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VISOFOLD 1000

BI-FOLDING DOOR INSTALLATION GUIDE

Step-by-step installation guide



The UK's Best Selling Bi-Fold Door

CONTENTS

1 Tools Required p3

2 Assembling the Outer-frame with a Standard Threshold p4

3 Assembling the Outer-frame with a Low Threshold p6

4 Installing the Cill and the Outer-frame p8

5 Fitting the Outer-frame p11

6 Adjustable Jamb p12

7 Fitting the Sashes p13

8 Quick Glaze Bead & Glazing p14

9 Toe & Heeling p15

10 Final Fixings & Magnetic Catch p17

IMPORTANT NOTE:

This guidance is provided for general reference, as the installation requirements will vary depending on the substrate, structure, location, environment etc.

1 TOOLS REQUIRED



TOOL LIST

- ✔ Aperture Fixings
- ✔ Battery Drill
- ✔ Drill bits
- ✔ Gasket Roller
- ✔ Glazing/Fitting Wedge
- ✔ Hex Keys
- ✔ Phillips Screw Driver
- ✔ Rubber Mallet/Hammer
- ✔ PPE*
- ✔ SDS Drill
- ✔ Sealant Gun
- ✔ Spirit Level
- ✔ Tape Measure
- ✔ Work Gloves

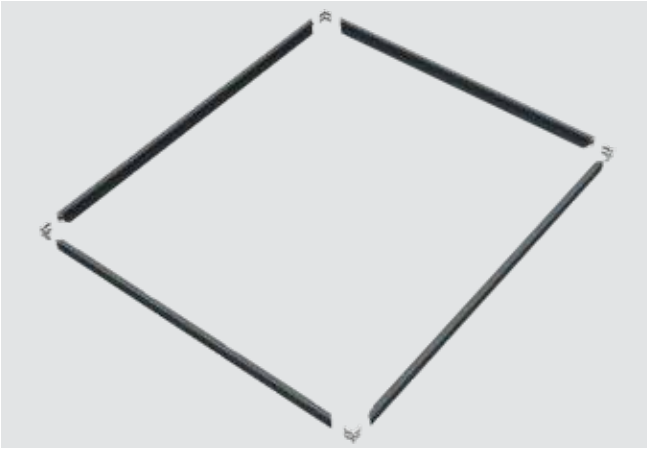
The surveyor is responsible for ensuring that suitable fixings are selected for the aperture into which the product will be fitted.

Do not use silicone to seal frames or fixings. Only use Smart supplied sealants in accordance with the technical fabrication manual guidance.

***Appropriate PPE must be worn, including eye and ear protection.**

2 ASSEMBLING THE OUTER-FRAME WITH A STANDARD THRESHOLD

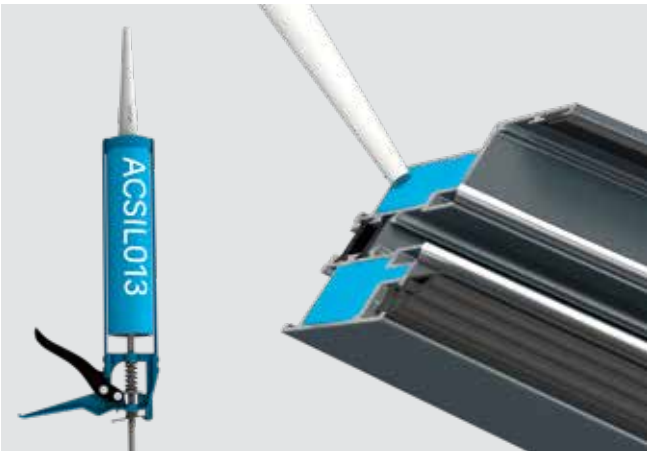
These steps should be followed for doors supplied in kit form



2.1

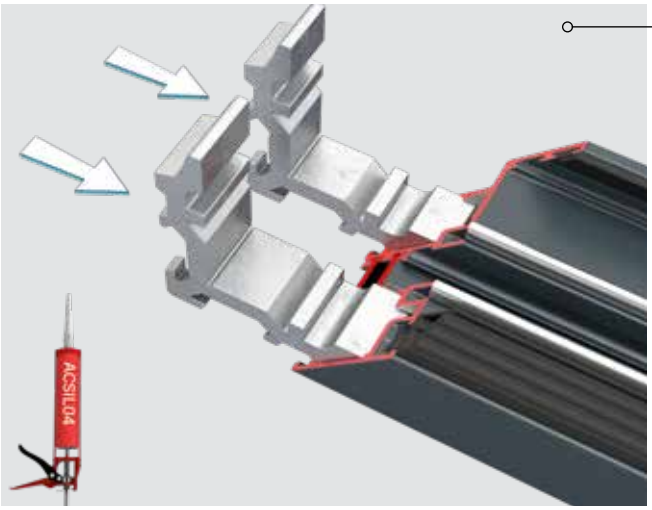
- Remove all the packaging.
- Carefully lay out the outer-frame profile on a clean flat surface, placing the four sections roughly in position, ready for assembly.

NOTE: ensure there is no dirt or debris on the surface that could damage the frame.



2.2

- Partially fill the cleat chamber to the approximate depth of the cleat with sealant (ACSIL013).

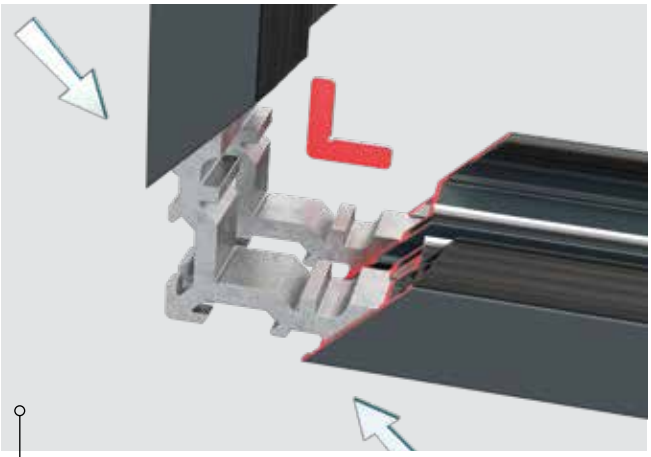


Insert cleats into each corner of the outer frame's head and threshold sections

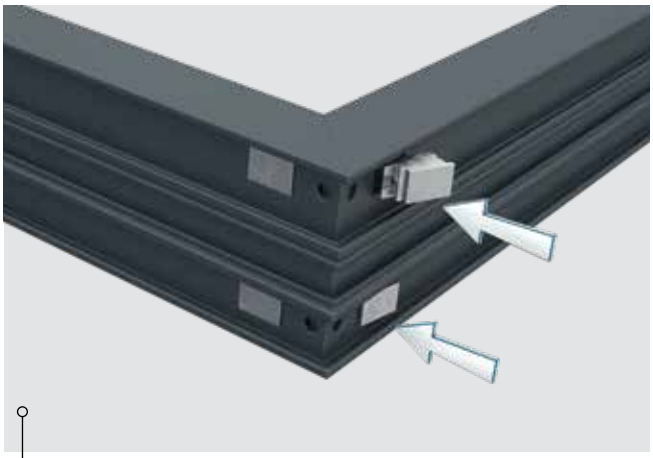
2.3

- Apply sealant (ACSIL04), to the cross sectional faces of each profiles (indicated in red in the above diagram).
- Insert cleats into each corner of the top and bottom sections of the outer frame.

NOTE: The cleats are different widths. The wider one should be inserted into the door opening side and the narrower one into the rebated side.



Insert corner chevron
to align the joint



Insert cleat tension blocks into holes
punched in outer frame

2.4

- Once the cleats are fully inserted, position the chevrons into the alignment slots.
- Push the joints together.

NOTE: fit the left and right outer frame profiles to the bottom section first, then fit the top section.

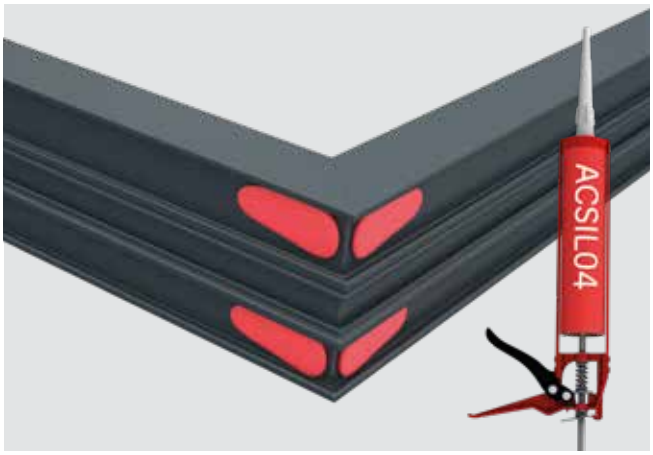
2.5

- Insert the cleat tensioning blocks into the slots at each of the four corners.

NOTE: ensure the blocks are correctly seated before moving to the next step.



Important: Tighten cleat tension
block to 'hand tight'



2.6

- Tighten each tensioning block in turn using a 2.5mm hex key.

NOTE: it may be necessary to slacken and re-tighten blocks several times to make certain the joints are perfectly aligned.

- Make sure all four tensioning blocks are tight before proceeding to the next corner.
- Repeat this process for all four corners.

2.7

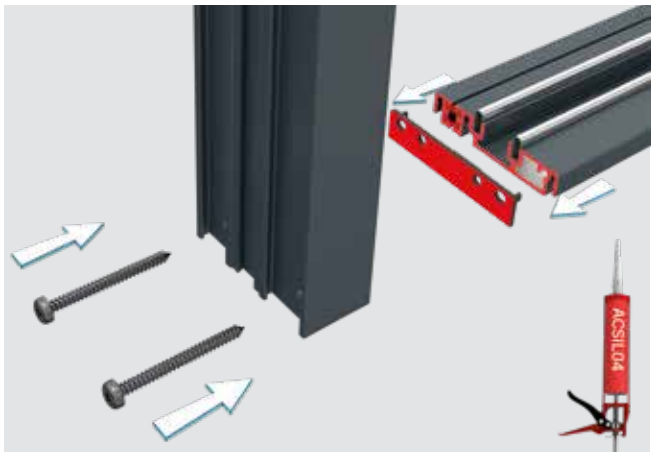
- Apply sealant (ACSIL04) over all the cleat tensioning blocks and holes.

IMPORTANT NOTE:

The corners to be cleaned at this stage using ACMX09765 cleaner and tissue. Ensure all residue is wiped away.

3 ASSEMBLING THE OUTER-FRAME WITH A LOW THRESHOLD

These steps should be followed for doors supplied in kit form.



3.1

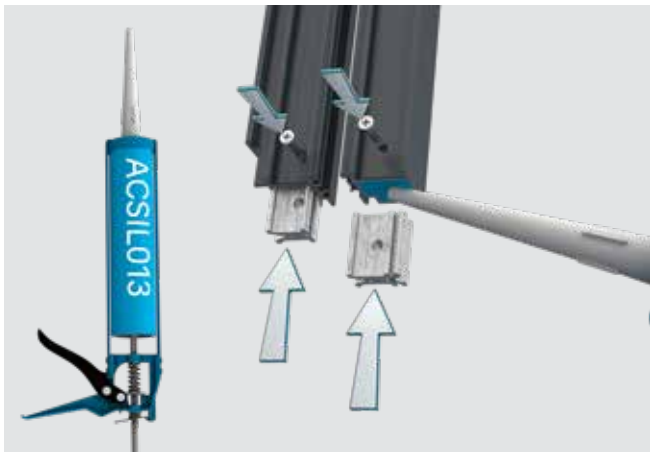
- Follow Section 2 (Assembling the Outer Frame with a Standard Threshold) to assemble the head section and two jambs.
- For the low threshold section of the outer frame, apply sealant to both sides of the end-caps and join them together with the screws provided.



The finished joint should look like this. Clean away any excess sealant once the joint is fully tightened.

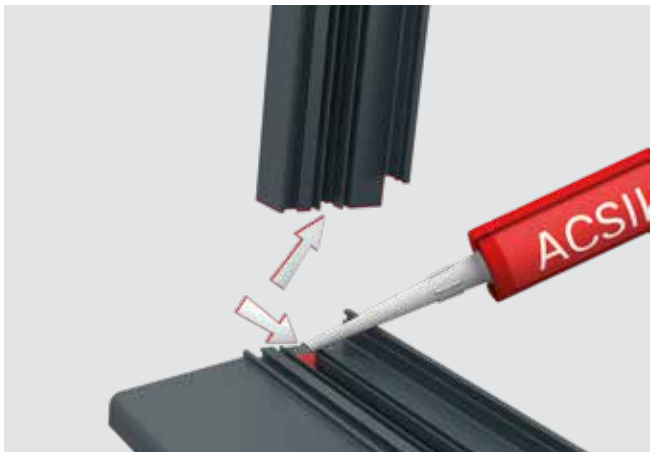
3.2

- With the screws tightened and the joint secure, the joint can be cleaned down.



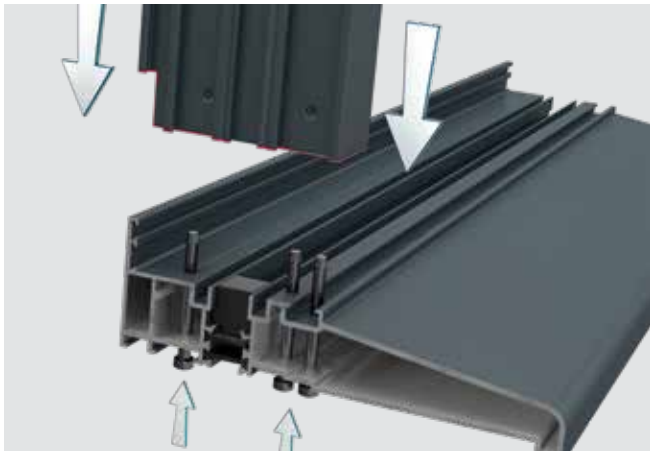
3.3

- Insert fixing blocks, fix with machine screws.



3.4

- Insert rubber bung into cill section and apply sealant to all joints.



3.5

- Screw through into fixing blocks from underside of cill.



3.6

- Apply sealant to end cap and fix in place.

4 INSTALLING THE CILL AND OUTER-FRAME

Check the outer frame fits into the opening

NOTE: the opening must be structurally sound, with the brick (or other substrate) above it supported with an approved structural element.

NOTE: the outer frame should be measured from the underside of the cill, not finished floor level.



4.1

- Before installing the door, apply generous amounts of sealant (ACSIL04) to all cill end caps and joints to dam the internal cavity.
- Push the end caps into position.



Fit cill end cap and dam this area with ASCIL04 to prevent any water egress.

IMPORTANT NOTE:

As the door features integrated drainage, the cills must be able to drain freely and so must not be horned.

It is essential that fixings are not installed through the thermal break of the cill. The surveyor is responsible for ensuring that suitable fixings are selected for the aperture into which the product will be fitted.



4.2

- Install the cill into the opening before the outer frame.

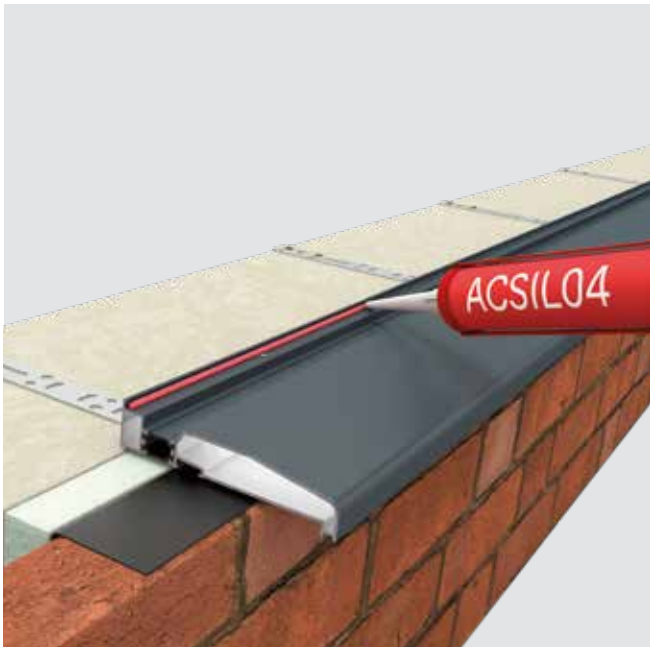
NOTE: the area must be clean and free from debris and sealant. Check the DPC is not damaged.

- If the door is to be installed directly into the substrate, secure it through the rear aluminium profile using suitable fixings. It must not be installed through the thermal break.

NOTE: Fixing straps can be used to secure the door to inner blockwork. Suitable fixings appropriate for the aperture should be used. Fix in accordance with BS 4873, 150mm from each end, with a maximum of 600mm centres.

IMPORTANT NOTE:

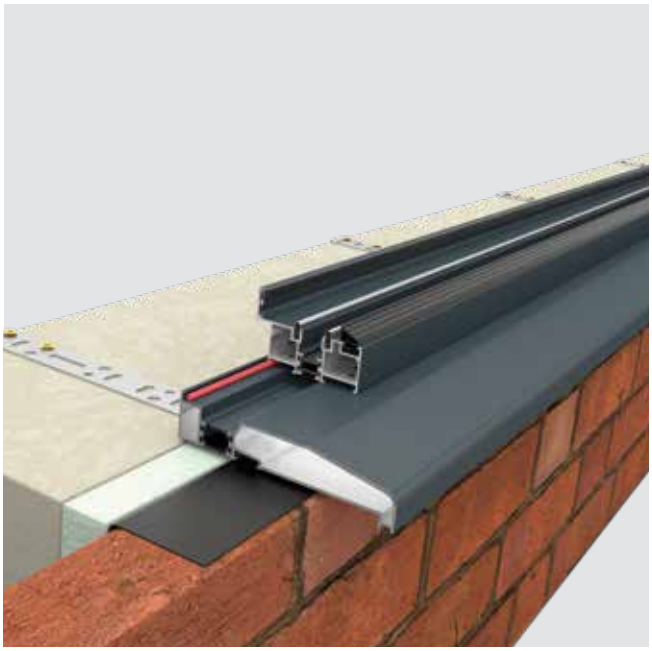
It is essential that the cill is installed level, using precision measuring equipment. Gauge and pack as required prior to fixing.



4.3

- If required, fit any frame add-ons before proceeding to the next stage.
- Apply a continuous bead of sealant (ACSIL04) along the back edge of the cill to bond it to the outer frame.

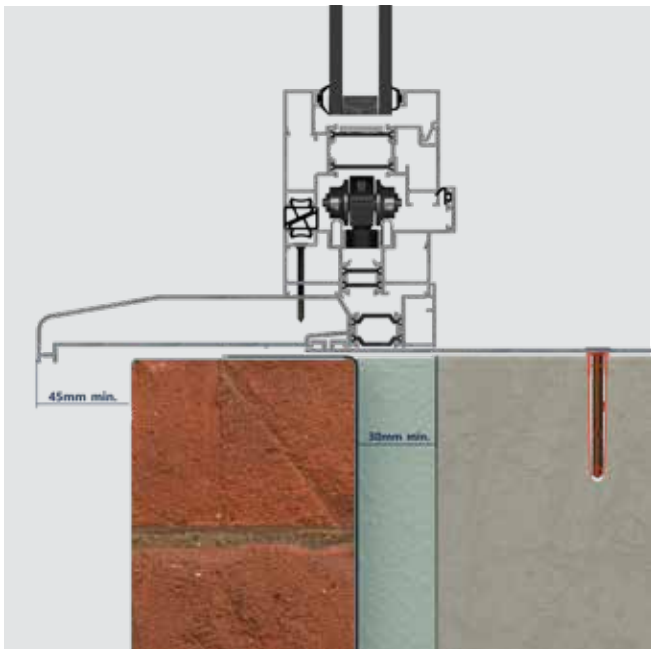
Note: the base of the frame MUST NOT be mechanically fixed into the cill.



4.4

- Lift the frames into the aperture, being careful not to damage them on the substrate.

NOTE: if fixing straps are being used, they must be locked to the outer frame before lifting.



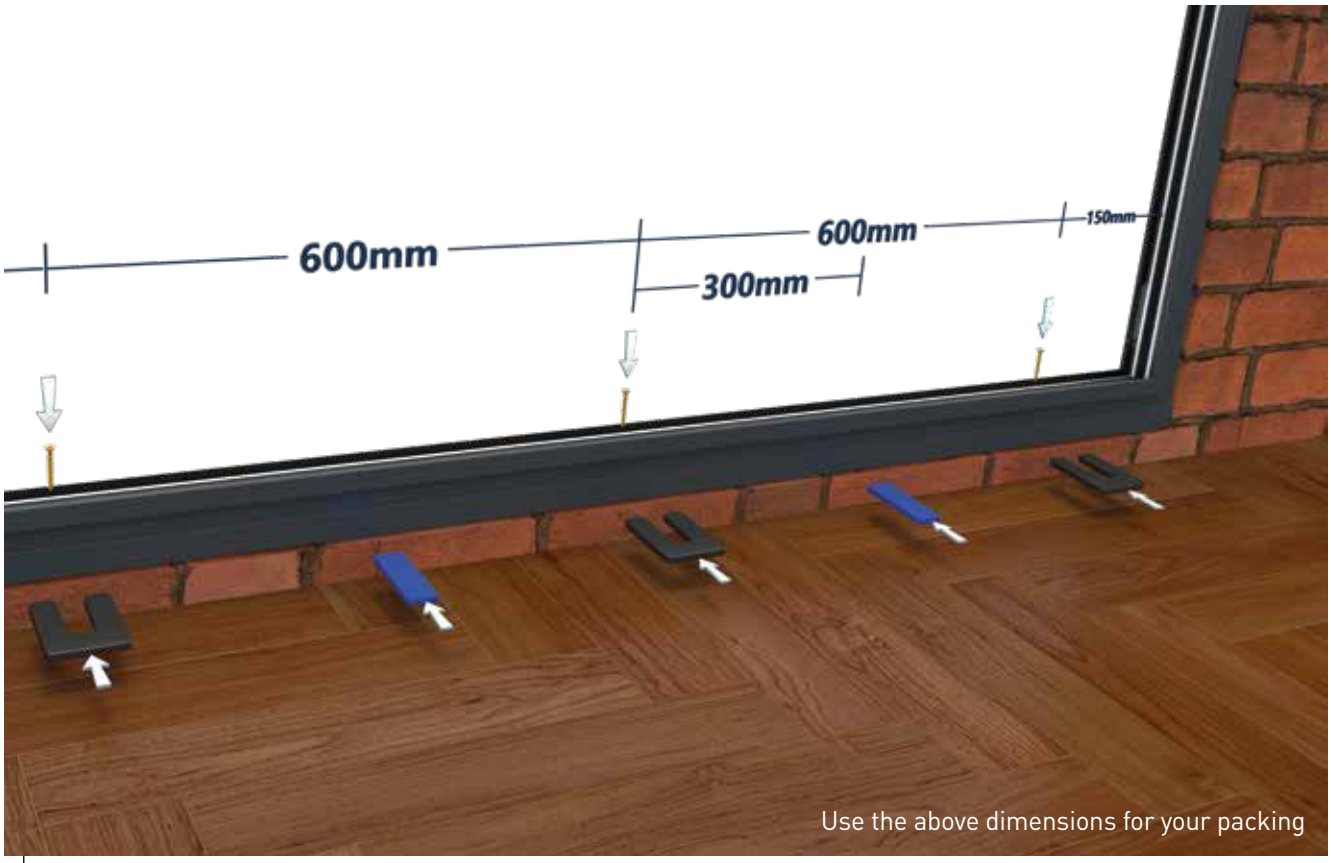
4.5

- If the outer frame is to be directly fixed to the cill, this must be done through the front aluminium section, to prevent unwanted water egress.

NOTE: screws must not protrude through the underside of the cill profile (maximum length 40mm).

- Follow all packing steps before mechanically fixing the frames.

5 FITTING THE OUTER-FRAME



Load bearing forces must not be transferred to any part of the frame during installation.

5.1

- If you have opted for no cill then position the outer-frame into the opening.
- Using a spirit level and tape measure, pack every 300mm around the outer-frame making sure it is level and plumb.
- Use a tape measure to check the diagonals are equal to ensure the outer-frame is square.
- Use a plumb line to check all the sections of outer-frame are straight and not bowed.
- Position packers either side of the fixing screws, so when they are tightened the outer frame isn't distorted.
- Once the outer frame is level, square and plumb, fix it to the surrounding brick work in accordance with BS 4873, 150mm from each end, with a maximum of 600mm centres.

6 ADJUSTABLE JAMB



FABRICATION STEPS:

1. Fix both DV551sections to the jamb using ACET070 screws at a max. of 100mm from each end, and 500mm centres.
2. Mark and drill sections DV551 and DV553 ready for the ACDV558 fixings: 100mm from head and cill, and one in the centre.
3. Secure the bearing plate to both the DV551 sections using the screws supplied.
4. Drill a Ø10.5mm hole through the DV553 polyamide in line with the bearing plate. Secure the adjustment bracket to both sides using the screws supplied.
5. Drill Ø3.5mm holes in the DV553 gasket channels to both sides of the adjustment bracket and through section DV551. Open the holes in DV553 to Ø5mm, countersink and secure with ACUN3513.
6. On-site, loosen the ACUN3513 dead fixing, adjust as required before re-tightening all dead fixings.

ON-SITE ADJUSTMENT:

1. On-site, loosen the ACUN3513 dead fixing, adjust as required before re-tightening all dead fixings.

7 FITTING THE SASHES



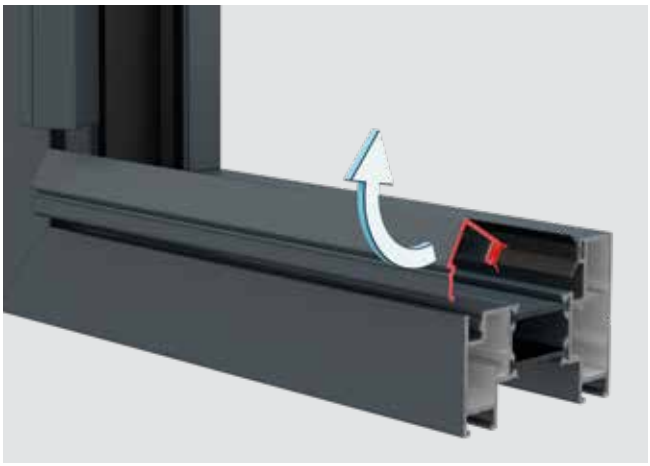
These two screws secure the sashes

7.1

- To refit the sashes, position each sash in turn into the outer-frame and re attach using the hex head machine screws.
- After all doors have been fitted, glazed and the toe and heeling operations have been completed, double check alignment and fix the 'final fix screw' through the remaining central hole in each hinge using 4mm drill bit and the Ø4.8 x 25mm CSK stainless steel self tapping screws provided (PZ2).

Failing to install these screws will result in Visofold 1000 Doors eventually failing.

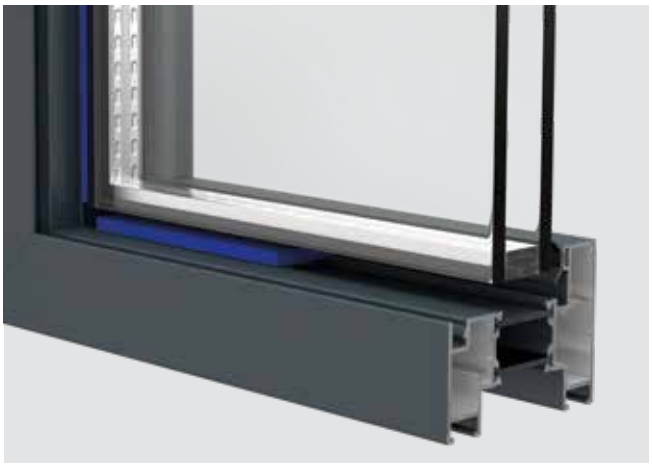
8 QUICK GLAZE BEAD & GLAZING



8.1

Using a glazing wedge, remove the pre-glazed beading (four lengths per sash).

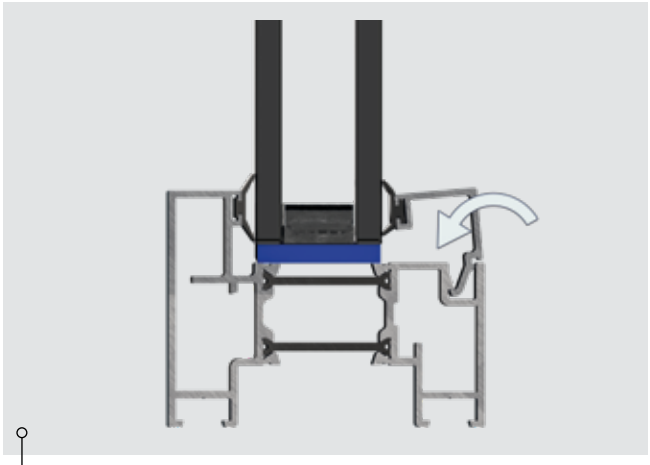
NOTE the original location of each bead.



8.2

- Prior to the glass being installed, fit the bottom glazing packers.
- Lift the glass units into the door sash.

NOTE: Large glass units should be lifted and installed by two people.



Ensure top fin of gasket does not roll under

8.3

- Starting with the horizontal beads, locate the bead in the clip channel of the sash.

NOTE: the co-extruded gasket may rest against glass unit.

- Apply firm pressure to the bead to hold it in position (this may cause it to fully lock in place).



Toe & heel glass unit as normal

8.4

- Using a nylon mallet and working from one end to the other, tap the bead into the channel.

NOTE: take care to avoid damaging the glazing unit or the bead.

9 TOE & HEELING



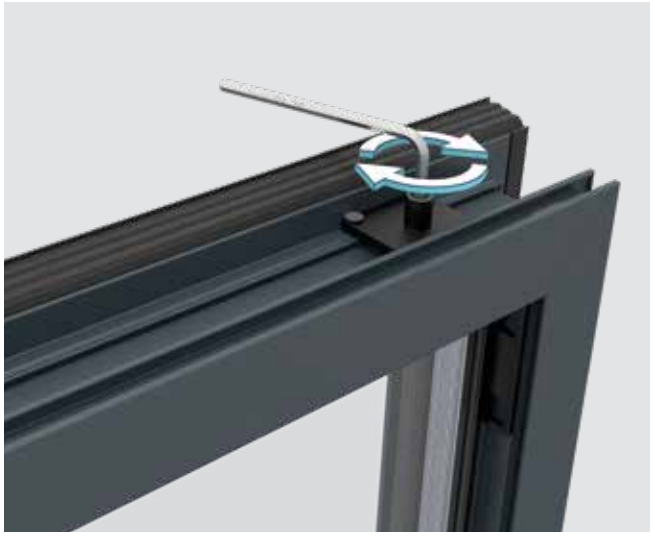
9.1

- Locate the L Packer.
- Position the reinforcing plate where it will come into contact with the pre-fitted adjustment bolt through the frame.



9.2

- With the doors slightly open, and working on the handle side of the sash, push the L Packer into the corner of the glass unit in the top corner. the top corner on the handle side of the sash.



9.3

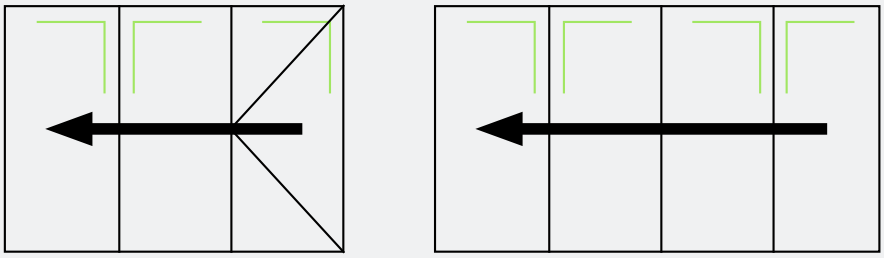
- Screw down the adjuster bolt using a 4mm Allen key, ensuring contact with the reinforcing plate to the required position.reinforcing plate to required position.



9.4

- Using a hex key, adjust the bottom roller as appropriate.

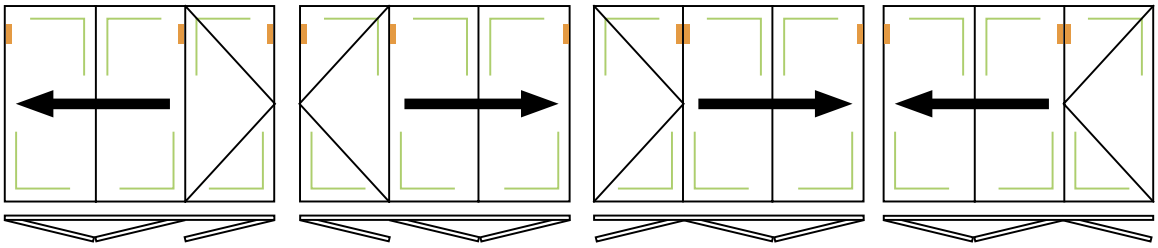
GLASS ADJUSTER KIT EXAMPLE



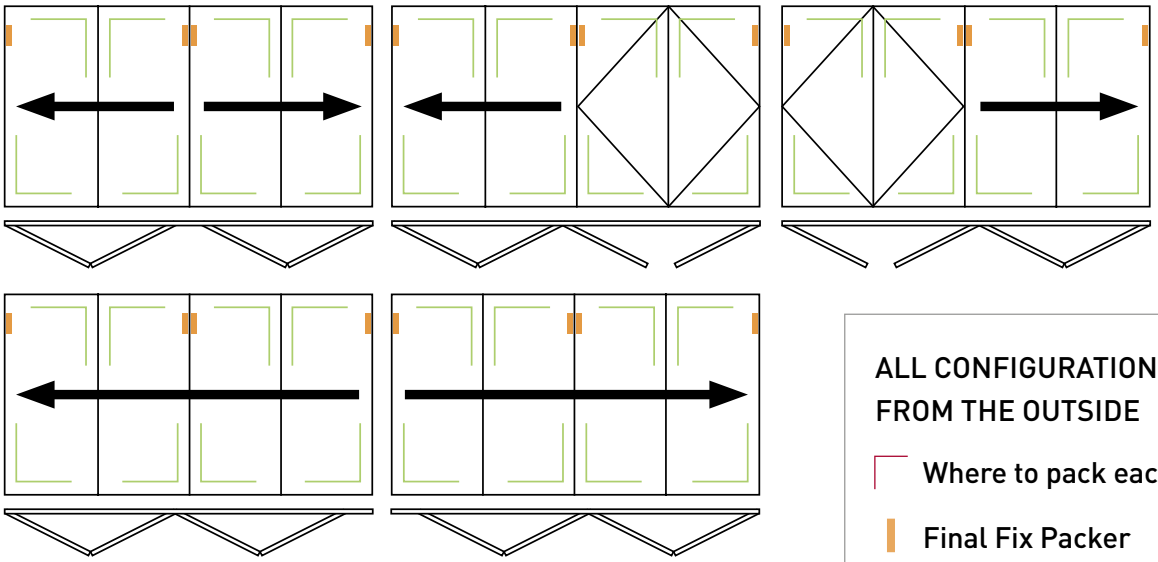
The adjuster kit will be pre-fitted to the top of the door sash where toe and heel packers would ordinarily be used. The bottom corners will be packed with enough clearance left for adjustment.

incorrect operation will result in damage to the glazing unit. The adjuster bolt must come into contact with the reinforcing plate. The glass must have sufficient clearance when adjustment is made. The glass must not touch the sash at any point. If it is close, then restart the process and re-adjust.

3 PANEL CONFIGURATIONS



4 PANEL CONFIGURATIONS



ALL CONFIGURATIONS VIEW FROM THE OUTSIDE

Where to pack each panel

Final Fix Packer

10 FINAL FIXINGS & MAGNETIC CATCH



Only fix the 'final screw' once all toe and heeling operations have been completed

10.1

- Double check the door's alignment and fix the final-fix-screw through the remaining centre hole in each hinge.
- Use the Ø4.8 x 25mm CSK stainless steel self tapping screws supplied (PZ2).



The wedge gasket is used to secure the glass firmly into the sashes and provide a seal

10.2

- To fit the glazing beads, replace them in the same order they were removed and secure them by fitting the glazing tear off gasket supplied.

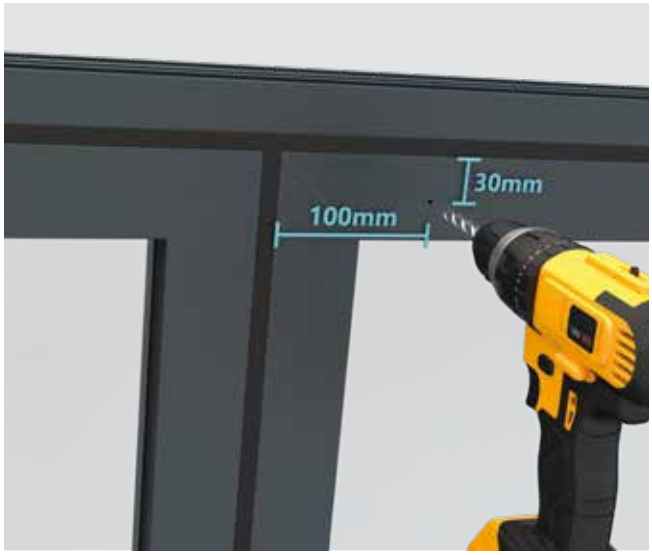
IMPORTANT NOTE:

Only required if fitting non-Quick Glaze Beads.



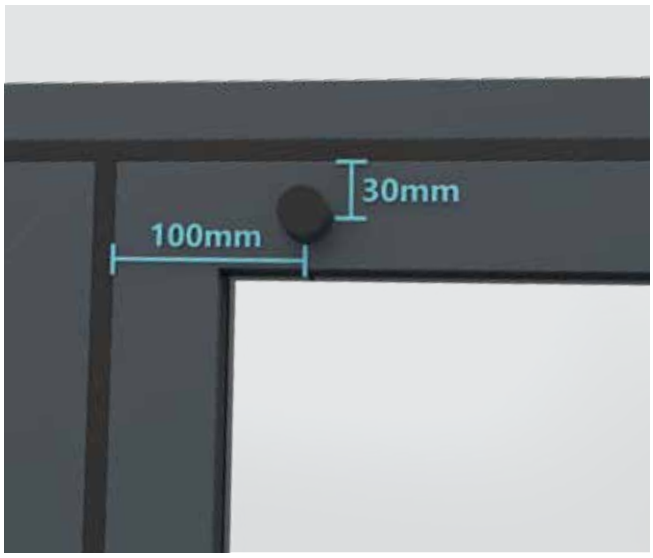
10.3

- To prevent the door from swinging in the wind, a magnetic catch kit is supplied.



10.4

- To install the catch, measure 100mm in and 30mm down from the top of the opening end of the traffic door.
- Drill a 3mm hole in the marked position for a MUA025 screw.



10.5

- Position the magnet over the marked position.
- Using the grub screw provided, screw it through the hole into the frame and through the centre of the magnet.
- Once secure, slide the cover over the top of the magnet.



10.6

- Repeat this process for the other half of the magnet on the sash next to the traffic door, such that when the door is fully open, the two magnets connect.

VISOFOLD –THE UK'S BEST SELLING BI-FOLD DOOR

More Options Greater Flexibility



Single Door



Double Door



Bi-folding Door

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