

By law, all glass used in shower doors and enclosures must be safety glass. We recommend that you familiarize yourself with the **Characteristics of Tempered Safety Glass** as well as our **Guidelines for Handling Tempered Glass** before attempting any frameless shower door installation. We have also provided a list of **Tools You Will Need** for your install.

Characteristics of Tempered Glass

Tempered glass is created by heating regular glass to approximately 1200 degrees and then “quenching” it with cold air. This causes the outside skin of glass to immediately cool and solidify. The inside core of the glass cools slower and tries to contract or shrink in size, but it can't because the outside skin has already become rigid. This causes an internal tension to build up resulting in glass that is four times stronger than regular glass. Additionally, if a piece of tempered glass does break, it releases this trapped stress all at once and instantly shatters into many small pieces instead of breaking into large shards that could cause serious bodily injury.

These characteristics make tempered glass ideal for use in shower areas where safety is a concern, but they also create some special considerations for proper handling of tempered glass. The edges and especially corners are the most vulnerable part of tempered glass and if it is not handled correctly it could cause the tension to be released and the glass to suddenly break.

Guidelines for Handling Tempered Glass

We ship our glass with corner protectors and rapped in plastic rap. When unpacking your doors remove the plastic rap, but keep the corner protectors on the glass.

1. Wear safety glasses.
2. Always leave the corner protectors on the glass until glass is installed.
3. Don't walk the glass from corner to corner just because you have the corner protectors on.
4. Never stand the glass directly on cement, tile, metal, or on the bottom of the tub.
5. The shower glass should be at room temperature.
6. Use approved suction cups to aid in lifting and moving the glass.

Tools You Will Need

Suction Cups

Pencil

Hammer Drill for drilling tile or stone

Hacksaw

1/4" Masonry Drill Bits

File

Level

Razor Blades

Tape Measure

Caulking Gun

Screwdriver with #2 and #3 Bits

Installation Instructions for a Single Door

1. First, mount the hinges on the glass door: Remove the screws and cover plates from the hinges. Apply the supplied gaskets to both sides of the door around the hinge cutouts. Apply light pressure so they will stay in place. Now put the main body of the hinge in the glass cutout. Align the hinge in the cutout being sure that it is centered up and down, and that the edge of the plate is even with the edge of the glass. This will be your guideline to assure pivot points on both hinges match. After everything is aligned, secure the inside cover plate with the supplied machine screws. **Note: Always tighten the machine screws by hand!** It's a good idea to alternate back and forth between the two screws on a hinge, so the pressure is evenly applied to the inside cover plate. Repeat on the additional hinges. After tightening the screws, let them set for about 20 minutes to allow the gaskets to compress, then attempt to tighten them down firmly again. It's this extra amount of tightening that can help prevent slippage.
2. Place provided 9/16" shims on the curb. Position yourself on the inside of the shower with an assistant on the outside of the shower. Together, lift the door into the opening and set the bottom of the door on the shims along the center of the curb. Slowly push the top of the door into the opening. Plumb the door with a level. Using a pencil, mark the outside and inside screw holes on the jamb. Remove the door so the mounting holes can be drilled.
3. Drilling the holes in tile or stone for the mounting screws: **(a)** If you have wood studs behind the tile or stone, we still recommend that you still use the 1" plastic anchors we provide. This will protect your tile from the edge of the screws. Drill 1/4" holes through the tile/stone and thin set, but not into the wood. Put a small dab of silicone into each hole. Insert the provided plastic anchors and tap them in so they are flush with tile/stone. Set the door with hinges in place and secure with the #10 x 2" screws provided. Open the door into the shower to remove the shims from under the door. **(b)** If there is no wood support behind the tile or stone, the plastic anchors will suffice to secure the hinge bases. Drill 1/4" holes through the tile/stone and thin set to a minimum depth of 2". Apply a small dab of silicone into each hole, insert the provided plastic anchors and tap them in so they are flush with tile/stone. Set the door with hinges in place, and secure with the #10 x 2" screws provided. Open the door into the shower to remove the shims from under the door.

Installation Instructions for a Door with Fixed Panel(s)

When installing a door and panel, follow the instructions above to first mount the door. Once the door is in place:

1. Your u-channel will come from us pre-cut and mitered to fit your glass with double stick tape pre-applied, and pre-drilled with screw holes. Position the bottom u-channel in-line with the door across the curb without removing the protective backing. Mark the hole location with a pencil and remove channel. Drill 1/4" hole through the tile/stone and thin set to a minimum depth of 1". Insert the provided plastic anchor and tap it in so it is flush with tile/stone. Apply a small amount of silicone on the top of the anchor to seal the screw hole. Set the bottom u-channel in place with double stick tape after removing the protective backing from the double stick tape and secure with the #8 x 1" screw provided.
2. Place clear plastic setting blocks into bottom u-channel and set fixed glass panel and the vertical u-channel into place together without removing the protective backing from the double stick tape. Align fixed panel with door and mark location of vertical u-channel, including its hole location. Remove channel, and drill 1/4" hole through the tile/stone and thin set to a minimum depth of 1". Insert the provided plastic anchor and tap it in so it is flush with tile/stone. Apply a small amount of silicone on the top of the anchor to seal the screw hole. Set the u-channel in place with double stick tape after removing the protective backing and secure with the #8 x 1" screws provided. Additional setting blocks can be added inside bottom u-channel for best alignment of fixed panel to door.
3. Apply a small bead of silicone inside the entire length of both u-channels, between setting blocks, but not over the top of the setting blocks. Be careful not to disturb setting blocks or use too much silicone, as you don't want it to squeeze out and make a mess. Set panel into u-channel, and run a small cap bead of clear silicone around the entire perimeter of the u-channel edge where it meets the glass (both inside and out). Next, a small bead should be run where the base of the u-channel meets the tile or stone (inside and out), and at any open areas at the end of the u-channel. Do not disturb for 24 hours while silicone sets.