



Window Installation Guide

Tools & Materials

- Installation anchor straps (provided)
- Safety glasses
- Hearing protection
- Power drill with bits 1/4" and 3/8" (if installing through frame).
- Fasteners for wood or Tapcon (for through frame installation).
- Caulking/sealant
- Low expanding foam
- Flashing material
- Weather-resistant barrier
- Level
- Soft rubber hammer
- Tape measure
- Pencil
- Shims/blocks
- Putty knife

Installation

Mounting Methods

SPC Tilt N Turn can be secured to the foundation frame in two manners. The recommended installation is to use anchor straps (provided) to attach the window frame. The alternative method is to install the window by screws through the vinyl and first wall of steel.

Anchor Straps

Anchor straps should be 6" in from top and bottom of inside frame corner on the jambs. Additional straps should be installed no more than 18" apart. Strap anchors are made of durable galvanized steel and are design specifically for our windows.

The use of anchor straps allows for mounting the window frame without penetrating the framing material,

Strap anchors provide the ability to absorb building movement, offering a small amount of flexibility, providing structural integrity.

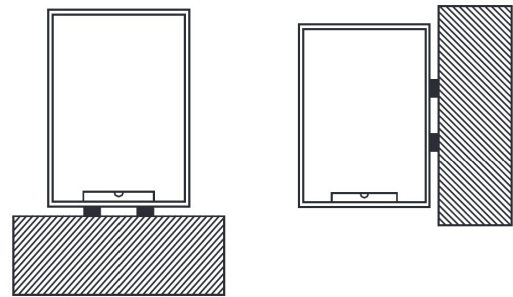
Screw Mounting

WARNING: Screwing into the frame can leave the window vulnerable to water infiltration.

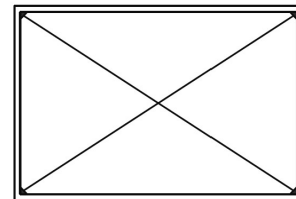
Pre-drill 3/8" holes through the vinyl and first wall of steel. When doing so, please keep in mind that there is steel inside the frame and sash. Holes should be 6" in from top and bottom of inside frame corner on the jambs. Additional holes should be drilled no more than 18" apart.

Frame Installation

- Check opening for square and plumb. Rough opening should be approximately 3/4" larger than finished window size.
- Caution: Correct installation of the proper type of flashing to the opening is critical to maintaining the weather resistant barrier. Please follow the flashing manufacturer's recommended method for flashing installation.
- Center window in opening.
- Level sill. **(This is vital to proper functioning of the unit!)** Shim sill 4 to 6 inches from each jamb. As a rule, 3/8" max shim space is allowed around the window frame.
- Plumb jambs.



- Square frames (check diagonals) by installing shims between window jambs and rough opening. Shims should be 4 to 6 inches from head and sill, at midpoint and at lock keeper locations.



- Verify unit is plumb and level



ASTM E 2112-01 Standard Practice for Installation of Exterior Windows, Doors and Skylights.

It is the responsibility of the installer and/or owner to prepare openings (barrier and flashing as required) as well as adhere to local/state/regional codes and practices.



Anchor Straps Install

Place anchor straps 6" in from top and bottom of inside frame corner on the jambs. Additional straps should be installed no more than 18" apart.

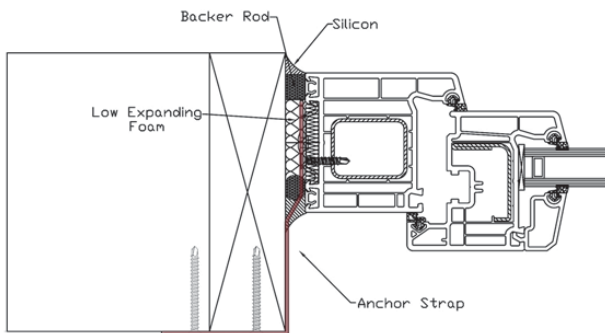
The prongs are easily inserted into the wide groove of the edge of the frame then turned clockwise 90 degrees to gently lock them into position.

Straps will face the inside of the installation and bend gently so they lie flat against the sides of the wall. Secure anchor straps to the wall with fastening screws.

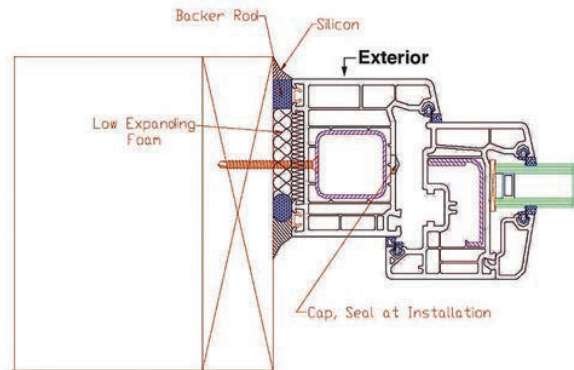
Screw Mounting Install

With holes pre-drill, anchor the units through pre-drilled holes with appropriate fasteners for rough opening conditions (4-inch minimum screws for wood, Tapcon for masonry or block).

Wood Stud

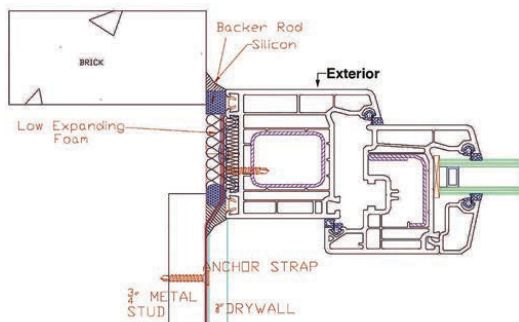


Anchor mount installation into wood stud



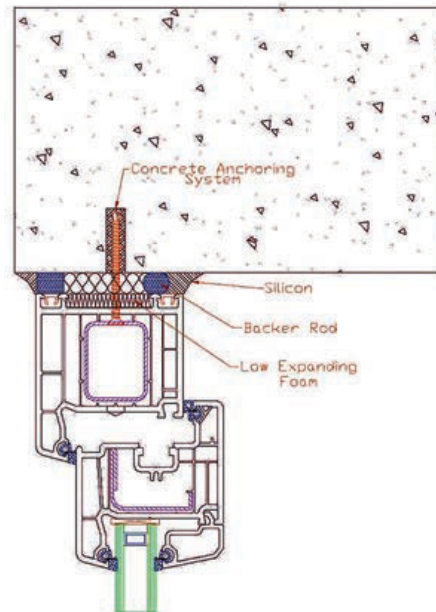
Screw mount installation into wood stud

Metal Stud



Anchor strap mount installation into concrete. Install screw mount method also can be used

Concrete Block

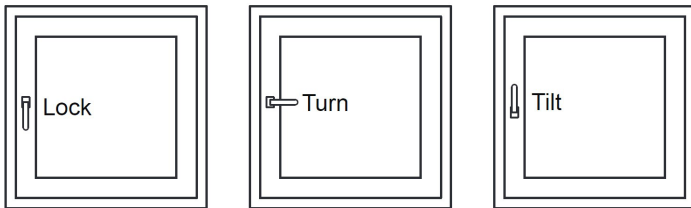


Screw mount installation into concrete. Install anchor strap method also can be used

Handle Installation

Before installing handle, test the operation. Never force handle! Excessive force can damage hardware. If installation was performed correctly, the window hardware should operate smoothly.

- Place handle in down (lock) position.
- Insert handle spindle into sash handle hole and turn handle 90° (turn position) to access screw holes. Use caution when doing this because the sash can tilt!
- Install screws. Be careful to not over tighten.
- Turn handle to lock position.



Sash Removal (If necessary)

Depending upon the size of the sash, the assistance of a second installer may be required. (Please be aware that all sash and frames are steel reinforced.)

- Remove the top beauty cap
- Push in the release and pull pin down until pin clicks at lowest point (Fig. A).
- Tilt sash towards you.
- Lift sash up and off of lower pin.
- Place sash in safe place and mark sash so it is reinstalled to the correct frame!



Fig. A

Reinstall Sash (If removed)

- Install sash onto lower hinge pin. Ensure sash is in the "Turn" position.
- Set sash into the frame, connecting the hinge (Fig. B).
- Push the pin into the hinge.
- Once pin is in place, close the window and turn the handle to the "lock" position.



Fig. B

Operate Window

- Operate the sash to make sure it operates smoothly.
- If it does not operate smoothly, check unit for plumb, level and square. Make adjustments as necessary.
- To prevent the sash from rubbing against the frame, adjust cams and hinges as required.
- Install hinge covers provided in hardware package.

Weep Holes

- Take note to not block weep holes during installation
- Weep caps are provided with accessories and must be installed in the field.

Insulate and Caulk

- Insulate around perimeter of opening.
- CAUTION: Over-insulating can affect operation of the window.
- CAUTION: Under-insulating can affect thermal performance of the window.
- Caulk around exterior perimeter of the window.
- Install weep hole covers.
- Flash as required.

