



Kwik-Wall

MOVEABLE WALL SYSTEMS

For Model 2020 or 3020

PANEL INSTALLATION INSTRUCTIONS

MULTI-DIRECTIONAL Operable Wall Systems

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Effective January 1, 2001

SECTION ONE—Introduction**GENERAL NOTES**

KWIK-WALL Operable Wall Systems have been engineered and manufactured to provide for maximum ease of installation by authorized, trained and experienced KWIK-WALL distributors. Please read these installations instructions thoroughly prior to beginning.

The service department is available at all times to aid in solving customer problems. When telephoning the factory for assistance, have the order number (K-number) and the job name available to avoid delay in locating the job file. If you have solved a field problem or devised a short cut or procedure which works well for you, let us know so that we can pass the information on to other distributors. Your suggestions will be appreciated.

Warranty:

1. To exercise the warranty it is necessary to contact the factory. A concise written report must be given to the factory customer service manager.
2. No materials are to be returned to the factory until a Return Authorization is issued. The materials must be packed to guard against damage in transit.
3. Returned materials will be factory inspected and you will be advised whether the best course is to repair or replace the parts damaged.
4. Shipments returned “collect” will not be accepted.

RECEIVING INSTRUCTIONS

1. Have a camera available when receiving an Operable Wall System shipment. This will help in processing a freight claim should damage be discovered at the time of delivery.
2. Make sure that you are receiving the correct quantity of pieces as shown on the freight Bill of Lading. Remember that KWIK-WALL may have bundled pieces together as one (1) piece on the freight bill. This could result in more pieces than are shown on the freight bill. Take care in assuring that you are receiving the correct and complete materials at the time of delivery.

Damaged Shipments:

All shipments are F.O.B. factory. The factory is not responsible for materials in transit. Our responsibility for shipment ceases with the carrier’s signature of pickup. Should you receive the wall system or parts in apparent damaged condition, a claim for damage must be made within nine (9) months after delivery. If damage is of a concealed nature you must initiate a claim within fifteen (15) calendar days after delivery.

Should visual inspection, upon receipt of shipment, show damage or a shortage in number of packages, it must be noted by you on the freight bill of lading or express receipt and signed by the carrier’s agent or driver under the notation “damage” or “short shipment”. Also, take photographs for additional submittal detail. Failure to do this could result in the carrier refusing to honor your claim. The carrier will furnish you with the necessary claim forms.

KWIK-WALL WILL NOT BE RESPONSIBLE FOR LOSS OR DAMAGE WHEN YOU GIVE THE TRANSPORTATION COMPANY A CLEAN RECEIPT.

When damage or loss is not apparent until the panels are unpacked, a claim for concealed damage or loss must be entered by making a phone request confirmed by a registered letter to the carrier requesting inspection. Keep all cartons and fillers until inspection has been completed. Again, this claim must be initiated within fifteen (15) calendar days of delivery and photographs submitted.. The carrier will furnish the necessary forms.

WE ARE WILLING TO ASSIST YOU IN EVERY POSSIBLE MANNER IN COLLECTING FOR LOSS OR DAMAGE.

Errors in Shipment:

If there has been a factory error in shipment, it must be reported to KWIK-WALL within fifteen (15) calendar days from date of shipment noted on the bill of lading. KWIK-WALL's order number (K-number) and packing list should be on hand when advising us of the error. This will expedite handling and correction.

Short Shipments:

All claims for short shipments must be reported within fifteen (15) calendar days from the date of shipment noted on the bill of lading. With the exception of an acknowledged back order, all products shipped by KWIK-WALL, received and signed for by the distributor or his designee (G.C., owner, installer, etc.) will be considered as being shipped complete and in its entirety. Short shipments reported by a distributor or his designee will not be replaced on a "no-charge" basis unless the shortage can be verified. To verify a reported short shipment, the material list issued to the shipping department will be compared with a copy of the material list dated and signed by our supervisor of quality assurance. The bill of lading will be used to check the weight against what was shipped and the manufacturing records will also be used to approve or disprove a claim.

MATERIAL HANDLING GUIDELINES

It is necessary to establish a material handling and job site distribution plan prior to delivery of the operable wall system. Remember that an operable wall system crate can weigh from a few hundred pounds to well over five thousand pounds! **DO NOT ATTEMPT TO UNLOAD ANY OPERABLE WALL SYSTEM CRATE WITHOUT ADEQUATE EQUIPMENT AND PERSONNEL.** If your shipment is free from visible damage to all pieces, proceed with unloading the crates.

BACK CHARGES

Carefully read KWIK-WALL's warranty before making a claim. When you have a legitimate claim, instruct your service men to estimate labor time and charges required to correct the problem before contacting our service department. Always contact our customer service department for approval before doing actual work when you intend to seek back charges. No back charges will be honored without a detailed written request and written approval from KWIK-WALL Company.

SPARE PARTS LIST

KWIK-WALL makes every attempt to provide all necessary fasteners and hardware to complete the operable wall system installation. To minimize the frustration of hardware lost on site or in shipment, KWIK-WALL recommends the following spare parts be carried with the installer to every project site:

- 3/16" Drive Pins
- 3/8" Whiz Lock Nuts
- 3/8" x 1" Bolt
- 3/8" Square Nuts
- 3/8" Drops Rods—24" Length
- Hinge Pins
- Bondo
- Wall Covering Adhesive
- Gyp Seal
- Hinges
- Bulb Seal
- KWIK-WALL Wrench
- 425 Multi-Directional Carrier
- 850 Multi-Directional Carrier
- 425 Hinged Pair Carrier
- 850 Hinged Pair Carrier

TOOLS REQUIRED

Adequate tools and preparation will make the installation of KWIK-WALL Operable wall systems much more efficient. This tool list is meant to outline the minimum tool requirements and will also serve as a helpful reminder when preparing for an operable wall system installation.

Material Handling Equipment Installation Equipment

- 4-Wheel Dolly
- 4-Wheel Across Center Dolly
- Ladders (6', 8', 10' Scaffold Optional)
- Extension Cords (25', 50')
- 3-point self-leveling transit with Tri-Pod
- Drill Bits (assorted types and sizes)
- Torpedo Level (9")
- Bubble Level (6")
- Files (assorted types and sizes)
- Chalk Box
- Roto-Hammer with bit kit
- 12-volt battery drill motor with magnetic screw tip holder
- H.D. Hand Truck (700 lb. Capacity)
- Unloading Equipment (straps, winches, etc.)
- Hot Melt Glue Gun
- Heat Gun
- Screwdrivers (assorted types and sizes)
- Standard SAE Wrench and Socket set
- Sheet Rock Knife
- Putty Knife (1" wide blade)
- Wonder Bar
- Hammers (assorted types and sizes)
- Broom and/or Vacuum (as required for clean-up)

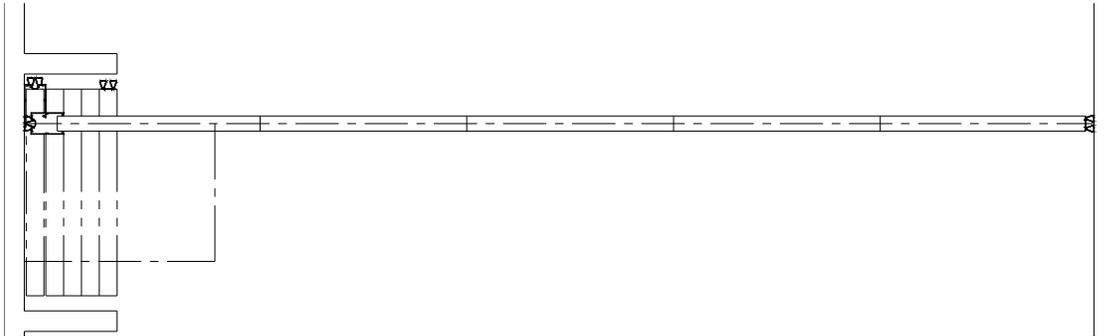
Power Tools

- Drill Motor (variable speed, 0-2500 RPM, 1/4" chuck) for high speed drilling
- Drill Motor (variable speed, 0-1200 RPM, 3/8" chuck) with mag driver for screw gun
- Sawzall
- Portaband Saw
- Chop Saw (12", with aluminum cutting blade)
- Skill Saw (as may be required for Header work)
- Chalk Box

INTRODUCTION

KWIK-WALL Multi-Directional Wall Systems consist of individual panels supported by an overhead track system. Each panel has two (2) carriers located in the top of the panel.

All KWIK-WALL panels have an "Identification Label" applied to the edge of the panel. This label contains the projects K-number, the letter designating the wall, and the panel number indicating the installation sequence in the wall. This corresponds to the information on the shop drawing.



INSPECTION of the OPENING

Do not proceed with the installation of the operable wall track system until the finished opening has been measured and inspected for accuracy, plumbness, levelness and completeness according to ASTM E557. Note any discrepancies and present them to the attention of the General Contractor, Architect, or Owner's Representative.

Check the opening against the approved shop drawings to verify fabrication height and width. Also, verify that the Header is installed in a continuous and level fashion, complete and secure to the building structure and located per the contract documents.

KWIK-WALL operable wall track systems are manufactured to fit the opening dimensions furnished to us. When a track system will not fit into an opening it is usually due to one of the following reasons:

1. Field measurement was disregarded and dimensions were taken from architectural drawings.
2. Field measurements inaccurately taken and submitted.

Take measurements at four foot (4'-0") intervals across the opening to reveal any variations in floor level. THE HEADER AND CEILING MUST BE LEVEL per ASTM E557.

INSTALL ONLY WHEN OPENING IS READY

1. Be sure the opening is constructed to exact dimensions as shown on KWIK-WALL drawings. The drawings should be approved by the contractor, owner, or architect before the track system is released for manufacturing.
2. The header must be straight and level according to ASTM E557 deflection variables.
3. The structural support must be adequate enough to support the weight of the wall system in accordance with ASTM E557 guidelines.
4. Floor must be level and smooth according to ASTM E557.

5. The opening dimensions must match those used to order the panels. Verify with shop drawings.

SECTION TWO—Standard Wall Installation Procedure

INSTALLING THE PANELS

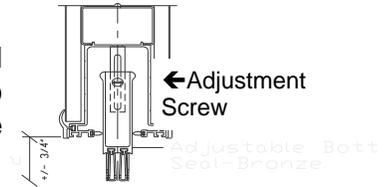
1. Remove the Escapement section of the track (noted on the shop drawing) using a 9/16" socket through the throat of the track. Also, remember to drive alignment pins out of the joints in the track.
2. Before proceeding, inspect the condition of the track to be certain that the bottom inside flanges of the track are clean and that all edges are free of burrs.
3. Double check the carrier location. The distance between carriers should match or be greater than the spacing of the legs of the track in the stack area.

Note: If the carrier is not located in the correct position:

- a. loosen the carrier
 - b. move the carrier
 - c. retighten the carrier
4. Follow the Shop Drawing to install panels in proper sequence. Note the location of the removable section and sequence accordingly. Install each panel by laying a 1" diameter dowel rod on the floor in line with the opening in the track escapement section.
 - a. Center bottom of panel on dowel rod and stand panel upright. Align the carriers, then roll the panel into the track.
 5. The carrier height dimension is nominally pre-set at the factory. Once the panels are installed, the carriers should be leveled. The correct dimension is 1 1/8".
 - a. If the panels are not level, bend sweep seal flaps down to expose pendant. The pendant is equipped with 3/4" jamb nut and 3/4" adjustment nut. You will need a 15/16" open end wrench bent at the end to accomplish this task.
 - b. Loosen jamb nut and adjust carrier height up or down by turning the 3/4" adjustment nut. Retighten jamb nut securely.

ADJUSTING BOTTOM SEALS

The bottom seal is a part of the panel itself so there is not any additional installation procedures that need to take place in order for this mechanism to function properly. However, the Final Closure panel will contain an Adjustable Bottom Seal. These panels must be in the extended position to adjust.

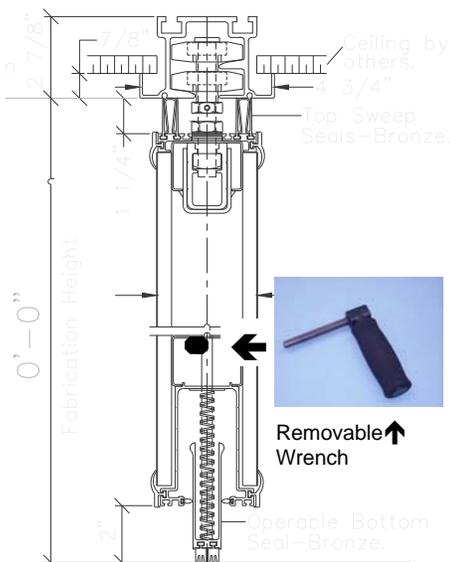


- a. Separate the Bulb Seal Fingers to expose the adjustment screw. Loosen the adjustment screw and slide the seal assembly down until it contacts the floor. The height adjustment of the seal is critical in order to prevent the seal from dragging and binding the panel. The correct dimension is 1 1/8" from the floor to the bottom of the aluminum trim.
- b. After the seal is adjusted, retighten the adjustment screws.

OPERATION: Extending the Wall System

1. Grasp the edges of the first panel on both sides while standing directly under the track centerline. The first panel exiting the stack will have Bulb Seals mounted on the lead edge.
2. Walking backwards away from the stack end, pull the panel slowly and evenly from both sides. Then move to the opposite edge of the panel.
3. Push away from the stack end until the lead panel has made sufficient contact with the permanent wall. Once in place set the bottom seal to stabilize the panel (see instructions below).
4. Each panel, except the last, is equipped with an edge-activated bottom seal that is operated using a removable wrench supplied by the manufacturer. Insert the removable wrench (see below) into the opening located in the edge of the panel. Rotate the wrench to EXTEND the Bottom seal. Continue rotating wrench until mechanism contacts a "stop".
5. Repeat the same routine until all the panels have been set up.

425c Multi-Directional Aluminum Track



Note: DO NOT ATTEMPT TO MOVE THE PANELS WITH THE OPERABLE BOTTOM SEALS TOUCHING THE FLOOR.

FINAL CLOSURE – EXPANDER PANEL

1. The final closure panel is the last panel to exit the stack area. This panel utilizes an expander mechanism that mechanically telescopes outward to create a positive contact seal with a rigid wall or jamb.
2. To extend the expander, insert the removable wrench (as shown above) into an escutcheon plate located on the face of the panel and rotate to set the Expander panel in place.
3. The bottom seals on the Final Closure panel(s) contain Adjustable Bottom Seals. These seals contain screws in each edge of the panel. Loosen the screws to adjust the seals so that they are in sufficient contact with the floor surface. Once adjusted, then tighten the screws.

Note: *Always adjust the seal as close to the extended panel position as possible.*

OPERATION: Retracting the Wall System

1. To retract the wall system, insert the removable wrench into an escutcheon plate located on the face of the panel and rotate to release the Expander mechanism.
2. Gently pull the panel until it separates from the adjacent panel. Slowly push the panel back into the stack area.
3. Disengage the Operable Bottom Seal from each panel by inserting the removable wrench into the opening located in the edge of the panel. Rotate the wrench to RETRACT the Bottom seal. Continue rotating wrench until mechanism is fully retracted into the panel.
4. Repeat the same routine until all the panels have been removed from the set up location.

Remember: *DO NOT ATTEMPT TO MOVE PANELS WITH THE OPERABLE BOTTOM SEALS TOUCHING THE FLOOR.*

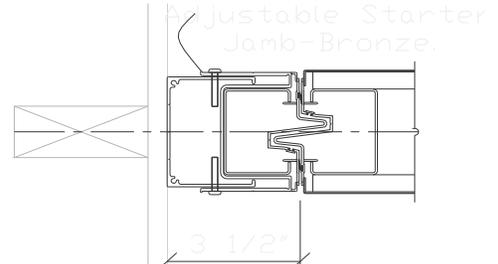
SECTION THREE—Optional Installation Features

Initial Closure Options

ADJUSTABLE STARTER JAMB

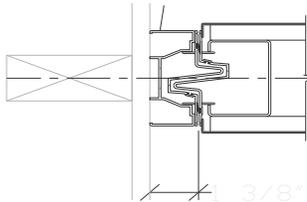
The Adjustable Starter Jamb consists of two (2) aluminum extrusions which are permanently mounted to a structural wall surface and are field-adjustable to compensate for out-of-plumb conditions of the fixed wall. The lead panel edge is equipped with a tongue-and-groove type vertical rail that will interlock with the jamb.

1. Install the jamb to a structural wall member with end labeled TOP up. The centerline of the jamb must align with the centerline of the track.
2. The top of the jamb will butt up against the bottom flange of the track. If the jamb is too tall for the opening, cut the jamb off at the BOTTOM. The jamb should be plumb along the front and side faces.



FIXED STARTER JAMB

The Fixed Starter Jamb consists of an aluminum extrusion which is permanently mounted to a structural wall surface. The lead panel edge is equipped with a tongue-and-groove type vertical rail that will interlock with the jamb.



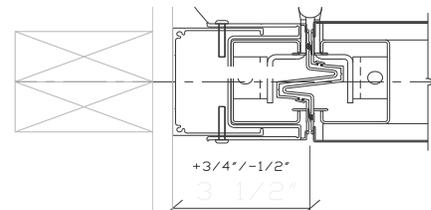
1. Install the jamb to a structural wall member with end labeled TOP up. The centerline of the jamb must align with the centerline of the track.
2. The top of the jamb will butt up against the bottom flange of the track. If the jamb is too tall for the opening, cut the jamb off at the BOTTOM. The jamb should be plumb along the front and side faces.

Final Closure Options

HINGED PANEL CLOSURE

The Hinged Panel closure consists of a panel hinged permanently and directly to a structural wall. This panel includes an adjustable bottom seal and flush pull handles.

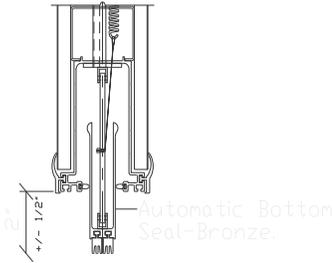
1. The Hinged Panel requires a jamb to be permanently mounted to a structural wall. Install the jamb with end labeled TOP up. The centerline of the jamb must align with the centerline of the track.
2. The top of the jamb will butt up against the bottom flange of the track. If the jamb is too tall for the opening, cut the jamb off at the BOTTOM. The jamb should be plumb along the front and side faces.
3. Once the jamb is installed, align the hinges on the communicating panel with the hinges on the wall jamb.
4. Next, insert the hinge pins.



5. Check the Adjustable Bottom sweep seals to insure that they are sufficiently contacting the floor surface. (See “Adjustable Bottom Seals” for instructions on adjusting.)

Bottom Seal Options

AUTOMATIC BOTTOM SEALS



The bottom seals will automatically drop into position without the use of a removable wrench. Each panel with an Automatic Bottom Seal will already have the bottom seal in the retracted position. When extending each panel in the wall system, carefully align the adjacent panel or permanent wall first and as you continue to push, the nose of the Automatic Bottom Seal will force that seal back and down and thus setting the seal. The Automatic Bottom Seal should now be in full contact with the permanent floor to stabilize the panel. Repeat the same routine until all of the panels have been set up.

If the wall system stacks at one end, a “Wall Protector Plate” will need to be installed on the permanent wall opposite the stack area. It is to be mounted even with the finished floor line and at the centerline of the panel.

If the wall system stacks at both ends, an “Activator / Floor Plate” will need to be installed in the middle of the opening where the two sections will meet.

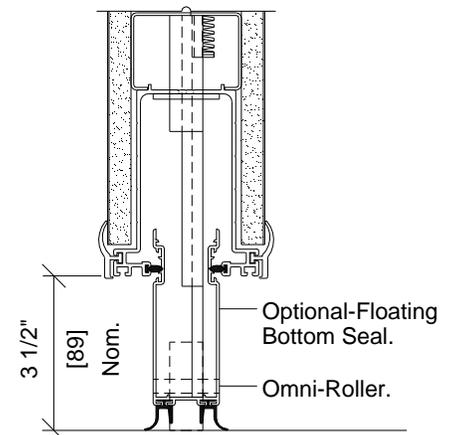
Note: Automatic Bottom Seals can operate in only one direction. Please make sure that the panels are installed properly.

FLOATING BOTTOM SEALS

Floating Bottom Seals consist of continuous-contact, vinyl sweep seals that ride on an aluminum chassis containing two (2) omni-wheel rollers that are under constant spring pressure towards the floor surface.

Once the panel is in place, there is no need to perform any additional task as the bottom seals are already set to stabilize the panel in this position. Repeat the same routine until all of the panels have been set up.

The bottom seal is a part of the panel itself so there is not any additional installation procedures that need to take place in order for this mechanism to function properly.

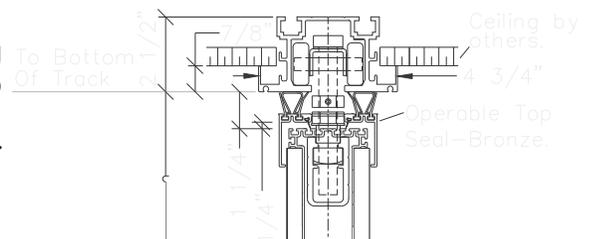


Other Panel Options

OPERABLE TOP SEALS

The Operable Top Seal consists of an edge-activated seal using a removable wrench as supplied by the manufacturer. The top seals are operated simultaneously and in conjunction with Operable Bottom Seals. (Note: See Operable Bottom Seals for additional information.)

The Top seal is a part of the panel itself so there is not any additional installation procedures that need to take place in order for this mechanism to function properly.



SINGLE or DOUBLE PASS DOOR PANEL

Pass Door panels are moved and operated in a similar manner as the Intermediate Panels. A single or double pass door panel contains two (2) operating seal mechanisms, one in each leg of the pass door panel. Pass Door should be closed anytime panel is moved. The Pass Door is a part of the panel itself so there is not any additional installation procedures that need to take place in order for this mechanism to function properly. All model 2030 single and double pass door panels contain Adjustable Bottom Seals. In order to stabilize the pass door panel, KWIK-WALL has included one surface foot bolt on each pass door leg that should interface with a strike plate mounted in the floor.



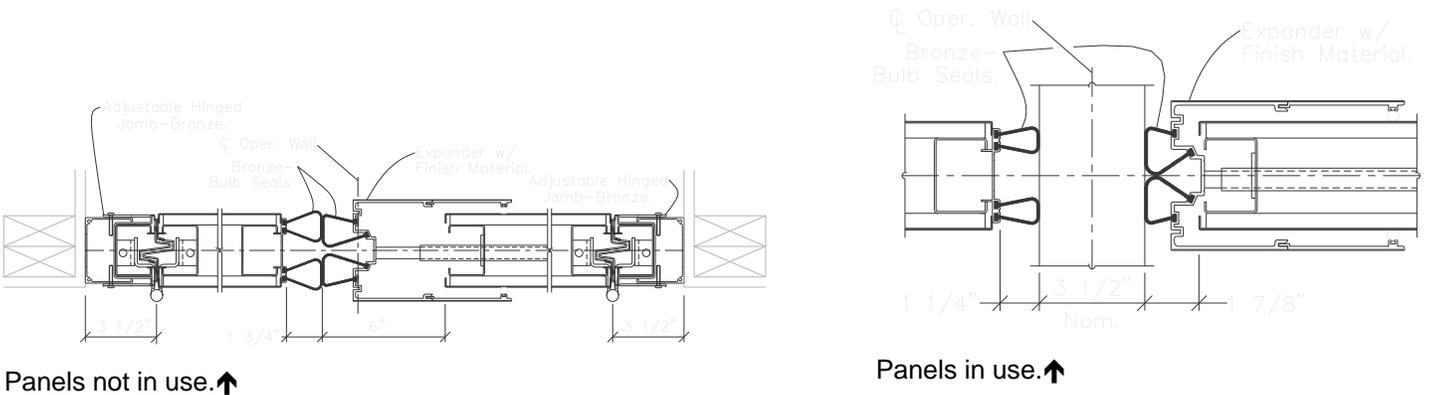
POCKET DOOR OPERATION

Pocket Doors are constructed of the same material as the operable wall panels, unless otherwise noted on the shop drawings. Pocket Doors are provided to close off the pocket area when the wall system is in the stacked or extended position. Pocket Door(s) should be handled with the same type of care as the panels. The Top and Bottom of the pocket doors contain sweep seals which aid in completing the closure of the doors.

Double Pocket Door with Expander

For wall systems that specify the last panel to extend through the pocket doors, the Pocket Doors will close and seal on each side of that last panel. Each Pocket Door panel is hinged to a wall jamb.

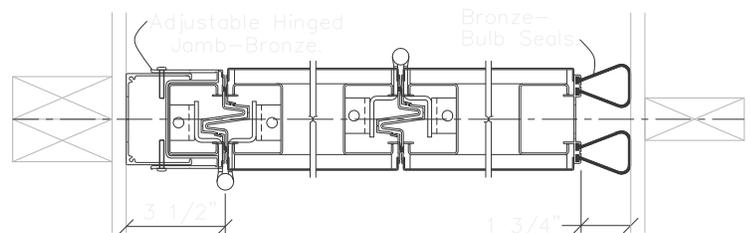
1. Install the jambs in the same manner as the Hinged Panel Closure.



Bi-Fold with Bulb Seal

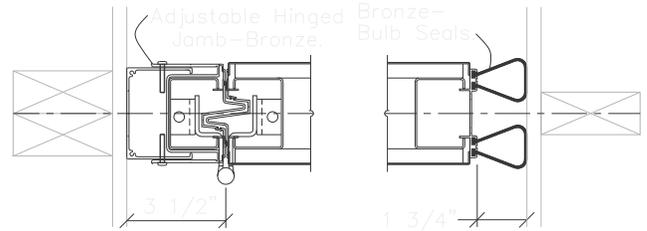
For wall systems that specify the last panel to extend to the face of the pocket doors, the Pocket Doors will be mounted on one side.

1. Install the jamb in the same manner as the Hinged Panel Closure.



Single Pocket Door with Bulb

1. Install the jamb to a structural wall member with end labeled TOP up on both sides of the pocket walls.
2. The top of the jamb will butt up against the ceiling. If the jamb is too tall for the opening, cut the jamb off at the BOTTOM. The jamb should be plumb along the front and side faces.
3. Once the jamb is installed, align the hinges on the communicating panel with the hinges on the wall jamb.
4. Next, insert the hinge pins.
5. Check the Adjustable Bottom sweep seals to insure that they are sufficiently contacting the floor surface. (See "Adjustable Bottom Seals" for instructions on adjusting.)



FINISH MATERIAL CLEANING: STANDARD VINYL and UPGRADE VINYL

KWIK-WALL's Vinyl finish materials meet and exceed G.S.A. Federal Specification CCC-W-408A and conform to the CFFA Quality Standard for Vinyl Coated Fabric Wall covering. Standard selections of vinyl have also been tested for fire hazard classification and have achieved a Class A rating in accordance to ASTM E84. In addition, these vinyl wall coverings are mildew-resistant and contain bactericidal additives to inhibit microbiological growth of *Staphylococcus aureus*, *Escherichia coli*, and *Aspergillus niger*.

Cleaning soiled areas is best accomplished as soon as possible after soiling occurs. A mild solution of warm water and a standard household non-caustic cleaner solution applied with a medium bristly brush will clean most stains. The area can be wiped dry with a clean soft cloth. *Do not* use solvent-based cleaning solutions as they may affect the color pigment of the vinyl fabric.

FINISH MATERIAL CLEANING: UPGRADE CARPET and UPGRADE FABRIC

KWIK-WALL's Upgrade Carpet and Upgrade Fabric materials consist of polyolefin yarn and fiber that is solution-dyed to assure consistent color and colorfastness. These fabric materials are anti-microbial and do not support the growth of mildew or bacteria. The polyolefin staple fibers are stain resistant and are unaffected by most chemicals, acids, alkalis, salts, and cleaning agents (including household bleach). Upgrade Carpet and Upgrade Fabric materials are Class A rated as tested in accordance with ASTM E84 Tunnel Test.

Cleaning soiled areas from these fabric surfaces is best accomplished as soon as possible after soiling occurs. A mild solution of warm water and a standard household non-caustic cleaner solution dabbed with a clean white cloth. The area may then be blotted with a clean, dry, soft cloth to absorb excess water. If you have to scrub the surface, gently work the cloth back and forth with the least amount of pressure necessary. *Do not* use a bristle brush, as it may damage the fabric nap. After cleaning, allow the material to air dry.



Operable, Moveable Glass and Accordion Wall Systems

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