MILGARD®

AX450 Pocket **Installation Instructions**

MOVING GLASS WALLS

Things to Know Before You Start

INSTALLATION PREPARATION

Multi-slide doors are custom manufactured specific to each application. Prior to installation it is important that you carefully review and understand the installation instructions and any drawings supplied. MILGARD fenestration products should only be installed by experienced and qualified installation professionals. Failure to follow these instructions may result in poor performance; including, but not limited to operation, security, and weatherproofing failures which may void MILGARD warranties.

PRODUCT HANDLING AND STORAGE

This is a finished product that must be protected before, during and after installation to prevent damage to the glass, frame finish and hardware. The flush and water barrier sill tracks are supplied with individual track protectors that should be removed prior to assembly and installation of the frames. Upon completion of the door installation, the track protectors can be selectively cut to length and re-installed to allow for specific panel operation or no panel operation. When handling door panels, they should be stored and transported upside down to avoid damage to the bottom rail extension. The components supplied will vary depending on the configuration you are installing. Before proceeding with the installation, inspect the components to become familiar with them, and confirm that there is no damage that will affect the appearance or performance of the installed product. Damaged or missing parts should be reported to your supplier immediately. If the screens are included, they will be installed in a similar fashion as the glass panels.

Door panels should be stored in a dry location that is protected from the elements. Wet packaging can cause damage to product finishes. If the packaging becomes wet immediately replace it with dry packaging.

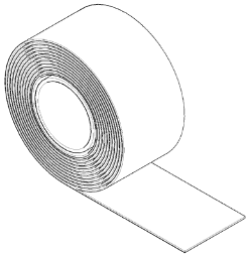
COMPONENTS

Frame components: Each door will have a head assembly and a threshold assembly. Single pocket doors will have two post interlock frame members and one or two lock jambs, two if screens are included. Double pocket doors will have four post interlock frame members, but no lock jambs. If the total frame width is greater than 336” (28’-0”) the head and threshold assemblies will be supplied in two sections to be joined during installation.

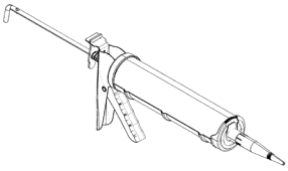
Panel components: Each door will have at least one active lead panel and one pocket panel. Double pocket doors will also have an inactive lead panel and an additional pocket panel. The active lead panel has the locking hardware and pull handles on the lead stile. The inactive lead panel of double pocket doors has dummy handles on the lead stile. Intermediate panels, if required, will have two interlock stiles. Pocket panels are the same as intermediate panels, except the interlock will be removed on the top 25% of the stile that meets the post interlock.

Things to Know Before You Start

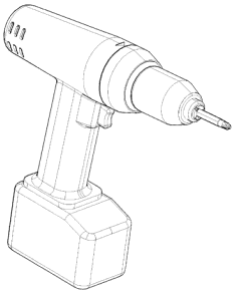
OTHER TOOLS AND PRODUCTS NECESSARY FOR INSTALLATION



FLASHING MEMBRANE



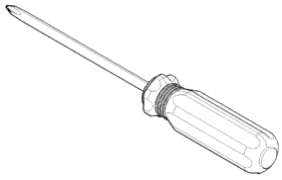
SEALANT
Compatible with flashing membrane



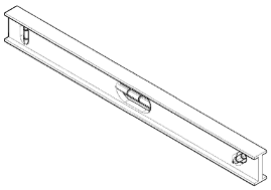
IMPACT DRIVER
With #2 Phillips bit

DRILL
With 6" long 9/64" drill bit

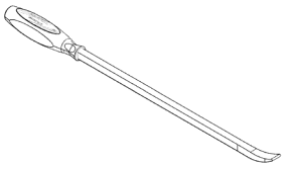
HAMMER DRILL
With ¼" bit (only required for masonry installation)



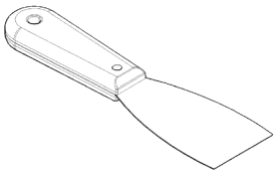
#2 PHILLIPS SCREWDRIVER



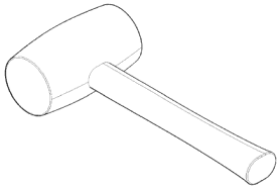
LEVELS OF VARIOUS SIZE/LASER LEVEL



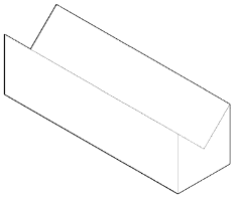
PRY BAR



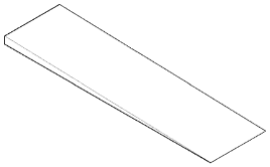
PUTTY KNIFE



DEAD BLOW RUBBER MALLET



PLASTIC BLOCK



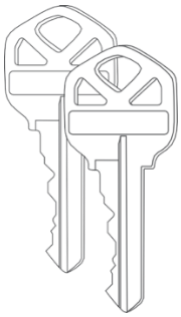
SHIMS*

*Except in circumstances where a particular shim type is specified by applicable building codes – either wedge shims or horseshoe shims may be used. Shimming must be even across the door unit. Each shim must be long enough to cover the full width of the door frame from front to back.

Things to Know Before You Start

OTHER TOOLS AND PRODUCTS NECESSARY FOR INSTALLATION

KEY OPTIONS

<table>
<tr><td rowspan="2">  </td><td colspan="2">Note: When the keyed lock option is selected for either the flush handle or premium handle set, the key location is as follows:</td></tr>
<tr><td>Flush Handle: Two keys are provided. Both keys will be bubble wrapped and inserted into the flush handle recess and secured will Tessa Tape.</td><td>Qty: 2</td></tr>
</table>

WEATHER PROOFING

Rough opening must be waterproofed in accordance with AAMA Installation Masters standards, flashing and sealant manufacturer instructions and meet all local building codes.

FRAME INSTALLATION COMPONENTS

Each door will have a head assembly and a threshold assembly. Single pocket doors will have two post interlock frame members and one or two lock jambs, two if screens are included. Double pocket doors will have four post interlock frame members, but no lock jambs. If the total frame width is greater than 336" (28'-0") the head and threshold assemblies will be supplied in two sections to be joined during installation.

Step 1 - Frame Installation

1. Refer to the shop drawings supplied and inspect the rough opening carefully to ensure it has been prepared correctly to accept the configuration and size you are installing.

2. One of the two walls forming the pocket/s, typically the interior side, must be left out until the frame installation is complete.

3. If the floor condition is wood, it must be protected with an appropriate flashing or waterproofing material prior to door frame installation.

4. Check the floor to see that it is flat and level. If the floor varies more than .0625" (1/16") per foot or a total of .25" (1/4") over the entire width of the opening, it must be corrected before proceeding with installation.

5. Determine the top inside of the threshold assembly by locating the installation holes on the weatherstrip channel of the extreme inside track. Position the threshold on the floor in the approximate location and make sure the inside edge of the threshold is properly aligned with the structure. For doors where the threshold assembly is supplied in two sections, locate and install the left half first. The left half will have an alignment tongue on the right end of the assembly. Make sure you bring the two completely together in the center.

6. Locate the drilled holes on the outside face of the threshold and position the exterior post interlock frame member/s vertically so the holes in the threshold align with the holes in the post interlock/s. Observe the space between the exterior pocket walls and the nail fin/s of the post interlock/s. For single pocket doors adjust the threshold assembly so the space between the pocket wall and the post interlock nail fin, perpendicular to the plane of the door, is equal to the space between the end of the threshold assembly and the adjacent wall where the lock jamb will be mounted. For double pocket doors adjust the threshold assembly so the space between the pocket walls and the post interlock nail fins is equal.

7. Inspect the threshold assembly where it meets the surface of the floor. Check for, and mark, any gaps that will need to be filled or shimmed prior to final anchoring. The final installation must result in the threshold being level and supported continuously for proper operation.

8. Once you are satisfied that the threshold assembly is in the correct location, carefully inspect the header above to confirm that the head assembly can be installed directly above it at the proper height. Mark the inside edge of the threshold assembly full length, and across each end sufficient to locate the inside corners. On the inside and outside, place an arrow on the floor at the midpoint between the two drilled holes where the post interlock frame member/s will attach. On single pocket doors place an arrow at the inside and outside corners of the threshold on the lock jamb side. There are installation holes in the weather-stripped channel of each track. Beginning with

the holes in the inside track, mark the floor through each hole. Remove the threshold assembly from the opening.

9. If the floor condition is concrete, drill .25" (1/4") installation holes at each marked location approximately 2" deep and insert one of the green plastic anchor plugs supplied. NOTE: If you choose to drill the installation holes through the threshold assembly in lieu of drilling them after it is removed, it is important to vacuum all the debris from the weather-stripped channel to avoid contamination of the weather-stripping and roller assemblies.

10. If the floor is wood with flashing or waterproofing, apply a generous amount of the appropriate sealant at each mark where the installation screws will penetrate the flashing.

11. Apply a .50" (1/2") wide by .50" (1/2") high bed of sealant on the floor along the exterior side of the mark, from arrow to jamb on single pocket doors or from arrow to arrow on double pocket doors. Apply additional sealant across the threshold perpendicular to the existing bed of sealant from arrow to arrow. Inspect the sealant carefully to ensure that a complete water barrier has been accomplished across the pocket opening/s, at the lock jamb and along the outside edge of the mark indicating the inside edge of the threshold. Notice the factory-applied sealant on the bottom side of the threshold between the points where the post interlock frame members will attach and at the lock jamb end. It is very important that this sealant contacts the sealant on the floor.

12. Using the marks on the floor set the threshold assembly back in place. For doors where the threshold assembly is supplied in two sections, butter the end of the extreme inside track of the left section completely before setting the right section in place. This joint must be sealed completely. Shim as required and proceed with anchoring. Use #10 X 2.5" flathead counter- sunk screws, finished to match the frame color, to anchor the inside track, and #10 X 2.5" zinc plated flathead screws in every other weather-stripped channel.

13. Inspect the opening header to confirm that it is ready to receive the door head assembly and that there is sufficient backing for anchoring. Based on the net frame height shown on the shop drawings, determine if additional material needs to be added to the header to minimize shimming. If the head assembly is supplied in two sections, you will need backing at the midpoint to support the splice.

14. Using a plumb bob, project a sufficient number of points onto the structure above to locate the head assembly directly above the threshold assembly. Carefully raise the head assembly into position and temporarily anchor using #10 X 2.5" flat head screws, finished to match the frame color, through the predrilled holes, sufficient to hold it safely. For doors where the head assembly is supplied in two sections, locate and install the left half first. The left half will have an alignment tongue on the right end of the section. Make sure you bring the two completely together in the center.

15. Install the post interlock frame member/s using the pre-drilled holes in the head and threshold. Raise or lower the head until the holes align properly. Anchor the post interlock members using #8 X .75" pan head screws.

16. On single pocket doors, seal the pre-drilled hole/s in the threshold end plate at the lock jamb side using Dow Corning 795 silicone, or equal. Raise or lower the head to align the holes in the jamb with the holes in the end plates and anchor using #12 X 3/4" flat head countersunk screws. Shim the lock jamb/s as required to ensure they will be plumb and anchor to the structure through the additional holes using #10 X 2.5" flat head screws, finished to match the frame color.

17. Complete the installation of the post interlock frame members by shimming between the nail fins and the structure as required to ensure they are plumb. Check the dimension between the inside and outside members from top to bottom to ensure that they are parallel. Anchor the members using #10 X 2.5" zinc plated flathead screws. It is critical that the post interlock frame members are plumb and square to the head and threshold, and parallel to each other, to ensure smooth

and quiet operation as the pocket panel interlock engages the post interlock.

18. Complete the anchoring of the head assembly to ensure that it is flat, level and parallel with the threshold.

19. Before panel installation, seal the vertical joint between the post interlock frame members and the face of the threshold, the horizontal joint between the post interlock and the top surface of the threshold, and the vertical joint between the post interlock and sill side plates, with Dow Corning 795 silicone, or equivalent.

PANEL INSTALLATION COMPONENTS

Panel components: Each door will have at least one active lead panel and one pocket panel. Double pocket doors will also have an inactive lead panel and an additional pocket panel. The active lead panel has the locking hardware and pull handles on the lead stile. The inactive lead panel of double pocket doors has dummy handles on the lead stile. Intermediate panels, if required, will have two interlock stiles. Pocket panels are the same as intermediate panels, except the interlock will be removed on the top 25% of the stile that meets the post interlock.

Step 2 - Panel Installation

1. Locate and remove the black foam blocks from the head channels. The blocks are approximately 1" X 1" X 1.75" and there will be one in each channel. Set them aside temporarily, they will be reinstalled when the panel installation is complete.

2. Each panel will be marked with the unit number, and a panel letter, lettered from left to right as viewed from the outside.

3. On the product label, each panel will be marked with the unit number, and lettered by position: Lead (L), Intermediate* (I), Pocket (P) panel. Note that the number or intermediate panels will vary by the configuration.

4. Locate the lead panel. If you are installing a double pocket door there will be two lead panels. The active panel, the one that contains the lock mechanism, will be installed on the right of center as viewed from the outside. From the outside of the building, with the bottom rail vinyl to the outside, lean the top of the panel in and insert it into the head track that lines up with the lock jamb and lower it onto the threshold. To avoid stripping adjustment screw, lift panel prior to roller adjustment. Using a medium size Phillips screwdriver through the middle hole at the bottom of each stile adjust the rollers to achieve a dimension of approximately .375" (3/8") from the bottom of the stile to the top surface of the threshold. Roll the panel towards the lock jamb to view the vertical gap between the panel and jamb. Make final roller adjustments so the gap is consistent from top to bottom.

5. Locate the intermediate panel/s. From the outside of the building, with the bottom rail vinyl to the outside, and the intermediate panel overlapping the lead panel, insert the top into the next head track and lower onto the threshold. Repeat the same process with the remaining intermediate panels. Temporarily adjust the rollers so that they roll freely.

6. Locate the pocket panel. The interlock has been removed on the top 25% of the panel.

7. Move the adjacent panel into a position so that the remaining opening between the edge of that panel and the pocket is approximately 18". From the outside, carefully lean the top of the panel inward and insert it up into the outside track of the head and lower it onto the threshold. Roll the panel back and forth to ensure the roller is properly positioned on the track.

8. Roll the panel towards the post interlock to view the vertical gap between the panel and the post interlock. Adjust the rollers so the gap is consistent from top to bottom and the panel is at the proper height.

9. Locate the pocket closure plate. It is a piece of flat sheet metal hemmed on each vertical edge. Roll the panel away from the pocket to allow yourself clearance to attach the closure to the trailing edge of the panel. With the two hemmed edges facing you, align the 1.50" hemmed edge of the closure with the shiny edge of the panel interlock stile. Align the bottom edge with the top of the center adjustment hole in the bottom of the interlock stile, and anchor using #8 X .50" pan head self-tapping screws approximately 10" on center.

10. Roll the panel back towards the post interlock. Using suction cups attached to the panel, lift it off the threshold and move the bottom corner closest to the pocket inward approximately .75". It may be necessary to use a putty knife to lift the rollers off the threshold, as they may drop when the panel is lifted. Slide the panel into the pocket until the panel interlock clears the post interlock. Move the bottom of the panel back towards the outside until vertical and lower onto the threshold. Roll the panel out of the pocket until it interlocks with the post interlock.

11. Make final adjustments to the intermediate panel rollers to achieve the optimum alignment throughout the entire door.

12. Adjust the strike plate on the lock jamb by loosening the two machine screws and moving it up or down until the lock engages fully when actuated. To remove excessive slack, open the sliding panel and adjust the lock using the slotted adjusting screw in the center of the lock.

13. With the door in the fully closed position, from the exterior of the building, reinstall the black foam blocks (from instruction #20) up into the head channels against the top of each interlock stile to close the void above the panel.

14. Seal the door frame to the structure as follows: Seal the interior side of the threshold to the floor from the post interlock to the lock jamb on single pocket doors, or from post interlock to post interlock on double pocket doors. Seal the exterior of the door frame at the head, jamb and post interlock members only. Do not seal the exterior of the threshold. The weep slots on the exterior of the threshold must remain open.

The door installation is complete!

MILGARD
WINDOWS and DOORS

Success means getting it right
in every detail, every time.
Build boldly with MILGARD.

milgard.com

By MITER Brands™

A family of leading window and door
brands, united by our passion for
quality and relentless pursuit of 100%.

miterbrands.com