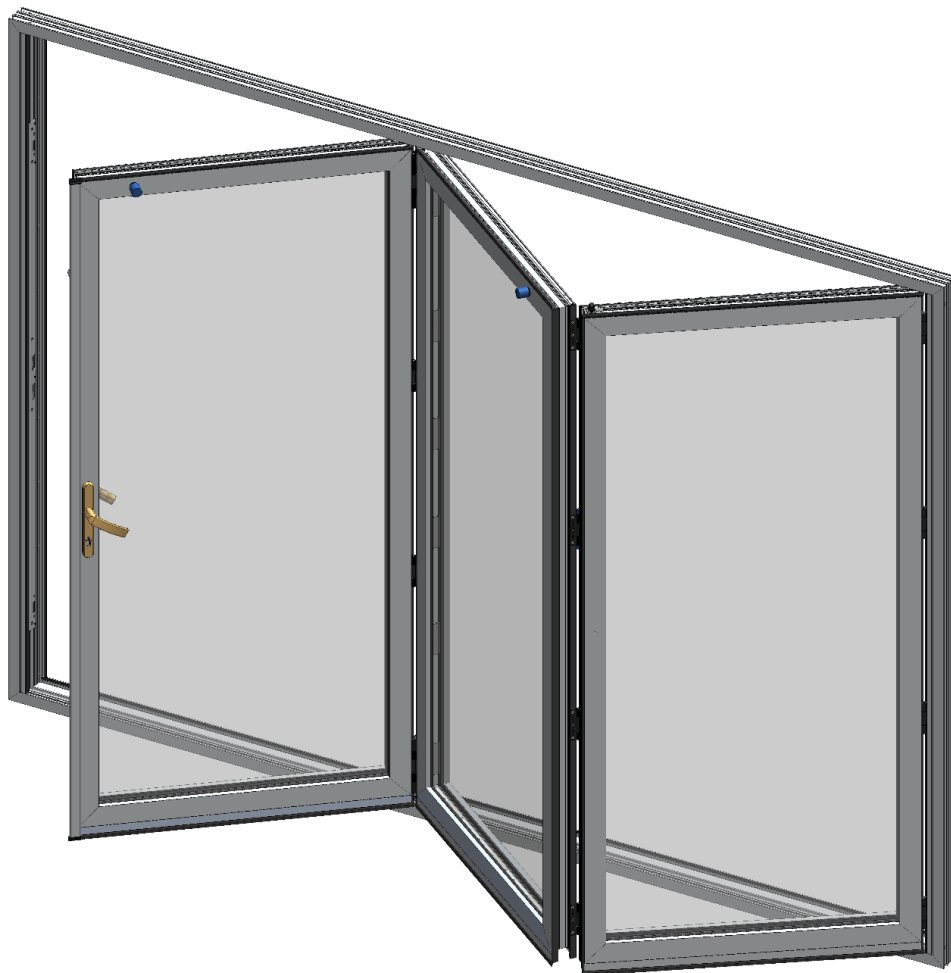


Bi-fold Door Installation Guide

(With Adjustable Jamb)



- line on each jamb of the aperture.

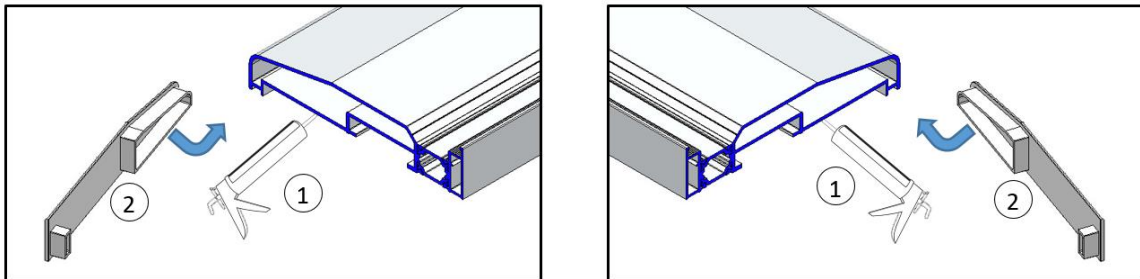
SUB SILL INSTALLATION

- The need for any sub-sill should be determined at the beginning of the project.
- The size of the sub-sill should be as such that there is an overhang of at least 25 mm from the face of the building.
- The installer should determine how the sub-sill should be fitted, taking into account features such as horns.

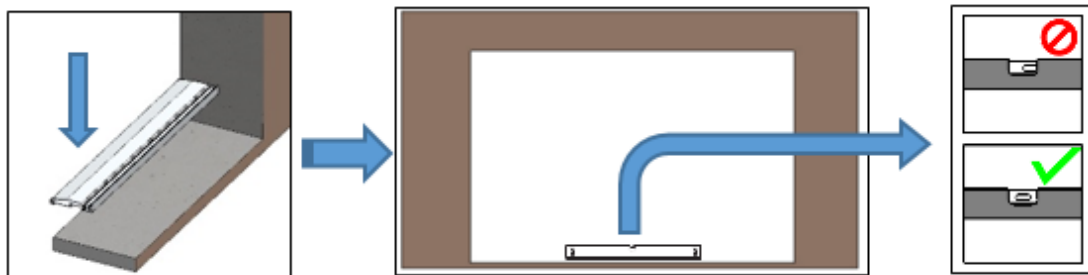
Sub sill installation

NOTE: - Check the sill for drainage slots, make sure they are clean and not blocked by any debris, clean if necessary.

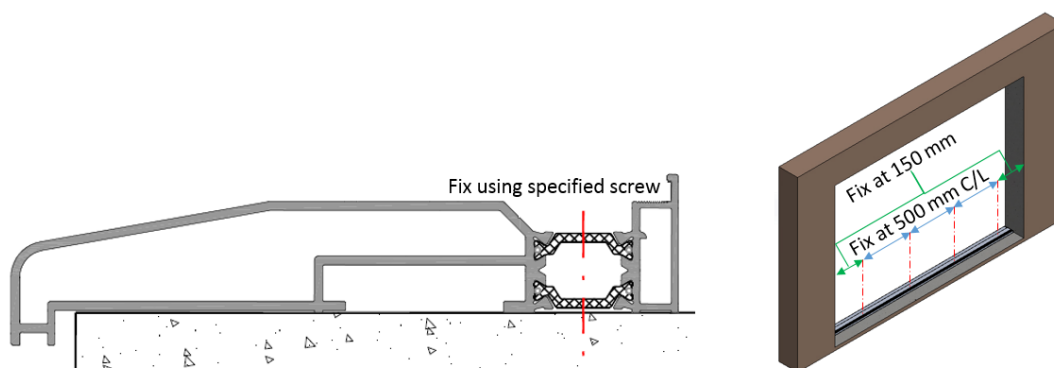
- Using low modulus silicone seal the ends of the sill section.
- Install the end caps (ref DBA1-203N) as shown below.



- Place the sub-sill on to the aperture.
- Use a spirit/laser level or a string line to assess the level of the sub-sill.
- Temporarily place the required packers under the sill, check the level and adjust if necessary



- Use specified fixings to fix the sill through the thermal break at minimum 150mm from each end, and spacing every 500mm centres.
- Fill each fixing hole with low modulus silicone before inserting the fixing.



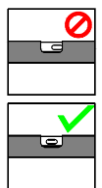
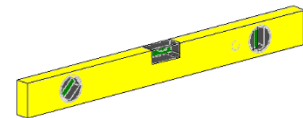
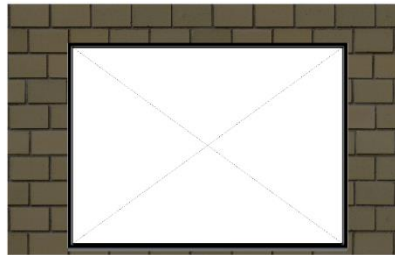
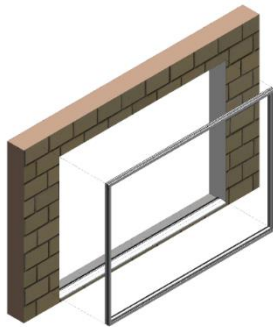
- Double check for level and adjust if necessary.



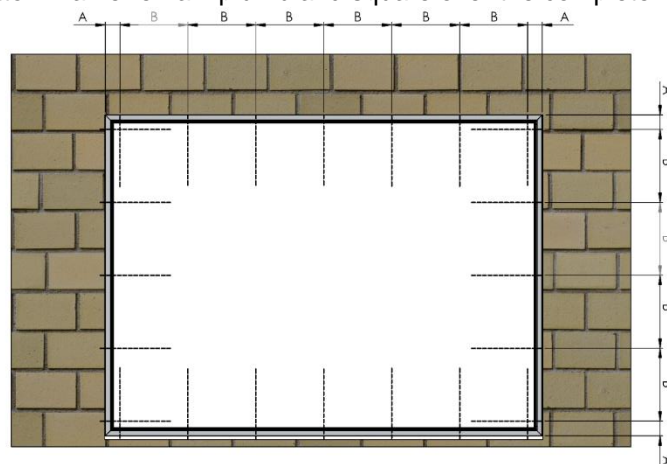
Outer frame installation

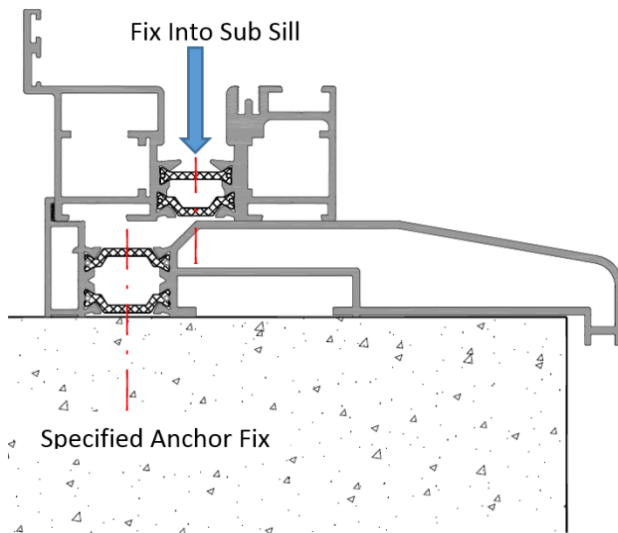
- Insert the frame into prepared structural opening and pack as necessary to ensure that the frame is held plumb and square inside the opening.

NOTE: - If sub-sill installed. Run a silicone bead along the sub-sill rebate to ensure weather tight joint.

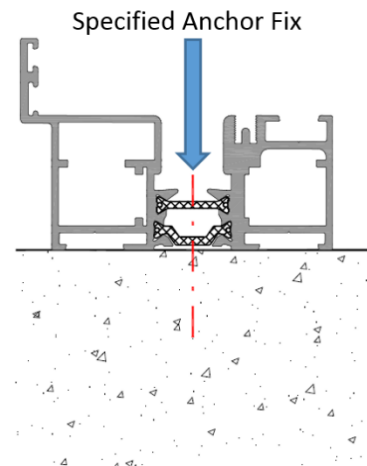


- Pack out all fixing points to ensure tight and supported fixings.
- Secure frame using suitable fixing screws and plugs.
A = Anchor distance from corner of frame approximately 150mm.
B = Anchor spacing generally at maximum 500 mm.
- Ensure the top and bottom frame remain plumb and square over the complete length.





Typical outer frame installation with sub-sill

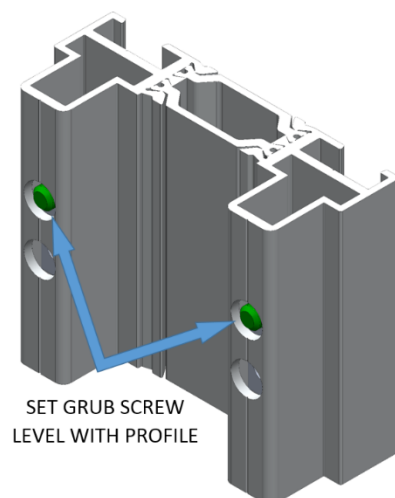
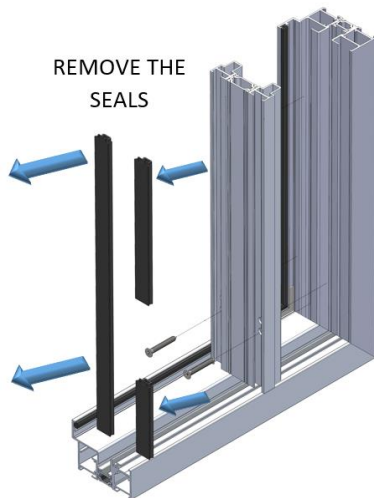


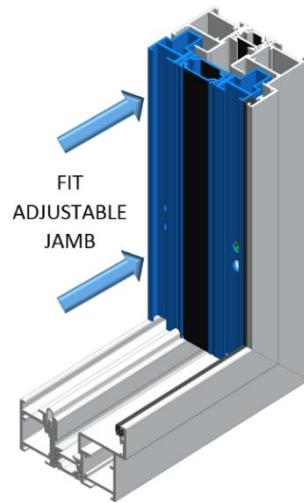
Typical outer frame installation

- Check the level and make sure that the frame is set plumb and square.
- Using low modulus silicone ensure that the perimeter is sealed against water penetration at both inside and outside of the opening.
- Clean away all debris from bottom rail, especially guide channel.

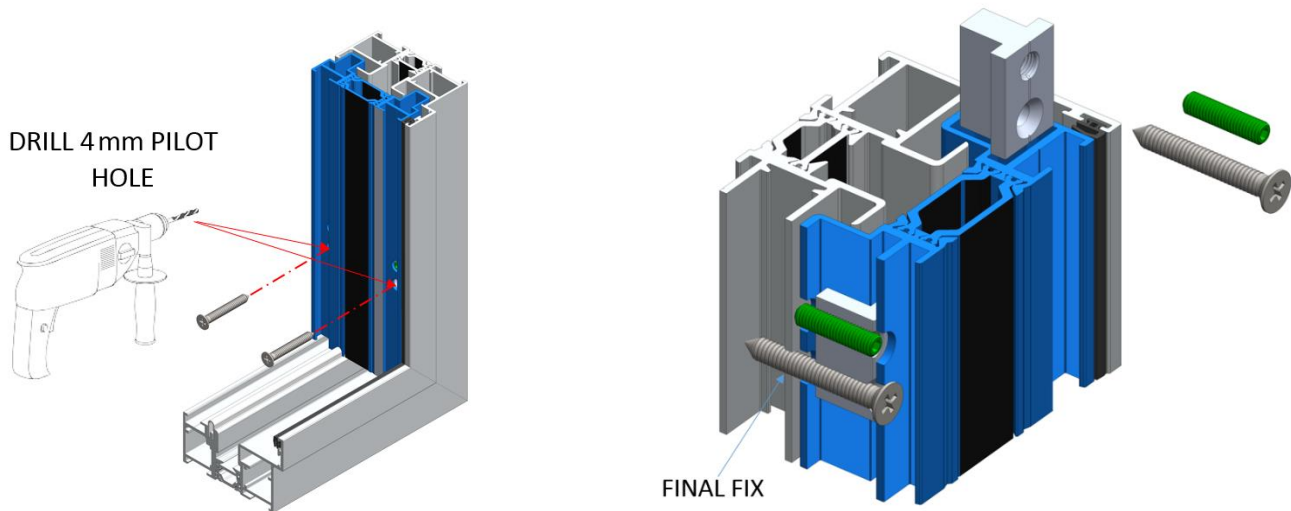
ADJUSTABLE JAMB INSTALLATION

- Remove any weather seals or rebate profiles attached to adjustable jamb.
- Set all grub screws flush with back wall of the adjustable jamb.
- Fit the adjustable jamb profile into outer frame up to the end.





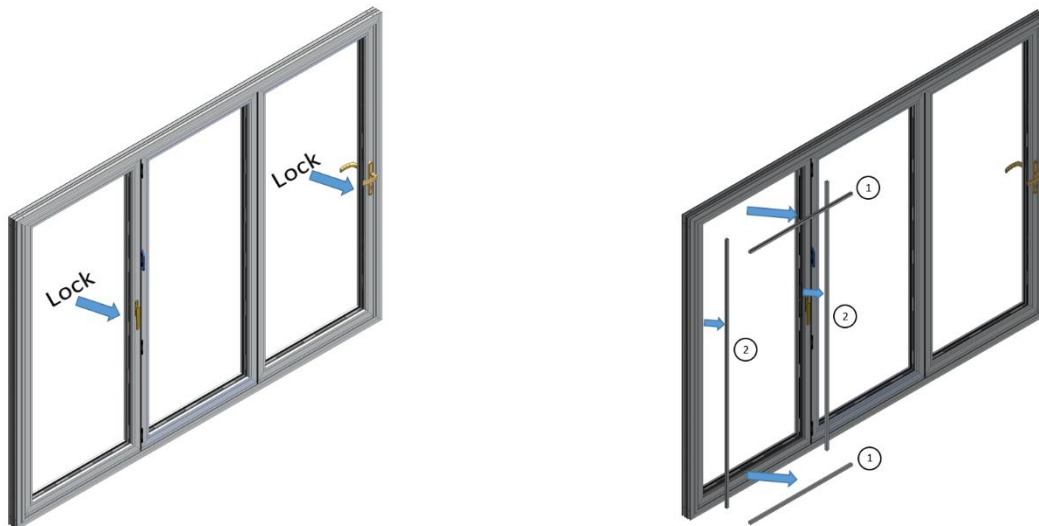
- Use factory pre-drilled holes at adjustable jamb profile and drill Ø4.0mm pilot holes in the outer frame for self-tapping fixing screws.
- Fix the adjustable jamb in place using Ø4.8 x 48mm self-tapping screw.



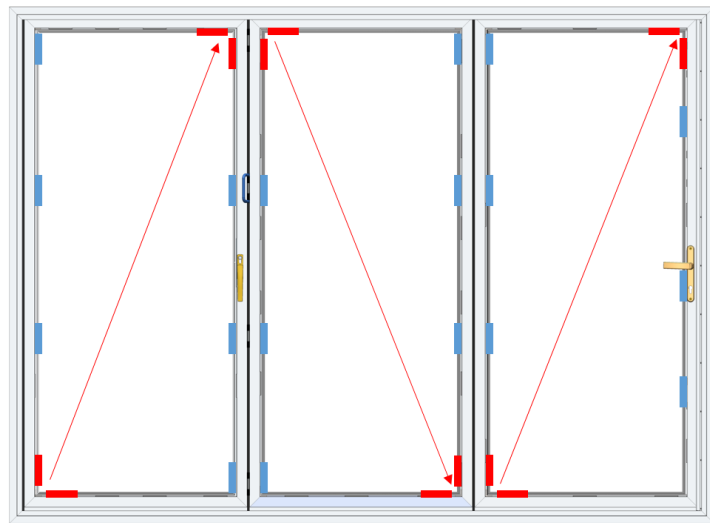
GLAZING INSTRUCTIONS

NOTE: - All glazing should conform in the requirements of BS 6262. In addition any instructions given by glass manufacturers should be followed.

- Before glazing, lock all doors panels and fully engage the locks.
- Starting from the first panel hinged to the jamb remove all beads, taking care to note where the beads are removed.



- Install the glass into the frame and pack it appropriately using various thickness glass setting blocks. Ensure to support inner and outer layers of the glass.
- All panels should be '*toe and heeled*' to maintain equal and parallel gaps between outer frame and panel at the top and bottom.
- Add silicone between each vertical set of packers to help keep them in place. Make sure that all packers do not obstruct any of the drainage or decompression holes.



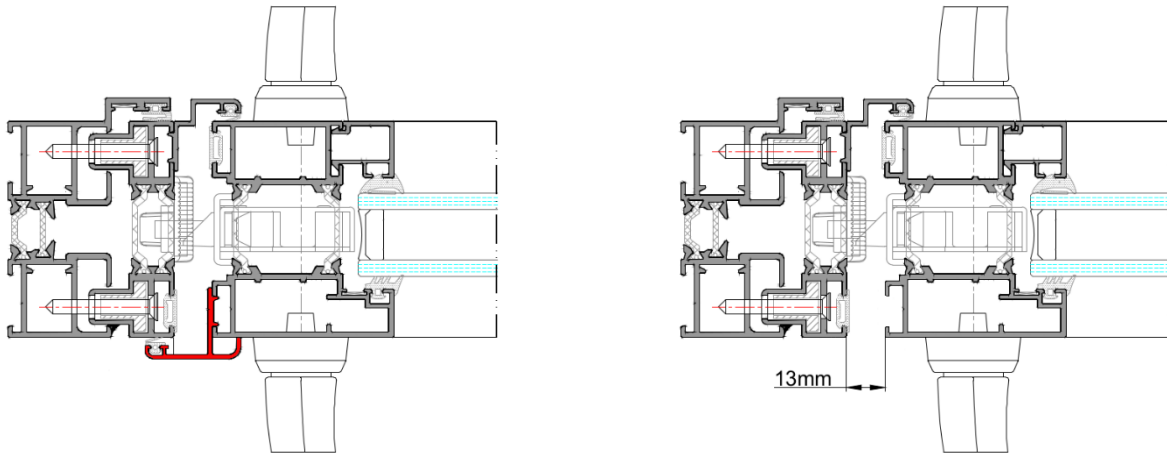
- 'Toe and Heel'. Load caring packer must be used to keep panels square and level.

- Supporting packers to prevent movement and provide rigidity to panel. Should be installed between all hardware components

- Replace beading, starting with shortest pieces first and tapping into place with a plastic mallet.
- Replace wedge gaskets into position.
- Repeat the 'toe and heeling' process for all panels, ensuring that all door gaps are equal and parallel.
- Check for door running operation and adjust if necessary.

Master door adjustment

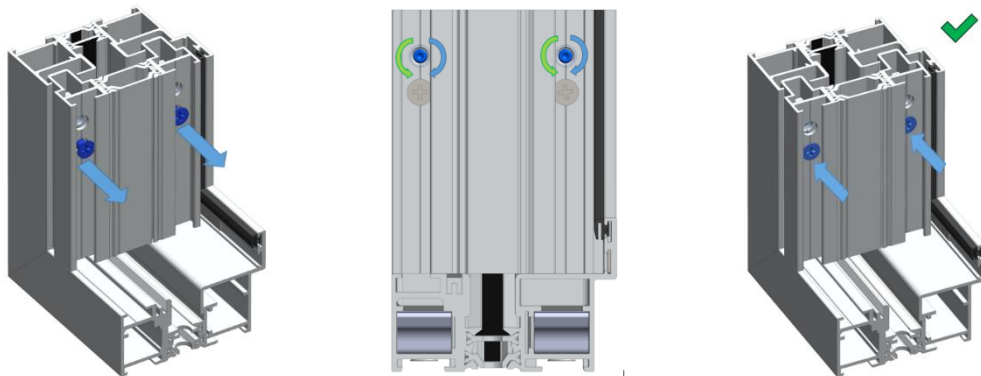
- Remove the rebate profile attached to the master door to see the gap where the lock and the keep are.
- Check the distance between the locking door and the outer frame. The distance should be 13mm.



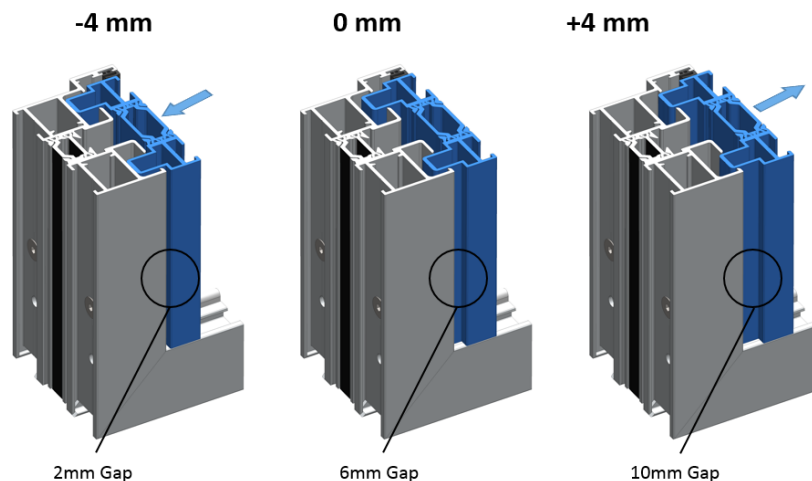
- If the lock and keep are clashing regulate the distance by adjusting adjustable jambs as shown below.
- Once the correct gap is achieved and the lock is locking perfectly fix the rebate profile back on the master door panel.
- Double check if the lock is latching properly.

Width adjustment using adjustable jambs

- To adjust the width release all bottom self-tapping screws that secures the adjustable jamb.
- Use grub screws to change the position of the adjustable jamb.
- Check the gaps to be equal and adjustable jamb is set square and level.
- After completing adjustment fix the adjustable jamb in position by securing self-tapping screws.

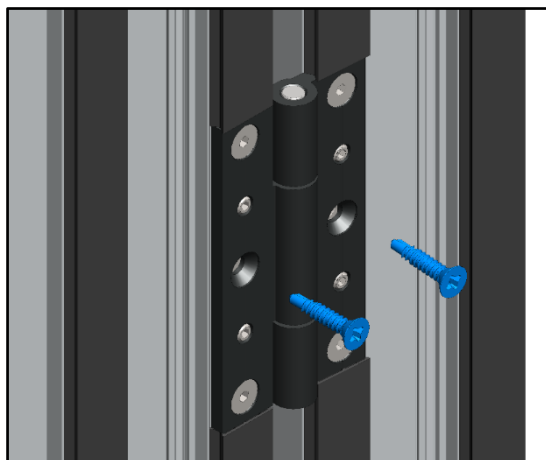


- Adjustable jamb is designed to have both positive and negative adjustment as shown below.



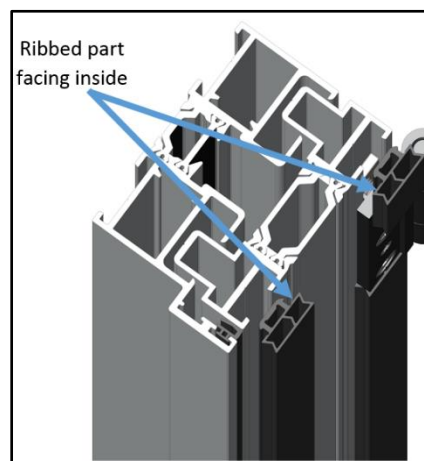
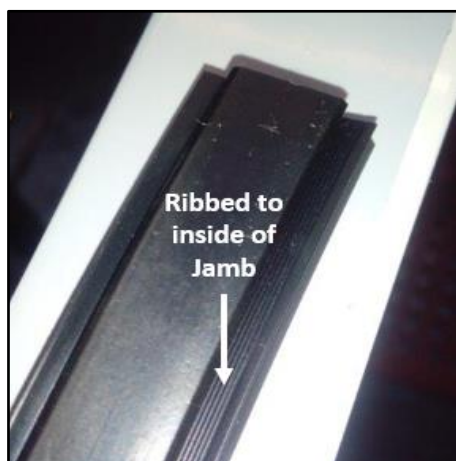
Securing hinges with final fixing screws

- After completing all the installation and the doors are glazed and operate properly, ensure to secure all hinges with final fixing screws as shown below.



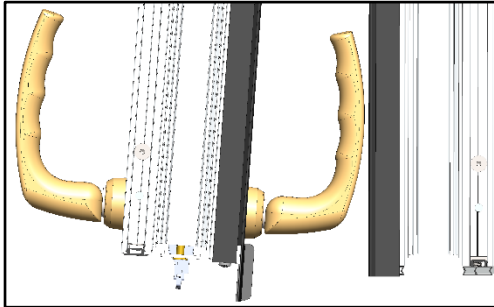
Weather seal application

- Apply missing or any removed weather seals on all panels and jambs. Ensure that the ribbed part of the seal would always be installed facing inner part of the profile.

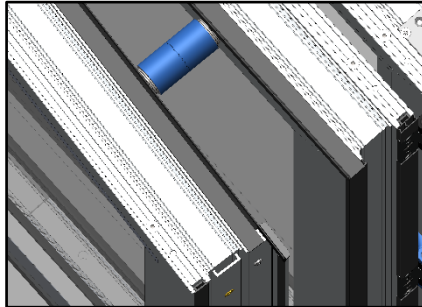


Panel catch installation

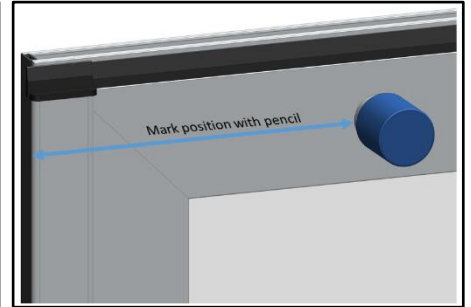
- Position the swing door at the point where it will stop.
- Ensure some clearance between the lever handle and next door.
- Use fully assembled panel catch pair to locate the position between two doors.
- Mark with pencil the position for panel catch on swinging door first.



1. Position the door

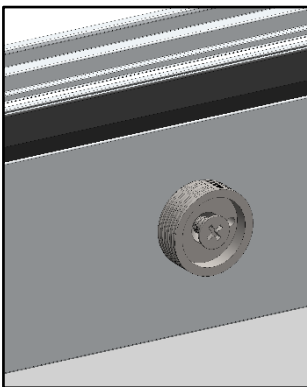


2. Locate panel catch



3. Mark position on swing door

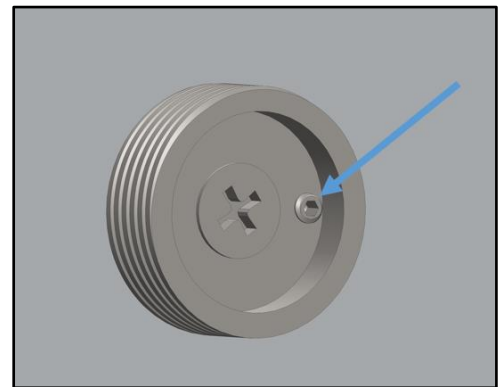
- Unscrew panel catch back plate and fix it with choice of fixings provided in the box.
- Ensure the position for anti-rotation screw is pointed towards the hinge side.
- Secure the 3mm pointed anti rotation grub screw.
- Screw the outer sleeve.



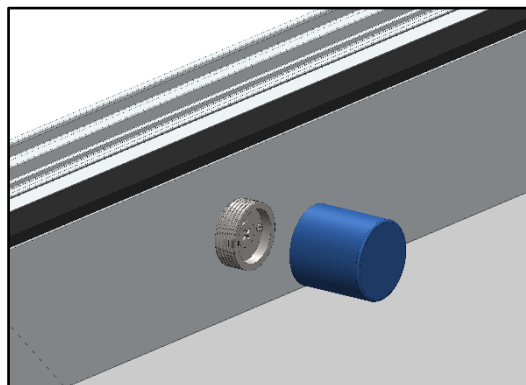
4. Fix the plate



5. Position anti-rotation point



6. Fix anti-rotation screw



7. Screw the outer sleeve

- Mark the perfect position for panel catch on the opposite panel.
- Ensure anti rotation screw is pointed to the nearest swinging door hinge.
- Fix the second panel catch by repeating steps 4 - 7

FINISHING TOUCHES

- Check that the handles and locking mechanisms operate smoothly on each door.
- Check the bi-fold action is smooth and free running.
- Check that the locks operate correctly when closed.
- Check the door magnets are fully engaged when the doors are open.
- Check the hinges and ensure that there are no screws missing.
- Check the weather seal and ensure that the doors are fully sealed.
- Check the perimeter and ensure that the door unit is weather tight.
- Clean the bottom track and ensure it is free of any debris.
- Ensure that the homeowner is instructed and knows exactly how to use and look after bi-fold doors.

OPERATION AND MAINTENANCE

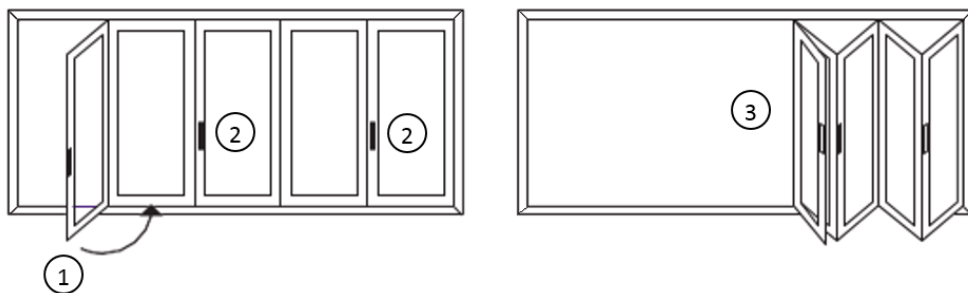
Opening and closing operation for bi-folding door with swinging door

To open doors

- Open the swinging door and connect it to the panel catch located on the next door.
- Release the shoot bolt locks on all other panels.
- Slide the folding panels starting from the pair nearest to the swinging door.

To close doors

- Slide each pair of folding panels back to align with frame
- Secure the panels by locking with shoot bolt lock.
- Close the swinging door last, ensure that all other panels have been locked in frame first.



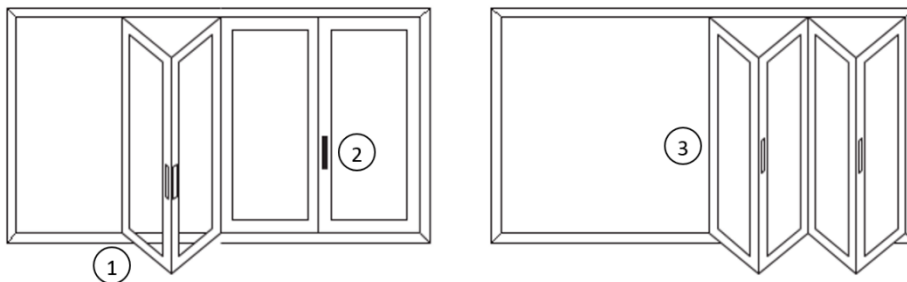
Opening and closing operation for bi-folding door without swinging door

To open doors

- Release the shoot bolt locks on all other panels.
- Slide each pair of folding panels away to one side.

To close doors

- Slide each pair of folding panels back to align with frame
- Secure the panels by locking with shoot bolt lock.



Maintenance

- Ensure top and bottom tracks are kept clean and free of any debris or foreign objects that can stop the function of the folding door.
- Ensure all door locking mechanisms are kept clean and any moving parts are regularly lubricated with light machine oil at least once a year.