

# UNIFOLD BI-FOLDING DOORS INSTALLATION GUIDE



Please contact our customer care team for additional technical support or advice:

**0116 236 4656**

Here at Unique Window Systems, we are very proud of our aluminium bi-folding door system: Unifold.

That is why we've created this detailed Unifold installation guide to ensure that your customers are as proud of them as we are when they're installed in their homes.

This installation guide is a step-by-step guide to ensure that our bi-fold doors are fitted the way they were intended...



# Step-by-step guide...

To ensure the correct function of the Unifold bi-folding door it is imperative that the following instructions are followed.

## 1. Check aperture

- 1.1:** Begin by measuring the frame and opening (before removal of an existing frame if it is a refurbishment) and check at least three dimensions horizontally (top, middle and bottom).
- 1.2:** Check at least three height dimensions - both jambs and in the centre of the opening.
- 1.3:** Check the opening for squareness by measuring the diagonals and check the frame for any damage.
- 1.4:** If using a subcill ensure the ends are filled with sealant to provide a dam before fitting the end caps.
- 1.5:** Fit the end cap. Note! This is not just an aesthetic piece. It must span the full depth of the subcill as it acts as a physical barrier to stop water ingress.
- 1.6:** Place the subcill on to the substrate and level the subcill, if necessary using packers. Laser levels are ideal to assist with this process, particularly on wide installations.
- 1.7:** Recheck to ensure the cill is level and proceed to fix to substrate. Remember "check twice, fix once".

## 2. Frame fitting

- 2.1:** Offer the frame into the opening and check for squareness by measuring the diagonals. There should be no more than 2mm difference between them.
- 2.2:** Ensure the frame is plumb. Again, a laser level is useful to achieve this.
- 2.3:** Don't forget, fixing centres should be 100 - 150mm in from each end and a maximum of 600mm thereafter. NOTE! At the stacking end, the head profile should have the following fixing centres: 100 - 150mm from the corner, then 300mm, 300mm and 600mm thereafter.
- 2.4:** Preferably fix through the aluminium profile. Lift gasket then drill and countersink the fixing hole to ensure the gasket will fit snug when refitted.
- 2.5:** Pack the frame at fixing points. Horseshoe packs are ideal for this. When satisfied the frame is square and vertical proceed with fixing.
- 2.6:** Insert perimeter fixings. Be careful not to over tighten as this may deform the frame. Check again to ensure the head and cill are level (not bowed) and the frame is square and plumb.
- 2.7:** Replace the gasket.

### 3. Hanging the door panels

- 3.1: Position the 1st door at 90° to the outer frame, then attach the hinges to mounting plates in the outer frame.
- 3.2: Maintain the 1st door at 90° and insert the 2nd door. Bring door two to door one and fix the hinges to plate in 1st door. Repeat the process until all the doors are connected via the hinges and running free in the frame.
- 3.3: Ensure that there is a 12mm gap top and bottom between the outer frame and the door panel.
- 3.4: Check that the traffic door magnets have been fitted and that they align when in the open position.
- 3.5: Check that the hardware is operating correctly.
- 3.6: Test the operation of the door to ensure it runs smoothly.

### 4. Glazing

- 4.1: Check the captive glazing gasket to ensure it has been fully fitted with no gaps at the corners then seal the corners with a butyl based sealant.
- 4.2: Important! Toe and heel the door panels to ensure the glass weight is transferred to the outer frame. It is vital that the door panels are glazed correctly. Not to do so will potentially cause problems that will require remedial work and further site visits.
- 4.3: Position 2 packers, one inline at the corner that is to be toe and heeled with the other at 90° on the opposite side.

## 4. Glazing (Cont.)

- 4.4:** Seat the glazing unit on to the packers.
- 4.5:** Proceed to toe and heel at the bottom corner.
- 4.6:** And the top corner which is diagonally opposite to the glass packing at the bottom.
- 4.7:** Carefully fit the horizontal beads first and then the vertical beads.
- 4.8:** With weak soapy water (if required) fit the wedge gasket in one piece. Remember to force into the corners first and then loop from the centre towards the corners (if necessary snip the bottom of the gasket to facilitate ease of fitting at the corners) Ensure the wedge gasket is not stretched and is cut oversize by 10mm per meter.
- 4.9:** Check the operation of the hardware and doors. I
- 4.10:** Seal perimeter with proprietary sealant. Be sure to follow sealant manufacturers instructions regarding backer rod and primer.
- 4.11:** Remove tape and clean down glass and metal

Our sales, technical and customer service teams are always on hand to provide the support, training and expertise you need, when you need it most.

Should you wish to get more information about working with our products, just give us a call on 0116 236 4656 or email [install@uws.co.uk](mailto:install@uws.co.uk) and our expert team will be happy to help.



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