

Vufold External Composite Front Door & Sidelight Set

Assembly Instructions

Standard & Bespoke sizes



About your Vufold External Composite Door

Vufold products must be installed in accordance with accepted good trade practice and in accordance with these supplied instructions and maintained in accordance with the maintenance procedures in the Homeowners Manual, or else the warranty shall be void.

Important information

We recommend that a competent trades person install this product. These products are heavy so a single person must never carry out the installation alone.

Care of doors and frames on site

Please check the door, frame and sidelight(s) at the time of delivery to ensure that it is acceptable and in good condition. If you find any damage please inform Vufold immediately. When storing prior to installation the door and frame should be handled with care and stored in a dry, ventilated building.

Conditions of Sale

We shall not be held responsible for any incidental work expenses arising out of, or because of any defect, in our product, or bad workmanship to our product. In the event of the goods having manufacturing defects and requiring replacement, our liability will be limited to the value of the door or frame component only. These notes do not affect your statutory rights with the retailer of this product.

CONTENTS

Your Vufold External Composite Door set is supplied as a complete set, already assembled with the glass and the majority of the hardware already fitted. Loose components include sidelights, handles, hinge end caps and covers and drip cill / end caps.

Please check the contents of the packages to ensure all parts are present before beginning removal of previous door and assembly of your new door.

Door / Frame Parts

Composite Door PVC Frame
(assembled)

-Frame Head	Qty 1pc
-Frame Jambs (1 x Left & 1 x Right)	Qty 2pc
-Frame Threshold	Qty 1pc

PVC Drip Cill (loose) Qty 1pc

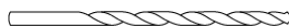
	SINGLE SIDELIGHT SETS	DOUBLE SIDELIGHT SETS
PVC Sidelight(s) (loose)	Qty 1pc	Qty 2pc
Sidelight Beading (loose)	Qty 4pc	Qty 8pc
Cover Strip (loose)	Qty 1pc	Qty 2pc

Installation Kit Includes:

A) Hardened Direct Frame Fixings 7.5 x 92mm - 12



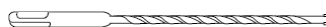
B) HSS Long Drill Bit 6.5 - 1



C) 1/4 " Hex Insert Bit T30 - 1



D) SDS Drill Bit - 1



E) No. 8 50mm Self Drilling Screw - 2



F) Insert bit 1/4 x 25 Pozi No2 - 1



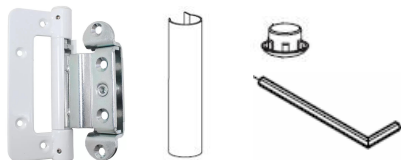
G) 70mm Self Tapping Screws with washer - 8



CONTENTS (Cont)

Hardware

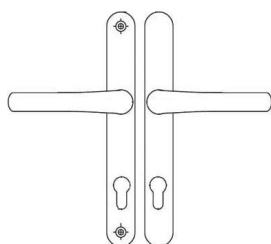
Qty 3pc Hinges (fitted) includes caps,
cover caps and 4mm Allen Key (loose)



Sidelight Glazing Clips
Qty 18 Clips per Sidelight

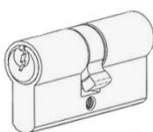


Standard Hardware Options



Lever Lever Handle
Qty 1 Pair (loose)

Multi-point
Trulock (fitted)



3 Star Euro Cylinder
Key/Key (fitted)

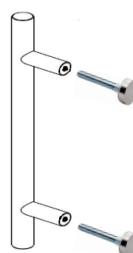


Hook Keeps
Qty 2
(fitted)



Centre Keep
Qty 1
(fitted)

Upgraded Hardware Options (Cont)



Short Bar Handle
600mm (loose)

Heritage Auto
Lock Qty 1
(fitted)



Magnet Qty 1 (fitted)

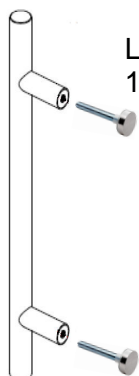


Hook Keeps
Qty 2
(fitted)

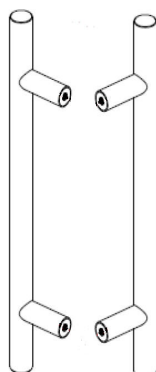
Centre Keep
Qty 1 (fitted)

Day Switch Qty 1
(fitted)

Upgraded Hardware Options



Long Bar Handle
1400mm (loose)



Double Long Bar
Handle 1400mm
(loose)



Escutcheon Qty 1
(fitted)



3 Star Euro Cylinder
Key/Thumbturn
Qty 1 (fitted)

Preparing the site

Before commencing the installation, double check the opening is the correct size and the items you've received are to the correct specification including size, handing, colour and glass before discarding any packaging. This includes any components that may be supplied fitted or loose. Check the items are free from damage. **We advise the existing door is not removed until all checks have been completed.**

Remove all old silicone, screws and nails if present. The brickwork opening should be 10mm bigger in height and width than the assembled outer frame size. Please ensure that all dimensions are correct for installation before proceeding as the door set must be installed square and level into the opening and cannot be trimmed. Composite Front Door & Sidelight outer frame dimensions & recommended brickwork openings for standard sizes;

Outer Frame

- 1430mm wide x 2079mm high
- 1583mm wide x 2079mm high
- 1932mm wide x 2079mm high
- 2238mm wide x 2079mm high

Brickwork

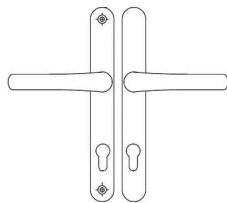
- 1440 mm wide x 2089mm high
- 1593 mm wide x 2089mm high
- 1942 mm wide x 2089mm high
- 2248 mm wide x 2089mm high

IMPORTANT- you should always allow 10mm clearance for in/out frame adjustment. Avoid pushing the frame tight against the plaster line as this could lead to the frame being fitted in twist.

Fitting the handles

Your handles are pre-machined and just need to be bolted / screwed onto the door. Take care to use the correct handle on the correct side of the door.

With lever handles fit the handle with the Screws on the inside



With double long bar handles, fit the pull bar with the small hole on the outside and the pull bar with the bigger hole on the inside.



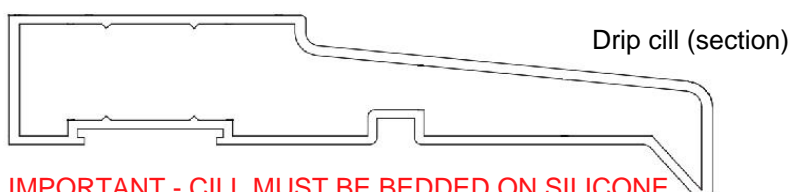
Levelling the drip cill

Glue the cill end caps into place and position the drip cill onto the base of the brickwork opening and place it so the frame head and jambs will be located in the correct position.

Using packers if necessary, level the cill until it is completely flat and level. Tack the packers in place with silicone for ease. Carefully remove the cill and add low modulus silicone sealant underneath, then reposition it level again.

Temporarily fix down the cill in position using the Direct Frame Fixings (A), using the HSS drill (B) to drill the UPVC cill and the SDS drill (D) for the brickwork.

Position two fixings where the door would sit and one fixing under the sidelight(s), spaced evenly.



IMPORTANT - CILL MUST BE BEDDED ON SILICONE

Joining the sidelight(s) and door frame

Door sets with sidelights come with the sidelight(s) supplied loose to enable fixings to be hidden when securing to the brickwork opening and the door outer frame. Note sidelights are internally beaded and so the beaded side should face to the inside of the property.

Remove the temporary beading from the inside face of the sidelight and carefully remove the glazing unit, setting it safely to one side.

IMPORTANT- glazing units can be sensitive to rapid changes in temperature. Ensure the glazing unit is set down on some card or sheeting and avoid placing directly on concrete etc. paying particular attention to the edges and corners of the glazing units which are most vulnerable to breakage.

The sidelight glazing packers will be siliconed in place, however pay attention to where they are positioned in case they come loose- they should be evenly spaced as shown opposite (Fig. 1)

fig. 1



An aluminium coupler has been pre-fitted to the sidelight during production. This attaches the sidelight to the door frame. (Fig. 2)

4 clearance holes have been pre-drilled during production which pass through the sidelight and aluminium coupler.

Align the sidelight and the door frame, ensuring they are plumb and level and push the frames together. Position quick grip clamps near each pre-drilled fixing point to ensure the frames do not distort.

Using the 70mm self-tapping screws (G) with a washer and pozi bit (F) attach and fix through the pre-drilled clearance holes, attaching the sidelight to the door frame from the sidelight side.

Aluminium coupler

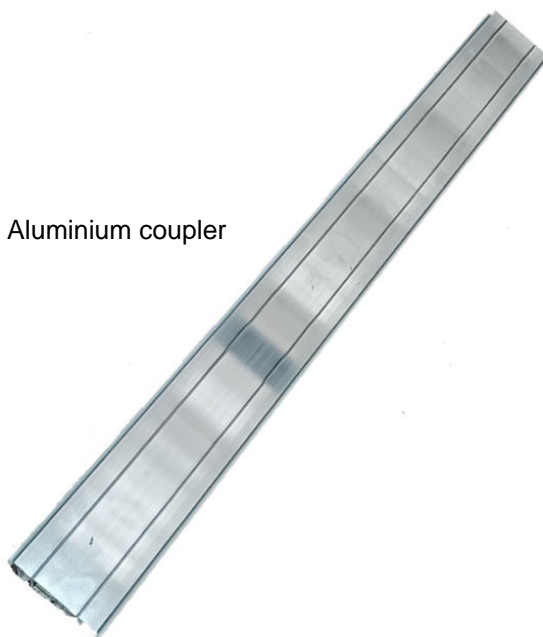
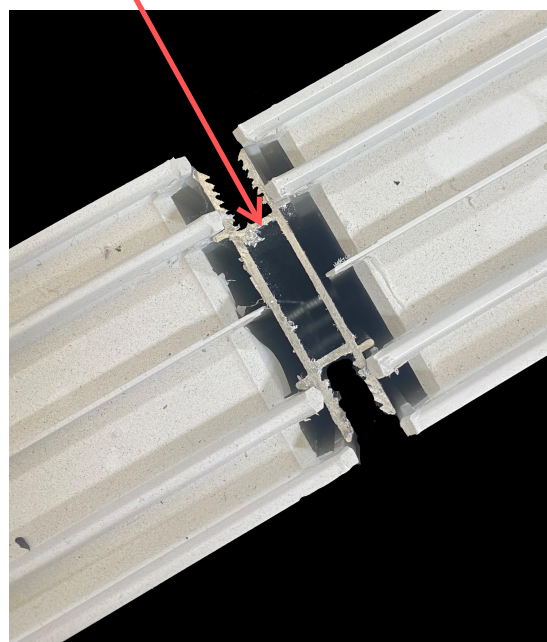


fig. 2

Aluminium coupler

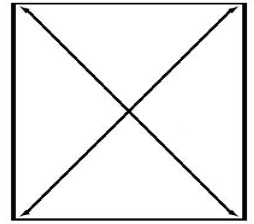


(Overhead view)

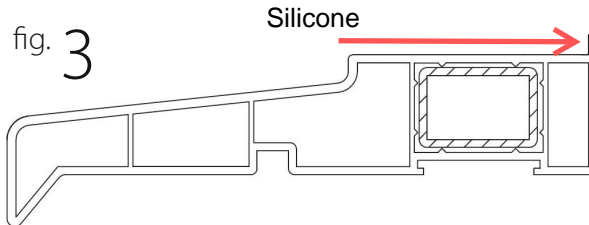
Repeat the process if the door set being installed has double sidelights.

Installing the assembled frame

IMPORTANT During the installation it is advised to repeatedly check the alignment and squareness of the outer frame. Measure the distance across diagonally to check squareness. Without these checks the installation may be unsatisfactory, causing damage to the door and incorrect operation.

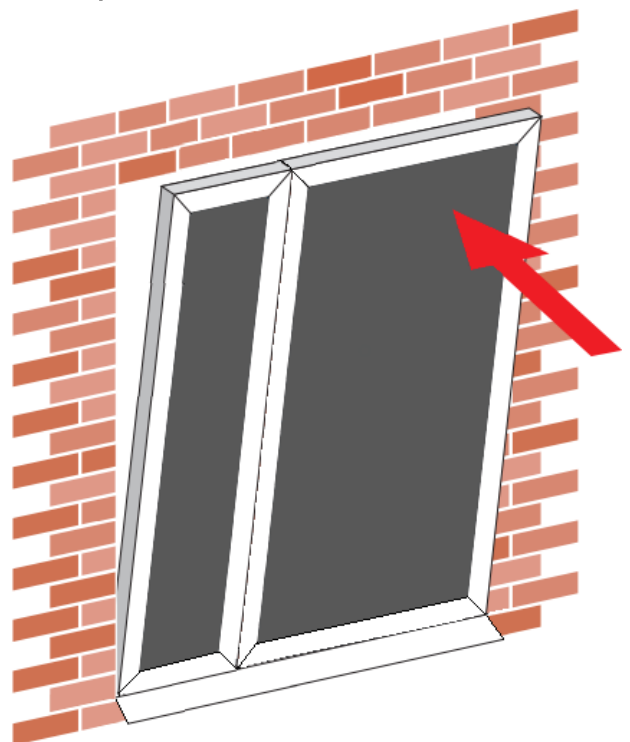


Run a bead of silicone along the back edge of the cill as shown (figure 3).



Carefully lift the door and sidelight(s) (two people required) and fit it into the brickwork opening (figure 4) resting on the cill already positioned as shown (figure 5)

fig. 4



IMPORTANT the frame should not be pushed tight back to the plaster line as this can lead to the door being fitted in twist.

fig. 5

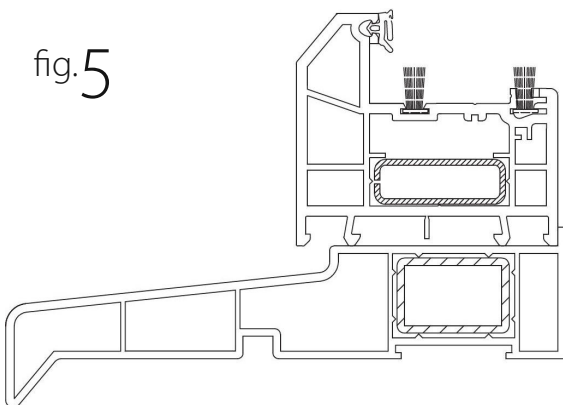
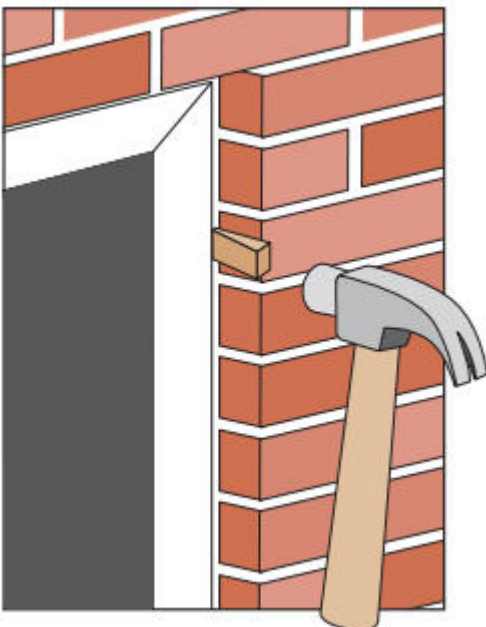


fig. 6



Using packers if necessary, level the door set until it is completely flat and level in the opening.

Use wedges/packers at both sides of the frame to temporarily hold the door set in the brickwork opening (figure 6)

Installing the assembled frame (Cont)

Use wedges/packers and frame packers to adjust the door set in the opening, to ensure it is square and level in every plane (figure 7)

fig. 7

We recommend you use a spirit level that is at least 2M in length. Frame packers should appropriately sized and placed adjacent to the frame screws used to secure the frame to the brickwork to ensure the frame is not distorted.

Make sure you have an even air gap between the door leaf and frame from top to bottom. If it is not equal you must correct it before moving on.

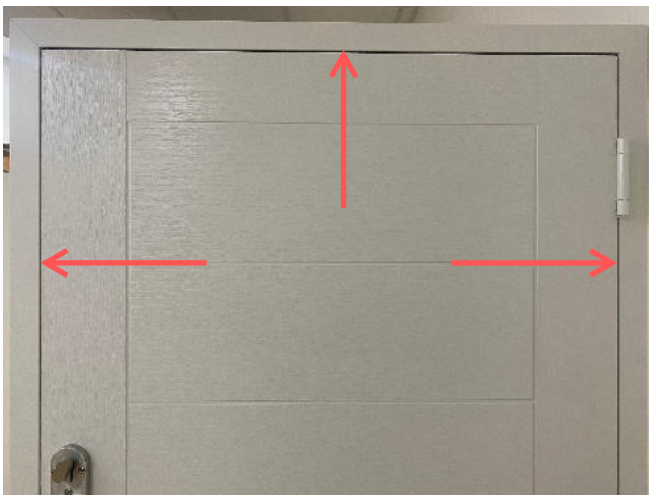
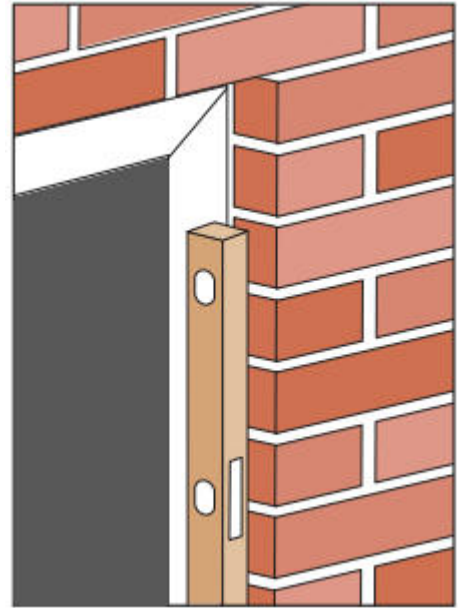
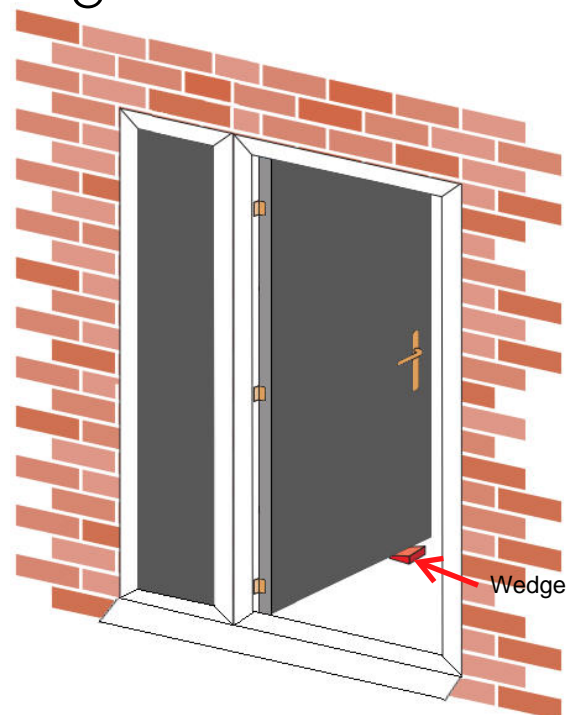


fig. 8

Open the door and support it underneath (figure 8). Then check again to ensure the frame is square and level in the opening, with an equal air gap. If it is not equal this must be corrected before proceeding.

Close the door and again check the air gap is even. if not continue to pack the frame until equal before moving on.



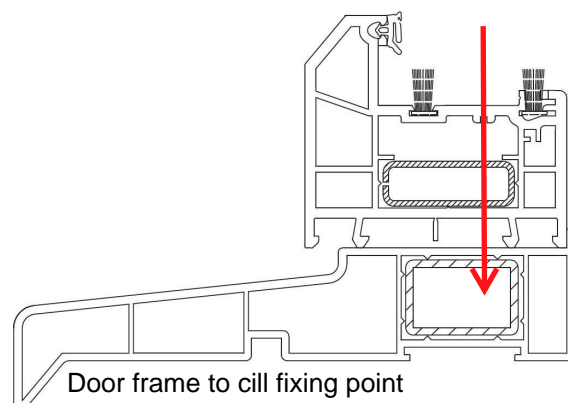
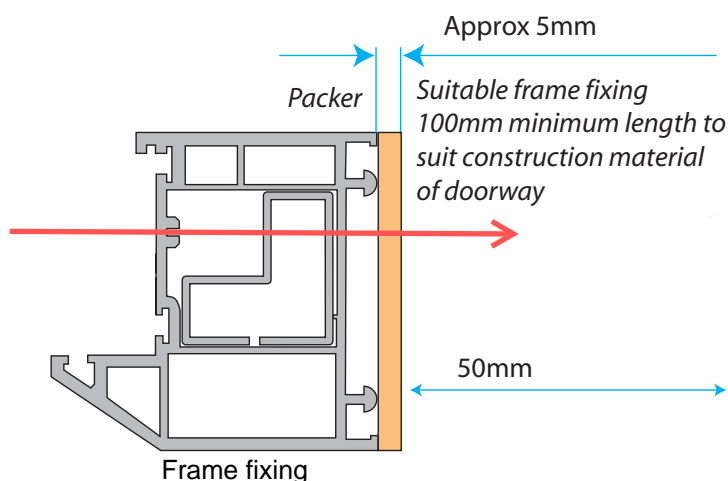
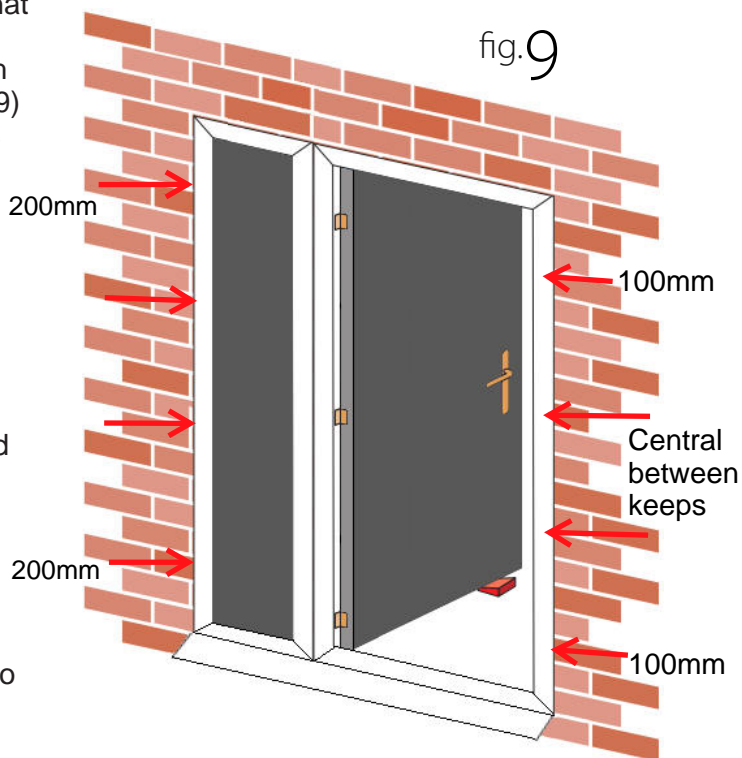
Installing the assembled frame (Cont)

Once you are happy the door set is in correctly, that is with an even air gap all the way round, fix through the outer frame into the brickwork through both jambs, with fixings at spacing shown (figure 9) using the direct frame fixings (A) provided (unless the construction of your building requires more appropriate fixings to suit the individual dwelling)

Generally all four sides of the frame should be secured however it is understood that dependant on the lintel used at the head, fixing at this point may not be possible.

Take care to avoid mortar joints as all fixings need to be secure. Use the direct frame fixings as follows:

- 1) Use the 6.5mm HSS drill (B) to drill holes in the frame jambs.
- 2) Use the 6.5mm SDS masonry drill (D) to drill into brickwork.
- 3) Use the Torx 1/4 hex T30 Bit (C) to screw in the direct frame fixings (A).



The bottom door frame section has been pre-drilled with clearance holes during production. You will need to fix the bottom of the door frame to the cill using the 50mm self drilling fixings supplied (E) with the pozi bit (F). The sidelight(s) do not fix down into the cill, they rest on top.

When all the fixing points are loosely secured, check the frame again to ensure it is level in every plane and square in the opening with an equal air gap. Finally, remove any temporary wedges and tighten the fixings, leaving the packers in place, and do one last check with the spirit level.

Do not over tighten the fixings and distort the frame

Installing the sidelight glass

Fit the sidelight glazing unit(s) into position by sitting it on the bottom packers and push it into place. Ensure equal spacing on either side and use packers to secure in place. Recommended packer spacing can be checked against Fig. 1 page 5 if required.

The sidelights have glazing clips in order to meet PAS 24 requirements. There are 18 clips per sidelight which fit into the sidelight frame and adhere to the glass. To fit them, remove the blue plastic backing off the sticky tab.



fig. 10

Line the clips up as shown in Fig. 10. These should be positioned 100mm from each corner, so Qty 2 clips per corner.

Angle the clip as shown below (Fig. 11)

Push the clip down so the sticky tab is on the glass and the metal part sits under the lip on the frame as shown below (Fig. 12)

Repeat for all other clips round the corners and then situate the rest of the clips up the sides of the frame, 5 each side spaced evenly between the glazing packers.

fig. 11

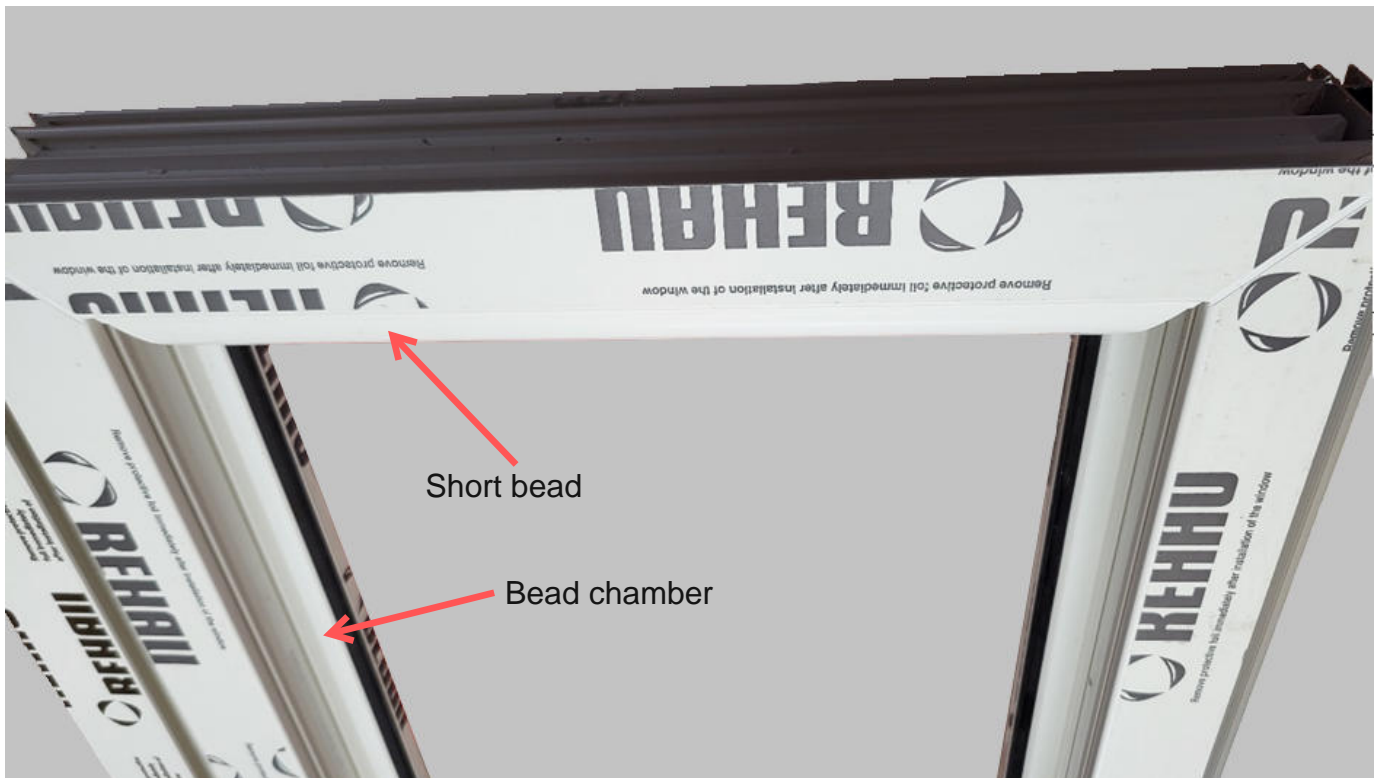


fig. 12



Fitting the sidelight beading

Once the glass is in place put the 2 small beads in top and bottom. A small rubber hammer will be needed to gently tap the beads into the bead chamber

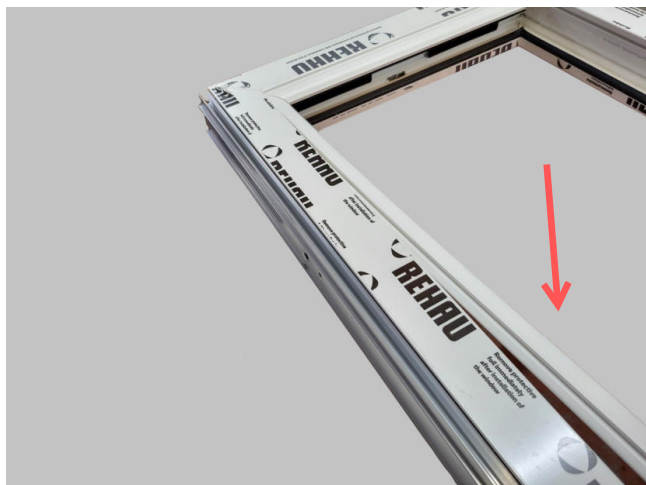


Place the long side beads into each corner



Fitting the sidelight beading (cont)

This will require a slight bending of the bead to get it into place.



Once each corner of the bead is in place it will require a small amount of pressure to straighten the bead and again tap into place with the rubber hammer into the bead chamber

The beads should sit nice and flush once its been tapped into place.



Final adjustments

Try opening and closing the door and then try locking the door. If the door is not opening and closing easily, small adjustments can be made using the adjustable hinges.

- Remove the lower cap and cover cap as shown (Fig. 13)
- Open the door and unscrew but do not fully remove the lower security screw marked (2) (Fig. 14)

fig. 13

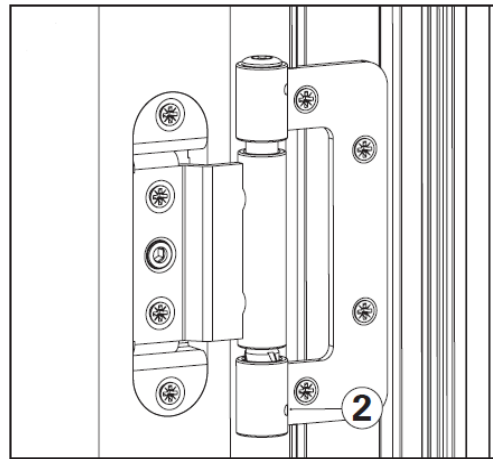
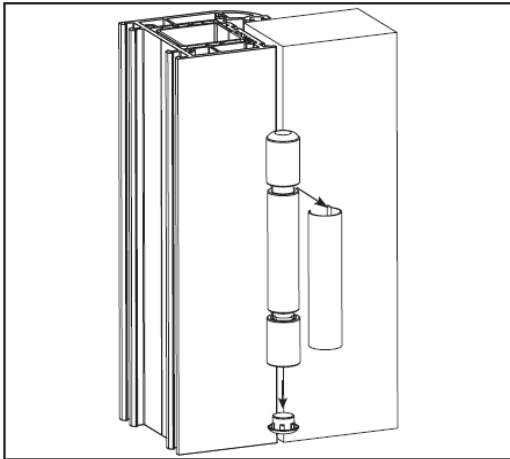


fig. 14

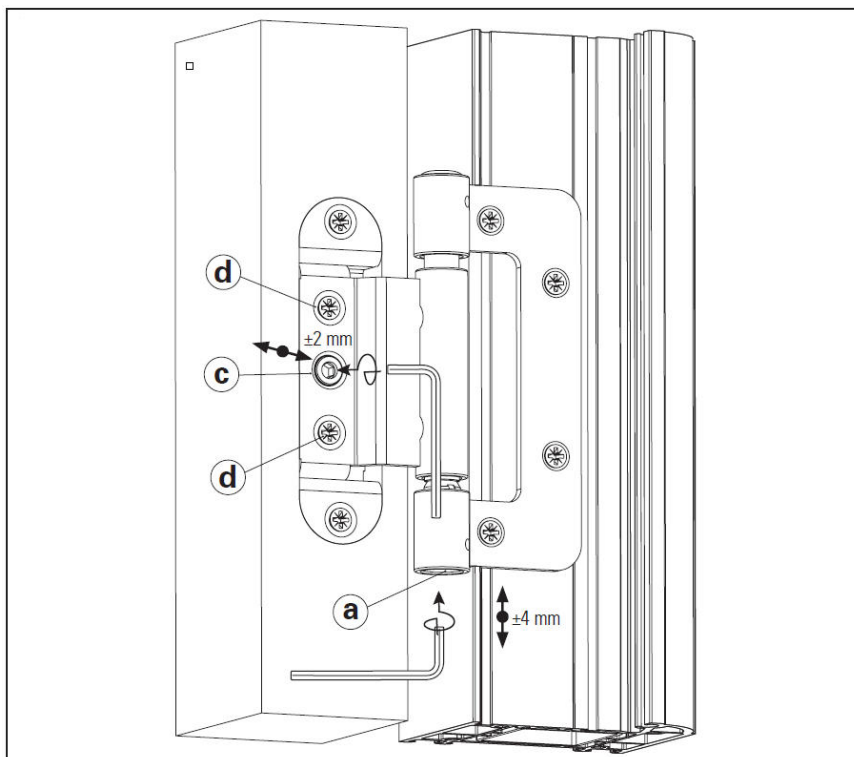
HORIZONTAL ADJUSTMENT

To increase the air gap between the door and frame, loosen screws (D) adjust by turning screw (C) with a 4mm Allen key and tighten screws (D).

To reduce the air gap turn screw (C) and tighten screws (D)

HEIGHT ADJUSTMENT

Adjust by turning screw (A) with a 4mm Allen key.



- Open the door and tighten the security screw removed in Fig. 14

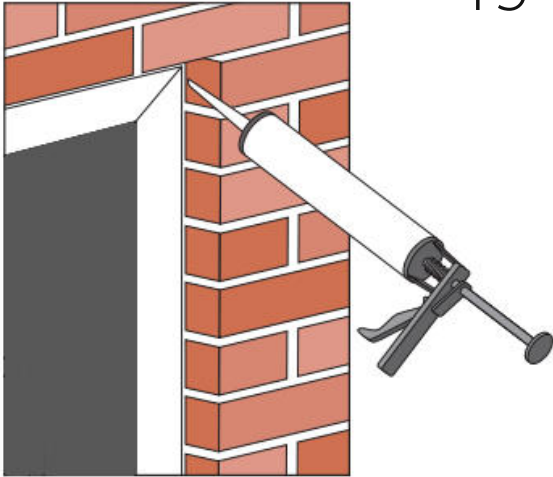
- Replace the lower cap and cover cap removed in Fig. 13

Sealing the outer frame

If necessary use expanding foam to fill the gap between the frame and the brickwork taking care not to get it on the frame & door. Ensure just enough is used not to distort the frame when it expands.

Once this has dried it can be cut away and silicone sealant or similar used to seal around the outside perimeter of the door frame. Ensure the frame is free from dust and debris before applying to ensure an adequate barrier is created to prevent any water or air leakage (Fig. 15). Remove any protective film before sealing.

fig. 15



Seal under and around the outside of the cill, ensuring you do not block any of the drain holes

Repeat the frame sealing on the inside using decorators caulk and/or PVC trims.

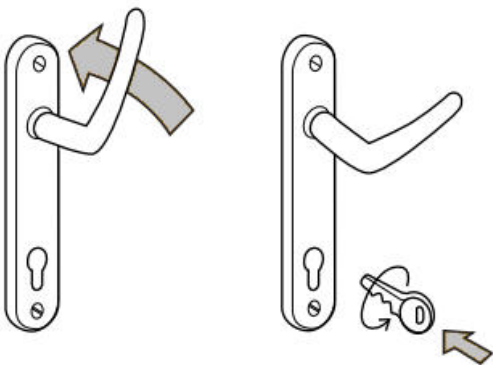
Take care to ensure any drainage holes are kept clear of debris and sealant.

Place the cover strip over the join between the sidelight and door frame, and push into position.



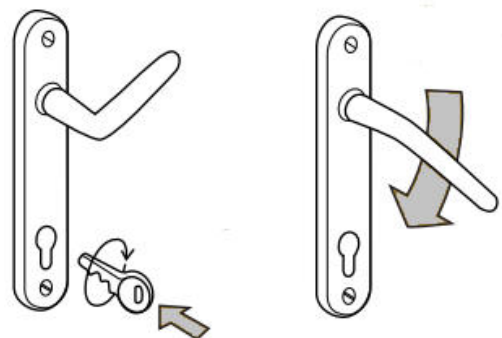
Operation

Door set with standard Handle & Lock



Locking - to lock, lift the handle lever in an upwards direction to throw all security bolts. This will engage all locking points into the keeps.

Allow the handle to return to the horizontal position. To deadlock, turn the key one full turn towards the edge of the door. This will secure all bolts. In this condition the handle cannot be pushed down. Remove the key.

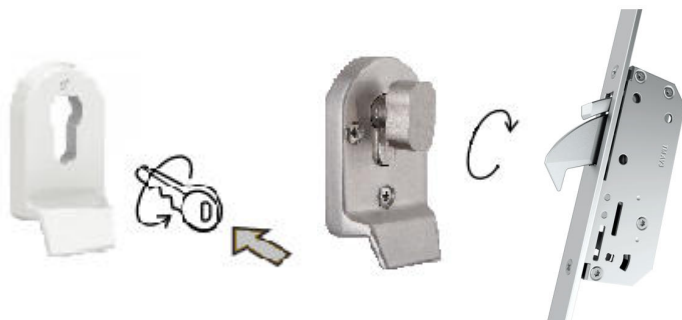


Unlocking - turn the key one full turn away from the edge of the door. This disengages the deadlocking security.

In order to retract the security bolts push the handle lever in a downwards direction and the door is then free to open.

Operation (Cont)

Door set with Auto lock / Escutcheon with thumbturn



Unlocking - From the outside turn the key away from the edge of the door. This disengages the hooks and retracts the latch. The door is then free to open, use the handle to push the door open.

From the inside, turn the thumbturn away from the edge of the door to perform the same action. Use the escutcheon (or handle if selected) to push / pull the door.

Locking - As you close the door the multi-point locking duo hooks automatically engage.

Day switch

The day switch acts as a snib function allowing access from the outside without a key. Pushed down it will allow the door to open from the outside, pushed up it will prevent the door being opened from the outside without a key.

The day switch is pre-fitted into the centre keep on the locking side of the frame, and is a small blue plastic catch as shown opposite.



Care and Maintenance

Vufold Composite Front Door Sets should be cleaned at regular intervals which should only be done with warm soapy water and a soft lint free cloth. Any hardware cleaned should be immediately dried off with a soft lint free cloth.

The threshold should be kept clear of debris and regularly cleaned to ensure the drainage channels remain clear, which can be done whilst cleaning the rest of the door set. The threshold should be stepped over when entering and leaving and not used as a step, to avoid damage to the threshold and seals.