

# **AIRPOCKET DOOR**

## **INSTALLATION GUIDE**

# AIRPOCKET DOOR CONTENTS

- Stainless Steel Door Frame
- 1040 Header-attached to airpocket headrail frame
- (2) 1040 Hanger brackets to attach to top of glass (with hardware)
- Flexible Tubing
- Flexible Tubing Clamps
- Flexible Tubing Elbows
- 2" Steel Straps for PVC
- Timer
- Relay
- Blower Motor (1.5 hp)
- Manifold
- 3/4" Male Adaptors attached to spine nozzles
- Glass channel 1/4" drain tube

Glass for the AirPocket Door will be provided by your preferred local glass company. We recommend 3/8" tempered glass with a protective glass coating.

*NOTE: Before beginning construction, check your local building codes with the appropriate government agencies. Some municipalities require bonding of the door, as well as other electrical requirements.*

# MATERIALS AND TOOLS NEEDED

- Schedule 40 2" PVC and fittings
- PVC glue and primer
- Teflon tape
- 2X4 wood for framing in door
- Hole Saw
- Drill
- Screws
- Pliers
- Heat Gun (if needed)
- 4X4 Electrical Box
- Electrical Wire (14/3)

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# DRAIN METHODS

There are three different types of drain installs for the AirPocket.

## OPTION 1:

A built in drain at the bottom of the AirPocket glass channel. A 1/4" factory supplied stainless drain tube will connect to the house waste system. This is the curbless drain option, and is connected in the sub floor.

## OPTION 2:

The raised threshold option. The AirPocket will sit on top of the threshold. The glass channel runs on top of the threshold and the drain is in this glass channel. The water is removed through the wet side wall of the threshold. The end of the drain tube on the threshold side wall will be grouted in etc to seal.

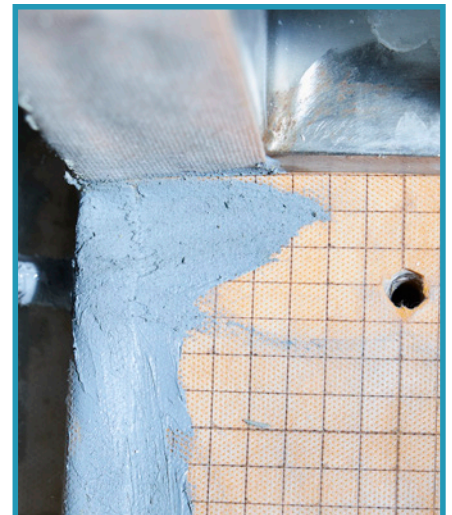
## OPTION 3:

The no glass channel drain install method. This has the wet side of the shower floor flush with the tile work. As shower water/steam hits the glass door, gravity will bring it down the glass and into the existing shower drain. The other side of the threshold can have optional raised slab material to act as a water stop and glass guide.

# CREATING THE THRESHOLD

The threshold can be as wide as desired. Airmada suggests a height of 2 to 7 inches from floor height and a width of 5 to 14 inches. (A 12-inch width is ideal.) Frame in the desired measurements. Be sure to account for finish materials when making your shower flush with the bottom of the Air Pocket. Allow for at least a 1/2" finished slot for the door to slide into. Consider the thickness of tile/slab when creating this slot. Pour cement into the threshold framing.

There are two drain methods that will affect threshold construction, a one side open drain method and a two-sided method. A two-sided method is used with doors that come with attached drain. A one side open method is used when the door does not have attached drain or when drain is cemented over, and gravity drainage is used across tile floor.



## ONE SIDE OPEN DRAIN METHOD

For the one side open drain method the cement threshold will just be on the bathroom side of the glass door. Allow room for your desired finish material.

For this method, Airmada recommends a 4-12" threshold width. Your stone piece (slab material) on the bathroom side should be at least ½" in height. This piece of stone will be laid first as close to the glass door as possible without making contact. The threshold will run from one wall to right next to the stainless of the pocket opening. See arrow below.

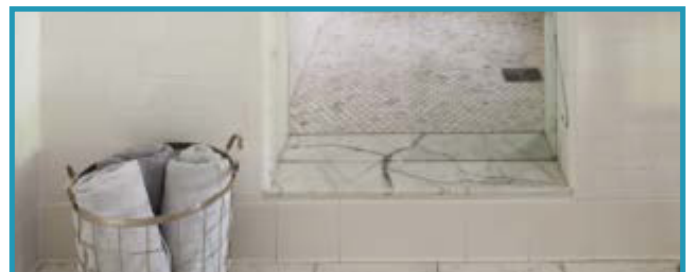


## TWO-SIDED METHOD

To ensure water stays in shower space, this is the optimal method.

The same construction guidelines apply for a two-sided threshold, except you make a full threshold that the door slides between. As a result, the total width of shower opening is generally balanced on both sides of glass. When framing, allow for 3/8-inch glass to travel in the slot, also accounting for finish materials. Small tile or stone chips look great at the bottom of the slot. Side walls of the slot can be stone from the main slabs used for opening.

This method will come with a 1/4-inch diameter stainless steel drain tube that is welded in and part of the door. It will drain down and out the wet side of the shower threshold. Once the shower's interior tiling is completed, cut the drain flush with your tile and grout in the outer edges. You can finish with tile/grout in slot to your liking.





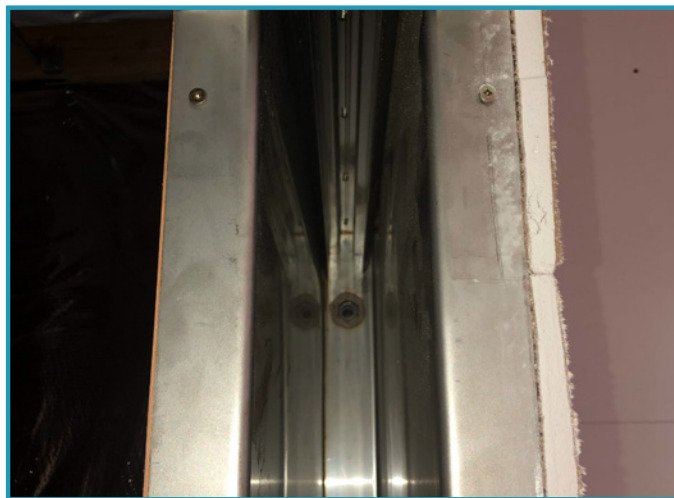
## GLASS FOR AIRPOCKET DOOR

Contact your local shower glass company for glass purchase and installation. The door should be 3/8" tempered glass. Request the notch for opening the door be cut when you place your order. The notch must be cut before tempering. We recommend a protective glass coating, which accelerates water removal from the door, and prevents watermarks and soap scum.



## FRAMING OF AIRPOCKET DOOR

Build framing using 2x4's to accommodate the Air Pocket. The AirPocket fastens into the framing with screws. There are multiple mounting points on the door. 5 inches of space will need to be allotted for behind the spine of the pocket to allow room for flexible tubing to attach to the male adaptors and the manifold (if this is desired location).



# BLOWER MOTOR

## PARTS PROVIDED:

- Motor and Wall Mount

## PARTS NEEDED:

- Screws
- Wood to Mount to Depending on Surface
- Schedule 40 2" PVC and Fittings

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- Blower can be placed up to 50 ft away from the AirPocket Door. Possible locations are: mechanical room, neighboring closet, finished attic.
  - Results are best if placed within the home for conditioned air. Air intake is located at base of blower. Area needs to be ventilated to allow motor to draw air.
  - If placed near insulation refer to local HVAC guidelines.
  - Needs to be accessible- install access panel if needed.
  - Attach blower mount in desired location. Insert blower into notch in mount.
  - Slide schedule 40 PVC into opening at the base of motor.



# MANIFOLD, PVC AND MALE ADAPTORS

## PARTS PROVIDED:

- Manifold
- 2" steel straps

## PARTS NEEDED:

- 2" SCH 40 PVC, and fittings
  - PVC glue and primer
  - Teflon tape
  - Hole saw
  - Nail plates to protect PVC
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- Mount manifold vertically behind spine of AirPocket door or in ceiling above the shower using 2" steel straps.
  - Glue schedule 40 PVC to open end of manifold.
  - Cut holes as needed in framing to run PVC through.



Teflon tape the threads of the 3/4" male adapters.

Thread the male adapters into the back side spine of the Airpocket door. There should be 6-8 holes in the spine, depending on your door size.

Thread the male adapters hand tight plus one turn.

The clear flexible tubing in kit will then attach to the male adapter on the barb side with the included double wire clamp and connect to the manifold on the other end with the double wire clamp.



# FLEXIBLE TUBING

## PARTS PROVIDED:

- Flexible Tubing
- Tubing Clamps
- Elbows

## PARTS NEEDED:

- Hole Saw
- Plumbers tape as needed
- Nail Plates to protect tubing
- Heat Gun as needed

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- 3/4 inch flexible tubing connects each port on the manifold to each male adaptor. Cut tubing length as needed.
  - Use heat gun as needed in cold weather or for stiff tubing to allow tubing to slide over barbed fittings easily.
  - Supplied clamps are used to secure tubing to male adaptor. Open clamp with pliers and slide over flexible tubing. Connect tubing to manifold port, secure with clamp. The same process is used for connecting tubing to male adaptors.
  - Use hole saw to drill holes in framing for tubing run.
  - Use elbows provided for any bends or right angles to prevent kinks in tubing.
  - For any long runs of tubing fasten to nearby 2x4 to prevent sagging.
  - Nail plates should be used to protect tubing and PVC lines.

# FLEXIBLE TUBING INSTALL



# TIMER AND RELAY

## PARTS PROVIDED:

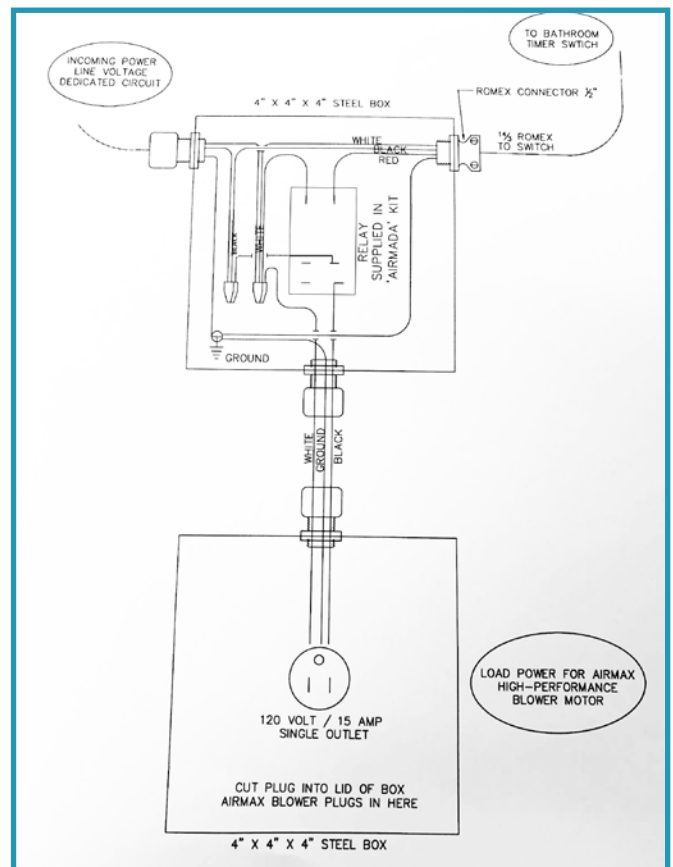
- Relay
- Timer

## PARTS NEEDED:

- 4x4 Electrical Box
- Electrical Wire - 14/3

Warning: for the following steps, airmada recommends using a qualified electrician to complete relay and timer installation. Improper installation could result in serious physical injury and/or property damage. Any installation and maintenance for electrical components must be done with the power supply turned off or disconnected. Otherwise, there is danger of electric shock, fire and or part damage.

- Install a standard 120v receptacle next to the Airmada blower motor.
- Install the supplied relay in a 4"x 4" steel box and complete wiring.
- Using the recommended relay diagram, airmada should be compatible with all major timer switches.
- Install the supplied timer switch in the desired location in the bathroom.
- Connect the timer switch to the 4"x 4" steel box using electrical wire (not included, we recommend 14/3 wire).





# CEMENT BOARDING AND WATERPROOFING BEFORE TILE

Airmada recommends using the Schluter®-KERDI waterproofing system to connect the cement board to the stainless steel. The waterproofing work on the AirPocket Door frame is like any other shower surface. The waterproofing needs to be wrapped around the corner of the pocket on the wet side of the shower and over the entirety of the pocket.

After you have waterproofed your framing, tile/stone must wait to be installed in the door frame area until the glass has been installed.



## TILE/STONE AND DRAINAGE SLOPE

The Air Pocket stainless steel sleeve is pitched toward the threshold to enhance water drainage. You will need to pitch your cement threshold back to drain toward the stainless-steel drain in the slot. The pitch must be small, though, to allow the glass to fit properly. Airmada recommends 1/16" per foot of drop.

## INSTALLING SLAB/TILE IN HEADER

Install stone/tile on Airpocket ceiling directly above in threshold (where track is) to frame the glass. Install each slab parallel to the other to frame the glass. These panels should be installed close to the glass without touching it.



## INSTALLING SLAB/TILE IN SIDE OF DOOR

(VERTICAL SIDES OF DOOR OPENING)

On the opposite side of the pocket, create a vertical slot 1/2" deep for the glass door to slide and rest into when the door is closed. This slot helps create a waterproof seal when the door is closed. Each side of the glass requires a piece of slab. Install the side closest to the bathroom first and the shower side second. Both pieces will align with the pieces on the floor and the top of the opening to create the slot for the glass.



## GLASS DOOR

Contact your local shower glass company for glass purchase and installation. The door should be 3/8" tempered glass. Request the notch for opening the door be cut when you place your order. The notch must be cut before tempering. Airmada recommends that a glass coating be used to help elongate the life of the glass and prevent water marks.



## INSTALLING STONE/TILE ON AIRPOCKET SIDE OF OPENING

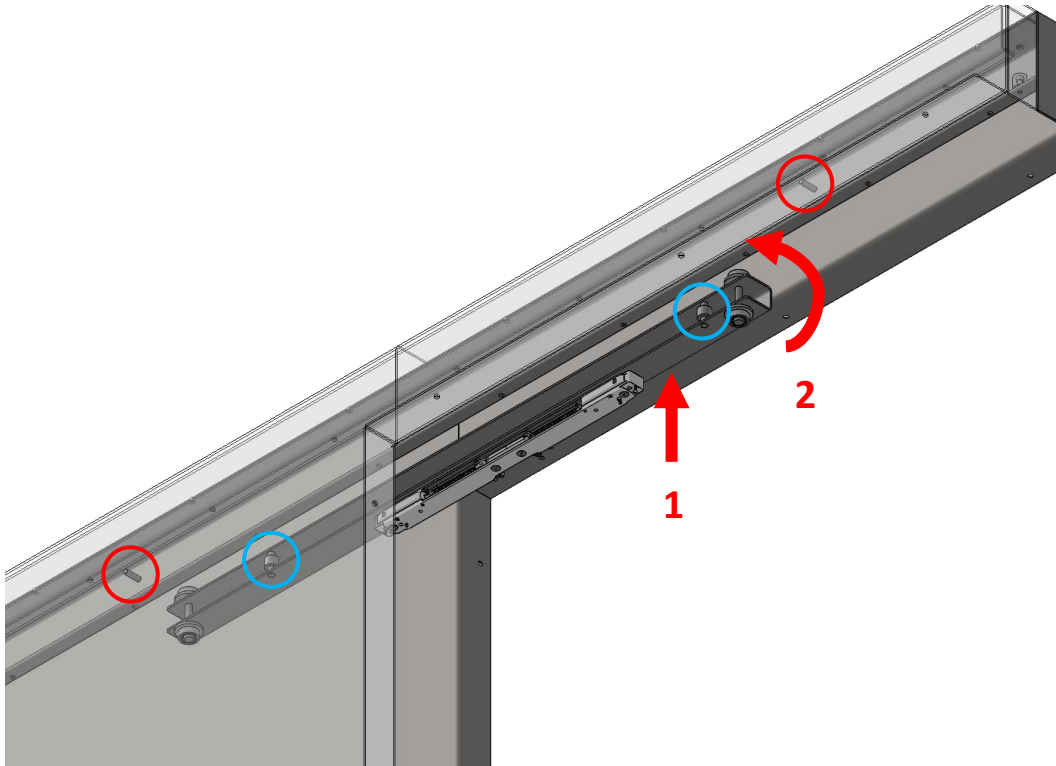
This step must be performed after the glass door is installed. Install these last two pieces vertically, one each on the bathroom side and shower side of the glass. Line them up with slot just like previous stones. Airmada recommends installing the bathroom side with silicone or several countersunk stainless steel screws and washer cups to evenly distribute the force of the screws and protect the finish. This is the easiest way to access the pocket should any maintenance need to be done.

Alternatively, grout can be used, however the stone would need to be removed and re-grouted should the door need to be serviced.



# SOFT CLOSE DOOR GLASS INSTALLATION

Take note of the location of the two metal posts located within the track of the door circled in red. Insert the door trolley vertically with the gray plastic soft-close part facing down (1). Once in the track, rotate the trolley 90 degrees so that the wheels are on the track and the gray soft-close unit is on the same side as the metal posts (2).



Hang the glass with the opening of the hanger brackets facing away from the pocket as shown. Glass hangs on the round posts circled in blue in the previous image.



## GLASS BUMPER INSTALLATION

Bumper guides can be attached with clear silicone in the lower opening of door and in the top corner of slot and can be provided by your glass company

These bumpers keep door from “chattering” against stone and making excessive noise. The small bumper also provides a cushion when the door is forcefully close

