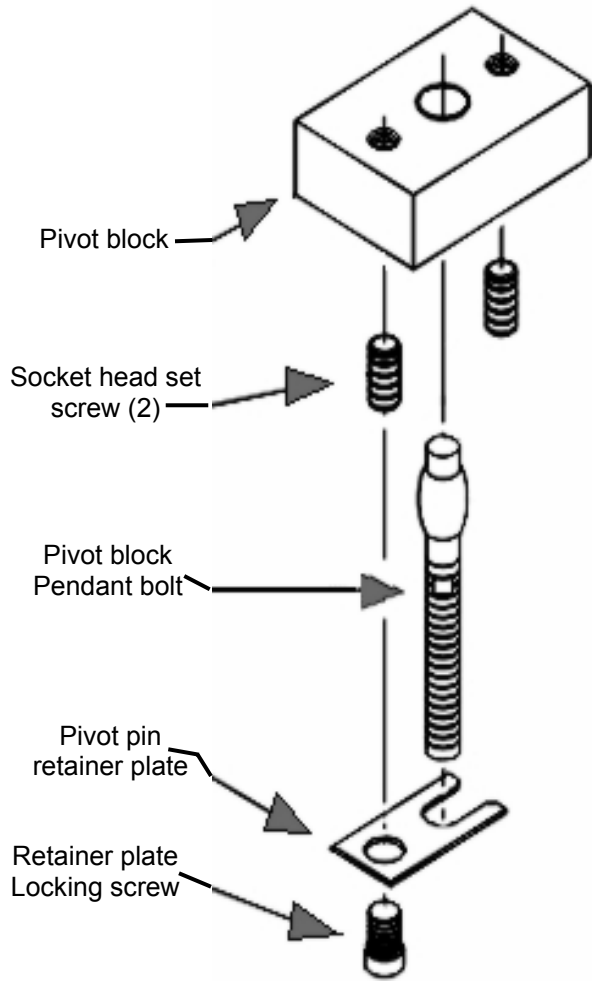
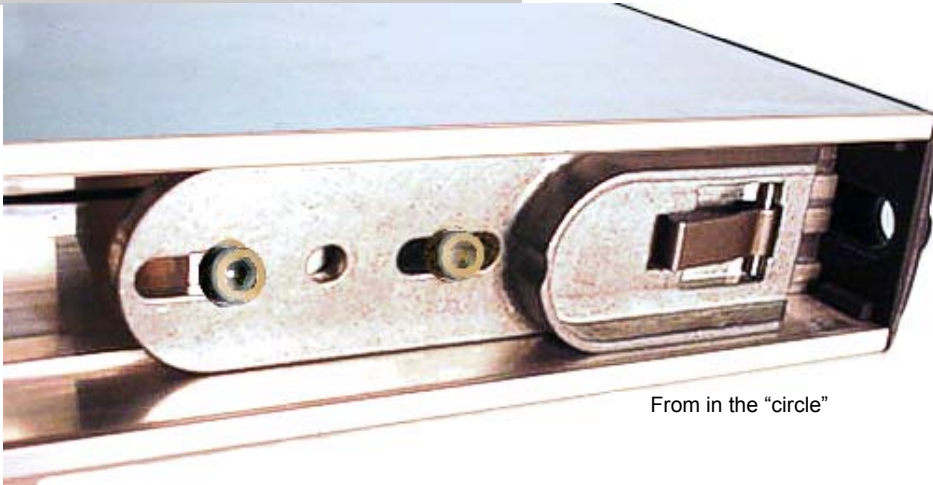
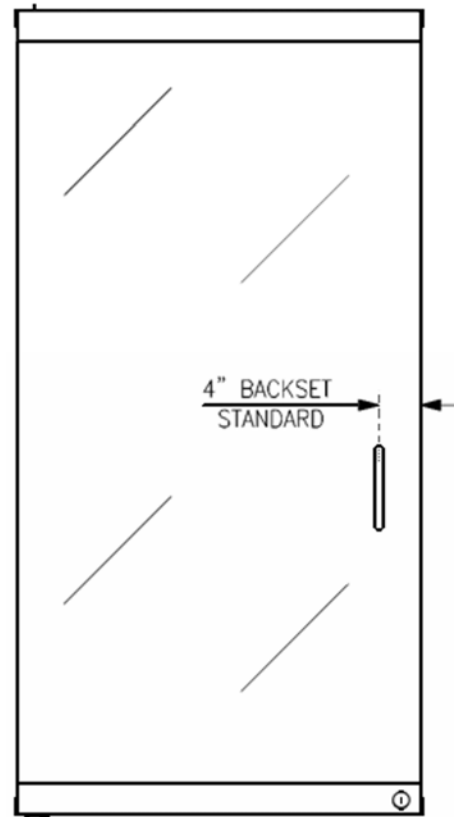
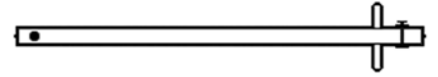


Figure 30. Pivot pin assembly and locations.

Bottom Pivot Installation



From in the "circle"



Adjustment wrench



From in the "circle"

Mounts to floor



Figure 31. Mating Pivot pin assembly with pivot pin receiver mounted in bottom of panel

To correctly locate the top and bottom pivots, it is important to obtain the "Shop Drawings" that are job specific for the particular installation that you are working on at this time. For the standard Pivot Closure panel you will use either 2.5" (**NO** Handles) or 4.5" (**W/** Handle or Push Bar) PLUS (+) the reference dimension that is shown on the shop drawings.

Installing Intermediate Panels

The BTS closer will hold #1 panel in closed position. Install the floor strike to hold open in stacked position or temporarily block in that position. Install each intermediate panel. Trolley removal is not necessary for #17 track. Work panel up slowly keeping trolleys in removable track section gap after panel is straight up, feed trolleys into track, making sure trolley diverters are correctly aligned for proper stacking diverting.

After all Intermediate panels are installed, replace the removable track section.

Swing intermediate panels out of stack into opening. As each panel is brought into place, offset it out to the side approximately 1" to miss the interconnecting floor bolt, but make contact with the next panel at the rails.

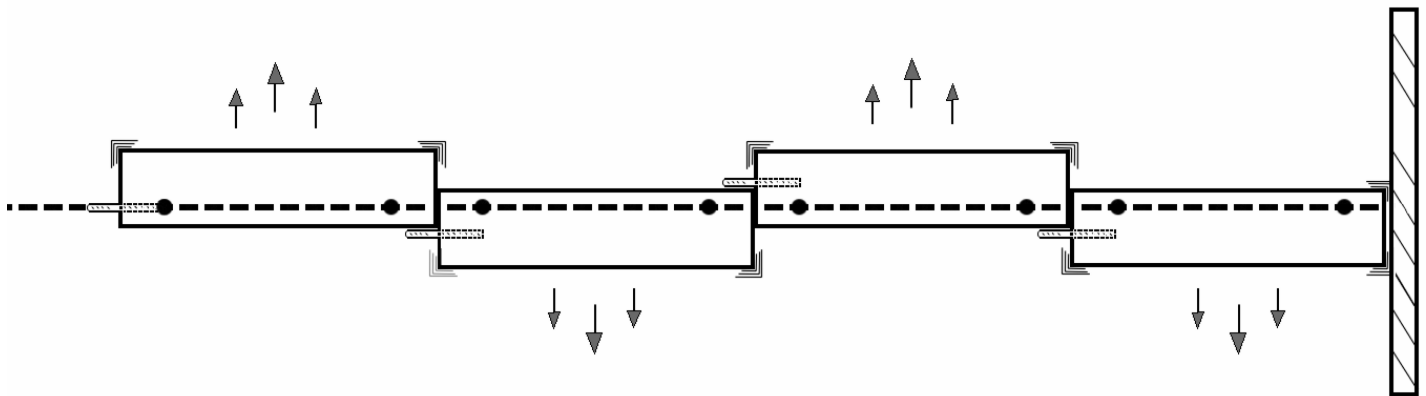


Figure 32. Locating Strike Plates

This alignment will let you check for the correct gaps between panel edges and the lead edge to the wall. This needs to be checked before any of the floor strikes are *drilled*. If all the gaps are acceptable dimensionally, proceed with leveling and floor strike installation.

Recommended gaps

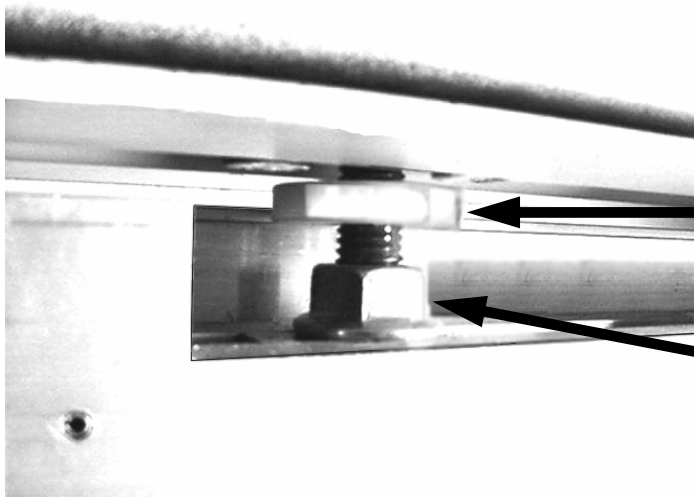
Lead panel, edge at the wall = ref. dimension on shop drawing (3/8" typ.)

Pivot panel, # 2 and the intermediates. = 1/4"

Trail panel (if not equipped with closer or pivot) edge at the wall = reference dimension on shop drawing (3/8" typ.)

Leveling Panels/ Install Floor Strike(s)

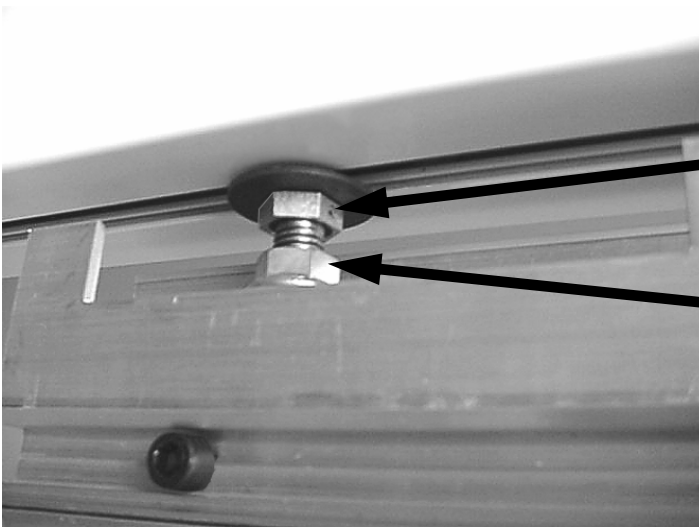
Starting with lead panel, check for vertical level. Adjust trolleys as needed by loosening jamb nut (see below) and adjusting trolley height with 1" wrench on flat sides of Nylon Retaining Ring. Ideal top spacing is 1/4" from top of rail to bottom of track.



#17G Trolley
Adjustment Keeper
use 1" wrench

#17 Trolley lock flange nut
use 18mm wrench

Figure 33. leveling panel with #17 track



G150 Trolley
Adjustment Keeper
use 17mm wrench

G150 Trolley lock flange nut
Use 17mm wrench

Figure 34. leveling panel with G150 track

Install floor strikes as each panel is leveled. To help mark an accurate location, actuate the floor strike to the floor level. It will make an indentation in the masking tape on the floor. Unscrew floor strike socket from base and use base as a marking template. On carpet, cut the carpet out 1/8" inside of the template lines (see fig 37). This will allow the floor strike to recess flush with the carpet.

Strike Location and Installation Details

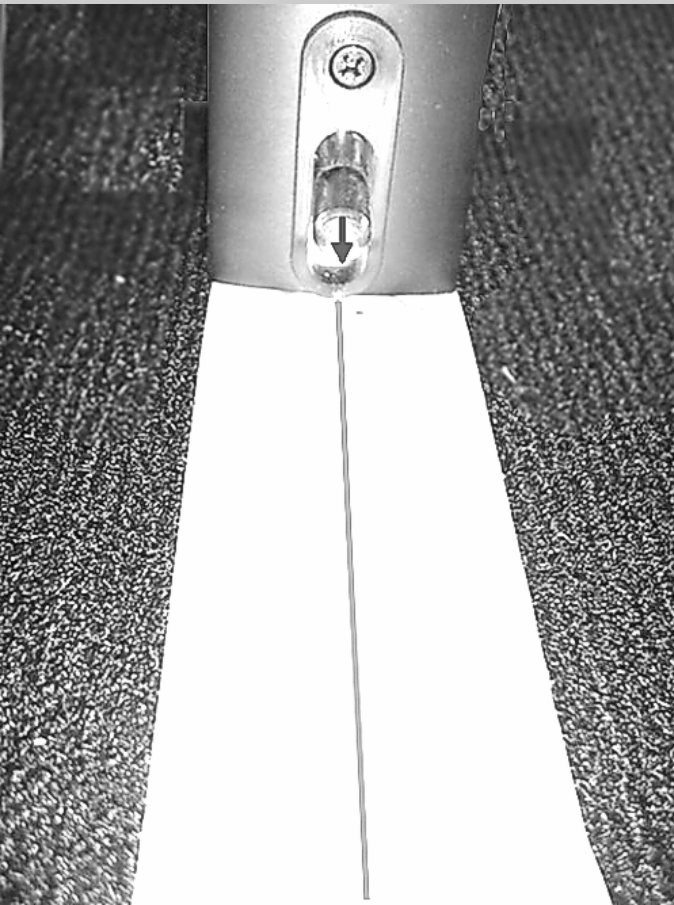


Figure 35. Locating Strike on Centerline

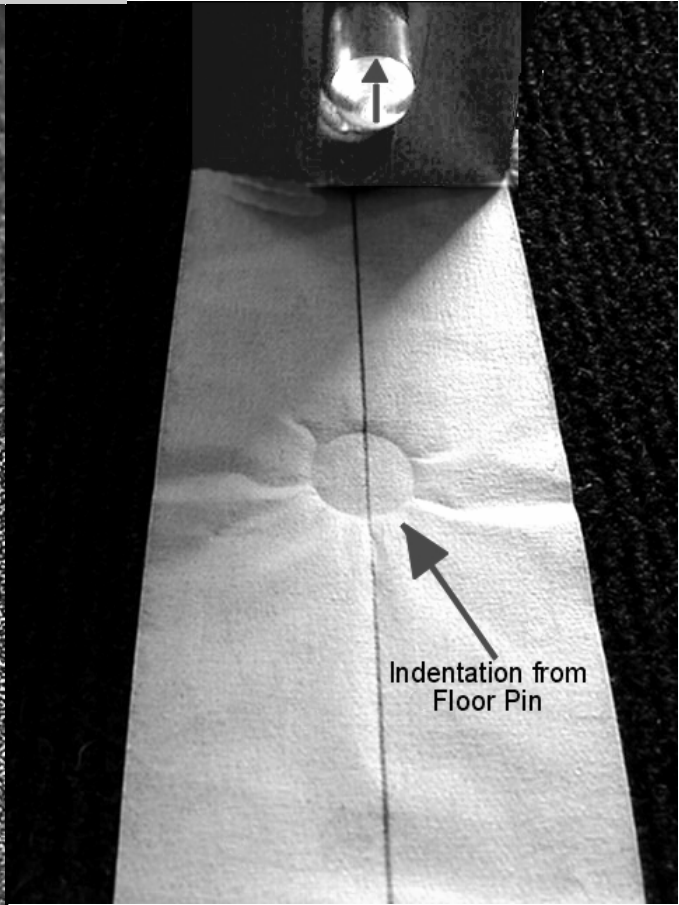


Figure 36. Strike Indentation

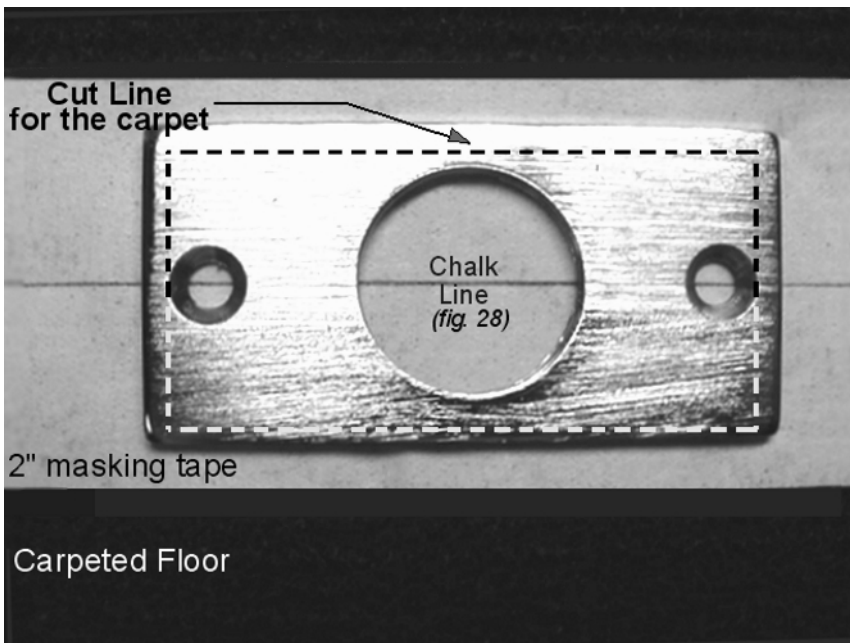


Figure 37. Strike Plate Installed on Carpet

Drill (2) 1/4" holes for the mounting screws and a 1" hole for floor strike socket (start with 1/4" pilot hole and increase in 1/4" increments to 1"). Replace dustproof strike socket in strike plate and install mounting screws.

Generally speaking there is some play in the floor strike. The panel may drift away from the centerline slightly. Use the next successive panel strike to position correctly.

Dust proof Strike for Floor Bolts

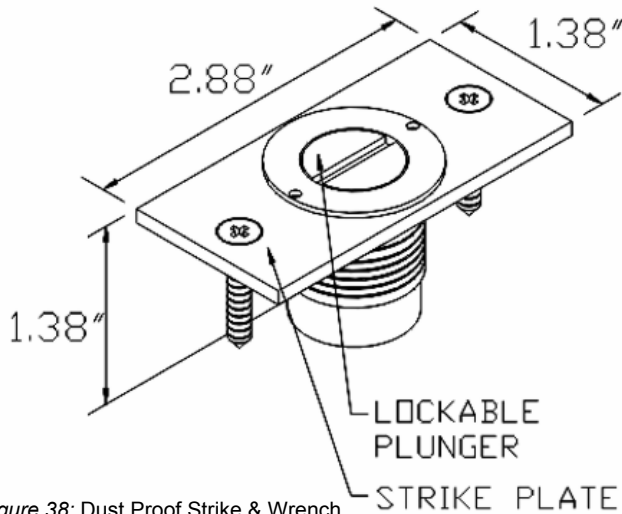
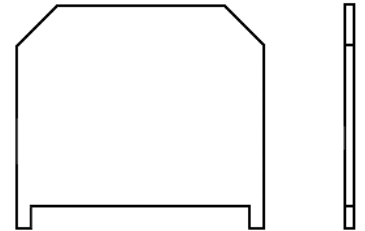
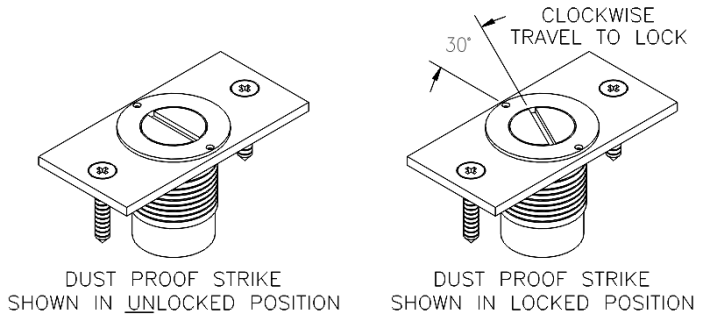


Figure 38: Dust Proof Strike & Wrench



STRIKE SPANNER WRENCH

Installing Panels on the G150 Track System

Instructions for installing panels when the finished ceiling is installed in a G150 Recess Mounted track application.

When ceilings are complete, Modernfold Glass Wall panels on G150 cannot be installed with the trolleys attached to the rails. This is due to the panel angle required to get the first trolley up through the roller access area and into the track. Trolleys must be removed from the panel and installed in the track. Panel height is critical, total clearance at top and bottom combined cannot be less than 1/2".

To remove trolleys from panel

- (1) Remove end caps and covers if applicable
- (2) Loosen the two 5/16 screws at the end of the rail until finger tight.
- (3) Loosen the set screw in the trolley block.
- (4) Loosen the lock nut on the trolley bolt.

This will allow the trolley block to slide out of the prep block. If the trolley and prep block hang up, thread the trolley bolt out until it clears the prep block and can be slid out.

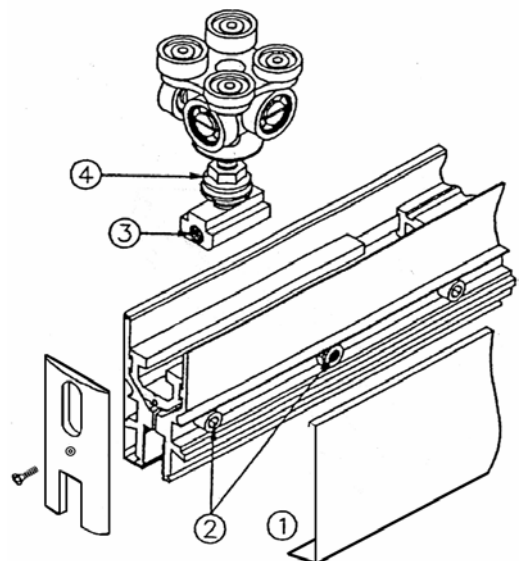


Figure 39: Removing Carrier

Stand panel up between trolley blocks.

Slide trolley and blocks into prep block in the rail.

Adjust panel up with trolley nut until top rail is approximately 1/4" from track.

Tighten trolley nut. Tighten trolley block set screw.

Move panel to stack weldment for final adjustment.

Once panel is adjusted, tighten the two 5/16" screws at each end of the rail to 15 ft/lbs.

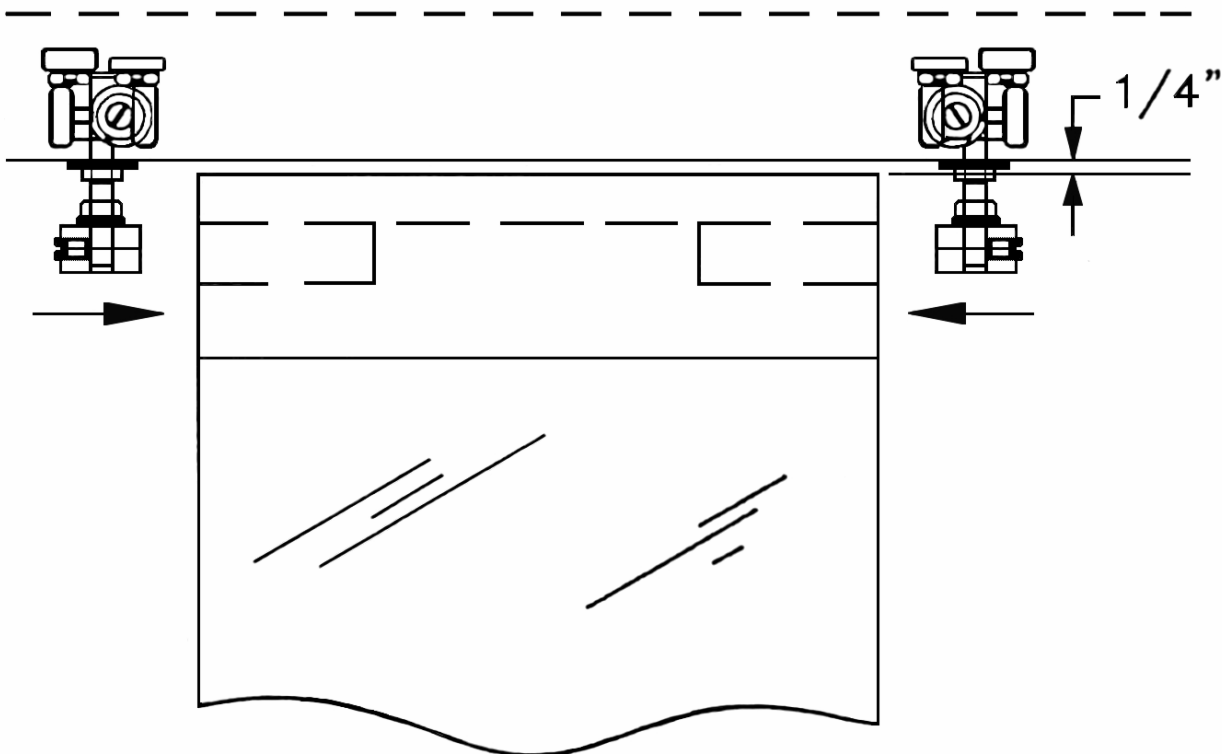


Figure 40: Reinstalling Trolleys

Install End/Pivot Panel

Refer to page 18 of this Manual. The End/ Pivot panel is installed on G150 Track the same as on #17 track.

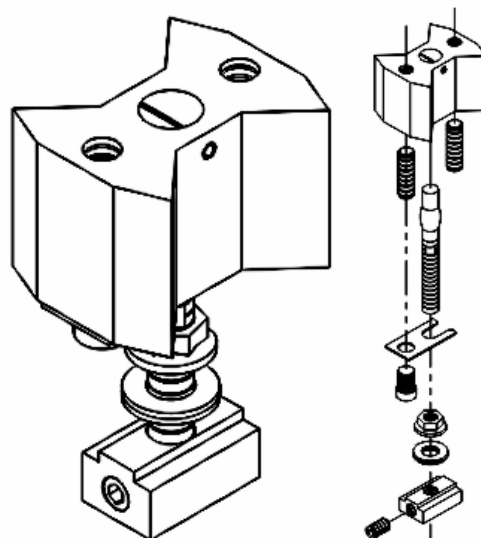


Figure 41: G150 Top Pivot Assembly

G150 Trolley Configuration

The formation of the trolleys has its importance in the stack entrance. Detail-A: For the trolley to run straight through, position the high diverting roller opposite the direction of the parking unit legs.

Detail B: For the trolley to divert onto the offset parking leg, position the high diverting roller in the track on the same side as the stacking legs.

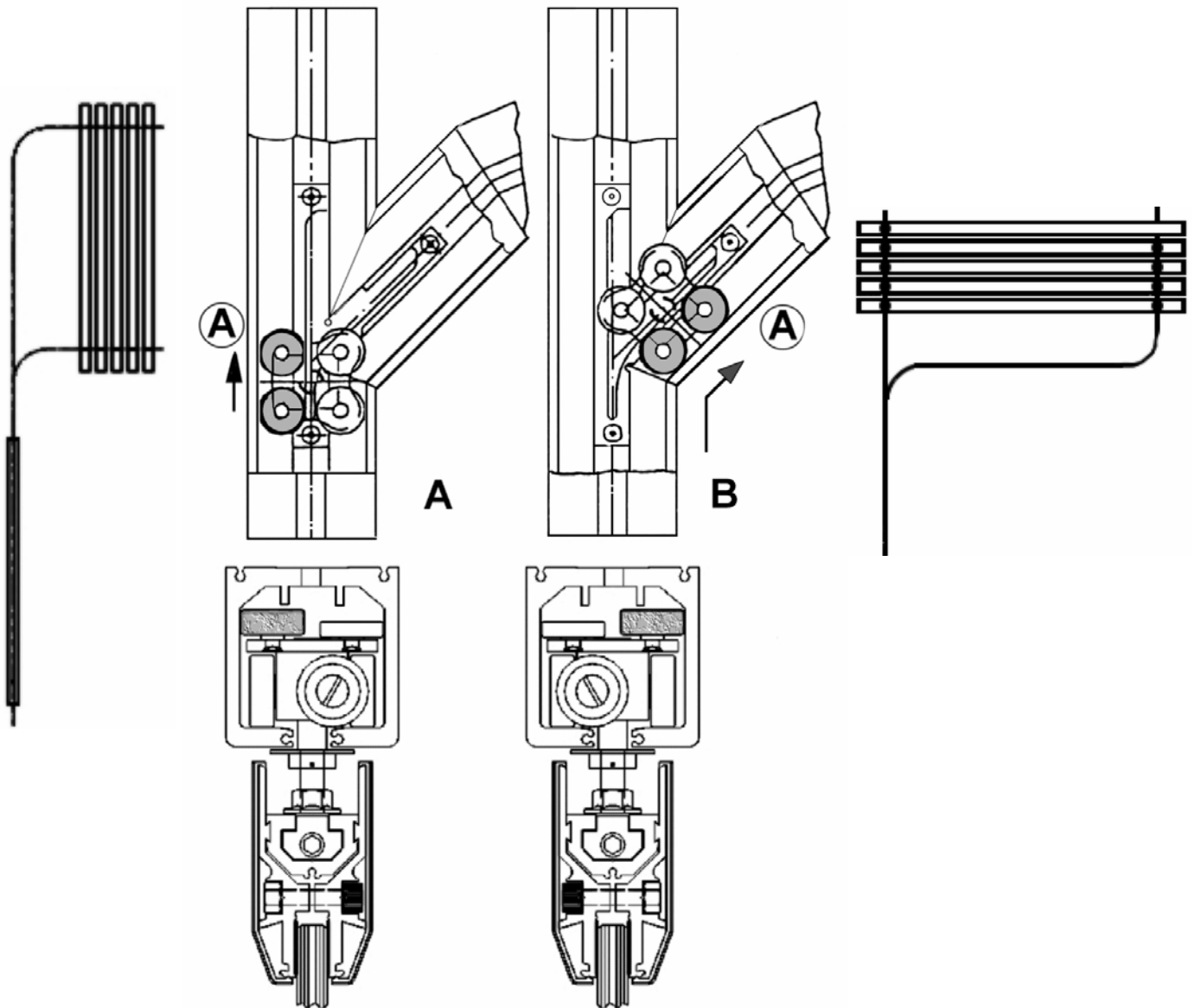


Figure 42: Positioning Diverters on G150 Trolleys

Installing Door Hardware

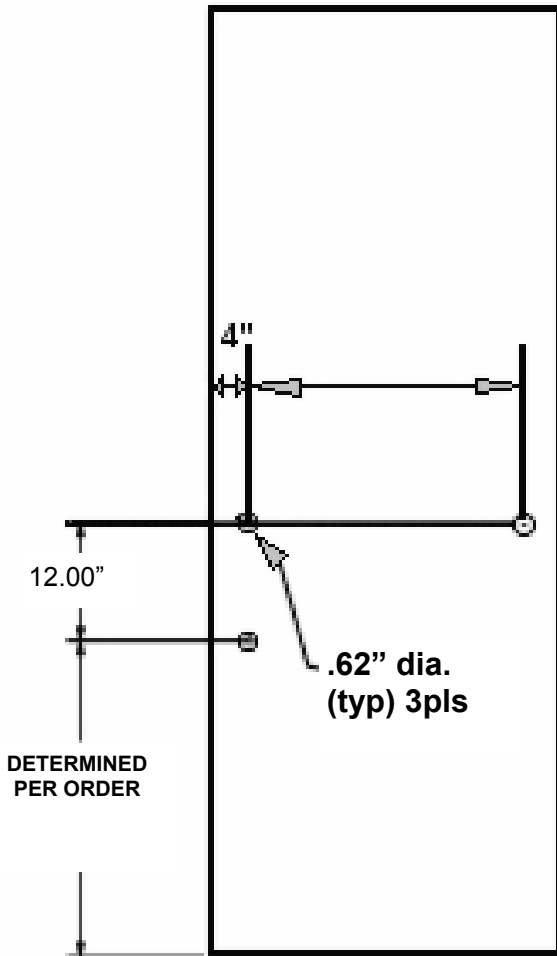


Fig 43. Handle Location

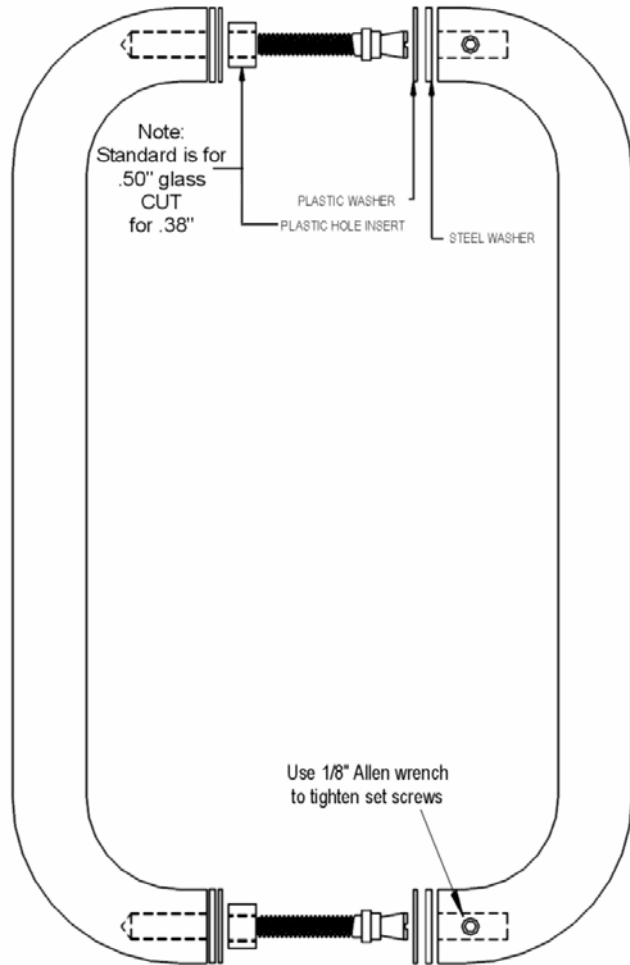


Fig. 45 Installing Handles back to back

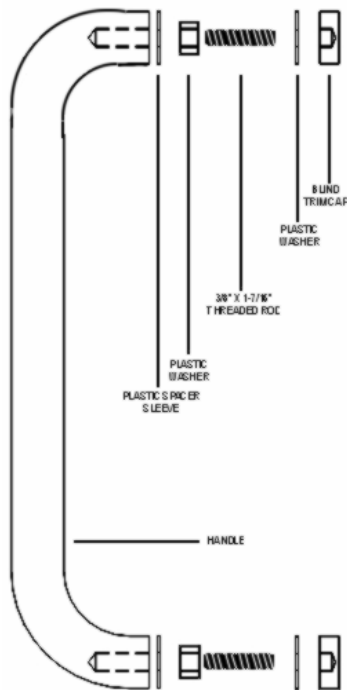


Fig. 44 Installing handle one side only

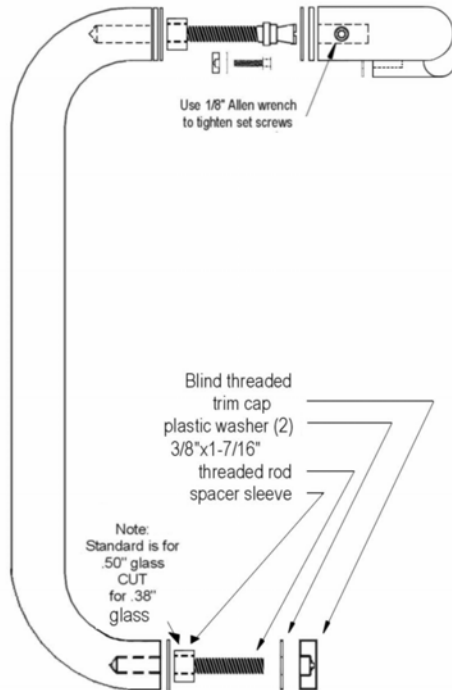


Fig. 46 Installing Handle and Push Bar

Pivot panels , pass door handles and push bars can be specified several different ways. Handles can be installed on both sides or just one side only. There is also the handle and push bar combination.

Although the handles look similar, each specific handle has its own type of installation hardware.

Single handle applications utilize a threaded stud that is secured to the reverse side by a finished cover/nut. Back to back handles are attached *similarly* to the Modernfold latch #72, they have a pin that threads into one half of the handles the other handle slips over the machined end of the pin and is secured to the pin by tightening a set screw in the handle. That set screw requires a 1/8" allen wrench.

The combination handle and push bar uses hardware from both of the previous styles. See the previous page for sketches.

All of the handles are furnished with plastic sleeves and plastic washers. It is important to make sure these are installed to help protect the glass.

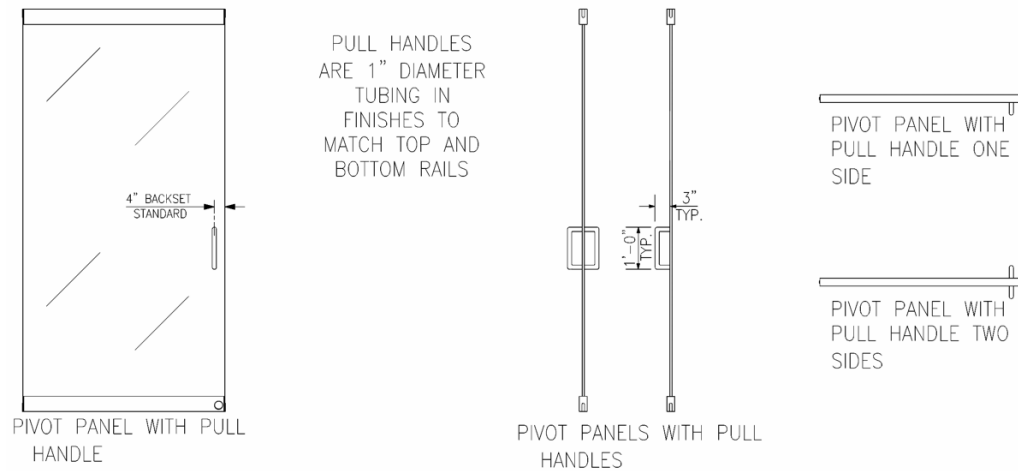


Fig. 47 Single and Back to Back Handle

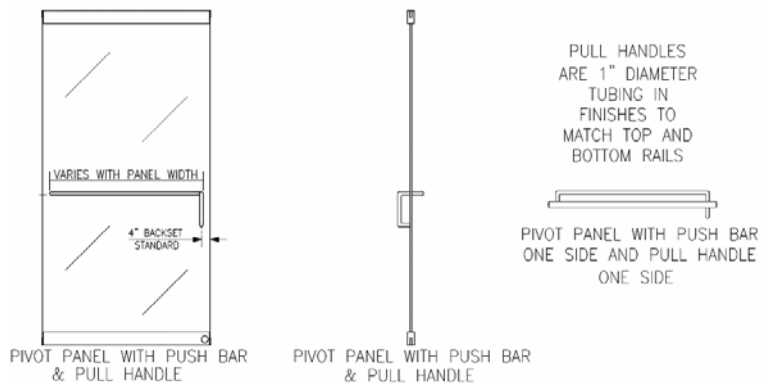


Fig. 48 Handle and Push Bar

BTS 80 Closer User Adjustments

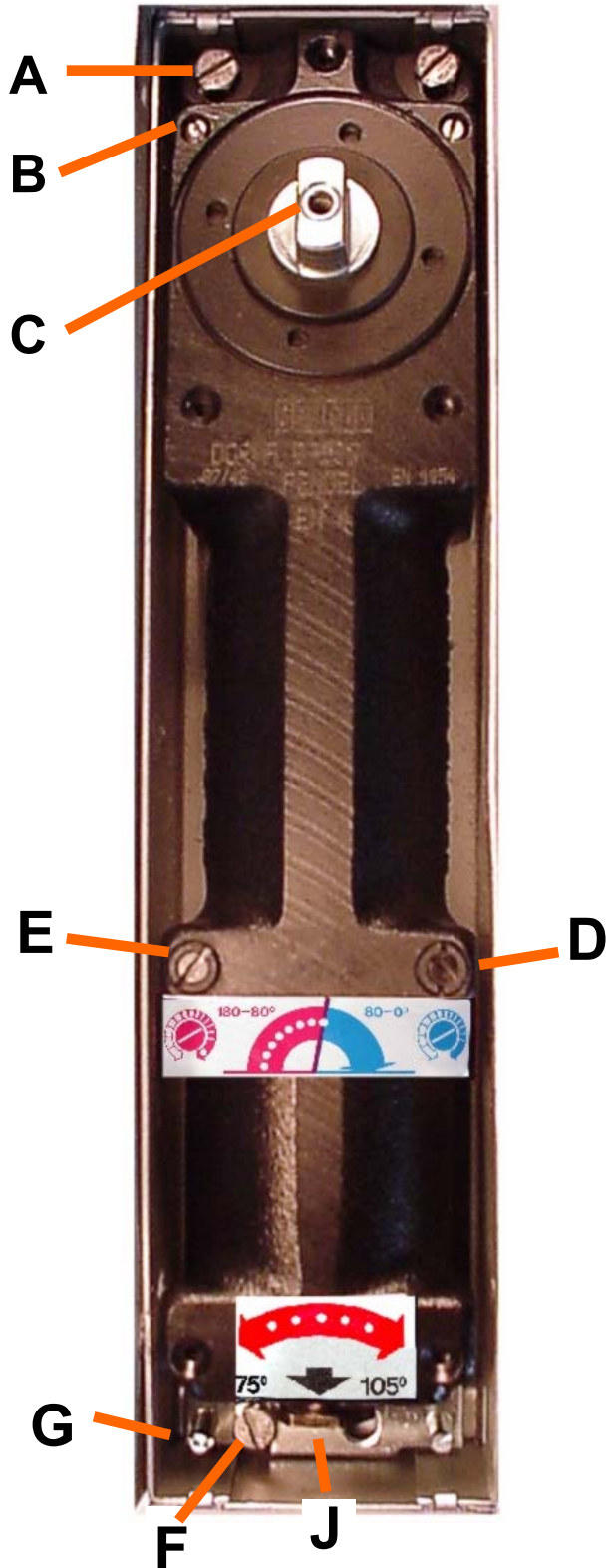


Fig. 49 Closer Adjustment Points

Legend for BTS 80 Closer

- A = Screws that attach closer to box
- B = Height adjustment screws
- C = Fixing screw for spindle insert
- D = Regulating valve for closing speed from approx. 80° to 0°
- E = Regulating valve for closing speed from 180° to approx. 80°
- F = Screws that attach closer to box
- G = Height adjustment screws
- J = Regulating screw for adjustment of hold-open start.

To adjust the height and level of the closer loosen screws A & F (3). Then adjust screws B & G (4) until desired results are achieved. Clockwise rotation will raise, counterclockwise will lower closer. Retighten A & F screws.

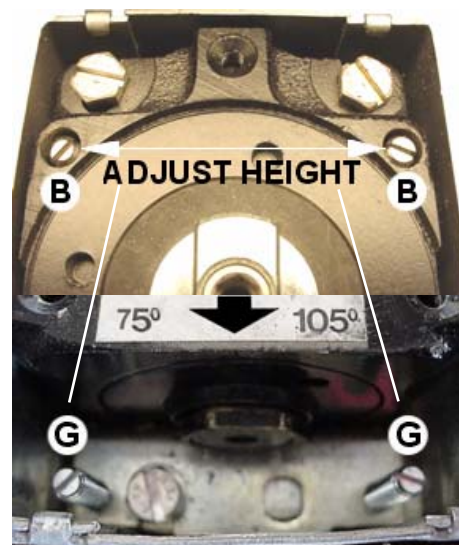


Fig. 50 Cutaway View of Height and Level Adjustments at the Top and Bottom of the Closer

BTS 80 Adjusting the Hold Open

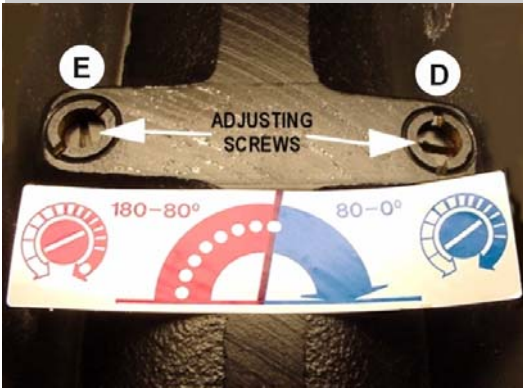


Fig. 51 Adjustment Screw To ACTIVATE Hold Open

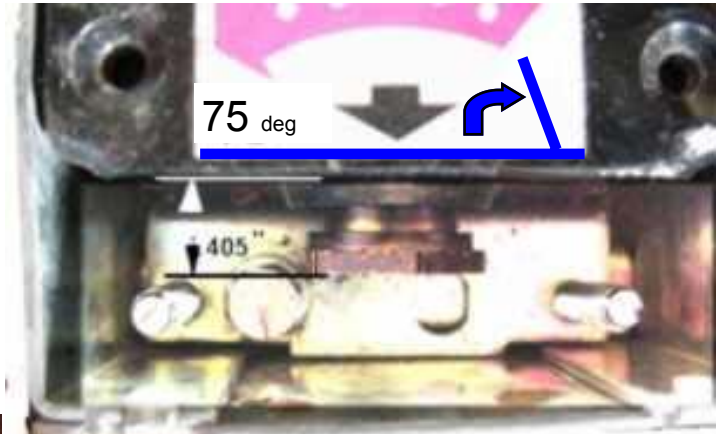


Fig 54. "J" Valve set for 75 degree hold open



Fig. 52 use small blade screwdriver only

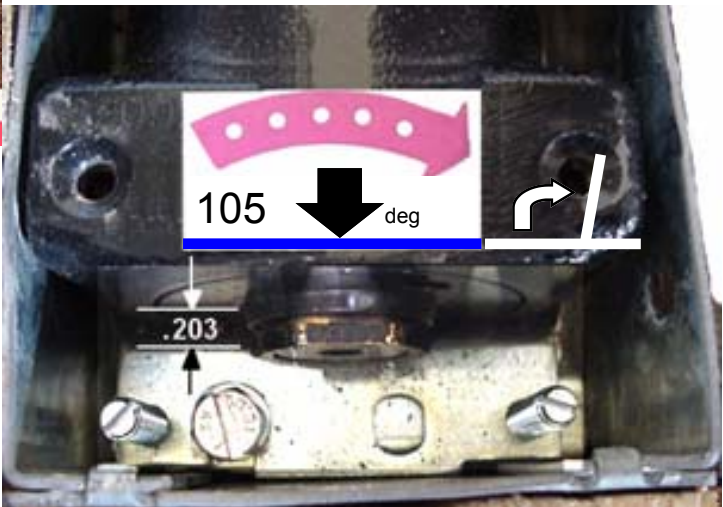


Fig. 55 "J" Valve set for 105 degree hold open



Fig. 53 Position of valve for hold open operation

To engage the hold open function of the closer, turn valve "E" clockwise approximately 5 or 6 full turns until the valve screw stops at the bottom then adjust valve "J". This valve will allow you to adjust the angle that the hold open engages. Turn valve "J" counterclockwise with a 22mm wrench approximately 6 full turns. The closer is now set for a 75 degree hold open function. Turning the valve clockwise from the 75 degree setting will change the degree of opening by 5 degrees for each full turn of valve "J".

BTS 80 Adjusting the Speed

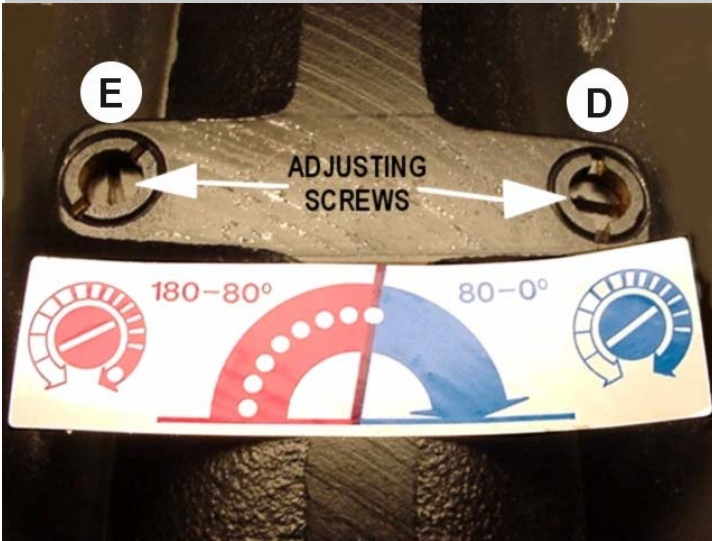


Fig. 56 Adjusting the Speed of the Door Swing uses Valve "D"



Area of details shown

Fig. 59 Location of Valve on Closer

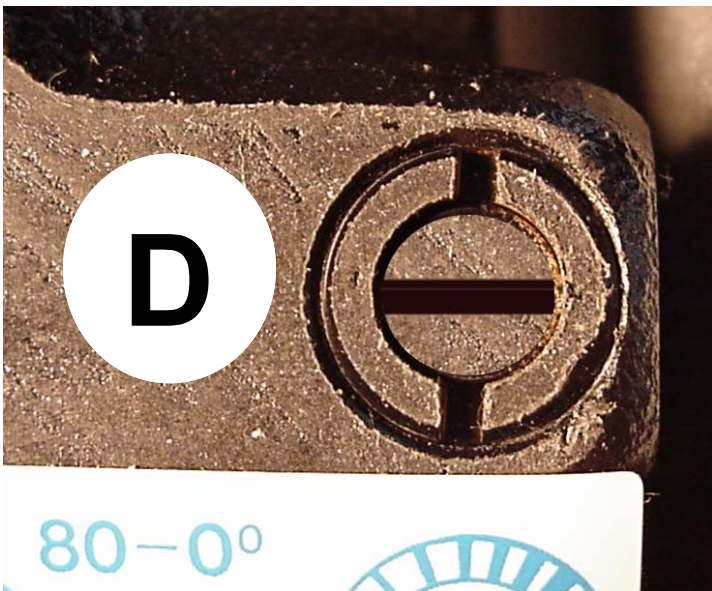


Fig. 57 Valve D in Neutral or "OUT" Position

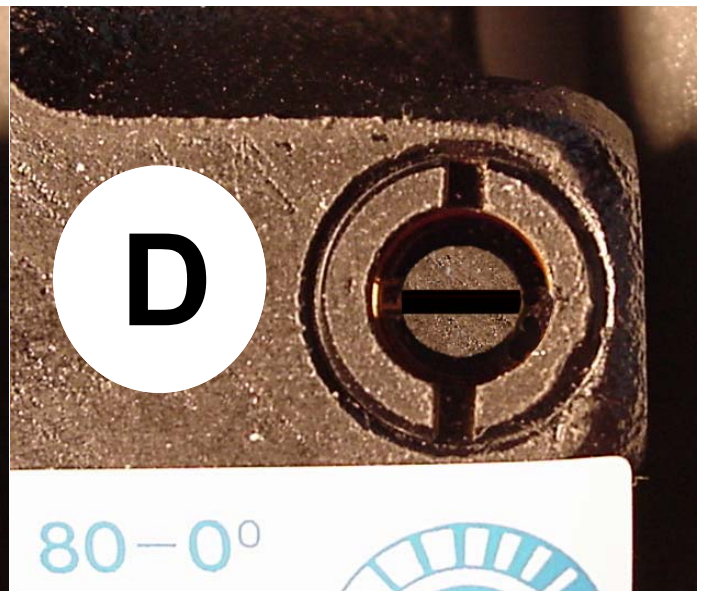


Fig. 58 Valve D in Engaged or "IN" Position

Valve "D" controls the speed that the door swings through its arc to the neutral position. When Valve is screwed in to the position shown in fig. 58 (1 full turn counter clockwise from "in" position) it will require approximately 25 seconds for the door to return to neutral position from 90 degree opening position. With valve D in "out" position as shown in fig. 57 it requires approximately 5 seconds for the door to return to the neutral position.

IN GENERAL

To increase speed door returns to neutral adjust valve counter clockwise to more approximate view in fig. 57.

To decrease speed door returns to neutral adjust valve clockwise to more approximate view in fig. 58.

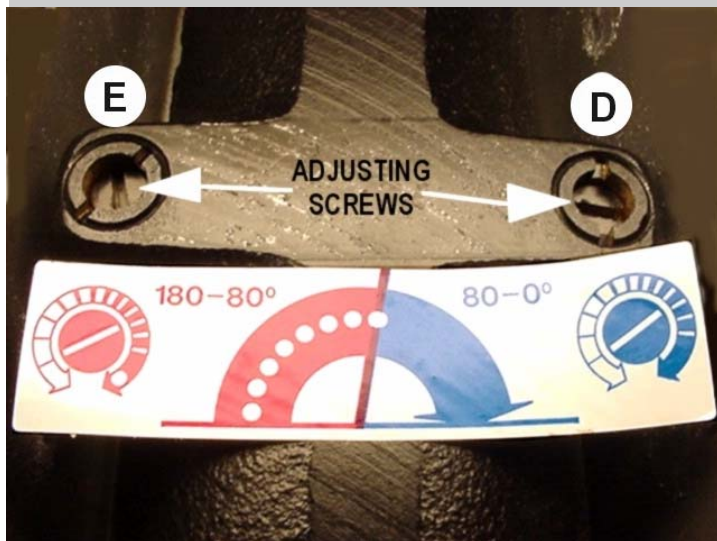
BTS 80 Delayed Closing

Fig. 60 Adjusting the Delayed Closing feature uses Valve "E"



Area of details shown

Fig. 61 Location of Valve on Closer

Valve "E" also controls the delayed action movements. When the Valve is screwed in to the position shown in fig. 53 (1 full turn counter clockwise from "in position") closer will be in delayed action mode. The door will no longer stay in the open position until manually released but will be moving very slowly until the 70 degree range then it will release and close per settings on the "D" valve. Additional counter clockwise turns on Valve "E" will shorten the delay time.

BTS 80 CLOSER Last Minute Notes

1. The BTS 80 Closer cannot have both the Hold Open and the Delayed Action Closing engaged at the same time.
2. If valve "D" (speed adjustment) is turned completely to the bottom it will act as a "lock" and the door will not release from the opened position until the valve is manually backed off.
3. If a valve screw has been unscrewed to far it will release from the starting threads on the valve seat. Slight downward pressure with the blade screwdriver is required when restarting the threads.
4. All valve screws have approximately six full turns from the top to the bottom of the valve seats.

General Operation

Once the installation is complete, the partition needs to be checked for proper operation. Following the procedures outlined here will help to insure that the Modernfold Glass Wall partition operates as specified.

Safety Precautions

To insure proper and safe operation of Modernfold partitions, and to prevent damage to them, please use the following guidelines:

- Raise floorbolts before moving a panel
- Always move panels at a walking pace
- Keep hands and fingers clear of meeting edges and pivot points
- Be sure that the path of the partition on its track is clear of any obstructions

Extending the Lead Panel

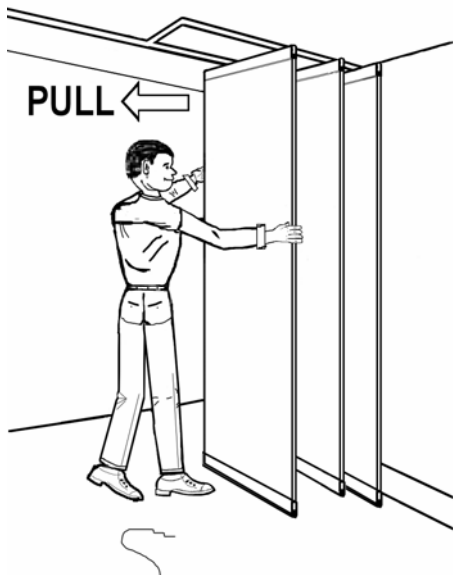


Fig. 62 Beginning to extend the panels

Move the panel across the opening until it moves the opposite wall. Move slowly to avoid damaging wall. Bottom of panel will bump base mould.

To begin extending the partition, face the stack and grasp the edges of the panel closest to you. Pull the panel forward, allowing it to follow the track configuration until both trolleys are positioned in the main track.



Fig. 63 Positioning the Lead Panel

Set Bottom Rail Locking System

Engage adjacent panels by use of interlocking floor bolts to stabilize panels from movement in all directions.

1. A minimum of one end panel will have a brass mortised lock with a cylinder and/or thumb turn operation . A round bolt will engage a dust-proof floor strike for security.
2. Closure Pivot Panels will have a keyed cylinder and thumb turn button
3. Intermediate Panels will have interconnecting floor bolts
4. Lead panels will have a cylinder with a thumb turn.



Fig. 64 Key lock Cylinder in unlock position (bolt hidden) Thumb Turn knob in unlock position Thumb Turn knob in locked position

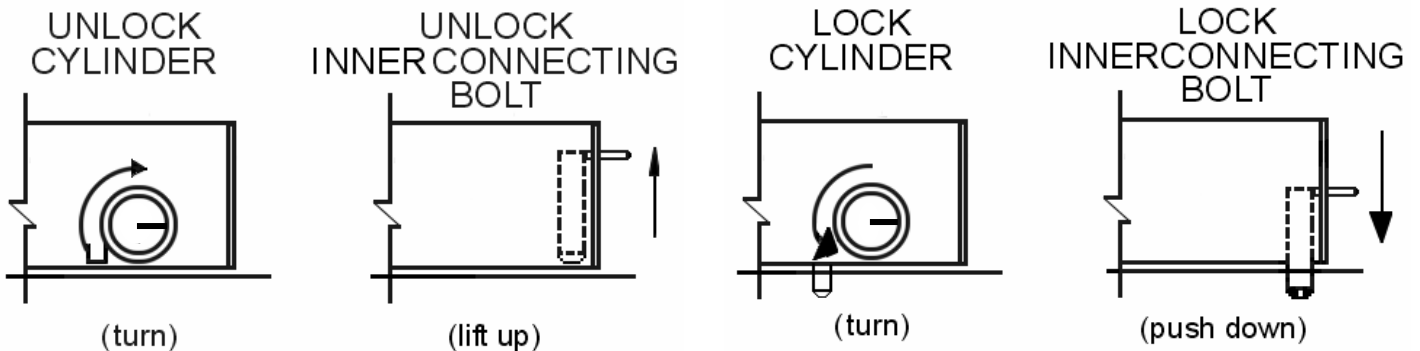


Fig. 65 How to Operate Locks When Unlocking System

Fig. 66 How to Operate Locks When locking System

After moving panel into position, engage the floor bolts. The successive panel will not be able to be set in position if the inner connecting floor bolt is not engaged.

Lock and Inner Connecting Floor Bolt Configuration

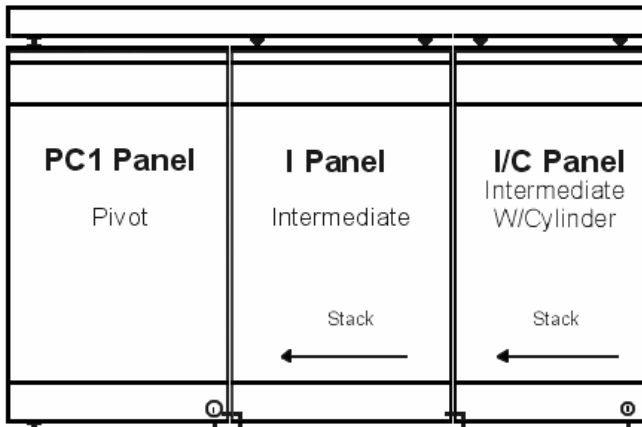


Fig. 67 Typical layout

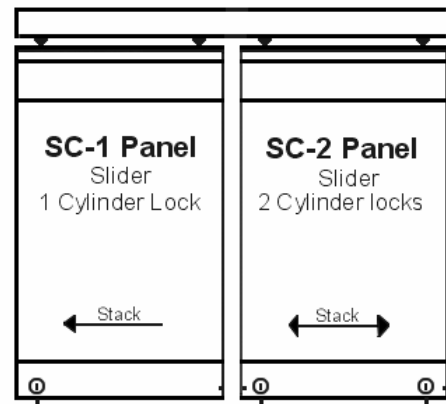


Fig. 68 Cylinder lock configuration

Extending the Remaining Panels

Continue to pull the remaining panels from the stack and push them into their proper positions. **Again, remember to move the panels at a walking pace and to be careful of hands and fingers near the panel joints.** Set the floor bolts as required, depending upon the type supplied with each panel.

Completing Final Closure

Once the partition is fully extended, you must complete the closure at the stack end of the opening. The method of closure depends upon which type has been specified for your partition.

Floor Pivot – Unlock from stack position and re-lock in open position

BTS-80 - Unlock from stack position and release. Will close automatically based on your settings.

Stacking the Partition

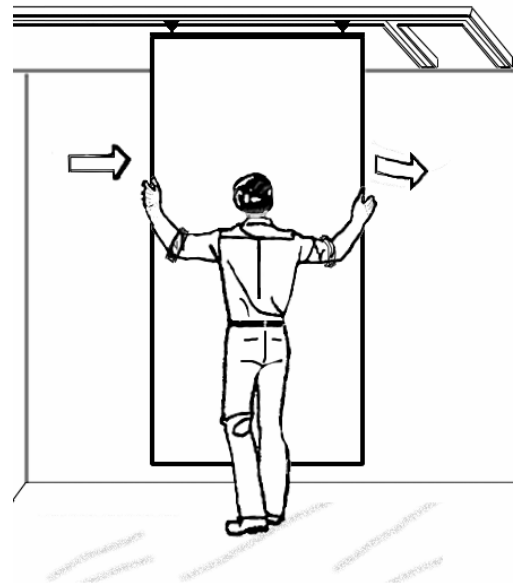
When the partition is no longer needed, it can be stacked together to reopen the space. To stack the Glass Wall series partitions, the procedure is roughly the reverse of extending the partition. **Be sure to release any floorbolts or other locking mechanisms before attempting to move any panels.**

Stacking the Panels

Once the floor seals are released and the closure is stacked, you can begin to stack the panels. Pull the panel closest to the stack away from the panel ahead of it and, *moving it at walking speed*, slide it to the stack end of the opening.

Slide the panel out of the main track and into its stack configuration.

The layout of each will determine the method you use to move the panel into the stack.



Special Note:

Stacking the partition normally requires *finesse*, rather than *force*. Each stack configuration is designed to allow the panels to flow smoothly into the stack area. Switch & curve intersections provide another level of ease in stacking the partition and require minimal effort.

Some applications require that the panels are stacked at a slight angle to the fixed wall. **Do not attempt to force the panels into a flat stack.** Also, take care not to force panels into the next panel in the stack, move each panel against the previous one in the stack, then return to the remaining panels and stack the next one.

Maintenance

By maintaining your installation after it is complete, you can keep this operation and appearance in good condition for many years.

Track Maintenance

Tracks should be cleaned yearly. Use a mop, or a rag dampened with mineral spirits, to thoroughly clean the inside surfaces of the entire track layout. After cleaning, apply a light coat of petroleum jelly (Vaseline®) to the entire surface upon which the trolleys run.

After the first and third years, check the track for proper level and re-adjust as necessary. This is particularly important on long spans, as truss deflections generally show up within the first three years.

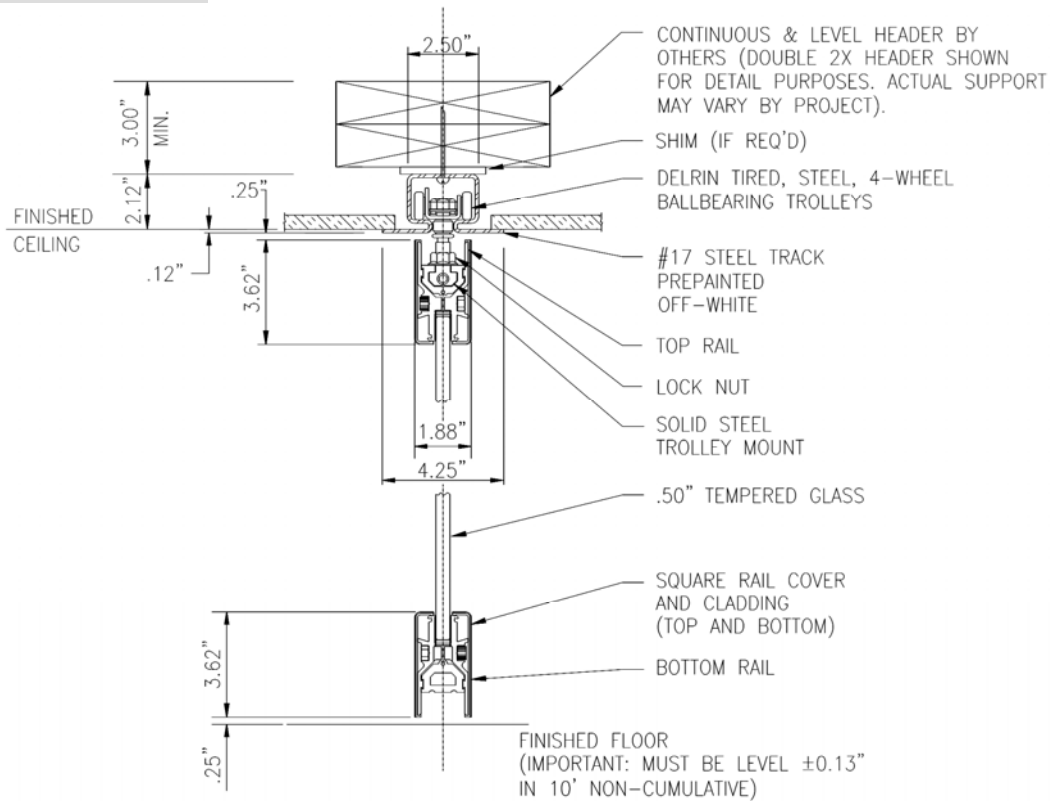
Panel Maintenance

The panels should be periodically checked for damage and repaired as necessary.

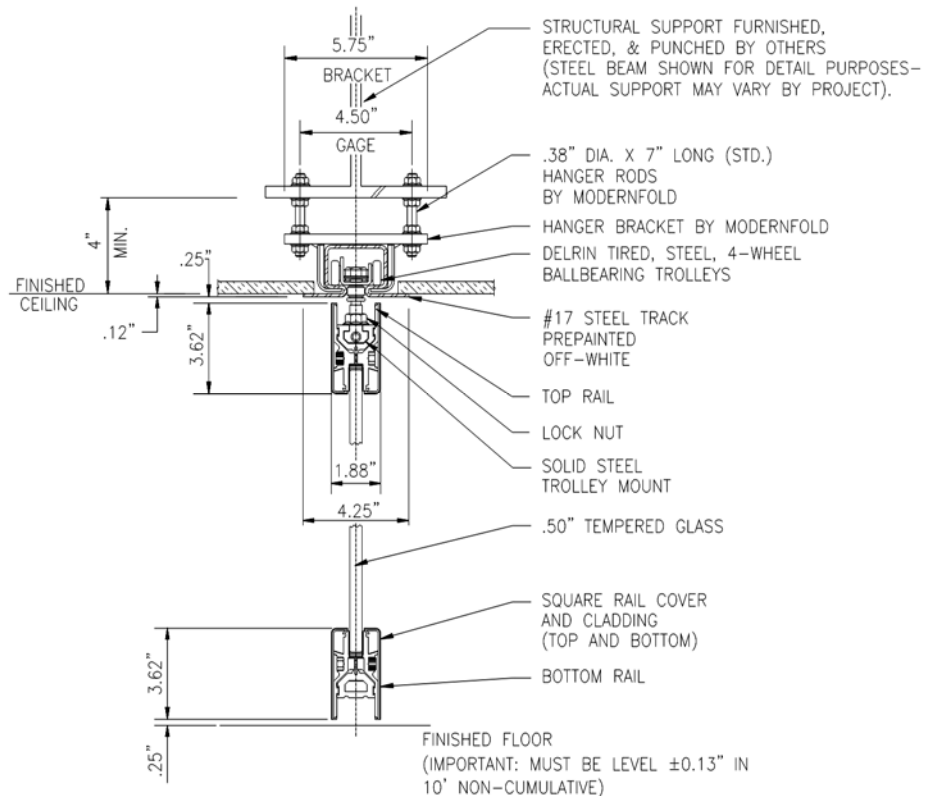
Regularly inspect all floor bolts and operate the closure. Any adjustments necessary should be made and/or any damaged or inoperable parts should be replaced.

After the first and third years of operation, panel vertical edges should be checked for plumb, and, if necessary, plumbed again by adjusting the trolleys. (This can also be a result of header deflection.) Then reset the trolley lock nut to secure the panel.

Reference Details

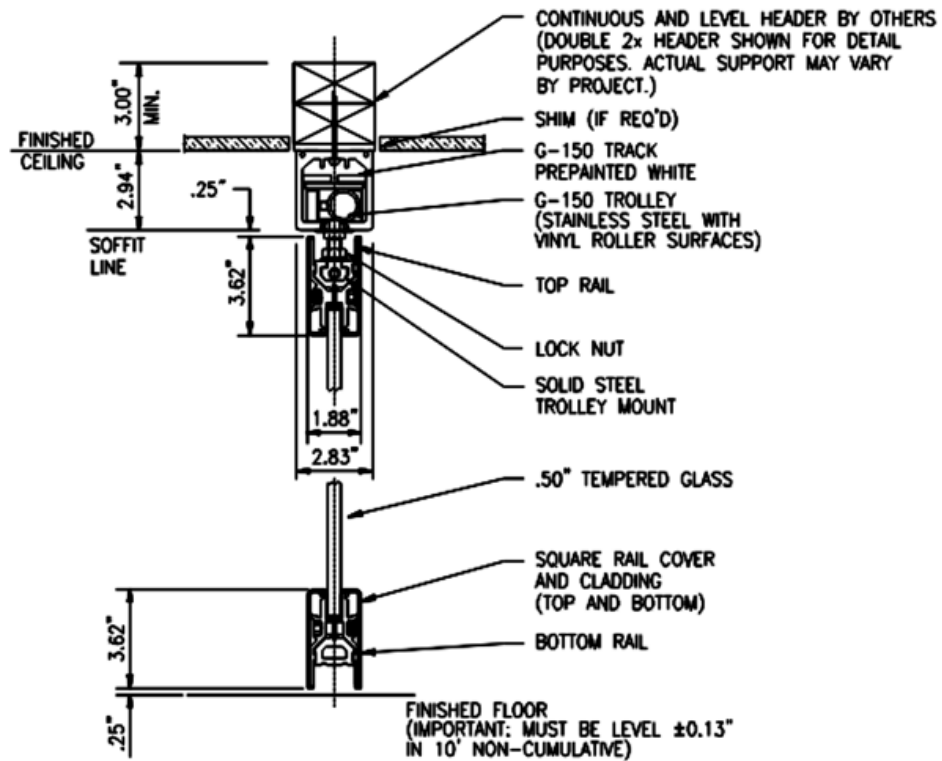


Panel Section ~ Model 362SR, #17 Track System Direct Mount

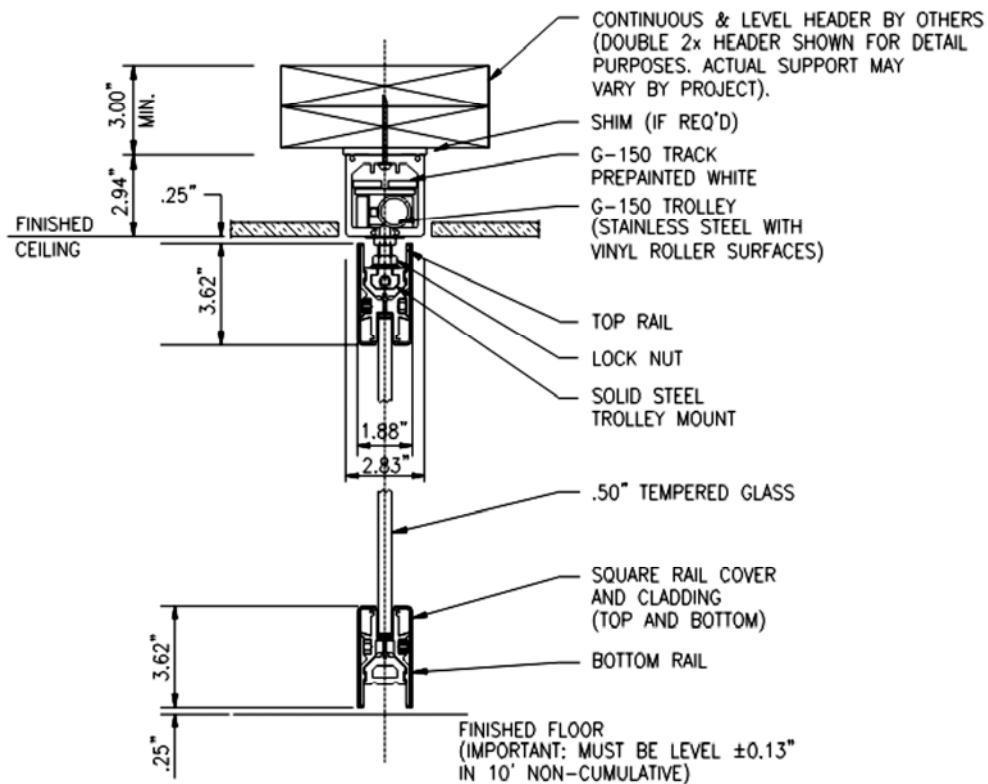


Panel Section ~ Model 362SR, #17 Track System Bracket Mount

Reference Details



Panel Section ~ Model 362SR, G150 Track System Direct Mount (Surface)



Panel Section ~ Model 362SR, G150 Track System Direct Mount (Recessed)

Quick Reference for Installer FAQ's

The following is a random list of standard reference points that you may need to refer to while installing this Glass Wall product.

1. Top gap	Top of rail to bottom of track	1/4"
2. Bottom gap	Bottom of rail to top of finished floor	1/4"
3. Panel to wall	Lead edge to wall reference	3/8" standard see drawing.
4. Panel to wall	Trail edge to wall reference	3/8" standard see drawing.
5. Edge to edge	Panel 1 lead to panel 2 trail gap	1/4"
6. Interconnecting floor bolt & Key thumb turn throw		11/16" nominal
7. Floor strike depth		1-3/8"
8. Trolley backset		2.50" standard 1.0" minimum
9. Floor pivot	without handles on PC1	2.50" + dwg ref.
10. Floor pivot	with handles on PC1	4.50" + dwg ref.
11. BTS-80	without handles on PC1	2.50" + dwg ref.
12. BTS-80	with handles on PC1	4.50" + dwg ref.

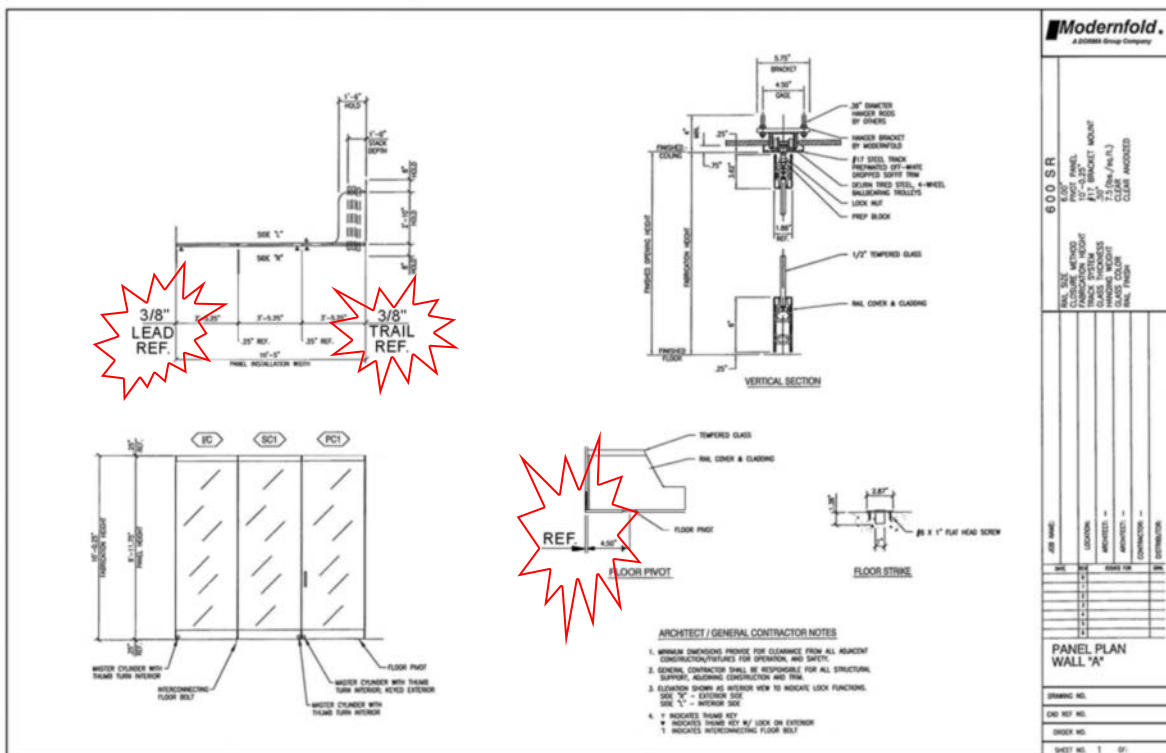


Fig. 69 Typical SHOP DRAWING with reference dimensions highlighted. These can vary from installation to installation.

Potential Hardware Items to be Installer assembled



CLOSER, BTS 80 Z
w/ adjustable hold open
300122-001

A



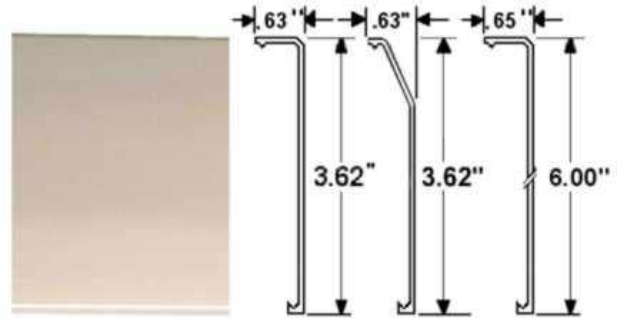
COVER, BTS 80 Z
Bottom pivot
300193-00x

"-00x" signifies a COLOR choice is available

B

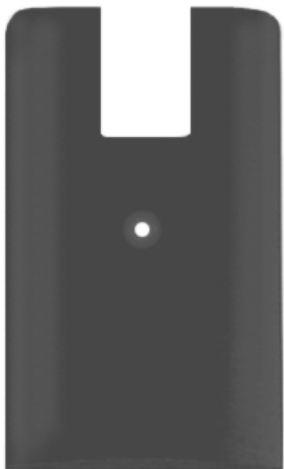
This block intentionally
left blank

C



COVER, Rail 362 SR **300204-00x**
COVER, Rail 362 TR **300205-00x**
COVER, Rail 600 SR **300206-00x**

D



END CAP
square w/o slot
362 SR
300237-001

E



END CAP
square with slot
362 SR
300238-001

F

Potential Hardware Items continued



END CAP
tapered w/o slot
362 TR

300240-001

G



END CAP
tapered with slot
362 TR

300241-00x

H



HANDLE and
PUSHBAR kit
300182-00x

I



HANDLE,
Double kit 12"
300183-00x

J



HANDLE
Single, 12"

300181-00x

K



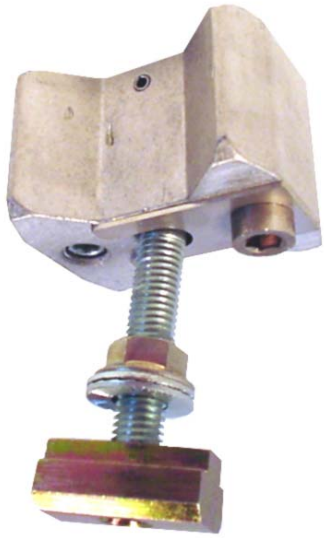
INSERT, end cap, std. **300099-001**

INSERT, end cap, w/hole **300100-001**

INSERT, end cap, w/slot **300101-001**

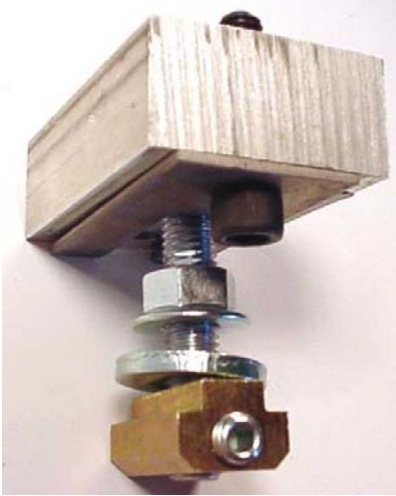
L

Potential Hardware Items continued



PIVOT TOP
G150, DRS rail
300131-002

M



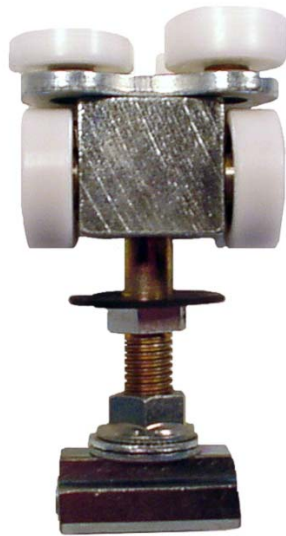
PIVOT TOP
17G DRS rail
300097-002

N



PIVOT, FLOOR
8852
300213-001

O



ROLLER CARRIER
G150 heavy duty
300136-002

P



ROLLER CARRIER
G150 standard for
90 deg "L" & "T"
Applications
300137-002

Q



SPLICE Pin
G150 track
300177-001

R

Potential Hardware Items continued

 <p>SPLICE Tab #17 track 103091-001</p> <p style="text-align: right;">S</p>	 <p>Spanner Wrench</p> <p>STRIKE dustproof PC 300214-00x</p> <p style="text-align: right;">T</p>
 <p>TRACK section G150, removable 300086-001</p> <p style="text-align: right;">U</p>	 <p>TROLLEY assembly w/delrin wheel, #17G 300034-002</p> <p style="text-align: right;">V</p>
 <p>STOP, track #17 (should be installed during installation of preliminary) 107242-001</p> <p style="text-align: right;">W</p>	 <p>STOP, track G 150 (should be installed during installation of preliminary) 300096-002</p> <p style="text-align: right;">X</p>




IDENTIFICATION FOR THE DISTRIBUTOR

ORDER # _____	LEAD
WALL: _____	➔
PANEL # _____	EDGE

THIS LABEL WITH THE APPROPRIATE NUMBERS APPLIED IS INSTALLED ON THE TOP RETAINER BETWEEN THE SWEEPS OF THE PANEL ASSEMBLY. IT CAN HELP YOU LATER, IF THIS PARTITION SHOULD EVER NEED REPAIRS.

IDENTIFICATION FOR THE END USER

	FOR SERVICE AND PREVENTATIVE MAINTENANCE CALL 1-888-FX WALLS FOR YOUR AUTHORIZED DISTRIBUTOR
JOB# _____	

THIS LABEL IS INSTALLED ON THE TRAIL EDGE OF THE #1 PANEL OF ACOUSTI-SEAL PARTITIONS. YOUR CUSTOMER CAN BE SURE MODERNFOLD IS ONLY A PHONE CALL AWAY.

Modernfold, Inc.

Toll Free: 800-869-9685
Email: info@modernfold.com

www.modernfold.com
A DORMA Group Company