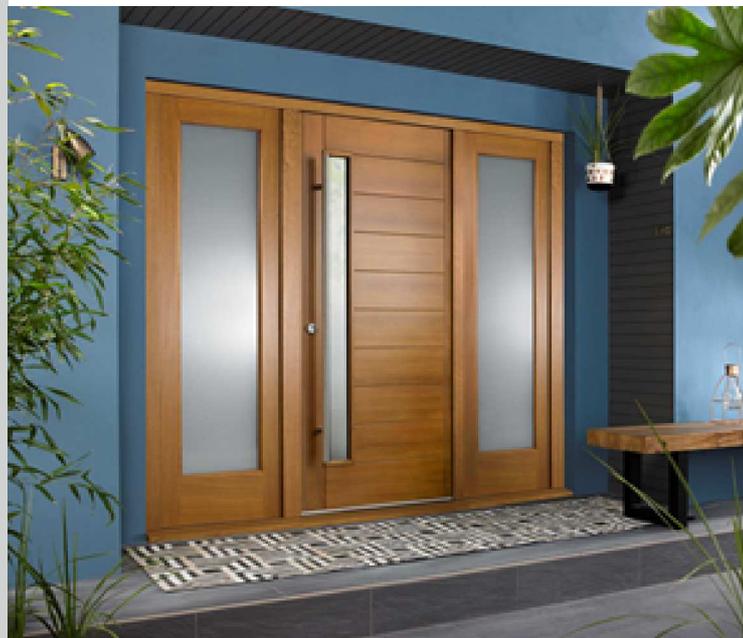


ULTIMATE EXTERNAL DOORS AND EXTERNAL DOOR FRAME WITH SIDELITES

Assembly Instructions



ULTIMATE EXTERNAL DOOR FRAME WITH SIDELITES

Single Sidelite Frame: - Reversible for (Left or Right Sidelite)

610mm Sidelite: Assembled Frame Size 2079mm H x 1583mm W

Brickwork opening Size 2089mm H x 1593mm W

457mm Sidelite: Assembled Frame Size 2079mm H x 1430mm W

Brickwork opening Size 2089mm H x 1440mm W



Double Sidelite Frame:

610mm Sidelites: Assembled Frame Size 2079mm H x 2238mm W

Brickwork opening Size 2089mm H x 2248mm W

457mm Sidelites: Assembled Frame Size 2079mm H x 1932mm W

Brickwork opening Size 2089mm H x 1942mm W



Assembly and Installation Instructions

USE THE ULTIMATE EXTERNAL DOOR
FRAMES WITH SIDELITES

ONLY FOR :

Door Size 1981mm x 838mm (78 x 33)

OPEN INWARDS - NOT suitable for Open Outwards Doors.

Door Models:



MALMO



OSLO



STOCKHOLM

About your ULTIMATE External Timber Door Frame with Sidelites

ULTIMATE External Door Frames with sidelites 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 tradesperson install this product.
- The Door and Sidelites and Frame are heavy so 2 people are required for installation.
- A single person must never carry out the installation of the door set.

Care of Timber Doors and frames on site

- Please check the Door, Frame and Sidelite at the time of delivery to ensure that it is acceptable and in good condition.
- When storing prior to installation the frames should be handled with care and stored in a dry, ventilated building. Doors, Sidelites and Frames should be stored flat on a level surface (not on edge or on end).
- Doors, Sidelites and Frames should not be stored or fitted in the building until the wet trades such as plastering, painting etc. have been completed and the room is dried out.

The properties of timber

No two trees produce identical grains or colour of wood and this adds to the beauty of a natural product. We therefore cannot guarantee that all the frame components will look exactly the same in grain and colour. Warping of wood is not a defect if it does not exceed 1/4 inch (6mm) in its installed position.

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.

Timber ULTIMATE Eternal Door Frames with Sidelites

All of our Timber ULTIMATE Doors, Frames and Sidelites are manufactured using the latest technology to reduce warping, bowing, twisting or splits - this is referred to in the trade as 'Engineered Construction'.

This construction provides very stable frames, doors and sidelites and excellent strength.

Factory Pre-Finished

Your ULTIMATE External Door Frame, Sidelites and Door are completely factory pre-finished with a High Build microporous wood coating system comprising one base coat and 2 top coats to provide a lovely appearance and superior protection against UV and the weather and is ready to install.



CONTENTS

Frame with Door and Single Sidelite Left or Right (REVERSIBLE)

Frame Jambs L/R	Quantity 2pc
Frame Mullion Reversible L/R	Quantity 1pc
Frame Head	Quantity 1pc
Frame Cill	Quantity 1pc
Aluminium Threshold	Quantity 1pc
External Weather Bar	Quantity 1pc
Internal Bead	Quantity 3pc

 Draft seal AQ21 Weather Seal 2.3m length	Quantity 3pc
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*Sidelite 457 or 610mm Quantity 1pc

* Which ever size has been selected.

ALSO Required - Purchase Separately
External Door Malmo, Oslo, Stockholm Quantity 1pc
1981mm x 838mm (78 x 33) size only.

Frame with Door and Double Sidelites

Frame Jambs L/R	Quantity 2pc
Frame Mullion L/R	Quantity 2pc
Frame Head	Quantity 1pc
Frame Cill	Quantity 1pc
Aluminium Threshold	Quantity 1pc
External Weather Bar	Quantity 2pc
Internal Bead	Quantity 6pc

 Draft seal AQ21 Weather Seal 2.3m length	Quantity 3pc
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*Sidelites 457 or 610mm Quantity 2pc

* Which ever size has been selected.

ALSO Required - Purchase Separately
External Door Malmo, Oslo, Stockholm Quantity 1pc
1981mm x 838mm (78 x 33) size only.

Installation Bag Contents

Hardened steel wood screws pozi flat countersunk yellow



- A) M6 x 80mm - quantity 4
- B) M5 x 70mm - quantity 20
- C) M5 x 60mm - quantity 12

D) 1/4 Hex pozi No.2 insert bit - quantity 1



E) Hardened steel frame fixings - quantity 10
7.5mm x 92mm



F) HDS long drill bit 6.5mm x 148mm - quantity 1



G) SDS drill bit 6.5mm x 160mm - quantity 1



H) 1/4 Hex T30 insert bit - quantity 1



I) Stainless Steel Panel Pins - quantity 30

J) Cover caps

- Brown - quantity 10
- Grey - quantity 10



ASSEMBLY OF THE FRAME

The Frame with Single Sidelite or Double Sidelites is designed to fit the Single ULTIMATE Door Size: 1981mm High x 838mm Wide.

IMPORTANT NOTE

As the ULTIMATE Frames, Sidelites and Doors are completely factory Pre-Finished. We have designed the Frame, so it can be assembled and the door will have the clearances for Hinges, lock and aluminium threshold already allowed for, which means the door will not require trimming to size in Height and Width. The allowed clearances are 5mm at the top, 13mm at the bottom and 4mm each side.

When the frame is assembled, the door opening space between mullions (2 Sidelites) or mullion and frame (Single sidelite) are:

To Fit 1981mm x 838mm Door Size Only - OPEN INWARDS.

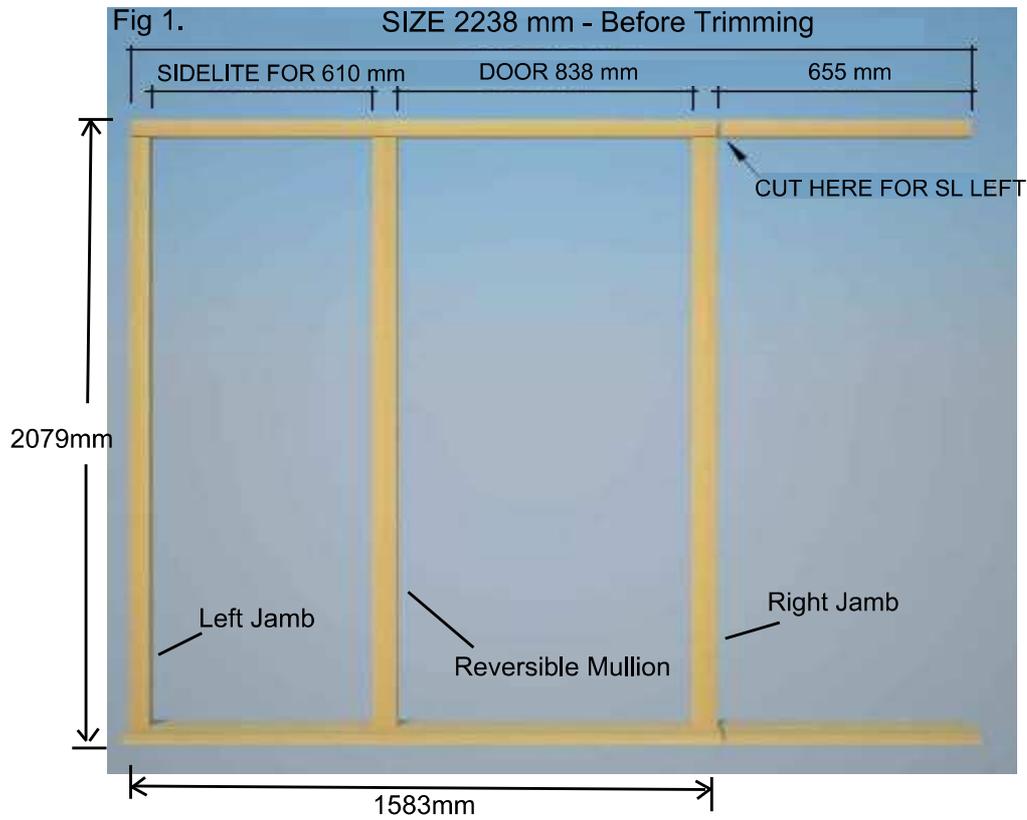
Table A:

Door Height 1981mm (78"): 1981mm + 5mm + 13mm = +/- 1999mm from Top of Cill to inside of frame head rebate.
Door Width 838mm (33"): 838mm + 8mm = +/- 846mm = Distance between the mullion rebates (2 Sidelites) or the Distance between the mullion and jamb rebates (Single Sidelite).

ASSEMBLY OF THE FRAME with Single 610mm Sidelite

OPTION 1

610mm Sidelite on the Left - Looking from outside to inside.



Assembled outer frame size: 2079mm High x 1583mm Wide
Brick work OPENING size : 2089mm High x 1593mm Wide

OPTION 2

610mm Sidelite on the Right - Looking from outside to inside.



Assembled outer frame size: 2079mm High x 1583mm Wide
Brick work OPENING size : 2089mm High x 1593mm Wide

OPTION 1 AND 2

The Door opens INWARDS

The Frame assembly is shown in Drawing Fig 1 / Fig 2 and pre drilled holes and stickers are provided to guide installation.

1.) To start the frame assembly, using cardboard or other suitable protection, lay the complete frame out on the floor, with the wider, thicker part of the frame upwards. (2pc Frame Jambs L/R, 1pc Frame Head, 1pc reversible mullion and 1pc Cill - sloping part upwards towards you).

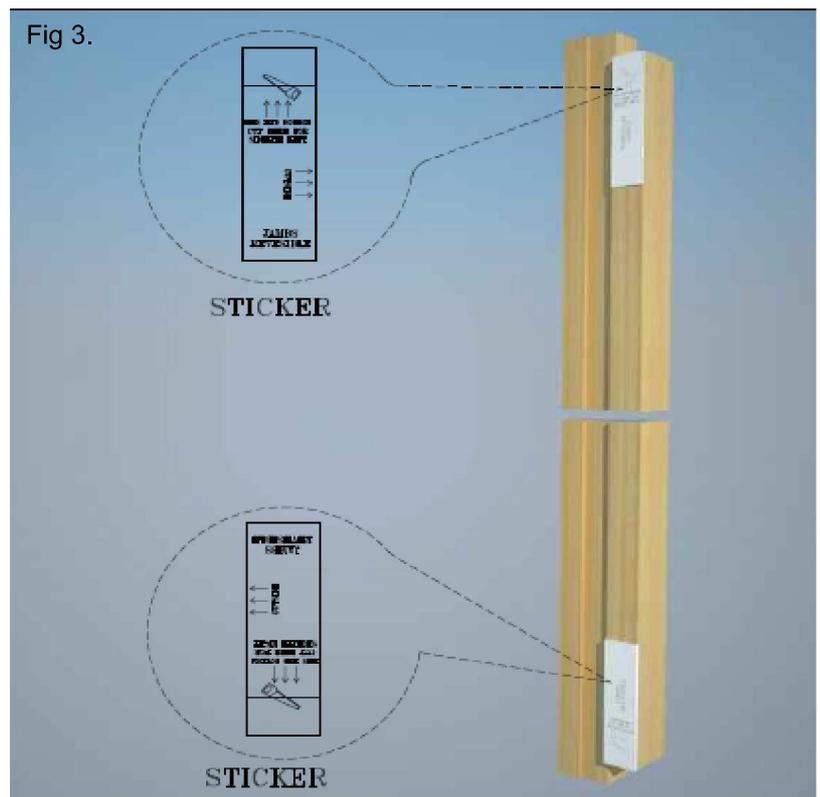
For Sidelite on the LEFT - option 1, with the LEFT frame jamb level with the outside of the frame head and cill insert 1 or 2 screws, through the pre drilled holes to hold the jamb in position - but not fully tightened.

For sidelite on the RIGHT - option 2, fix the RIGHT jamb first.

a.) Look carefully at the reversible mullion - which is machined at both ends to fit the frame head. Having decided on the correct location between the Frame head and Cill. Cut the end which fits to the Cill to the correct length ensuring the cut is completely square.

The other end of the mullion is profiled to fit into the frame head.

Mullion reversible Left or Right



The End which fits to Cill must be cut square

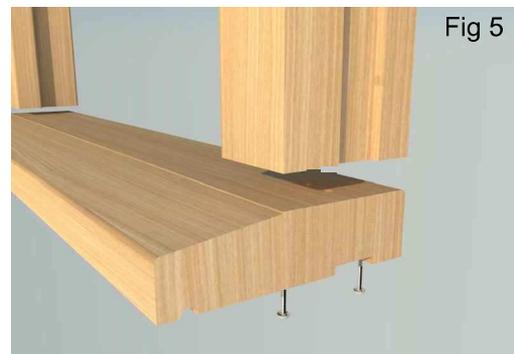
ASSEMBLY OF THE FRAME with Single 610mm Sidelite Continued

OPTION 1 and 2 continued

b.) For the sidelite on the LEFT - Option 1, take the RIGHT frame jamb (for sidelite on the RIGHT - Option 2 it will be the LEFT frame jamb) and place it in position between the head and cill approximately 1583mm outside left jamb to outside right jamb. Secure with just 1 or 2 screws top and bottom through the pre drilled holes. Then locate the mullion, and secure that with just one or two screws through the Head and Cill.



Fixing frame jamb to head



Fitting jamb to Cill

c.) Carefully turn the complete frame over so the INSIDE of the frame is now facing upwards (you will need a block under the frame head to bring the height to the same level as the Cill).

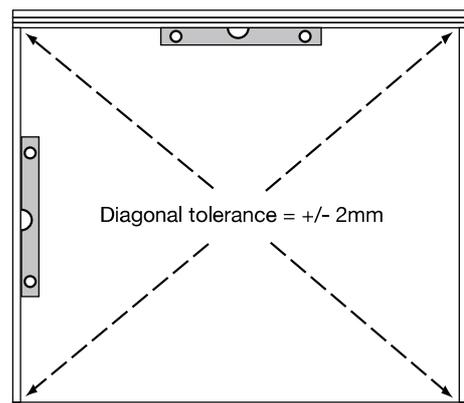
Carefully " Trial " install the sidelite into the space between the mullion and the left frame jamb - Timber piece on the bottom of the sidelite fits into the groove on the Cill.

Centre it in the opening and use plastic packers to hold it into position with the packers close to the 6 pre drilled fixing holes. Check the space where the door will fit, the space should be +/- as shown in Table A. on page 5 of these Assembly Instructions.

If necessary adjust and slightly change the location of the mullion and right or left frame jambs until the correct door space is achieved. When you are completely satisfied the spacings are correct and the frame is completely square and true (Fig 6.), using waterproof adhesive and/or silicone sealant on the joints, completely fix all the frame jambs/mullion to the head and cill, tightening all the screws fully.

d.) Remove the Sidelite and store on one side.

Fig 6



Very Important. Carefully check frame is tightly fixed together and is square. Diagonals of frame must be equal +/- 2mm.

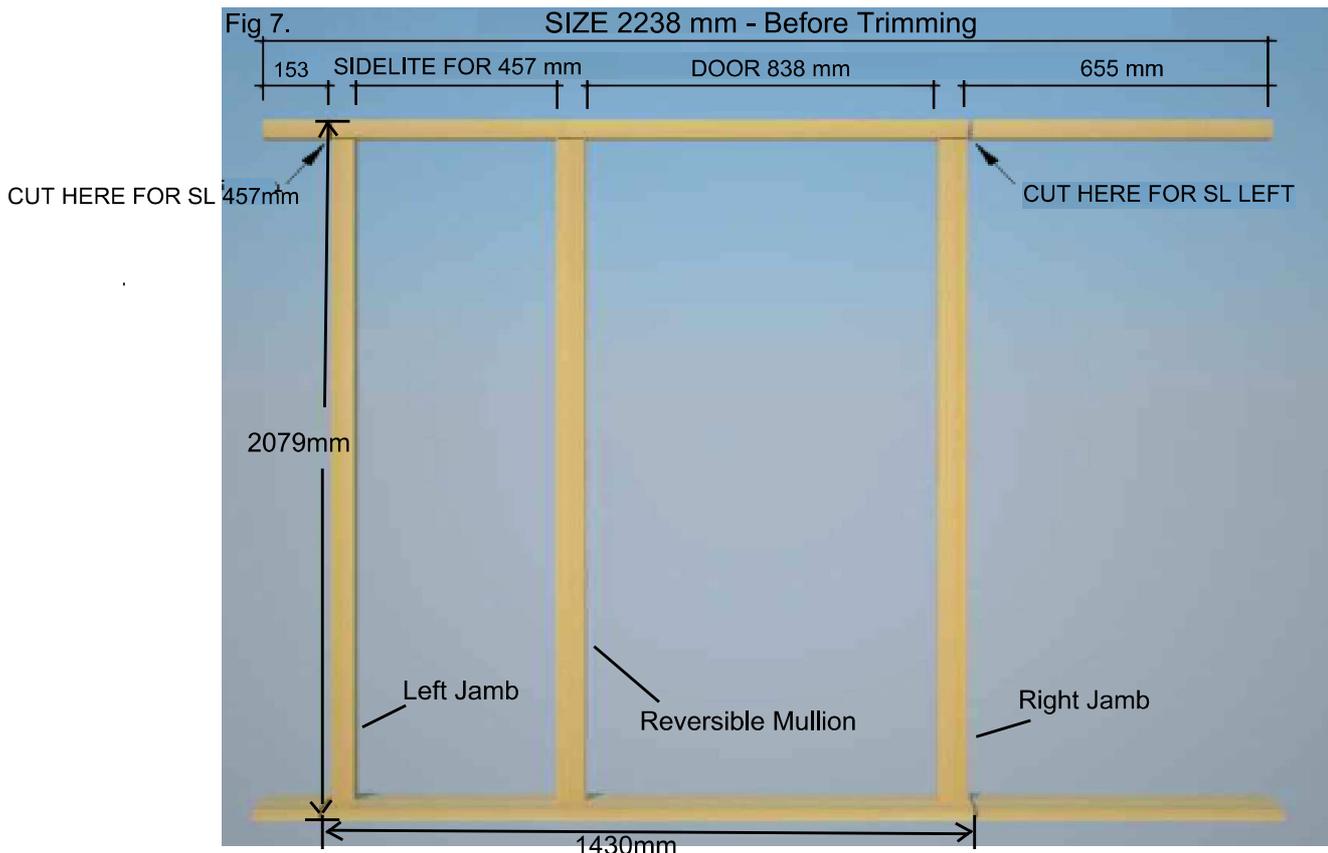
Do not proceed with the installation if the frame is not square.

e.) Carefully trim off the overhanging excess Cill and frame head so they are level with the outer edge of the frame jamb.

ASSEMBLY OF THE FRAME with Single 457mm Sidelite

OPTION 3

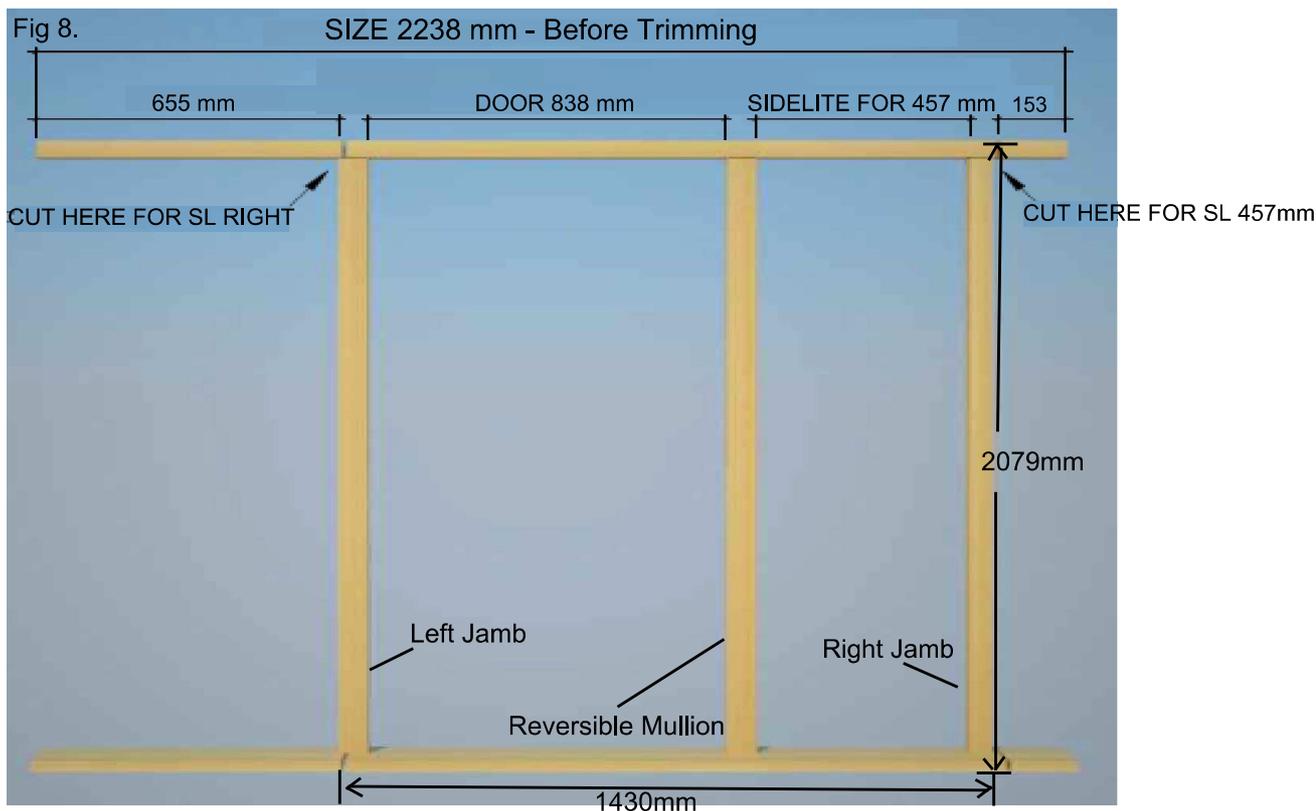
457mm Sidelite on the Left - Looking from outside to inside.



Option 3 Assembled outer frame size: 2079mm High x 1430mm Wide
 Brick work OPENING size : 2089mm High x 1440mm Wide

OPTION 4

457mm Sidelite on the Right - Looking from outside to inside.



Option 4 Assembled outer frame size: 2079mm High x 1430mm Wide
 Brick work OPENING size : 2089mm High x 1440mm Wide

OPTION 3 AND 4

The Door opens INWARDS

The Frame assembly is shown in Drawing Fig 7 / Fig 8 and pre drilled holes and stickers are provided to guide installation.

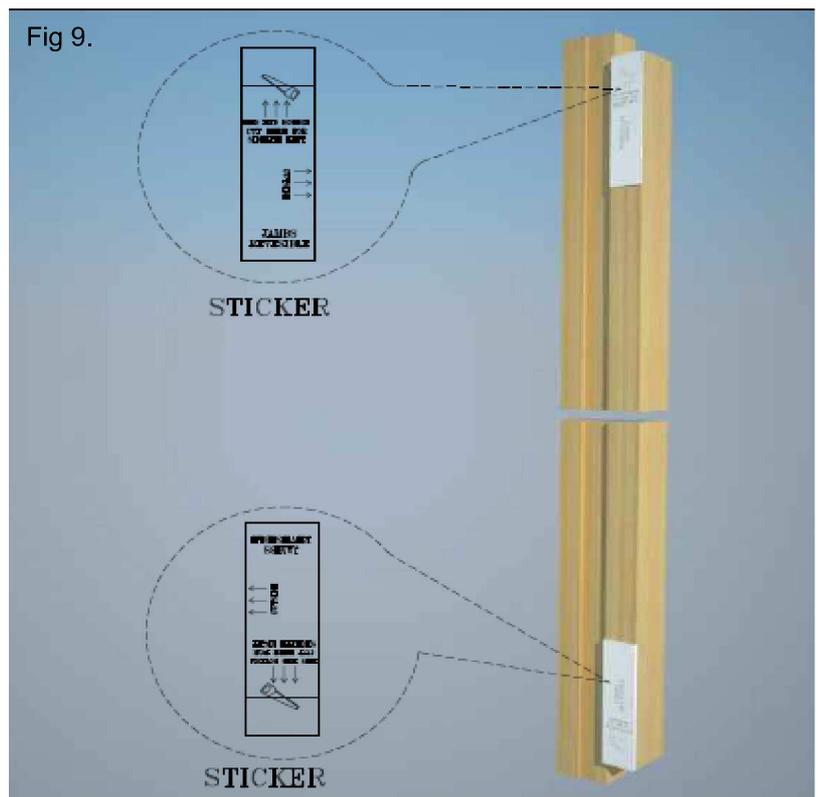
1.) To start the frame assembly, using cardboard or other suitable protection, lay the complete frame out on the floor, with the wider, thicker part of the frame upwards. (2pc Frame Jamb L/R, 1pc Frame Head, 1pc reversible mullion and 1pc Cill - sloping part upwards towards you).

For Sidelite on the LEFT - option 1, with the LEFT frame jamb approximately 153mm in from the end of the head and Cill insert 1 or 2 screws, through the pre drilled holes to hold the jamb in position - but not fully tightened.
For sidelite on the RIGHT - option 2, fix the RIGHT jamb first.

a.) Look carefully at the reversible mullion - which is machined at both ends to fit the frame head. Having decided on the correct location between the Frame head and Cill. Cut the end which fits to the Cill to the correct length ensuring the cut is completely square.

The other end of the mullion is profiled to fit into the frame head.

Mullion reversible Left or Right



The End which fits to Cill must be cut square

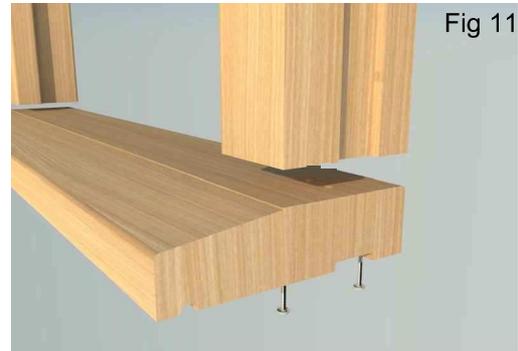
ASSEMBLY OF THE FRAME with Single 457mm Sidelite Continued

OPTION 3 and 4 continued

b.) For the sidelite on the LEFT - Option 3, take the RIGHT frame jamb (for sidelite on the RIGHT - Option 4 it will be the LEFT frame jamb) and place it in position between the head and cill approximately 1430mm outside left jamb to outside right jamb. Secure with just 1 or 2 screws top and bottom through the pre drilled holes. Then locate the mullion, and secure that with just one or two screws through the Head and Cill.



Fixing frame jamb to head



Fitting jamb to Cill

c.) Carefully turn the complete frame over so the INSIDE of the frame is now facing upwards (you will need a block under the frame head to bring the height to the same level as the Cill).

Carefully " Trial " install the sidelite into the space between the mullion and the left frame jamb - Timber piece on the bottom of the sidelite fits into the groove on the Cill.

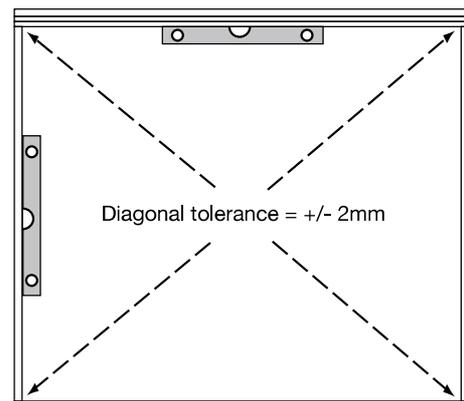
Centre it in the opening and use plastic packers to hold it into position with the packers close to the 6 pre drilled fixing holes. Check the space where the door will fit, the space should be +/- as shown in Table A. on page 5 of these Assembly Instructions.

If necessary adjust and slightly change the location of the mullion and right or left frame jambs until the correct door space is achieved. When you are completely satisfied the spacings are correct and the frame is completely square and true (Fig 12.), using waterproof adhesive and/or silicone sealant on the joints, completely fix all the frame jambs/mullion to the head and cill, tightening all the screws fully.

d.) Remove the Sidelite and store on one side.

Fig 12

Very Important. Carefully check frame is tightly fixed together and is square. Diagonals of frame must be equal +/- 2mm.
Do not proceed with the installation if the frame is not square.

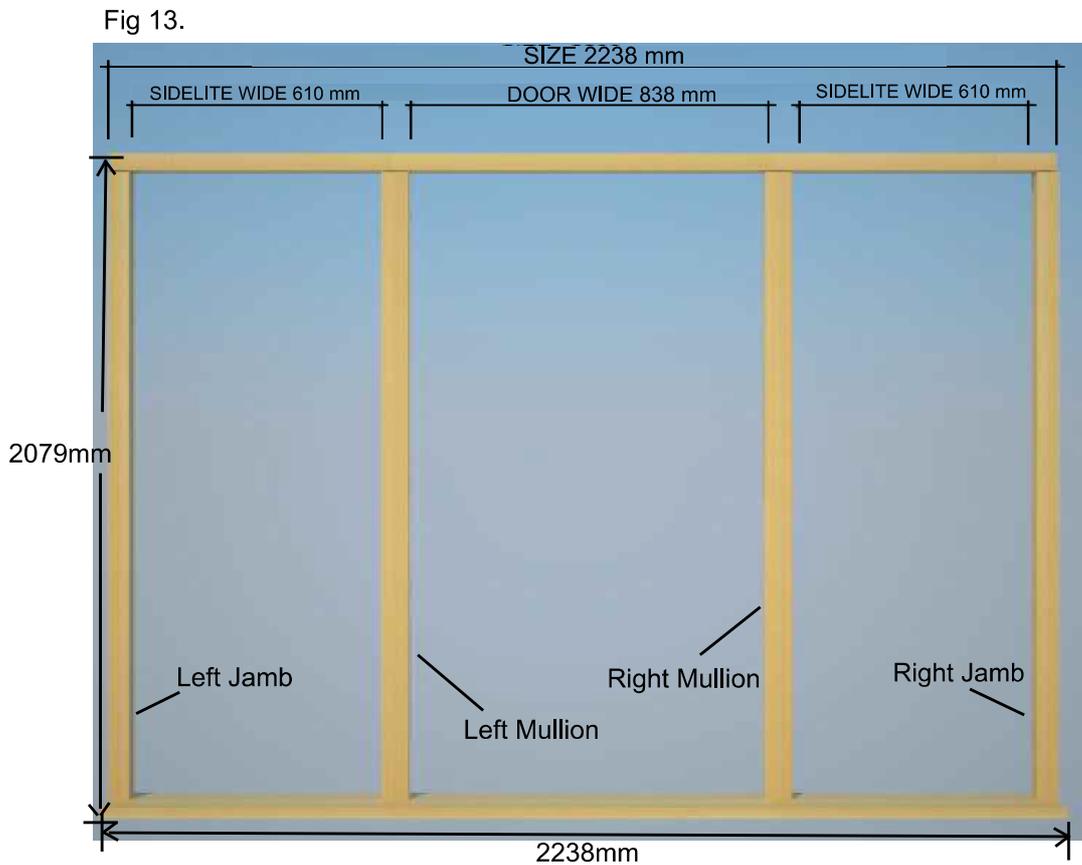


e.) Carefully trim off the overhanging excess Cill and frame head on both sides so they are level with the outer edges of the frame jambs.

ASSEMBLY OF THE FRAME with Double 610mm Sidelites

OPTION 5

610mm Sidelite Set - Looking from outside to inside.



Option 5 Assembled outer frame size: 2079mm High x 2238mm Wide
Brick work OPENING size : 2089mm High x 2248mm Wide

The Door opens INWARDS

The Frame assembly is shown in Drawing Fig 13 and pre drilled holes and stickers are provided to guide installation.

1.) To start the frame assembly, using cardboard or other suitable protection, lay the complete frame out on the floor, with the wider, thicker part of the frame upwards. (2pc Frame Jambs L/R, 1pc Frame Head, 2pc mullion L/R and 1pc Cill - sloping part upwards towards you).

Install the left frame jamb, 2 centre mullions and right frame jamb - using 1 or 2 screws, through the pre drilled holes.

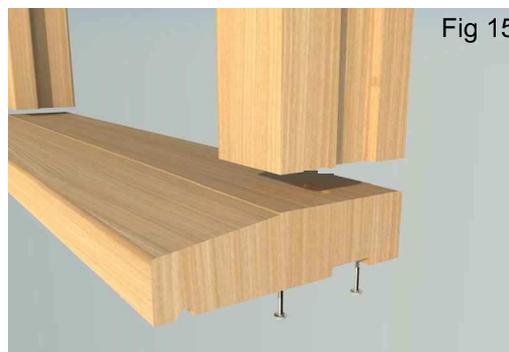
Just lightly assembled but not fully tightened.

ASSEMBLY OF THE FRAME with Double 610mm Sidelites Continued

OPTION 5 continued



Fixing frame jamb to head

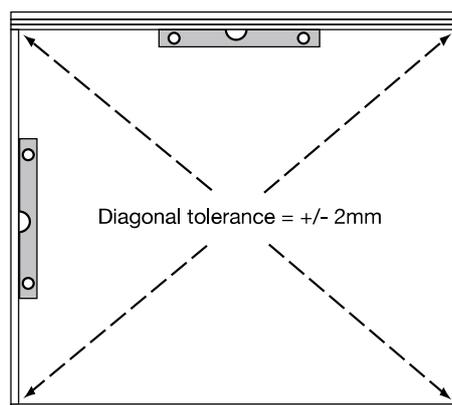


Fitting jamb to Cill

- a.) Carefully turn the complete frame over so the INSIDE of the frame is now facing upwards (you will need a block under the frame head to bring the height to the same level as the Cill). Carefully " Trial " install the sidelites into the space between the mullions and the frame jambs - Timber pieces on the bottom of the sidelites fits into the grooves on the Cill. Centre them in the opening and use plastic packers to hold it into position with the packers close to the 6 pre drilled fixing holes. Check the space where the door will fit, the space should be +/- as shown in Table A. on page 5 of these Assembly Instructions. If necessary adjust and slightly change the location of the mullions and right or left frame jambs until the correct door space is achieved. When you are completely satisfied the spacings are correct and the frame is completely square and true (Fig 16.), using waterproof adhesive and/or silicone sealant on the joints, completely fix all the frame jambs/mullions to the head and cill, tightening all the screws fully.
- b.) Remove the Sidelites and store on one side.

Very Important. Carefully check frame is tightly fixed together and is square. Diagonals of frame must be equal +/- 2mm.
Do not proceed with the installation if the frame is not square.

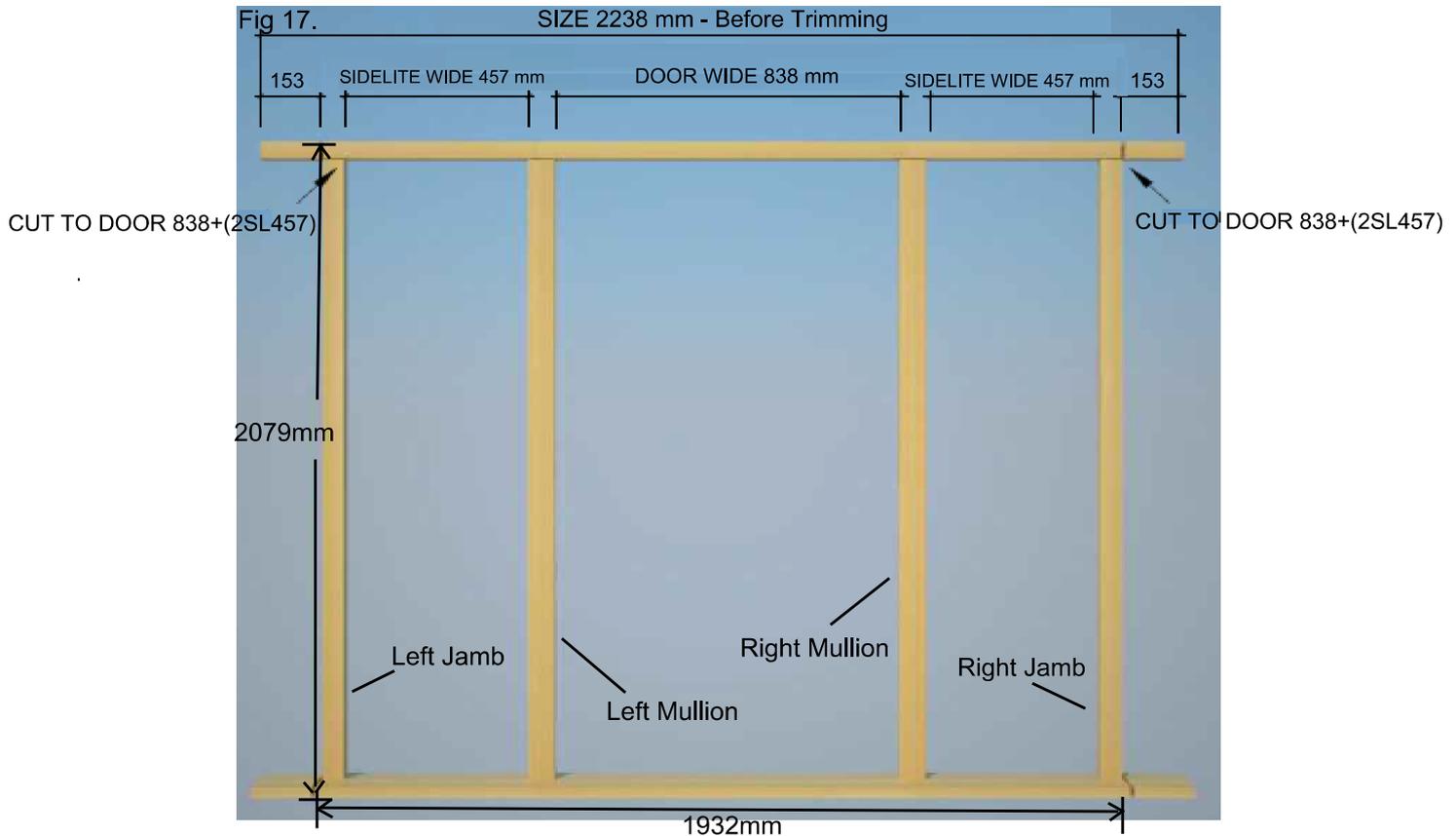
Fig 16



ASSEMBLY OF THE FRAME with Double 457mm Sidelites

OPTION 6

457mm Sidelite Set - Looking from outside to inside.



Option 6

Assembled outer frame size: 2079mm High x 1932mm Wide

Brick work OPENING size : 2089mm High x 1942mm Wide

The Door opens INWARDS

The Frame assembly is shown in Drawing Fig 17 and pre drilled holes and stickers are provided to guide installation.

1.) To start the frame assembly, using cardboard or other suitable protection, lay the complete frame out on the floor, with the wider, thicker part of the frame upwards. (2pc Frame Jambs L/R, 1pc Frame Head, 2pc mullions L/R and 1pc Cill - sloping part upwards towards you).

Install the left frame jamb, 2 centre mullions and right frame jamb - just lightly assemble, but not fully tightened.

The left and right jambs should be positioned approximately 153mm in from the ends of the Head and Cill. Fig 17.

ASSEMBLY OF THE FRAME with Double 457mm Sidelites Continued

OPTION 6 continued



Fixing frame jamb to head

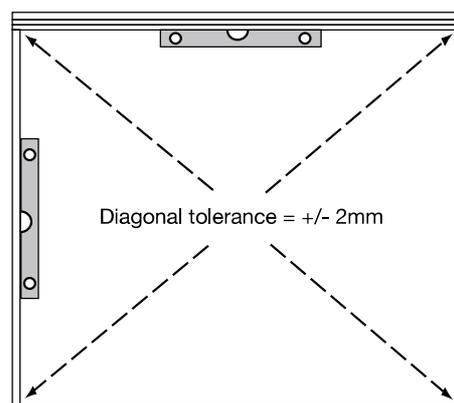


Fitting jamb to Cill

- a.) Carefully turn the complete frame over so the **INSIDE** of the frame is now facing upwards (you will need a block under the frame head to bring the height to the same level as the Cill). Carefully " Trial " install the sidelites into the space between the mullions and the frame jambs - Timber pieces on the bottom of the sidelites fits into the grooves on the Cill. Centre them in the opening and use plastic packers to hold it into position with the packers close to the 6 pre drilled fixing holes. Check the space where the door will fit, the space should be +/- as shown in Table A. on page 5 of these Assembly Instructions. If necessary adjust and slightly change the location of the mullions and right or left frame jambs until the correct door space is achieved. When you are completely satisfied the spacings are correct and the frame is completely square and true (Fig 20.), using waterproof adhesive and/or silicone sealant on the joints, completely fix all the frame jambs/mullion to the head and cill, tightening all the screws fully.
- b.) Remove the Sidelites and store on one side.

Fig 20

Very Important. Carefully check frame is tightly fixed together and is square. Diagonals of frame must be equal +/- 2mm.
Do not proceed with the installation if the frame is not square.



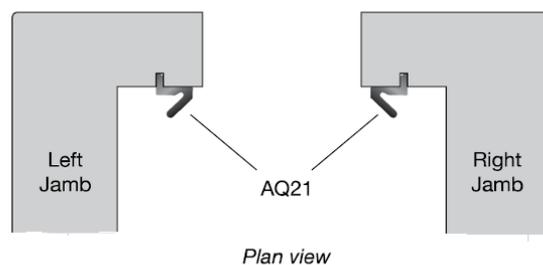
- c.) Carefully trim off the overhanging excess Cill and frame head on both sides so they are level with the outer edges of the frame jambs.

ASSEMBLY OF THE FRAME Continued

Use the 'Touch Up Kit' provided with the door to prefinish any raw timber edges on the frame which has been exposed by trimming.
Apply 2 coats, leaving time to dry in between coats.

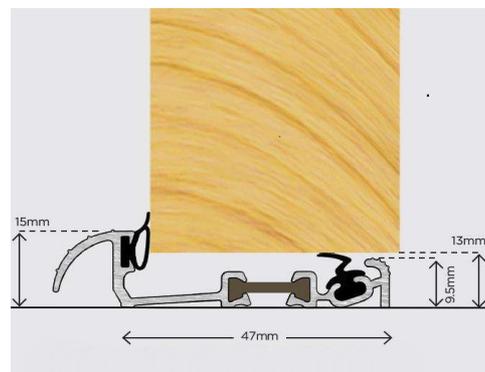
Installation of the AQ21 Weather Seal.

- 1 Apply the kerf of the AQ21 Weather Seal into the frame jambs/Mullions and head, in the space where the door will be installed.
Cut to length as required.



Installing the Aluminium Threshold

- 2 Please note the clearance required in the Door Height.



- a. Remove rubber seals from aluminium sill section. Measure width between inside faces of the doorframe rebate and cut aluminium section to this size.
- b. Notch both ends of the cill to allow it to fit into the doorframe rebate.
- c. Cut the rubber seals 10mm longer than the aluminium and re-insert into the grooves in the cill.
- d. This cill requires an under door clearance of 13mm.
- e. Position the assembled cill between the doorframe and mark fixing points.
Remove cill then drill fixing holes.
- f. Apply silicone sealant to the underside at the front and back of the sill, then screw the aluminium threshold to the top of the wooden cill.
Apply a blob of Silicone sealant around the screw heads to seal against water ingress.

Installing the assembled frame

3 Assembly of the frame into the brickwork opening.

Proceed to install the assembled frame ensuring that the cill faces to the outside. **It is critical that the frame is fitted square and level** with tolerances as follows. Ensure the frame is installed straight and square using shims/packers (not provided) between the frame and the brickwork opening

The height (H) must be the same across the whole width of the opening +/- 2mm.

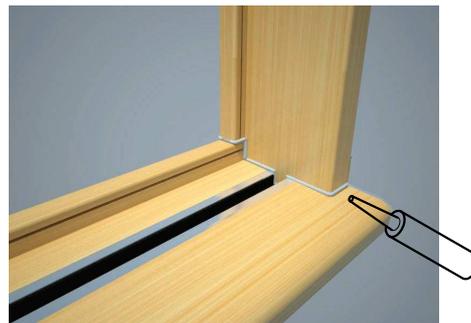
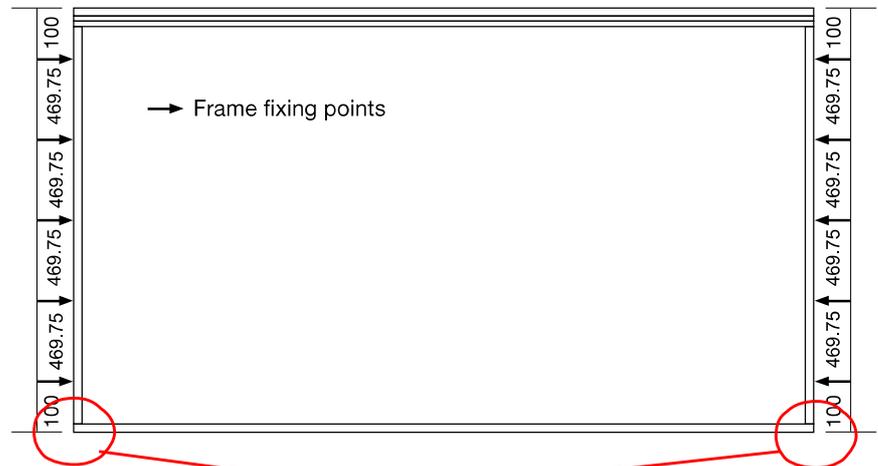
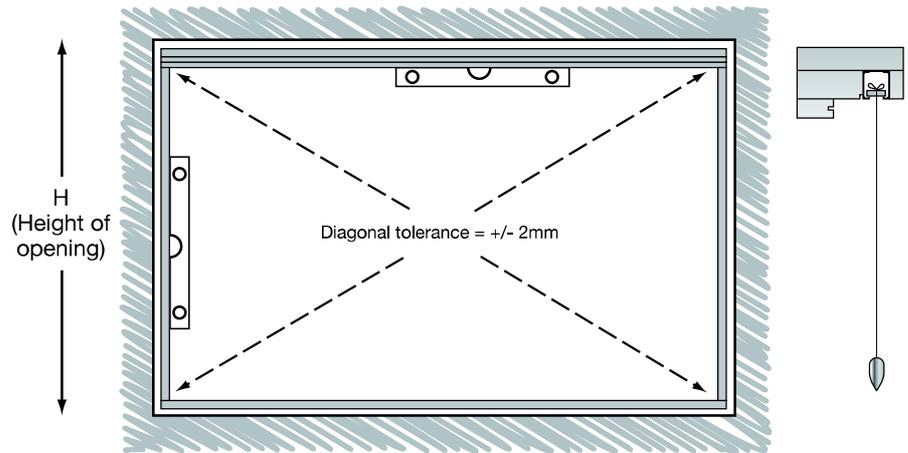
The diagonals must be the same +/- 2mm.

Fix the outer frame into the brickwork, level or up to 5-10mm back from the outer face of the brickwork.

Fix through the outer frame into the brickwork through both jambs, with 5 fixings at spacing shown using the direct frame fixings (E) provided.

Use the direct frame fixings (E) as follows:

- 1) Use the 6.5mm HSS drill (F) to drill holes in the frame jambs.
- 2) Use the 6.5mm SDS masonry drill (G) to drill into brickwork.
- 3) Use the torx 1/4 hex T30 bit (H) to screw in the direct frame fixings (E).



IMPORTANT NOTE

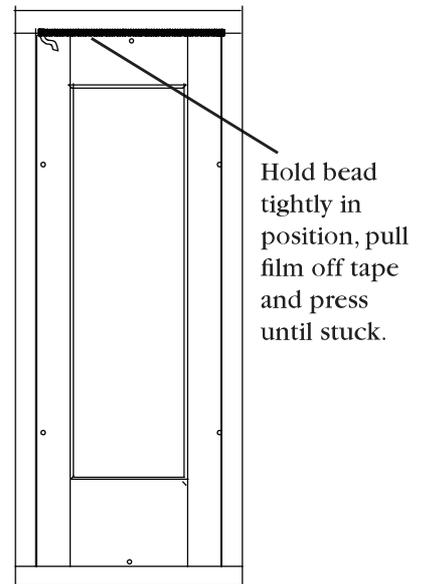
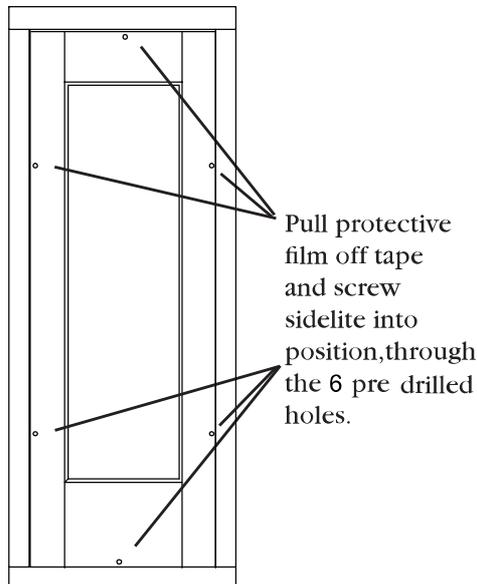
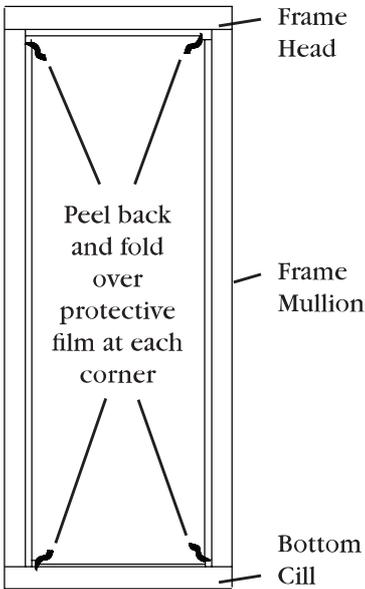
After the frame is installed, Silicone Seal around the base of the frame jamb/Cill joint as shown in the drawing

Important information about direct frame fixings

The direct frame fixings (E) supplied will screw directly into brickwork. It is essential to use the 6.5mm drills (F) & (G) and torx hex T30 bit (H) provided to ensure a secure fixing.



Installing the sidelites



4 The rebates of the assembled frame are fitted with foam adhesive tape.

Turn over the edges of the protective film at the top, bottom and sides of the foam tape.

Position the bottom of the sidelite into the groove in the bottom of the frame.

Centralise sidelite position.

Use packers between the edge of the sidelite and the frame jamb/mullion, adjacent to the pre drilled holes. This assists to hold the sidelite and will also assist in preventing the wood splitting.
DO NOT OVERTIGHTEN THE SCREWS

Remove the backing film from the adhesive foam tape, by pulling the turned over corners.

Secure the sidelite tight in position using the M5 60mm screws provided.

Take the 3 pieces of internal bead and bend over 1 corner of the protective film of the adhesive tape.

Please note all pieces of internal bead will need to be cut to size

Place the bead in position, remove the film at the same time as applying pressure, so the tape sticks to the sidelite.

Repeat the process for the other 3 pieces of bead.

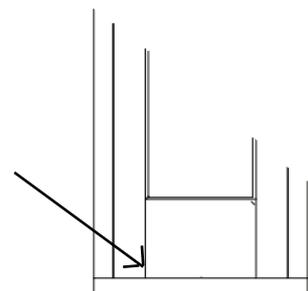
Finally use stainless steel pins, to pin the bead into position, taking care not to damage the finish.

FINAL SECONDARY SEALANT

As a secondary seal, we recommend a bead of clear silicone is applied on the outside of the frame, all around the perimeter of the frame where the sidelite/s are fixed in position.

WEATHER BAR INSTALLATION

Remove foam adhesive tape & fit to the outside of bottom of the sidelites, where the sidelite meets the frame. Please note the weather bar (s) will need to be cut to size



DOOR INSTALLATION into the Eternal Frame with Sidelites

DOOR INSTALLATION INTO A DOOR FRAME WITH SIDELITES

If you are installing the Door into a new ULTIMATE Door frame, with sidelites. The assembled Door frame already has a built in 'ALLOWANCE' for fitting of the door.

(5mm top, Exitex aluminium threshold on the Cill and 4mm each side in width for installation of lock and hinges.)

Therefore, normally the doors will not require trimming in size, just machining for hinges and locks.

Re-finishing the trimmed door edges

The ULTIMATE external door has been factory pre-finished with a High Build microporous Wood Coating system comprising a base coat and two top coats and is therefore ready for installation.

However if the door is trimmed in size, the process of trimming the door will expose the bare wooden edges.

We have provided a 'touch up kit' with every door comprising 150ml of finish, a roll of masking tape and a brush.

VERY IMPORTANT

Before finally hanging your ULTIMATE external door, if you have trimmed the size apply at least 3 coats of the touch up finish to all the trimmed edges of the door and frame to re-seal and protect wood.