



Installation and Glazing Guide

Astra GRAHAM HOLMES **Seal**®

**Before you start...**

Do not remove the door from the packaging until you have checked:

- The paperwork to ensure it's the right specification.
- The sizes are correct before the existing door is removed.
- And you've checked for any damage.

Removing the Existing Door

Remove the existing door leaf.

To help reduce the damage to wall decorations and plaster, score around the perimeter of the frame with a craft knife. Saw through the jambs and remove. The best way to do this is by sawing diagonally in the centre and removing them in two sections.

Do not saw them all the way through as this can cause damage to the internal reveals or structure. If there is a chance this will happen, use a bearing block to protect the plaster and render, then lever the jambs away from the walls and complete the cuts.

Remove the top and bottom rails in the same way.

Preparing the Opening

Once the door has been removed, ensure the opening is free from screws, nails, fillers and mastic.

Repair as required in accordance with BPF recommendations.

The opening should be complete before fitting the door.

Check there's a lintel or other load transferring structure fitted above the doorway.

Door Alignment

The positioning of the door within the brickwork is vital to the correct functioning of the door

- Door outerframe set back as far as possible to reduce exposure to elements
- Bridge the wall cavity
- Cover the DPC
- Frame is square and not twisted

NOTICE FOR DOORS SUPPLIED WITH BUTT HINGES

Door-Stop Composite Doors supplied with butt hinges are fixed to the door frame with two screws per hinge for transportation purposes only. There are two more screws per hinge supplied with the door.

To make the installation easier we recommend the door leaf is removed from its frame before fixing.

Ensure the door frame is square within the aperture before securing to the brickwork. Then re-attach the door leaf to the fixed frame whilst making sure you have an equal gap around the door leaf.

IT IS IMPORTANT THAT ALL SUPPLIED HINGE SCREWS ARE USED

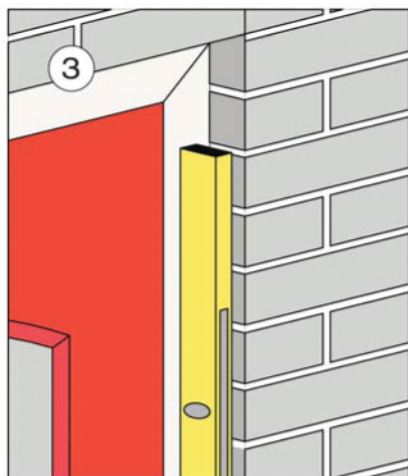
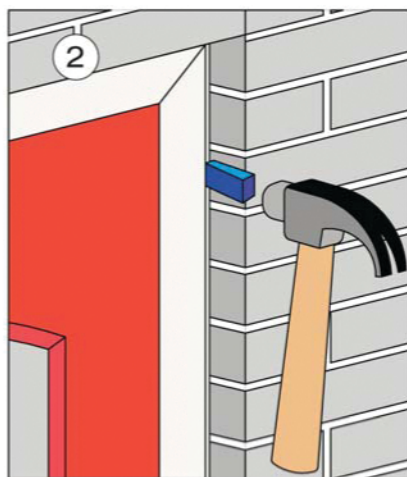
**Door Set Installation**

1. Offer complete door unit into brickwork opening.

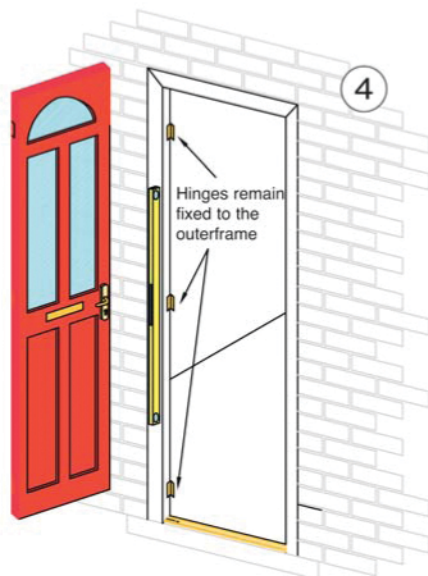
2. Hold frame into position using appropriate size wedge packers.

Packers must be located adjacent to fixing positions to prevent distortion of the outer frame when frame fixings are tightened.

Failure to adhere to this may result in door function issues.



3. Spirit level (1.5m Long) should be used to ensure jambs are square and plumb in all planes.



4. It is recommended that you remove the door leaf from the hinges to make the outer frame easier to fix into brickwork aperture. Once square and plumb, fix as per instructions. (See Page 5 for fixings & positions)

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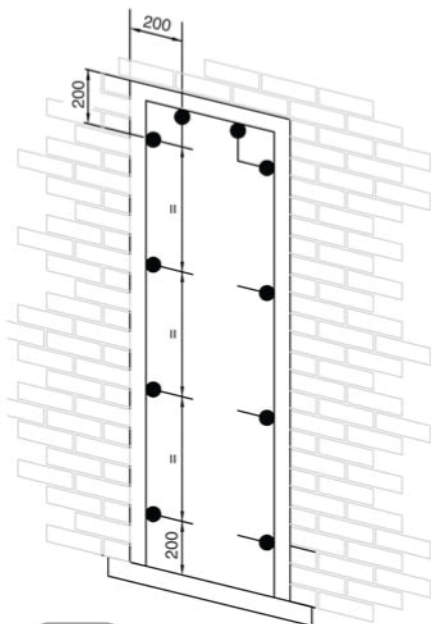
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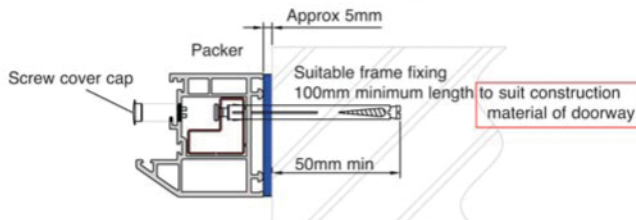


5. Pack the bottom of the door leaf at the leading edge to assist getting square into outerframe.



Fixings

The outerframe should be secured into the brickwork using industry standard plastic sheathed frame fixings. These should be a minimum of 100mm long and fixed into the masonry by a minimum of 50mm. Tighten and secure all the fixings to ensure the frame is square. Care should be taken not to over-tighten the frame fixings to avoid distortion of the frame. Recommended fixings are plastic sheathed frame fixing bolts minimum length 8 x 100 mm.



Fixing Side Panel To Main Door Frame

Recommended fixing points are the same as fixing points into the brickwork above. Pre-drill fixing positions required for transom screw (SH01 4.8 x 65mm). Apply silicone to the entire length between the PVC-U profile and aluminium coupler on both faces. The head of the fixing should be located within the hollow chamber. A clearance hole is needed to allow the fixing to pass through the outer skin and covered by a screw cover cap. There should be a minimum of 4 fixings each side of the frame coupling profile. Ensure fixings are staggered to avoid collision on the opposite side of profile.

Fixing Positions

These positions are for guidelines only.

Ensure fixings are into secure substrate. Recommended fixing positions are as follows:

Corner fixings: 150mm minimum and a maximum of 250mm from external corner.

Intermediate fixings: Centres not exceeding 600mm.

Transoms fixing: Should not be closer than 150mm from transom centre line and no greater than 250mm.

The head of the through frame fixing should be located within the hollow chamber (to prevent distortion & cracking of profile).

A clearance hole is required to allow the fixing to pass through the outer skin and covered by a screw cover cap. Alternative fixing may be required due to lintel location.

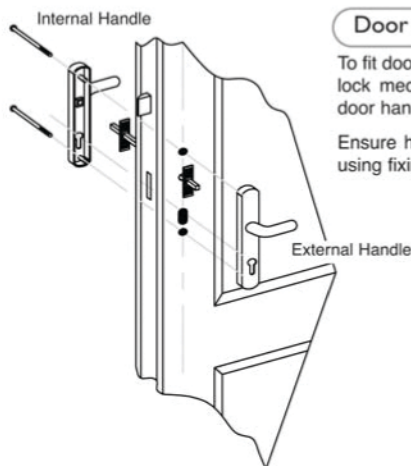
Drilling

Drill holes through the frame as indicated (ensuring the holes are as recommended by the frame fixing manufacturer).

Secure the frame to the brickwork with suitable frame fixings. Ensure the fixing is secure and correctly positioned in the masonry.



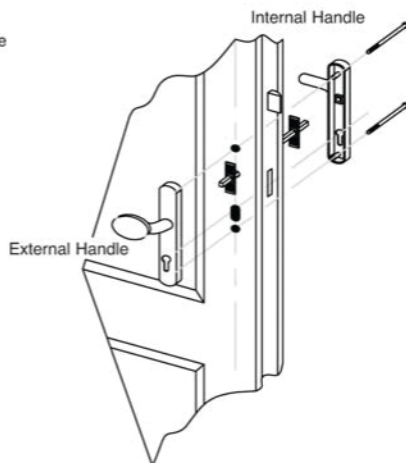
Fixing Decorative Hardware



Door Handles

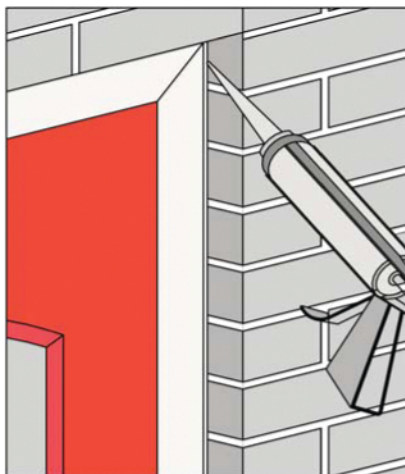
To fit door handle set, locate spindle through square hole in lock mechanism. Align projecting pins on internal half of door handle set with pre-drilled holes in door slab.

Ensure handle spring washers are in position and secure using fixing screws supplied.



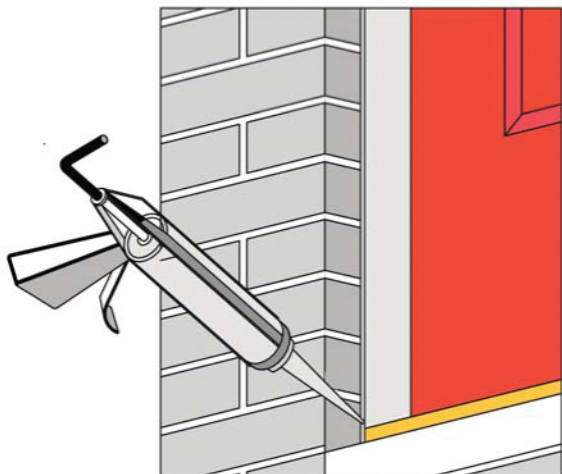
NB: When the door has been fixed into position the operation of the door opening and locking mechanism must be checked to ensure uniform contact with weatherseals and correct function of handle/lock.

Sealing around the Perimeter



Silicone sealant or similar suitable product should be used to seal around the perimeter of the newly installed composite door frame.

Ensure that an adequate barrier is formed to prevent water ingress/air leakage



NB: Care must be taken to ensure that the drainage slots are not blocked when sealing around the aluminium Low Threshold.

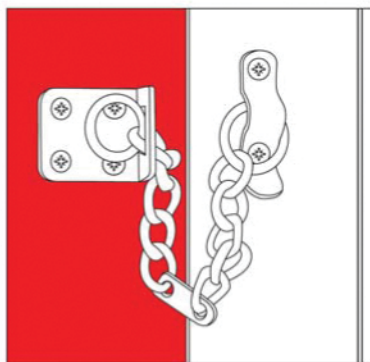
Fixing Security Chain

The security chain should be positioned into the desired location for ease of use (i.e. to suit the persons who will be required to use the device)

Mark the fixing positions onto the door/frame using the pre-drilled holes in fittings as a template.

Move the security chain and drill pilot holes in the marked positions, use the screws provided to secure.

NB: Care should be taken when the fittings are positioned to ensure the security chain will function correctly.



Fixing Decorative Numerals

Numerals should be located in the desired position on the composite door, when satisfied this is correct, the holes in the numerals should be used as a template to mark the required pilot holes to fix.

Drill pilot holes and use the screws provided to secure to the door.



If your composite door is unglazed, refer to the following guidelines

Glazing Materials

The following companies are recommended for the glazing materials you will need:

Cassette to glass and door = Clear silicon sealant (Premium+ 450 Builders Silicon – part code 5029347601355) from Everflex,

Tel: 0113 240 3456, e-mail: sales@everbuild.co.uk

web: <http://www.everbuild.co.uk>

Composite Door Glazing Method

Cassettes supplied ready to use without preparation. Connecting bosses (or clips) and self tapping screws supplied for each position. Glazing Panel supplier or purchased separately.



Clip
positions



Connecting
boss (clip)

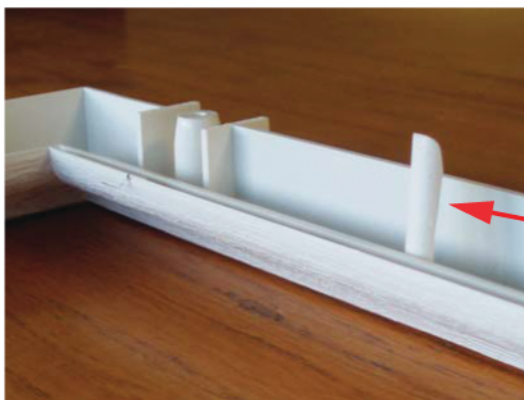


Glazing Method

Trim sealant nozzle to give approximately a 6mm bead.

Clean glazing panel prior to fitting and wipe down door. Ensure both components are fully dry before continuing.

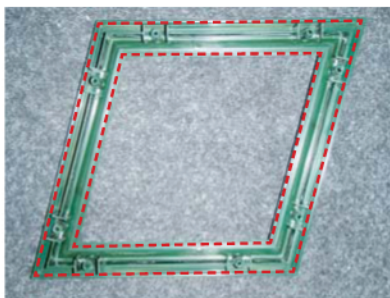
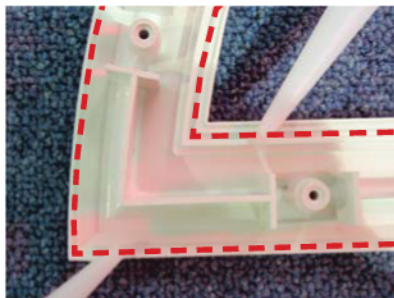
Remove injection spree from both cassettes prior to fitting. There may be a number on each cassette. They should easily break off by bending gently back and forth.



Spree

Apply the clear silicon sealant to the inside and outside door face of both cassettes. Pay attention to ensure the bead is continuous and complete. If necessary re-apply over thin areas (excess can be removed after fitting).

Sealant **MUST** be all round both cassettes.





Position the cassette on flat surface. Ensure cassette is the same colour as the side it is being applied to. Position the door over cassette. Lower over glazing panel. Ensure frame is square in door.



Lower the glazing panel into cassette. Push down gently onto sealant.



Fit clips to every clip position. The low part of the clip touches the glazing panel and the high point touches the door. Screw pinch tight using supplied self tapping screws.

Cassette and glazing panel should be tight.

DO NOT OVERTIGHTEN OR DOOR MAY DEFORM.



Clip Position



Clip in place



Clip correct way around - low lip on glass



All Clips Fitted



Screw Retention



Over-tight. Deformation

Place top cassette over bottom and tap gently into place. Protect the face with cardboard and use Nylon Hammer. Each clip should push into place. The clips are an interference fit.



Wipe any excess silicon from the visual faces with a damp soapy sponge and cloth dry. Avoid rain or dust contact until sealant dries. Complete operation must be completed within 15 minutes of applying silicon.



All information in this manual is provided for guidance only.

Astraseal cannot be held responsible for the way in which the information in this manual is interpreted.

We reserve the right to alter specifications and descriptions without prior notice as part of our policy of continual development