



**Bi-Folding Door
Visofold 1000 Slim
featuring Quick-Glaze
Bead
Installation Guide**

QUICK SLIDE
WINDOWS & DOORS

Tel: 0844 5610 623 Email: sales@quickslide.co.uk
Heaton Estate, Bradford Road, Brighouse, West Yorkshire, HD6 4BW

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Important notes for the client prior to use.

Please note a video guide is available on our website at
quickslide.co.uk/installation-services/installation-guides

Warning

Read these instructions prior to installation and operation of the folding-sliding doors. Please ensure that while opening and closing the folding sliding doors you do not get your fingers trapped between the panels.

Please ensure you inspect the product prior to installation. It's important you inform us of any issues and provide photographic proof prior to removing the protection tape.

REMOVE KEYS AFTER UNLOCKING THE DOORS AND BEFORE FOLDING THE DOORS!

Parts box for all doors

Name of Part	Quantity
External hinge plates (black)	1 x per hinge (excluding wheels and guides)
Keys	At least 3 x keys supplied
First fix screws	2 x per hinge (including wheels and guide)
Final fixing screws (25mm)	8 x per glass unit
Toe and Heel glazing packers	1 x traffic door (supplied with own instructions and fixings)
Magnetic panel catch	1 x per traffic door
Lifting block and screw (traffic door only)	1 x per box
Toe and Heel diagram	1 x per box
Sill and caps (if applicable)	1 x pair per sill

1 x 3mm Allen Key required (not supplied)

FOR ALL SYSTEMS USE APPROPRIATE SCREW OR OTHER EQUIVALENT ANCHORAGE DEVICES DEPENDING ON THE HEADER MATERIAL AND CONSTRUCTION. ANCHORAGE DEVICES SHOULD PENETRATE OR HOLD SUFFICIENTLY TO THE HEADER TO WITHSTAND NECESSARY STRUCTURAL LOADING.

Additional parts for doors supplied in kit form

If your bi-folding doors have been supplied in kit form, you will receive a parts box which include the following:

4 x silver tensions blocks per corner (total of 16 per panel)

1 x 2.5mm Allen Key

2 x final fixing screw per hinge

8 x packers per panels

4 x 50mm screws if you've opted for a low threshold

Lifting block(s) if specified

1 x 3mm Allen Key required (not supplied)

Equipment Needed

1. A suitable drill for securing the fixings through the frame and into the wall and a 6mm drill bit.
2. Good quality frame fixings.
3. Good quality silicone to seal the perimeter edges and frames to the sill, we recommend a low modulus neutral cure silicone.
4. A six foot spirit level for ensuring the doors are fitted square, plumb and level. For large bifolds we recommend the use of a laser level to ensure that the doors are installed square, plumb and level.
5. An eight metre tape measure.
6. A selection of plastic packers that are used for squaring the frame in the opening.
7. Glazing shovel.
8. Flat putty knife.
9. Check off the parts list to ensure that you have everything.

Pre-Installation Checks

On site assembly

*Single (1) Doors will be fully assembled with the panel/sash fitted into the frame.

Doors (any number of panels) less than 4000mm in width will be supplied with the outer frame fully assembled, with sashes supplied loose.

Doors with a width of 4000mm or more and/or a height of 2400mm or more will be supplied in kit form, with sashes supplied loose.

Glass units will always be supplied loose.

Installations instructions

IMPORTANT: Please ensure that the instructions are fully read and understood prior to beginning the installation of the door. If the installation guide is not followed properly, this could result in the unit not operating correctly.

CAUTION: Regulations governing the use of glazed windows, doors, storefronts and/or partitions vary widely. It is the responsibility of the building owner, architect, contractor or installer to ensure that products selected confirm to all applicable codes and regulations.

Quickslide Ltd. can assume no obligation or responsibility whatsoever for failure of the building owner, architect, contractor or installer to comply with all applicable laws and ordinances and safety and building codes with the exception of UKCA Marking.

Preparation of the opening

Ensure the aperture is 15mm wider and 15mm higher than the outside frame size of the unit ordered.

Please note that the outside frame height of the required unit is measured from the underside of the sill and NOT FROM THE FINISHED FLOOR LEVEL.

IMPORTANT: Due to the large opening sizes, weight and movement of the panels, any application should take into consideration the following;

1. The rough opening should be level, plumb and square at all points. There should be no unevenness or bowing. Make sure that the header is not twisted. There should be no bumps on the floor. The sides should be in the same vertical plane and not offset from each other. A telescopic rule and other similar precise measuring equipment should be used to make these determinations.
2. The structural integrity of the header is critical for the proper operation. Deflection of the header should be limited to L/720th under full live and dead loads with a maximum deflection limit of 9mm.
3. A qualified engineer or architect should be used to determine the proper construction details and header to be used in your particular application.

TO AVOID FUTURE PROBLEMS, DO NOT INSTALL THE UNIT UNTIL THE ROUGH OPENING HAS BEEN CORRECTLY PREPARED.

Handling of components

1. Upon receipt of the products, please carry out a thorough inspection to ensure that all items have been delivered in good suitable condition.
2. Store the products in a secure, clean and dry environment and protect against defacement or damage.
3. Mark sure that the parts box supplied is not mislaid.

Key things to remember

During the installation all parts need to be plumb, level, square and free from twist.

Plumb - "Plumb" is what you call a perfectly vertical line. Vertical means up and down. Something that is "plumb" runs perpendicular to the horizon – meaning that when it intersects the horizon, it makes a right (90 degree) angle.

Level - "Level" is what you call a perfectly horizontal line. Horizontal means side to side.

Square - "Square" refers to perfect corners. Corners should be at exactly 90 degrees.

Free from twist - "Free from twist" relates to parts being lined up correctly. Your lines should be perfectly vertical (plumb) and horizontal (level), and your corners should be exactly 90 degrees (square).

This means that the frame and/or door panels should not be tilted or sloped in any way. Every element of your orientation must be exact. Nothing should lean in any direction. If just one corner or one line of the installation isn't straight, the doors will not function properly.

This install guide is based on an installation of a four panel Quick-Glide door.

You may need to adjust these steps based on your configuration.

The bottom rail must be kept clean to ensure the doors slide smoothly.

Remove packaging

Remove the outer frame from its packaging and lay out the frame on a flat surface working area. The working area should be twice the height and width of the door.

The bottom of the frame will feature a drainage and steel track.

Assemble outer frame

2 of the frame pieces will have 2 metal cleats (see Fig 1). Before assembling the pieces together, you will need to use silicone around the edges to weatherseal the frame. The pieces should then be inserted into the channels. Once inserted, place the silver tension blocks in the pre-punched holes.

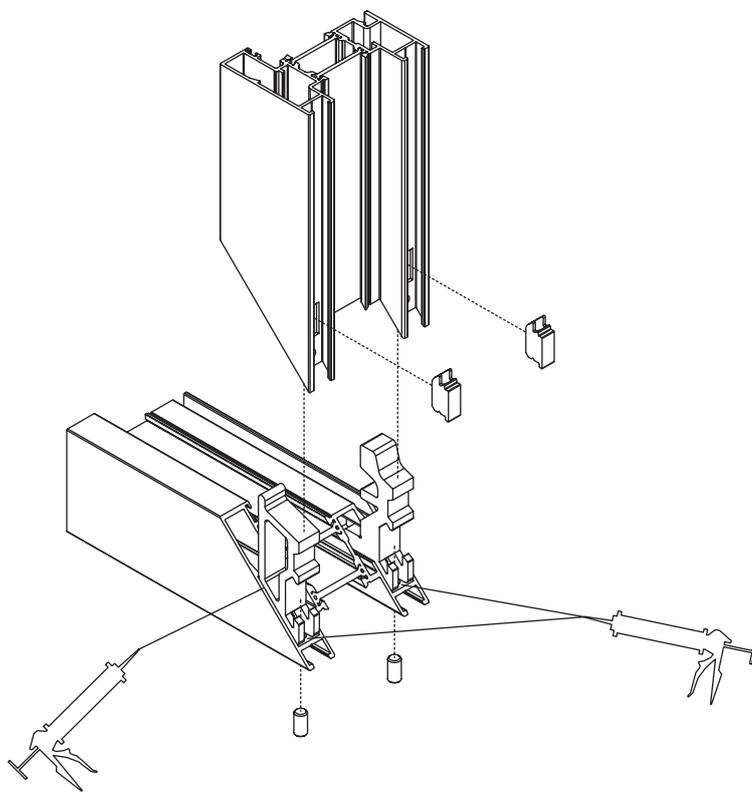


Fig 1

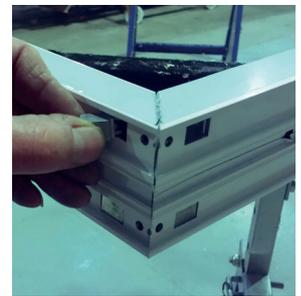


Fig 2

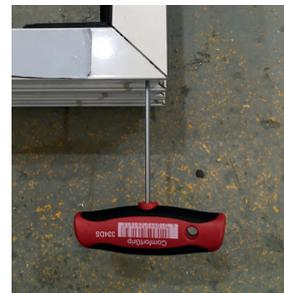


Fig 3

Once the silver tension blocks have been inserted, use a 3mm Allen key to tighten grub screws, making sure surfaces are level.

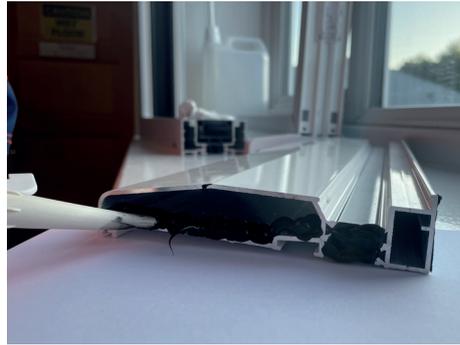
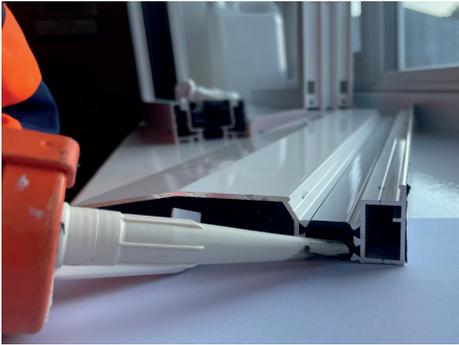
Gasket

The outer frame will come with a flipper gasket attached. This will need to be pushed in to the grooves all the way around the frame.

The gasket will be glued to one side of the frame (usually the side majority of the panels stack towards). Once the frame is fully assembled, feed the gasket into the channel all the way around the frame. Please note that on door configurations without a traffic door, no gasket will be supplied, and the doors will come with a wool pile seal instead.



Preparing to Fix the Sill



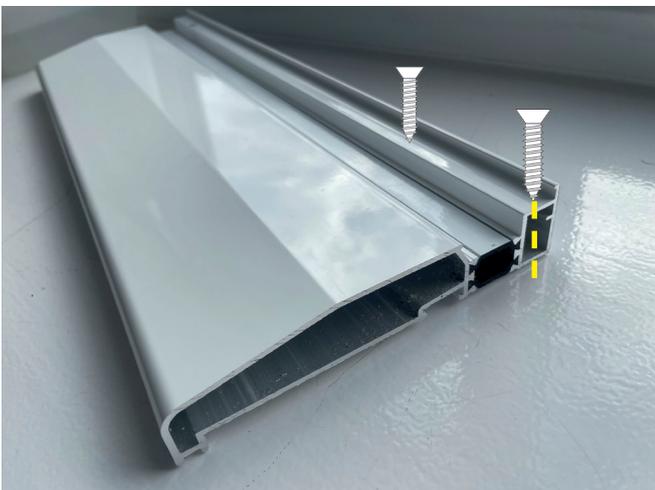
Before fixing the sill to the bottom of the aperture, fill the two outwards facing chambers (as illustrated) with a thick line of silicone along the edge. This is to stop any drainage water from escaping the drainage channels. Use an appropriate colour that matches the frame finish.



Then attach the sill end caps and add a layer of silicone in the channel top stop any drainage water from escaping down the side of the sill.

The sill end caps must be fitted before the sill is fixed in place.

Fixing the Sill



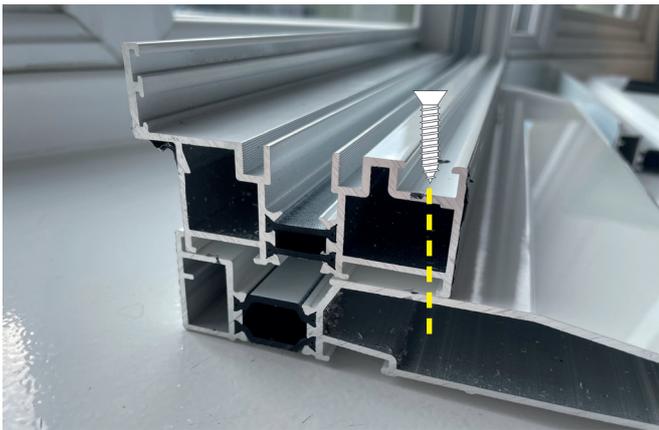
Fix the sill to the bottom of the aperture through the first inwards facing chamber as illustrated. No drainage will go through this chamber so you can go all the way through.

Please note:

At this point, the sill end caps should be fitted.

Image for illustrative purposes only.

Fixing the Frame to the Sill



Place the frame on the sill and fix it in place.

 The screw should enter the chamber but **DO NOT** let the screw go through the bottom of the sill.

Drainage

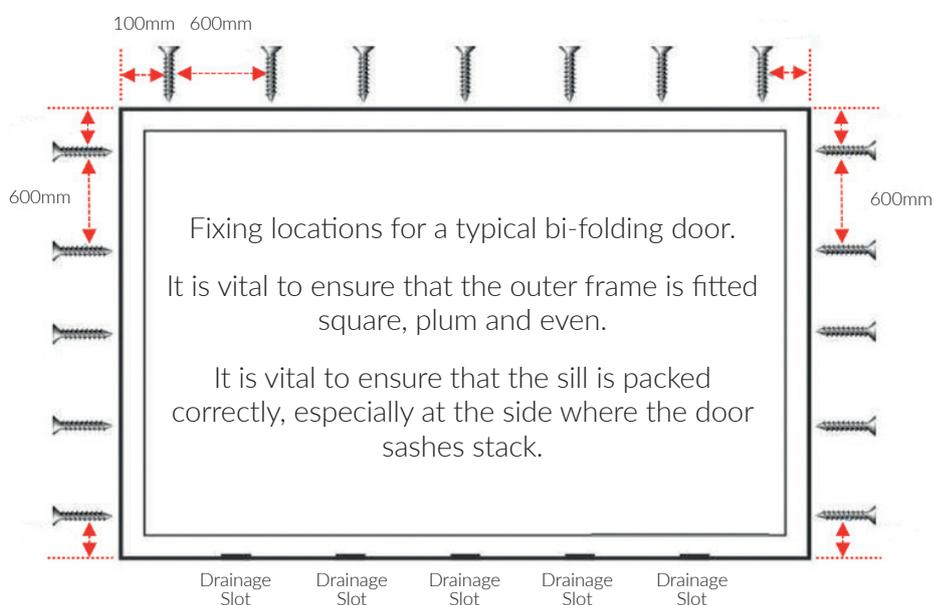


On some door configurations, the drainage will be 'face drained' through the bottom of the frame. On most configurations, drainage will go through the sill as illustrated. Hence the importance of not drilling through this chamber as water would not be drained accurately and could enter the property.

Installing the Frame

REQUIRES MIN. 2 PEOPLE

1. Remove all door panels from outer frame making a note of each one's location in the frame. 2 people should lift the outer frame in to the aperture and on to the sill.
2. If there is no sill applicable to your order then please refer to the instructions below;
 - a. Create a silicone bed on the masonry for the outer frame to sit on.
 - b. Temporarily secure the frame to the rough opening with clamps.
 - c. Make sure that the frame threshold is packed underneath to make it level and plumb (packers not supplied).
3. Pre-drill all fixing points first then fix through the thermal break of the outer frame in to the masonry using suitable frame fixings (not supplied).
4. Fix through the thermal break of the outer frame in to the sill at 100mm from each end and 600mm between.
5. Before fixing the sides and head, the outer frame should again be packed suitably to ensure it is square and plumb.
6. Fixing points should be set 100mm from each corner of the outer frame and then every 600mm between.
7. Once the outer frame is fixed in place, it should be level, square and plumb, this should be checked at every 600mm in both width and height using a suitable measuring device.

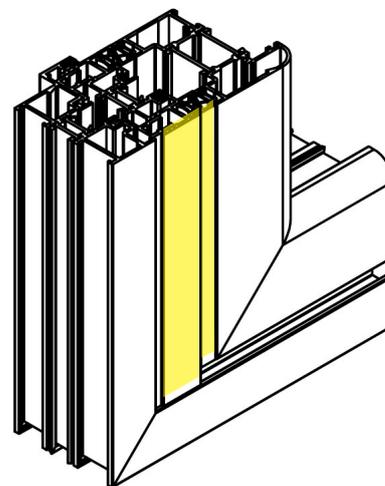


New adjustable jamb

The purpose of the adjustable jamb is maximum adjustability of roughly +/- 4mm either side during install. Additionally, the jamb is easily adjustable at a later date with an allen key.

The adjustable jamb will be pre-fixed and positioned between the first sash and outer frame as highlighted in the image below. The jamb will sit onto the adjustable jamb fixings using the pre-drilled holes. Do not attempt to remove the adjustable jamb.

Please note: Configurations of 4 panels or more will come with an adjustable jamb.



Hanging the Door Sashes

Your new doors have already been factory assembled and tested prior to being flat packed so the hinges will be pre-fitted in the correct location, the following steps will details how you go about hanging the sashes to the pre-fitted outer frame.

1. All loose door panels will carry a numerical label which stipulates the order in which they should be fitted in to the outer frame.
2. Start by fitting sash number 1 to the outer frame. The hinges are pre-fitted on the sash and the outer frame already has the hinge backing plates attached.
3. Door '1' will have hinges on one side only which will then connect to the outer frame using the 'first fix' screws and external hinge plates.

The external hinge plates are first to be located on top of the hinge, as shown. (Fig. 1)

This should be repeated on the remaining hinges on door 1.

4. As you offer up the 2nd sash slightly tilt it in order to allow the wheels and top glide to slide in to place, then simply repeat the above steps for the third sash, ensuring that after every sash is fitted you check to ensure it has the same gaps top and bottom as the first sash, once you are happy you must use the screw to lock each hinge in place.
5. If panels/sashes fold both sides, the final sash is fitted against the outer frame in the same way as sash 1 was, by simply offering up the sash with the hinges on and securing them to the hinge backing plates which are already located on the outer frame.
6. You can now close the sashes, from the inside pull the D handle to bring the sashes towards the track, once they are closed turn the pendulum handle to engage the shootbolts. If your door configuration comes with a traffic door, use the main door handle to close and engage the locks.

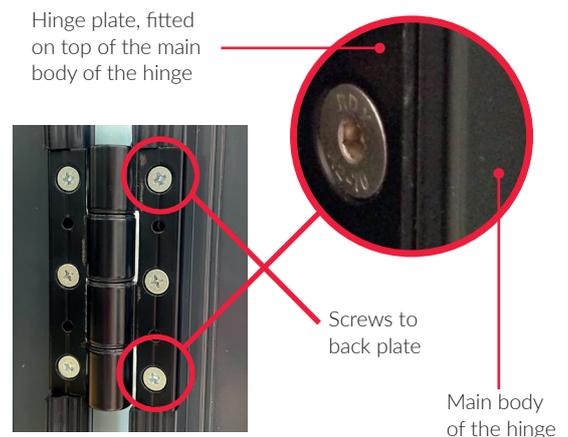
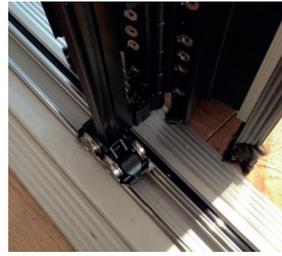


Fig 1

Installing door sashes with wheels & guides

1. The wheels and guides will always be attached to the relevant door panel and are part of the top and bottom hinge assembly.
2. These require hinges unlike the standard ones that DO NOT require hinge plates to be fitted.
3. This door panel should be fitted into the outer frame on an angle so that the guides and wheels attached to the sliding post are able to clear the outer frame and sit into the rebated channels at the top and bottom of the outer frame.



Bottom Roller Hinge



Top Guide Hinge

Final fixing screws

1. Once all of the door panels have been installed, you should ensure that all of the heads of the door panels 'line-through' with each other. (Fig 1)
2. Assuming the panels do line-through then you can fit the 'final fixing screws' to the centre hole of ALL hinges including rollers and guides. (Fig 2)

The final fixing screws need to go in prior to glazing due to the weight of the glass.

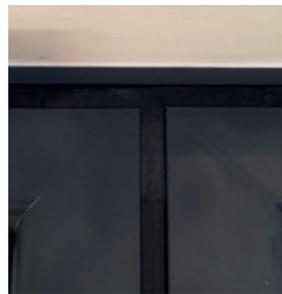


Fig 1



Fig 2

Final Fixing Screws

Glazing the Door Sashes

ALL GLAZING SHOULD BE CARRIED OUT BY A COMPETENT GLAZIER. GLAZING PACKERS AS WELL AS A TOE AND HEEL GUIDE HAVE BEEN INCLUDED.

1. Remove the pre-glazed beading (4 per sash). Make a note of which bead goes where.
2. Follow the toe and heel glazing guide on page 11 for details on packer locations.
3. Fit the bottom packers only prior to the glass units being installed.
4. Lift the glass units into the door panel (2 people required).
5. Fit remaining toe and heel wedge packers.
6. Tap in the glazing beads in the relevant locations. Glazing beads come with integrated gaskets.
7. Repeat on all remaining door panels.

Toe & heel glazing guide

Bi-fold door sashes are heavy, and although the dead weight is supported on the hinge side there is nothing on the lock side to support the weight. Toe and heeling of each sash is therefore essential to prevent the doors dropping and catching. For sashes under 1000mm in width, standard 2-4mm wedge packers will be supplied.

We recommend following the steps below that explains how to use a Toe and Heeler device to reinforce the door, which essentially enables the glass to support its own weight.

Please note **not** all doors come with a toe and heeler device and some doors may require conventional toe and heeling using wedge packers.

A step-by-step installation video is available on our website at www.quickslide.co.uk/how-to-install-a-bi-folding-door/

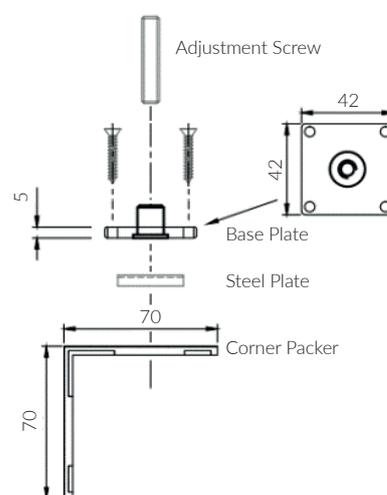
Toe and heeler device (ACDV295)

The Toe and Heeler device comes in 4 separate parts as shown to the right.

- a) Adjustment Screw
- b) Base Plate
- c) Steel Plate
- d) Corner Packer

The Base Plate and Adjustment Screw are pre fitted to the sash in the factory.

The Steel Plate and Corner Packer will come in the stores package and must be used in place of standard packers in the corners where the device is fitted.

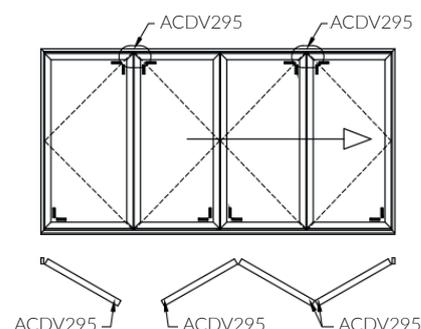


Where to fit the device(s)

To stop a door sash dropping it needs to be braced diagonally corner to corner by the Toe and Heeler devices between the glass and the frame.

On the hinge side of the sash the devices go at the bottom corner, whilst on the lock side they go at the top (opposite corner).

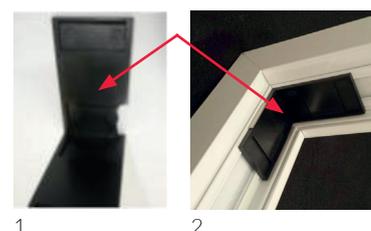
Opposite is an example of where to fit the Toe and Heeler devices, you should use the same principle when glazing other configurations.



Please note:

The Toe and Heeler device will require a notch to be cut out when fitting 28mm units to allow the bead to sit in place, as shown here.

Please note: Failure to install all of the parts will invalidate the guarantee and could potentially shatter the glass unit.



Insert the glass unit and fit the serrated glazing wedge packers between the glass and the glazing bridge packers, figure 3. The glazing wedge packers should be tight enough to hold the glass in place without the beads.

Check to ensure that the glass is sitting square in the sash, using more or less serrated wedge packers as required. It is important to ensure that the sash is also still parallel with the outer frame, if the sash is sitting too low increase the number of serrated wedge packers at the top of the door.

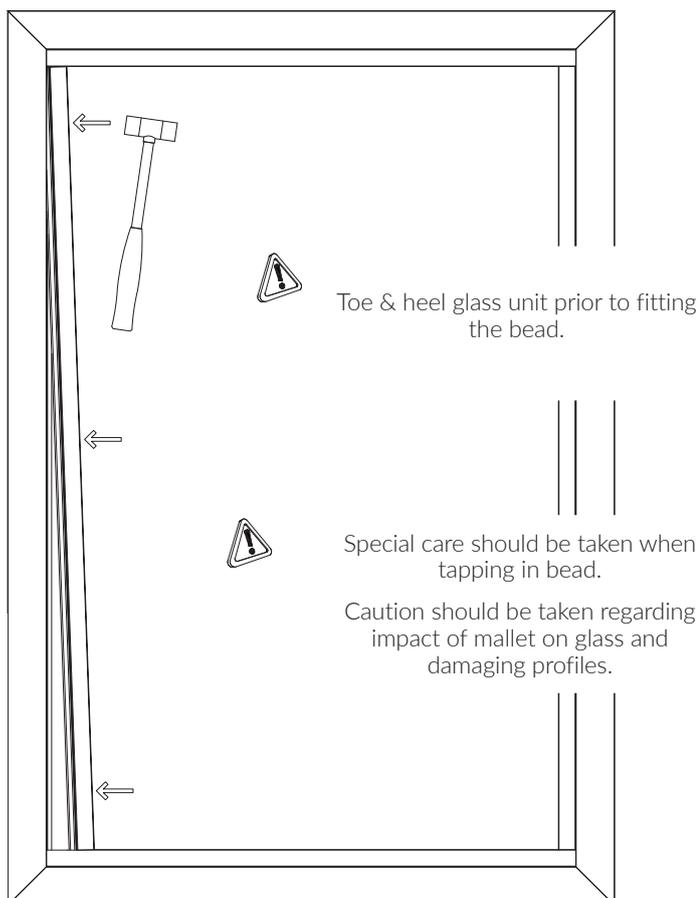
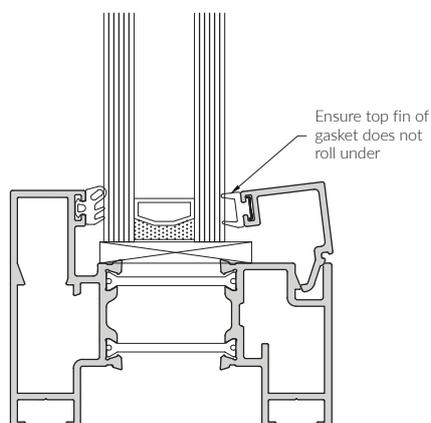
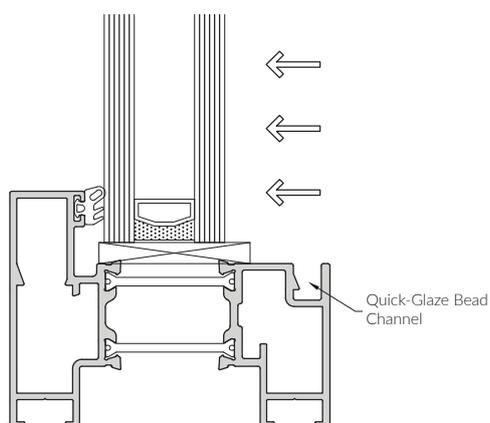
Once the unit is in square and the sash is parallel in the outer frame refit the beads in the sash.



Fig 3

Quick-glaze bead installation

1. Push the glass unit forward to engage compression of the gasket.
2. Beginning with horizontal beads, locate bead in clip channel of sash as shown. Integrated gasket may rest against glass unit.
3. Apply firm pressure to the bead to hold in position. This may cause the bead to fully lock into position.
4. Using a nylon mallet, tap bead into channel, working from one end to the other. Please take care at this stage to avoid damage to both the glass unit and the bead.
5. Repeat steps 2 - 4 to install vertical beads.



Final Checks & Adjustments

1. After installation of the glass units, you should check the operation of the door to ensure that it is smooth with no catching door panels. If you find that a panel is catching you will need to adjust the toe and heel of the relevant glass unit.
2. **You should have an 11mm gap between the edge of the door panel and the edge of the outer frame (gasket line). This is applicable to all 4 sides of the outer frame. (Fig 1)**
3. You should ensure that all locking mechanisms operate correctly (traffic doors and intermediate doors).
4. There should be no debris or residue in the bottom channel of the outer frame where the roller-bearing wheels are located.



Fig 1

Adjust hinges

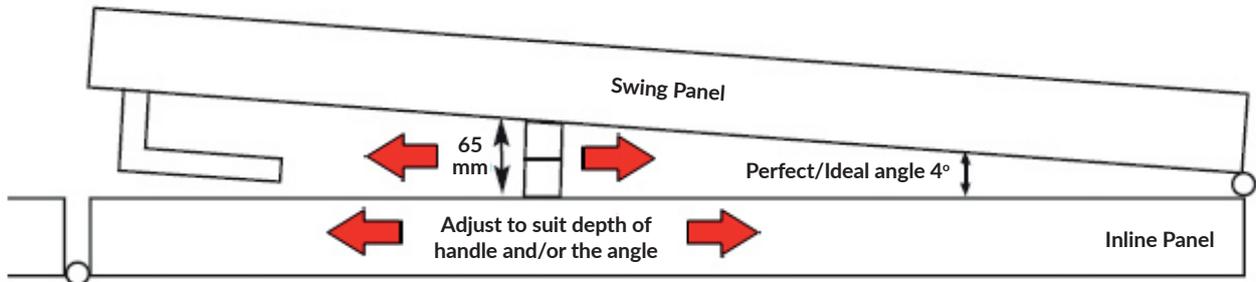
1. The hinges can be adjusted up and down using an Allen key. This is done via a grub screw located on the internal of the hinge. In order for the adjustment to be effective, the final fixing screws will need to be removed and the first fix screws loosened.
2. Toe and heel glass units for adjustment on the intermediate doors.



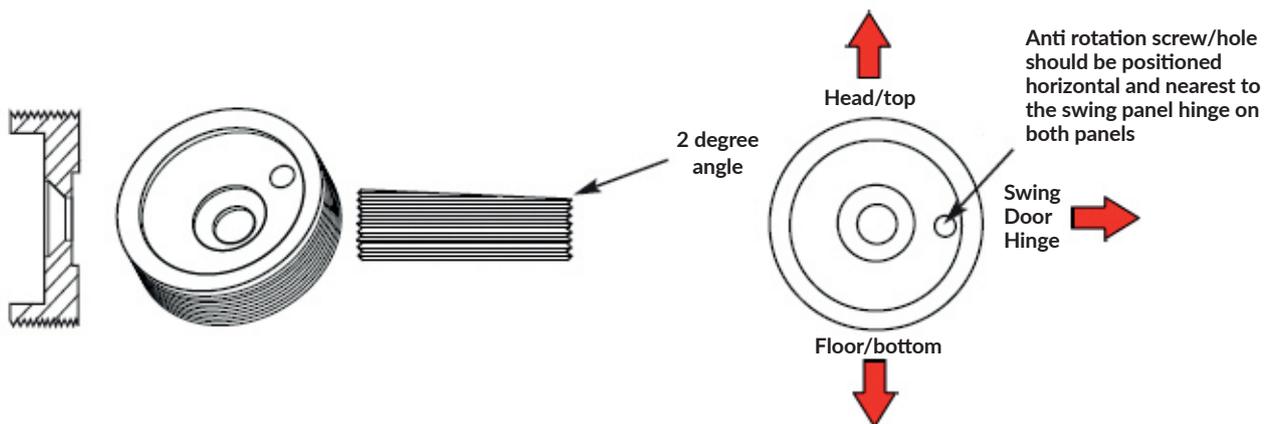
Fitting Door Magnets

In order to hold the door sashes together when they are all open, magnets can be provided, which you will need to fix to the sashes after installing the doors.

1. Position the swing door at the point you wish to stop, allowing for the lever/lever handle plus a bit of tolerance, as per below.



2. Offer up the fully assembled magnet and mark the position on only one of the sashes.
3. Unscrew one back plate and fix with the choice of fixings in line with the position marked. Ensure that the anti-rotation screw is nearest the main traffic door hinge.



4. Screw in and tighten the 3mm grub screw, then screw on the outer sleeve complete with the opposite catch still attached.
5. Carefully position the opposite panel up to the catch and mark accordingly.
6. Repeat steps 3 and 4 above, before screwing on the outer sleeve.
7. Show the end user how to correctly open and close the doors, explaining that the door is not designed for hard impact or fixed retention.



Basic Operation with Traffic Door

TO OPEN

1. Unlock the traffic door and open it 180 degrees. This door will then close on to the next door via a magnetic panel catch (supplied in the parts box).
2. Unlock the remaining intermediate door panels using the intermediate handle (you do this by turning it nearly 180 degrees from pointing down (locked) to pointing up (unlocked)).
3. Fold panels pair-by-pair sliding all of the panels carefully over to the side so they are all stacked together.



1



2



3

TO CLOSE

As described previously but in reverse order;

1. Slide the pairs of intermediate door panels one-by-one back in to the frame so they are shut.
2. Lock each of these pairs off as you close them in to the frame.
3. The traffic door should remain open and be the last door you close.
4. Pull the traffic door closed and lift the handle upwards to engage the locking system in to the frame, so they are all stacked together.

Basic Operation without Traffic Door

TO OPEN

1. Unlock all internal handles.
2. Slide the panels pair-by-pair slowly to the side so that they are all stacked together.

TO CLOSE

1. Pull the handle between the panels closed so that you are working from the final set of opening panels to the first set of opening panels. Once these panels are pulled back tight against the frame, turn the handle to secure.
2. Pull the second pair of panels closed and lock in to the frame and turn the handle to secure.