

## ⚠ NOTICE

Read these instructions completely before attempting any installation!

## INTRODUCTION

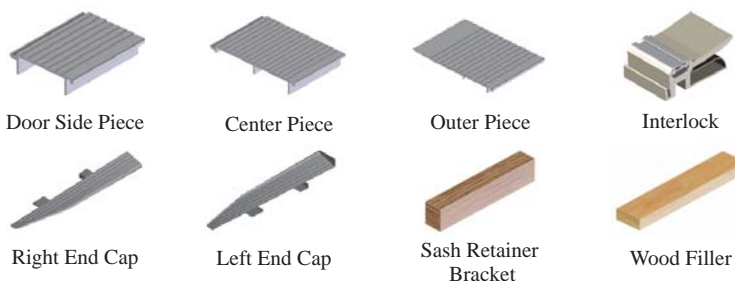
These instructions are for installing a ADA-compliant Ramp on Gardenaire sliding patio doors. These instructions assume the unit is already installed in the opening.

## ⚠ CAUTION

Proper eye and hearing protection must always be worn when installing, removing or modifying Kolbe products.

## PARTS INCLUDED

- Alum ramp, door side piece, 60" – part #5139840 (2pcs/kit)
- Alum ramp, center piece, 60" – part #5139970 (2pcs/kit)
- Alum ramp, outer piece, 60" – part #5140060 (2pcs/kit)
- Alum ramp end cap, left – part #5137000 (2pcs/kit)
- Alum ramp end cap, right – part #5137460 (2pcs/kit)
- Sash Retainer Bracket for 8-0 width door – part #2105991
- UD interlock for 6-6 (part #5130360), 6-8 (part #5129890), or 8-0 (part #5130240) ht door
- Alum ramp wood filler, 60" – part #02700AN06000MAS (2pcs/kit)
- #10 x 1" flat head sheet metal screw (6)
- #10 x 1-1/2" flat head sheet metal screw (6)
- #10 x 2" flat head sheet metal screw (6)
- #10-24 x 3/8" flat head machine screw (attach end caps to the ramp threshold) (4 - 2 bags of 2)



## ITEMS NEEDED BY INSTALLER

- Screwdriver (Standard & Phillips)
- Tape measure
- Table Saw or Die Grinder w/ cut-off wheel
- Band Saw
- Drill / Concrete drill bit (if needed)

## PREPARATION

### Removing Head Interior Stop, Sash Retainer Bracket & Active panel:

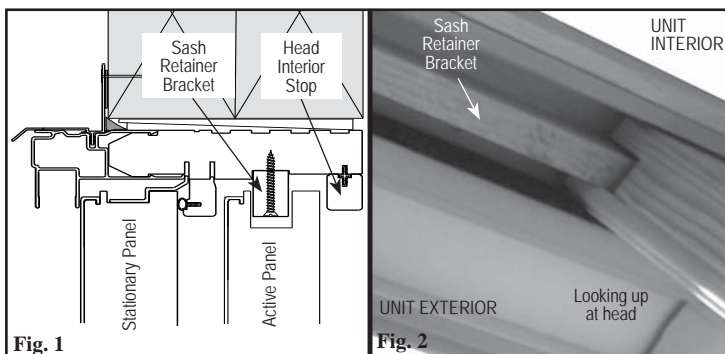
- See Fig. 1. Remove the head interior stop by gently pulling it out of the groove it is inserted in. Set it aside until later.

## ⚠ CAUTION

When the screws are removed from the sash retainer bracket the active panel could tip inward if not held in place.

- See Fig. 2. To remove the active panel you will need to also remove the sash retainer bracket. With the active panel closed use a screwdriver to remove the screws from the sash retainer

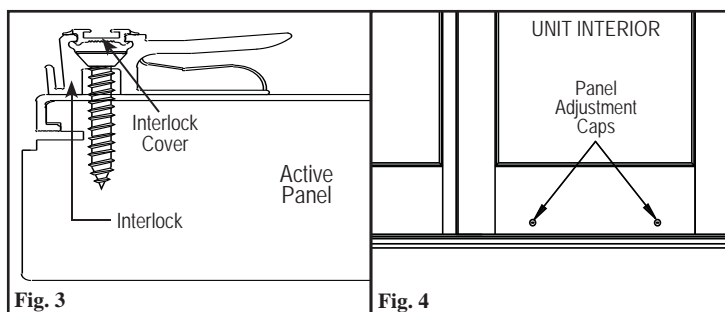
bracket on the stationary side of the door. Move the active panel over to the stationary panel side and remove the screws from the active panel side of the sash retainer bracket.



- Remove the active panel and sash retainer bracket by tilting the active panel out of the frame towards the interior of the building.
- Discard sash retainer bracket that was removed from the unit.

## ⚠ NOTICE

Because the ramps take up more space under the panel it is necessary to have a shorter interlock and thinner sash retainer bracket.



### Replacing Interlock:

- Lay the active panel on the floor so the interior is facing up.
- See Fig. 3. Remove the panel interlock cover. Next, remove the screws that hold the interlock on the panel and then remove the interlock from the active panel.
- Place the new interlock in the same place from the bottom of the panel as the old one. Re-apply the screws and the panel interlock cover.
- Discard the interlock removed from the unit.

### Re-installing the Active Panel:

- Make sure the wood side of the active panel faces the interior of the building.
- Place the new sash retainer bracket in the groove at the top of the active panel. Part will need to be cut down to proper size for unit widths smaller than 8-0. See size chart below for cut lengths.

### Sash Retainer Bracket Sizes

Unit Width	Length	Unit Width	Length
4-11	55 7/8	6-6	74 7/8
5-0	56 7/8	7-11	91 7/8
5-11	67 7/8	8-0	92 7/8
6-0	68 7/8		

- Position the active panel in front of the stationary panel, tilting the active panel slightly and resting the rollers, located in the base, on the sill roller track. The vinyl interlock should be at the left side jamb facing the exterior for a Fixed/Active unit and for a Active/Fixed unit it should be at the right side jamb facing the exterior.
- Tilt the head of the panel into place, allowing it to rest against the head parting stop.
- Slide the panel over to the active side. The vinyl interlock will now be at the center of the unit.
- Position the sash retainer bracket in the groove on the head jamb.
- Slide the sash retainer bracket over so it is flush against the stationary panel side jamb (there will be a gap on the active panel side). Re-install #10 x 1-3/4" (44mm) phillips flat head screws into the pre-drilled holes.
- Slide the panel back over to the stationary panel side and install screws in the sash retainer bracket on the active panel side.
- Re-install the wood head interior stop by pressing it into the groove closest to the interior of the unit.

#### Active Panel Adjustment:

- See Fig. 4, page 1. Remove the panel adjustment caps at the bottom of the active panel on the interior of the door.
- Using a standard head screwdriver adjust the rollers so the panel is all the way up.
- Replace the panel adjustment caps when done.

#### ⚠ NOTICE

After doing panel adjustment you may need to move the keeper on the frame up for proper locking!

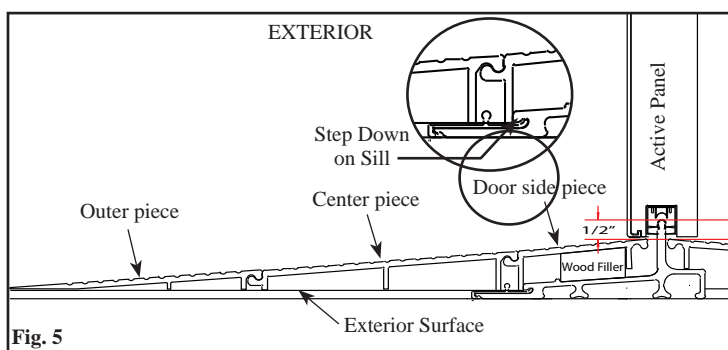
#### APPLICATION OF RAMPS

##### Exterior of Door:

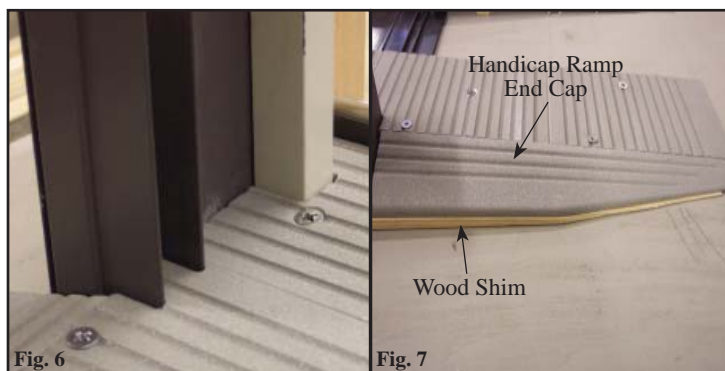
- Slide the active panel all the way open.
- See Fig. 5. The ADA-compliant ramp is made up of 3 pieces (Door side piece, center piece and outer piece) on each side of the door. Each ramp will come in a 60" piece that needs to be cut to fit the clear opening of the door.
- The door side piece needs to be placed on the sill so it is 1/2" below the top of the sill post and so the outer leg is flush to the exterior of the step down on sill as shown in Fig. 5.
- See Fig. 6. Notching the edges of the door side piece may be necessary for the ramp fit properly around the frame.

#### ⚠ NOTICE

Wood shims may be needed depending on your floor conditions.



- Place wood filler under the ramp to ensure a solid surface to fasten the ramp into as shown in Fig. 5.
- Pre-drill the floor using the counter sunk holes as a guide. (If drilling into concrete substrate use a concrete drill bit.) Screw piece in place using the #10 x 2" flat head screws provided.
- Take the center piece and attach it to the door side piece as shown in Fig. 5.
- See fig. 6. Notching the edges of the center piece may be necessary for the ramp fit properly around the frame.
- Pre-drill the floor using the counter sunk holes as a guide. (If drilling into concrete substrate use a concrete drill bit.) Screw piece in place using the #10 x 1-1/2" flat head screws provided.
- Take the outer piece and attach it to the center piece as shown in Fig. 5.



#### ⚠ NOTICE

If ramp isn't aligning properly you may need to trim the ramp legs.

- Pre-drill the floor using the counter sunk holes as a guide. (If drilling into concrete substrate use a concrete drill bit.) Screw piece in place using the #10 x 1" flat head screws provided.
- See Fig. 7. Insert ADA-compliant ramp end cap on each side of ADA-compliant ramp. If needed place wood shims under the end caps to position them flush with the ramp. Silicone around edges of shims or paint to seal wood from rotting.
- ADA-compliant ramp end caps may need to be trimmed to fit.
- Screw in place using the #10-24 x 3/8" screws provided.

##### Interior of Door

- Slide the active panel all the way open if not already open.
- Remove oak interior sill stop and set aside.

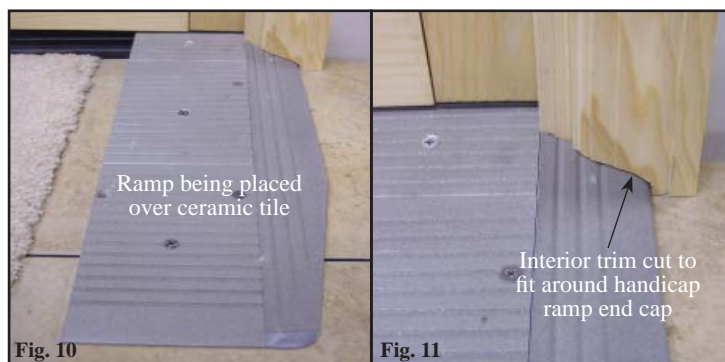
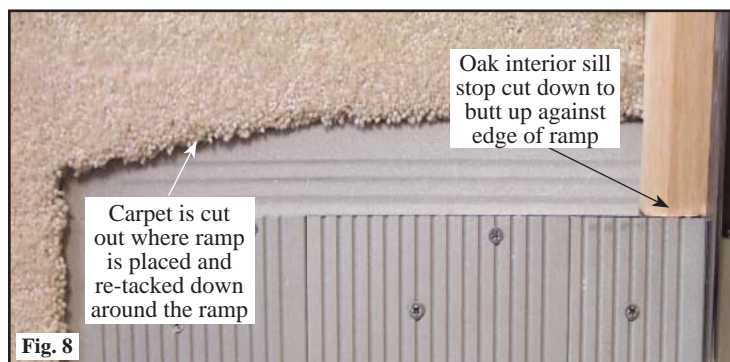
##### Determine Flooring Type

For carpet or linoleum:

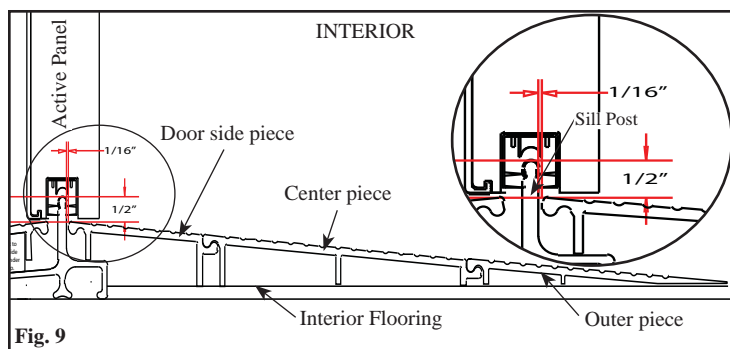
- See Fig. 8, page 3. You will need to put a 1/4" piece of plywood down where the ramp will go before installing the ramp. Carpet will need to be cut out around the ramp so the ramp sits directly on the 1/4" piece of plywood.
- Temporarily place your piece of plywood next to the sill and align the ramp and miter returns on sill in desired location. Trace outer edge of ramp assembly so you know where to cut the carpet and your piece of plywood. Remove ramp and miter returns.
- Cut piece of plywood to fit under ramp and set in place.

For ceramic tile or hardwood floor:

- See Fig. 10, page 3. The ramp will be placed directly on the ceramic tile or hardwood floor.



- See Fig. 9. The ADA-compliant ramp is made up of 3 pieces (Door side piece, center piece and outer piece) on each side of the door. Each ramp will come in a 60" piece that needs to be cut to fit the clear opening of the door.
- The door side needs to be placed so it is 1/2" below the top of the sill post and no more than 1/16" away from the sill post as shown in Fig. 9. (Must be these dimensions to meet ADA code.)



- Shim under the ramp if needed per floor condition to ensure a solid surface to fasten the ramp to.
- Pre-drill the counter sunk holes. (If drilling into concrete substrate use a concrete drill bit.) Screw piece in place using the #10 x 2" flat head screws provided.
- Take the center piece and attach it to the door side piece as shown in Fig. 9.
- Pre-drill the counter sunk holes. (If drilling into concrete substrate use a concrete drill bit.) Screw piece in place using the #10 x 1-1/2" flat head screws provided.
- Take the outer piece and attach it to the center piece as shown in Fig. 9.
- Pre-drill the counter sunk holes. (If drilling into concrete substrate use a concrete drill bit.) Screw piece in place using the #10 x 1" flat head screws provided.
- See Fig. 8. Take the oak interior sill stop and cut it down so it will butt up to edge of the ramp. Screw oak interior sill stop back in place.
- See Fig. 7, page 2. Insert ADA-compliant ramp end cap on each side of ADA-compliant ramp. ADA-compliant ramp end cap may need to be trimmed to fit.
- Trim end cap to fit up against oak interior sill stop.
- Screw in place using the #10-24 x 3/8" screws provided.
- See Fig. 11. The interior trim at the edge of the ramp end cap will need to be trimmed to fit around end cap.

Contact your Kolbe window and door supplier or visit us at [www.kolbe-kolbe.com](http://www.kolbe-kolbe.com) for further information.

THANK YOU  
FOR PURCHASING KOLBE PRODUCTS

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