

# How to install Shutters

## L frame and Z frame



What  
you'll  
need:



Measuring  
tape



Level



Box Knife



Drill



P2 Phillips Screw  
Tip, 100mm Long



#6 Countersink  
Drill Bit



Caulking Gun

## Before Beginning

Check the order form to ensure you have all the parts required for the type of installation you are undertaking

Make sure the 'Item #' box labels match if multiple panels will be used. This application will have a separate frame box or boxes to match with the 'Item #'



## Steps

**NOTE:** Step 18 may not be required for Z Frame.

- 1** Use the box knife to carefully open the boxes. Remove the panels and frames required and locate the small hardware box.
- 2** Stand the panels in the correct order, making sure they are the right way up, and any rebates match up.
- 3** The framing pieces will be assembled first; they will be labelled Top, Bottom, Left and Right. Position all the frames on the floor, face up.
- 4** The mitres are joined using Hoffman keys. Place the Hoffman key onto a hard surface on the floor (a piece of ply or timber kept specifically for this purpose is recommended, to prevent damage to the floor and to make sure the key finishes flush with the back of the frame) with the rounded end of the key facing up. Push each half of the mitre onto the key, until the mitre joins neatly and flush. Repeat for each corner.



Please see next page for 'Steps'

- 5 If the opening requires a T-post, identify the top of the post and position loosely within the frame. Place all panels within the frame in their correct order and insert the hinge pins.
- 6 Square up the frame so that all hinge and clearance gaps are even and adjust the position of the T-post so that the panel gaps are even. Attach the top and bottom frame to the T-post using the screws provided. Your frame should now be fully assembled.
- 7 Remove the hinge pins and panels from the frame. (For small openings they can be left in if it can be handled easily.)
- 8 Place the frame into the window opening. Pre-drill a hole in the frame rebate behind the top left hinge and the bottom right hinge. Line up the face of the frame with the front of the reveal, and drive screws into the holes, but leave the screw heads out at this stage. This will temporarily hold your frame in the correct place in the window.
- 9 Place the left-hand panel into the opening, lining up the hinge sections in the left L-frame, and then insert the hinge pins. Repeat for all other panels, working from left to right across the opening.
- 10 Assess the panels for squareness to the frame and each other. If gaps are not even or the panels do not line up to each other at the top & bottom, adjustments need to be made.
- 11 The frame can be adjusted in four directions to square the panels to each other and the frame – left side, up/down, right side up/down, top left/right, and bottom left/right. It may be necessary to adjust in more than one direction to square the panels up in an out-of-square opening.
- 12 If up/down adjustments need to be made, undo the temporary screw until it no longer is attached to the reveal (but do not remove), and place a packer/spacer between the frame and the bottom reveal, on the side you require movement. Insert another screw in the frame (in line with a different hinge on that side) to keep the frame at that new height.
- 13 If left/right adjustments need to be made, undo the temporary screw until it no longer is attached to the reveal (but do not remove), and place a packer/spacer between the frame and the left or right reveal. Insert a screw into the frame, at the exact position of the packer.
- 14 Further minor adjustments may need to be made to ensure the squareness of the panels to the frame. Use methods in steps 12 & 13 to achieve this, until the panels are square to the frame, and the tops/bottoms of adjacent panels line up. The hinge spacers provided can also be used to adjust gaps where necessary.



Please see next page for 'Steps'

- 15 The remainder of the screws can now be inserted. As a rule, a screw should be used wherever there is a hinge on the frame, and for the top and bottom frame a screw should be used wherever there is a striker plate (or the closing side of any panel). Additional screws should be placed where necessary, but consideration should be given to the spacing between the screws for appearance reasons.
- 16 When inserting the screws, if there is a gap between the frame and the reveal at that point, a packer will need to be inserted to ensure the screw does not pull the frame out of square.
- 17 Re-check squareness of frames and panels, and make sure panels operate freely.
- 18 Apply caulking around outside of frame. Where possible, caulking should be the same or similar colour as the reveal, as it will make the window opening appear to be square. Where this is not possible, the caulking should be the same or similar colour to the L-frame.
- 19 Fit screw caps to all visible screws. Test the function of the panels and give a final clean.

**Congratulations, the installation of this opening is now complete.**