

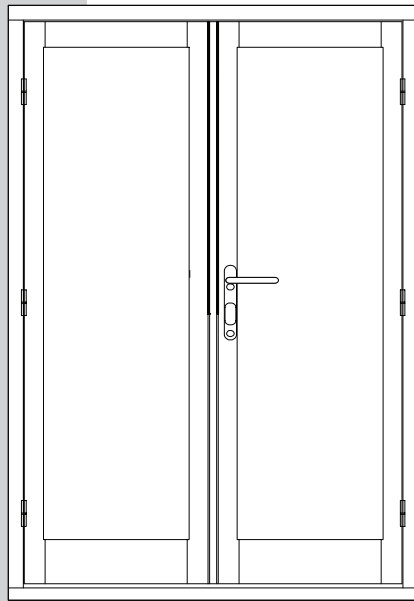
ULTRA

Aluminium Clad

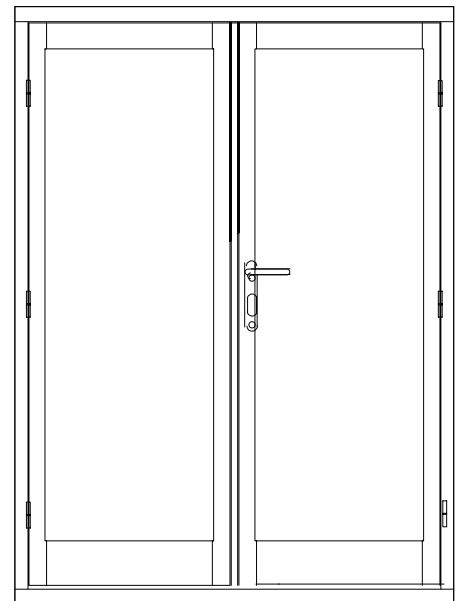
French Door Pairs

Assembly Instructions

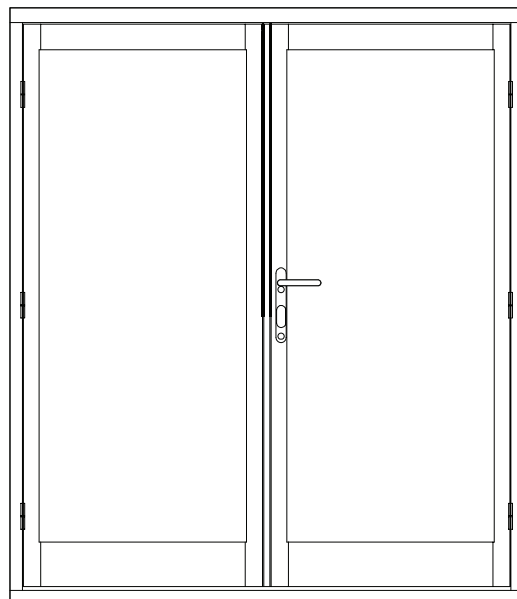
4' PAIR DOOR
1190mm W x 2090mm H



5' PAIR DOOR
1490mm W x 2090mm H



6' PAIR DOOR
1790mm W x 2090mm H



About your ULTRA French Doors

All products must be installed in accordance with accepted good trade practice (and in accordance with supplied instructions where applicable), and maintained in accordance with these procedures or else the warranty shall be void.

Important information

- We recommend that a competent tradesperson install this product.
- A single person must *never* carry out the installation, as some components are very heavy.

Care of Timber Doors and frames on site

- Please check doors, frame and sill at time of delivery to ensure that they are acceptable and in good condition. If you find a component missing or damaged please inform your supplier immediately. We keep replacement components of most set parts and these can be sent out to you quickly. This will save you having to re-package and return the whole set, and allows you to continue with the project.
- When storing prior to installation the doors and frames should be kept in their packaging, handled with care and stored in a dry, ventilated building. Doors and frames should be stored flat on a level surface (not on edge or on end).
- Doors 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 ULTRA French door sets are manufactured using engineered timber components for additional stability. Each frame and door is manufactured with a hardwood core laminated and finger jointed together, faced with Oak LVL Veneer or hardwood veneer.
- The complete set is pre-machined in the factory, ready to receive the hardware and only requires site assembly and installation into the brickwork opening. Some further adjustment of the hinges, will be necessary, as explained in the instructions.

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 doors and 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.

Maintaining the doors and frame

- Regularly wipe down the outside aluminium using a mild soap and water solution, then dry off.

Trimming

- Generally this French Door Set is not designed to be trimmed on site and should be fitted as supplied.

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 or hardware component only. These notes do not affect your statutory rights with the retailer of this product.

Pre-finishing of the wood

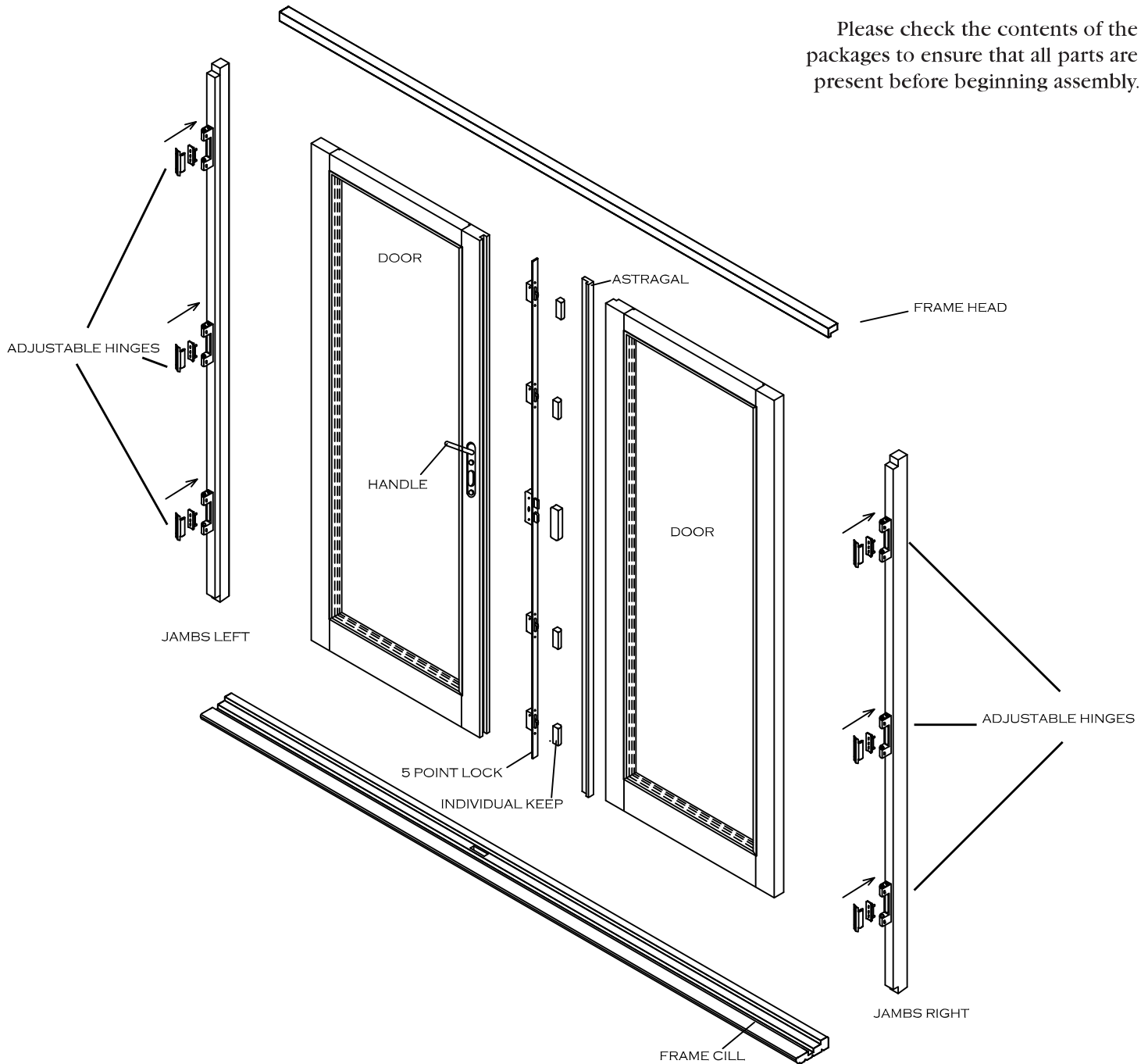
The ULTRA French doors have been factory pre-finished on the inside with clear polyurethane varnish.

The finish can be maintained by regular wiping with a damp cloth, then buffed dry with a clean cloth.

If over time the doors need re-coating use a proprietary brand of clear polyurethane varnish.

Contents (1)

Please check the contents of the packages to ensure that all parts are present before beginning assembly.



Timber Parts 4ft, 5ft, 6ft

Description	Quantity	
Door 1	1pc	FD72PFG04-1/FD72PFG05-1/FD72PFG06-1 FD72PFW04-1/FD72PFW05-1/FD72PFW06-1
Door 2	1pc	FD72PFG04-2/FD72PFG05-2/FD72PFG06-2 FD72PFW04-2/FD72PFW05-2/FD72PFW06-2
Frame Head	1pc	FD72PFG04-3/FD72PFG05-3/FD72PFG06-3 FD72PFW04-3/FD72PFW05-3/FD72PFW06-3
Frame Jambs	2pc	
Frame Cill	1pc	FD72PFG04-3/FD72PFG05-3/FD72PFG06-3 FD72PFW04-3/FD72PFW05-3/FD72PFW06-3
Astragal/Mullion	1pc	FD72PFG04-3/FD72PFG05-3/FD72PFG06-3 FD72PFW04-3/FD72PFW05-3/FD72PFW06-3

Contents (2)

Please check the contents of the packages to ensure that all parts are present before beginning assembly.

Weather Seals

4ft, 5ft, 6ft

Description	Quantity	
AQ109 (Between Doors) 2m	1	AQ109B2/AQ109W2

4ft, 5ft, 6ft

Description	Quantity	
AQ21 (Frame Jamb) 2.3m	2	AQ21B2.3/AQ21W2.3
AQ21 (Frame Head/Cill) 2.3m	2	
AQ21 (Top of Doors) 2.3m	1	
AQ21 (Astragal) 2.3m	1	
AQ21 (Side of Doors) 2.3m	2	
Total	8	

QL3116BLK
Stick on Seals (For Hinges) 6

Hardware 4ft, 5ft, 6ft

Description	Quantity	
Latch Plate	1	5982-85
Adjustable Hinges	6 Pairs	0467-LH-54-36
Handles	1 Set	3230-87-NS

Vectis Double Door

4 Hook MPL with Centre/ Keep	1
4 Hook Bolt Keeps	1
Centre Keep	1
Drop Bolt Keyed + Cup + Plate	1
Non Keyed Drop Bolt + Keep Plate	1
Blank Plates	2

Fixings Pack K1570911(67)

Hardened steel frame fixings 7.5 x 92mm	10
HSS long drill bits 6.5 x 148mm	1
1/4 " hex insert bits T30	1
SDS drill bits	1
Hardened steel wood screws pozi flat countersunk head yellow 5.0 x 80mm	12
Hardened steel wood screws pozi flat countersunk head yellow 4.0 x 30mm	6
HSS drill bits 5mm	1
HSS reduced shank drill bits 145mm/95mm - 14mm	1
HSS reduced shank drill bits 140mm/90mm - 22mm	1
Square had steel centre punch 4mm	1
2610 masking tape on backing paper 50 x 190mm	2

Drop bolt keyed - quantity 1
Keyed drop bolt
fixing pack - quantity 1 pack
Includes drop bolt cup



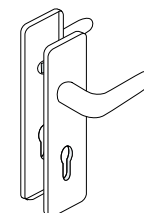
Drop bolt non keyed - quantity 1
Non-keyed drop bolt
fixing pack - quantity 1 pack
Includes drop bolt keep plate



Blank plate and driver pack - quantity
Blank plate
fixing pack - quantity 1 pack



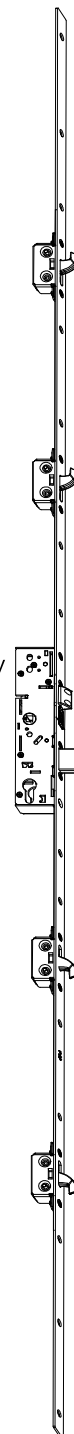
3230-87-NS
Door handles - quantity 1 Set



6402-85
Hook bolt keeps -
quantity 4



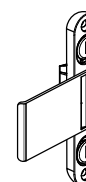
9335-4H-645-85V
Vectis
4 hook lock -
quantity 1
(includes
keys x 2)



6401-101-85
Centre lock keep -
quantity 1



6401-37-85
Latch plate -
quantity 1



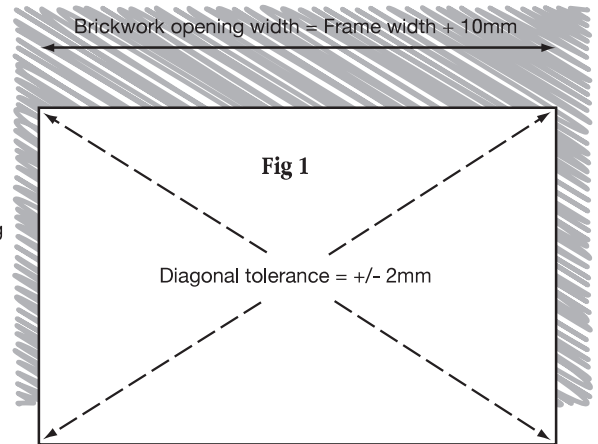
6401-spacer
Plastic spacers - quantity 2



Preparing the site

- 1 Brickwork opening:**
When preparing the site please prepare the brickwork opening to be 10mm more in height and width than the outside assembled frame size. It is essential that all 4 internal surfaces of the brickwork be levelled before installation. Please ensure that all dimensions are correct for installation before proceeding, as the set must be installed square and level into the opening.

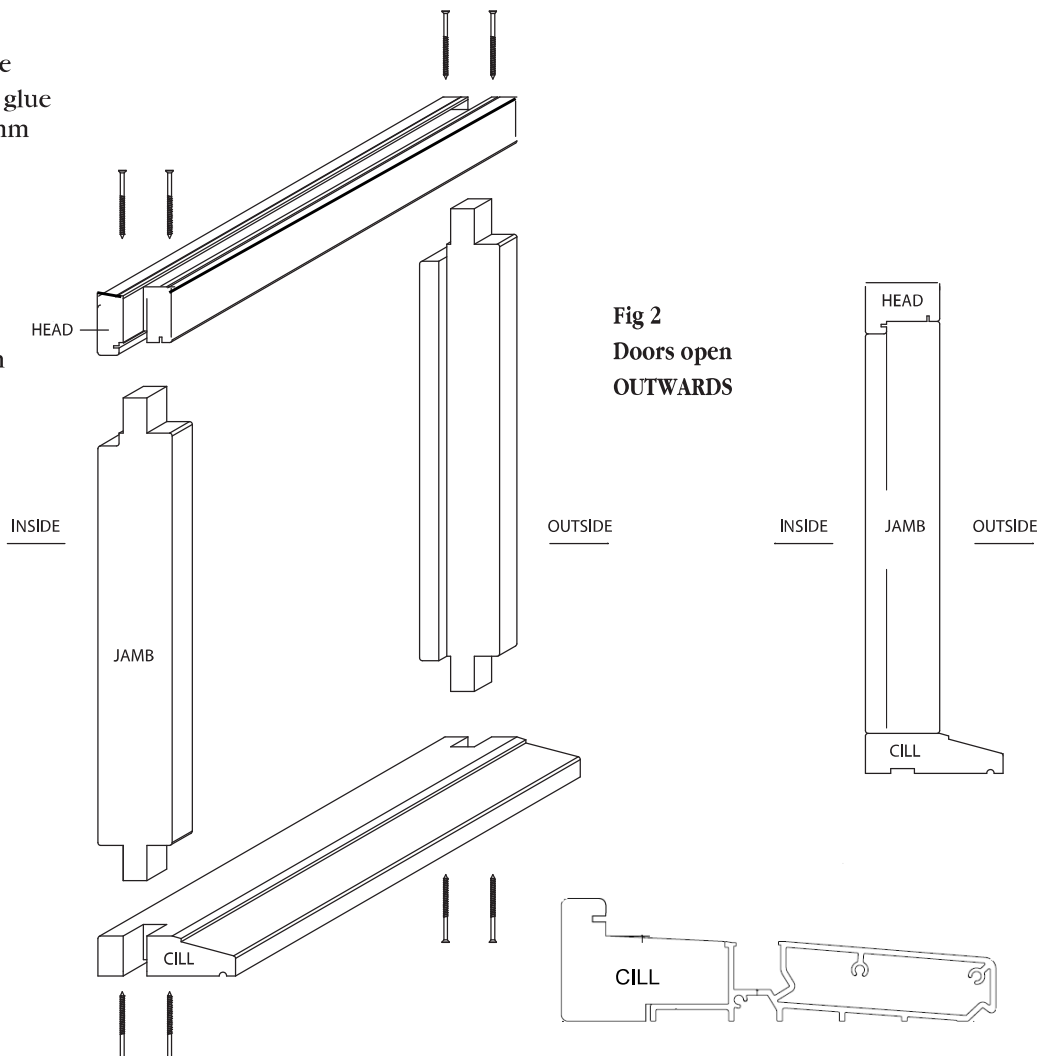
Brickwork opening height
= Frame height + 10mm



Set Size	Assembled Outer Frame size Width and Height	Brickwork Opening Size Width and Height
4ft	1190mm x 2090mm	1200mm x 2100mm
5ft	1490mm x 2090mm	1500mm x 2100mm
6ft	1790mm x 2090mm	1800mm x 2100mm

- 2 The Doors open OUTWARDS**
Assemble the frame by gluing the Frame Jambs into the Frame Head, using waterproof glue and securing with the M5x80mm Steel Woodscrews provided, through the pre-drilled holes.

Use waterproof glue to fix the Frame Jambs into the Cill and secure with M5x80mm Steel Woodscrews provided, through the pre-drilled holes.



Ensure the frame is assembled absolutely true and square with a diagonal tolerance of maximum +/- 2mm

Installing the assembled frame

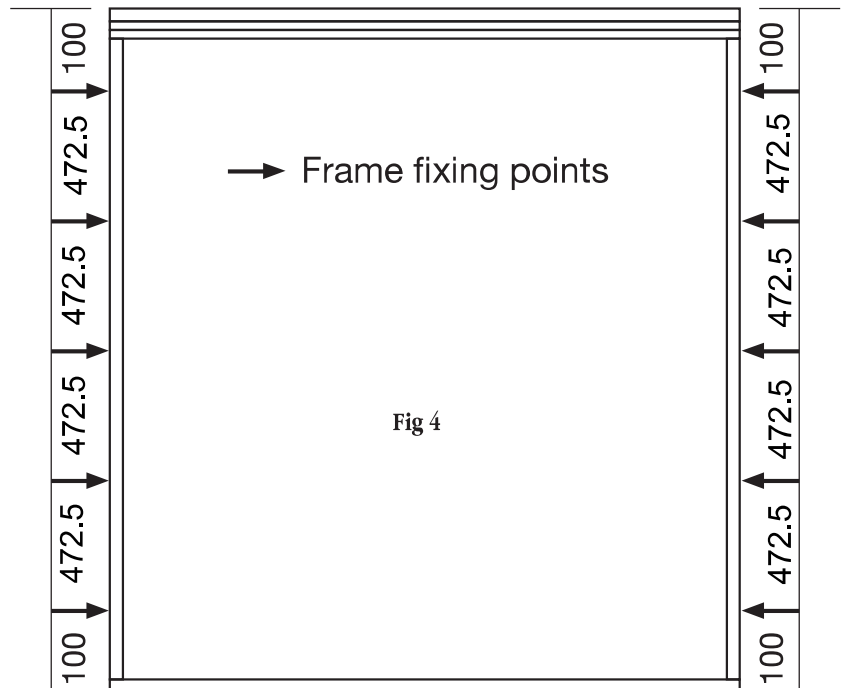
3 Installing The Frame Into The Brickwork Opening

Drill fixing holes as shown in Fig 4, using the HSS Drill. If drilling through the aluminium in the frame jamb, first use the centre punch to mark the hole, to avoid the drill bit slipping.

Check that the jambs are vertical from side to side and back to front, using a spirit level and plumb bob.

Use spacers or packers to hold the frame in the correct position.

Ensure the frame is square, with maximum +/- 2mm on the installed diagonal measurement of the frame, see Fig 1.



3a Fix the outer frame into the brickwork, *setting it to overhang the cavity*. Install sill onto a bed of silicone sealant and/or mortar. Fix the outer frame to the brickwork through both jambs with 5 fixings at spacing shown using the *direct frame fixings* provided (unless the construction of your building requires more appropriate fixings to suit the individual dwelling). Countersink holes in frame.

Use the *direct frame fixings* as follows:

- 1) Use the 6.5mm HSS drill (supplied) to drill holes in frame jambs.
- 2) Use the 6.5mm SDS masonry drill (supplied) to drill into the brickwork.
- 3) Use the Torx T30 bit (supplied) to screw in the *direct frame fixings*.

Important information about *direct frame fixings*

The Direct Frame Fixings supplied will screw directly into brickwork, It is essential to use the 6.5mm drills and Tork T30 bit provided to ensure a secure fixing.



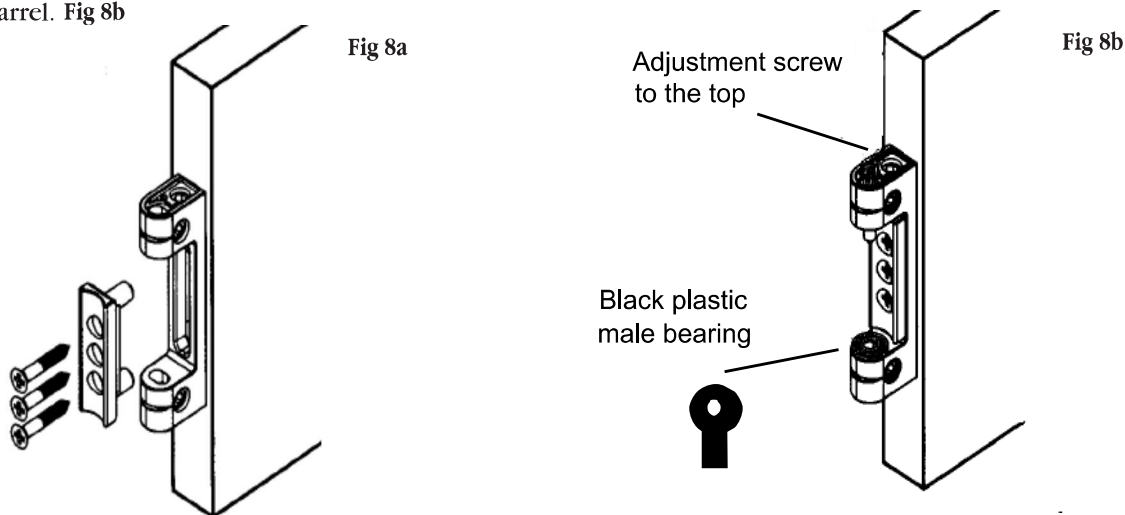
Fitting the hinges

- 4 First fix the barrel part of the hinges onto the door frame jambs into the pre drilled positions, just 'finger tight.'

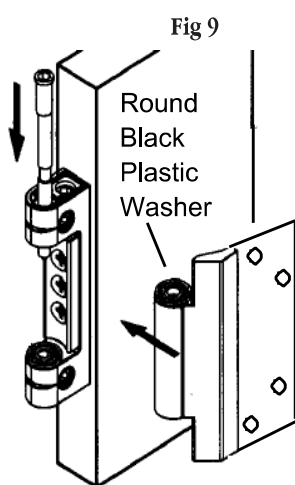
IMPORTANT.

With the hinge barrel screwed into position ensure you can still just move the barrel up and down with your hand. Fig 8a

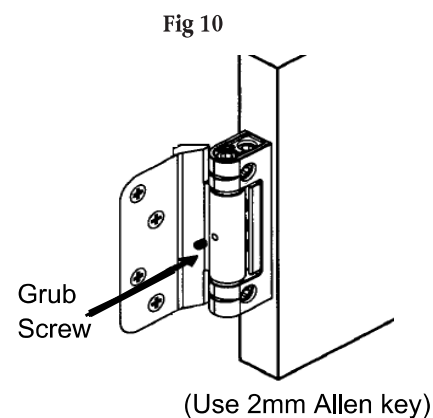
- 5 Locate the black plastic male hinge washer/bearing and push it into the metal hole at the bottom of the hinge barrel. Fig 8b



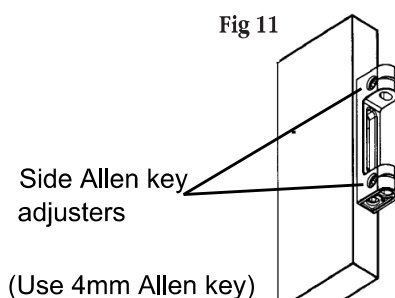
- 6 Locate the round plastic washer and fit it onto the top of the barrel on the hinge flap. Fig 9



- 6a Push and locate the 2 pieces of the hinge together, ensuring the plastic bearing washers remain in place, then insert the bolt down from the top to secure the 2 parts together. Finally screw the Grub Screw into the hole, leaving it loosely fitted at this stage. (Fig 9 and Fig 10)



Note: If you cannot insert the bolt, screw/unscrew the side adjusters to centre the cam, until the bolt slides in. Fig 11



Fitting the seals to the frame

- 7 Once the frame is fixed into place, fit the weather seals (AQ21) to the Frame Head, Jambs and Cill. (fig 14).

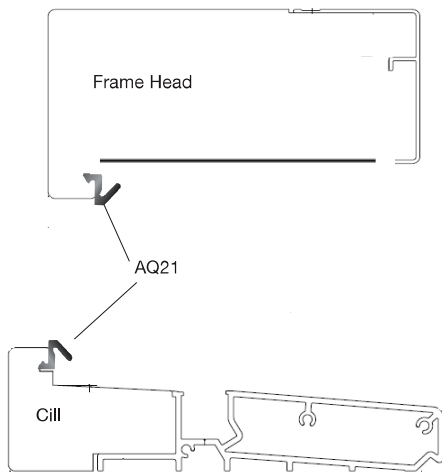
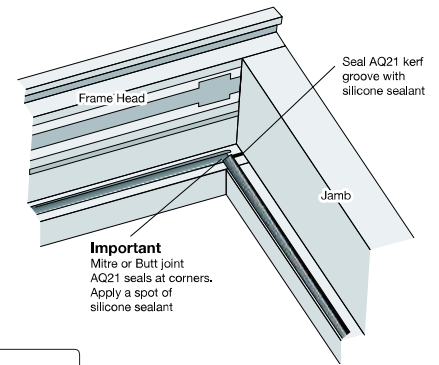
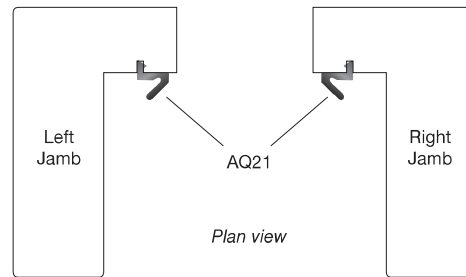


fig 14

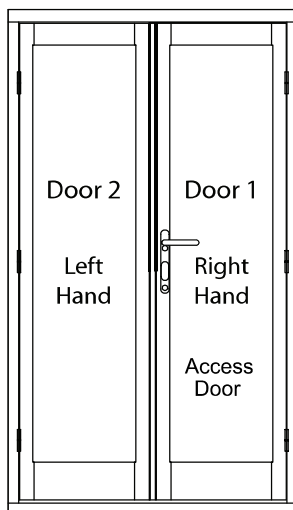


Select the Main Access Door

- 8 The Doors are reversible so either the right or left door can be the main Access Door. Looking from the outside towards the inside first identify door 1 which is the door with the lock machining and door 2, which is the door with the keep machining in the edge of the door and the drop bolt machining on the inside of the door.

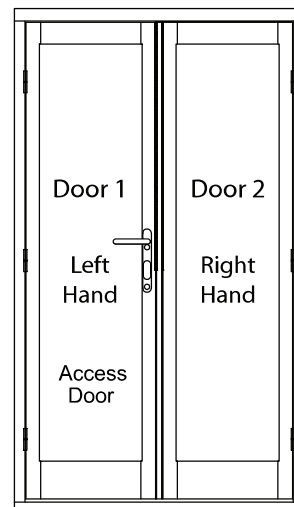
Decide which door will be the main access door with the handle and lock. (Right Access door Fig 12) or (Left Access door Fig 13).

Fig 12
Open Out



Looking from the outside
towards the inside

Fig 13
Open Out



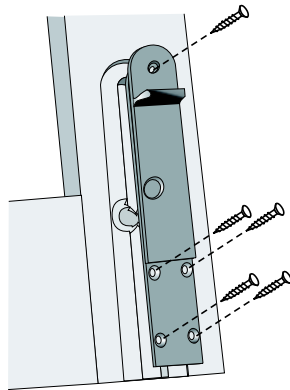
Looking from the outside
towards the inside

Fitting the dropbolts

Fit the drop bolts on the inside of the fixed door 2.

9 Fit the keyed drop bolt to the bottom of door 2 using the pre-cut position.

Fit the non-keyed drop bolt to the top of door 2 using the pre-cut position.



10 Fit the keyed drop bolt cup to the cill in the pre-cut position.

Fit the non-keyed drop bolt striker plate to the frame head in the pre-cut position.

Use the blank plates to cover the unused pre-cut positions.



Installing the doors into the frame

11 Supporting the door underneath, install each door with 2 screws through each hinge point to take the weight of the door, then install the remaining screws. (Fig 15 + Fig 16)
Repeat the process with the other door.

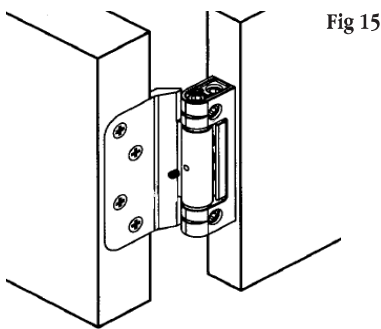
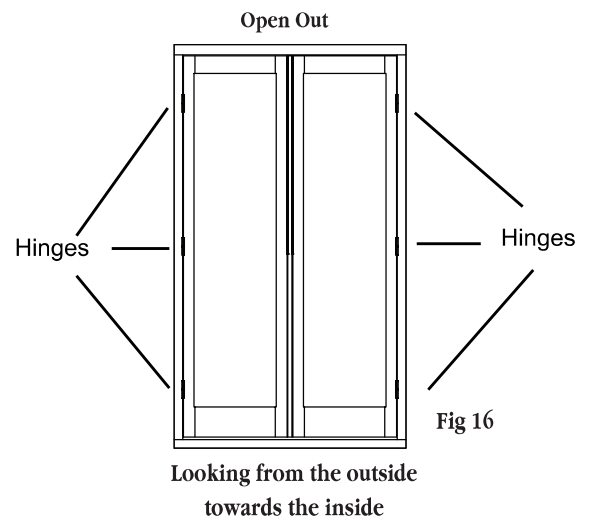


Fig 15

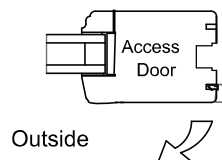


Astragal/Mullion Installation

12 Fix the Astragal/Mullion to the edge of the fixed door using the 30mm screws provided.

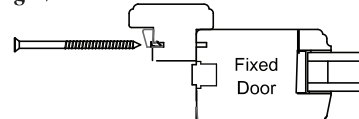
Open Out

Left door Access Door

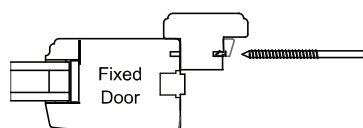


Outside

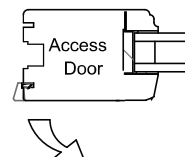
Fig 17



Right door Access Door

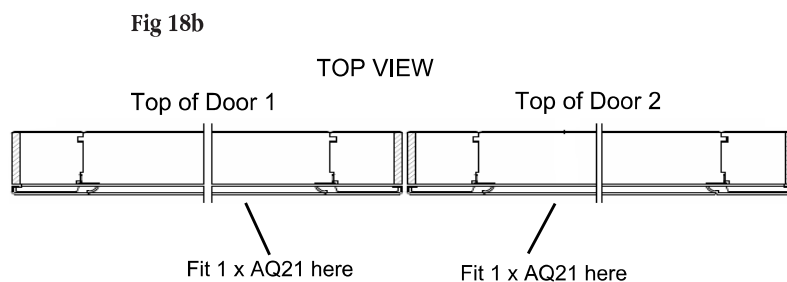
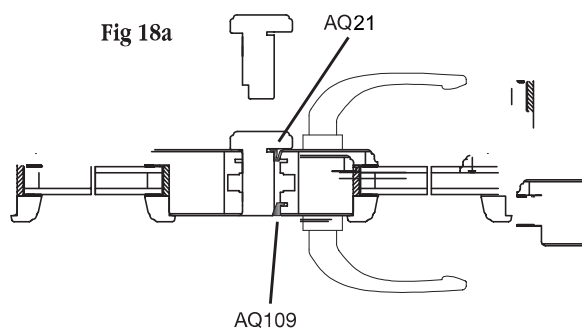


Outside

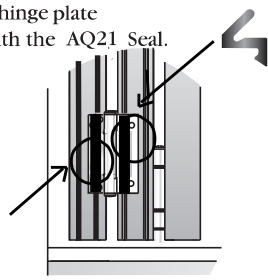


Fitting the weatherseals

- 13a** Fit the AQ21 seal into the groove in the Astragal and the AQ109 seal to the groove in the outer edge of the Access door ensuring the widest part of the AQ109 seal is to the outside (Fig 18a)
Fit 1 x AQ21 seal to the top of door 1 and 1 x AQ21 seal to the top of door 2. (Fig 18b)



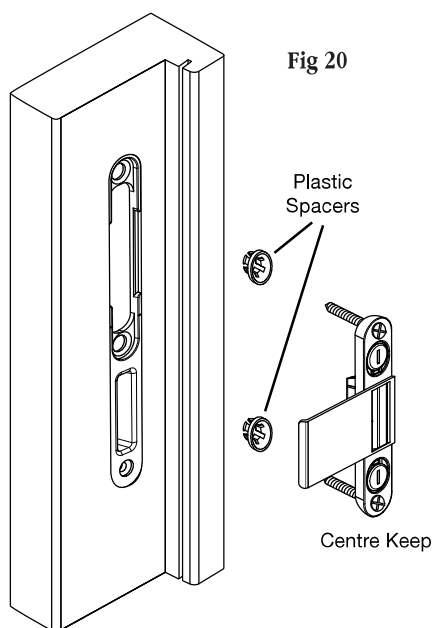
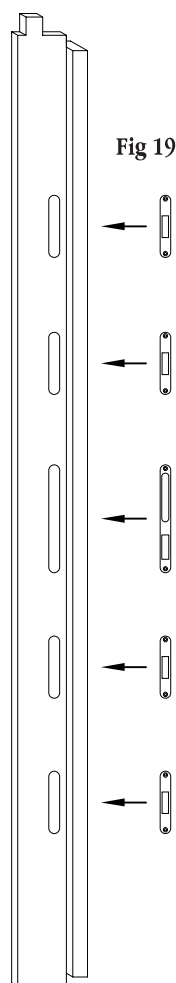
- 13b** Stick the 6pc self adhesive seals QL3116BLK onto the hinge plate in line with the AQ21 Seal.



Fitting the lock and handle

- 14** Fit the lock keeps into the precut positions in the Fixed door, using the screws provided.

Note: The centre keep has a long latch plate.
Fit the centre latch plate using the plastic spacers as shown in (Fig 19)

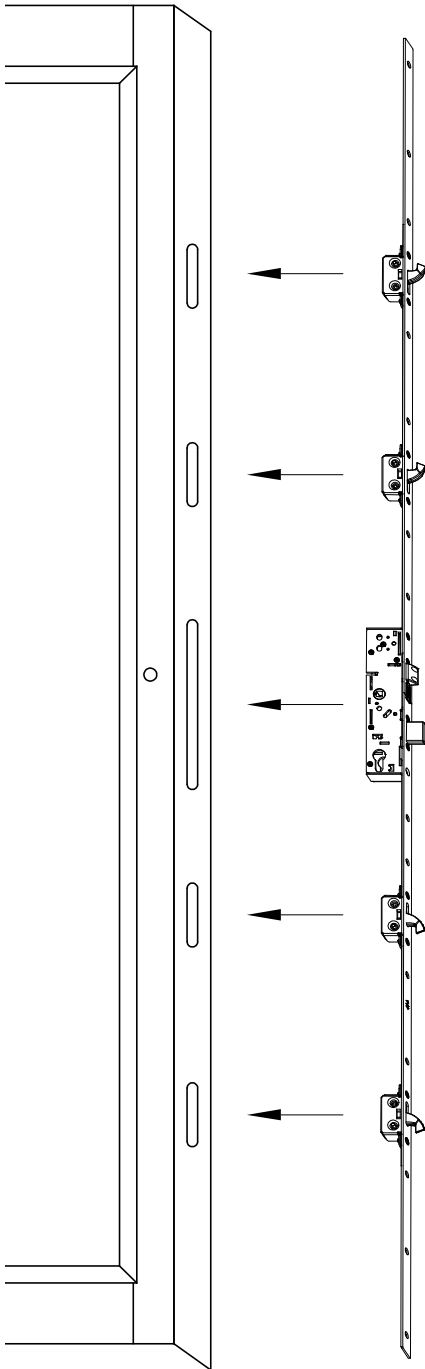


Fitting the lock and handle *continued*

- 15** Fit the lock into the Access Door. Apply masking tape to the face of the door and mark the holes for the keyhole and the handle locating screws. The keyhole is always at the bottom.

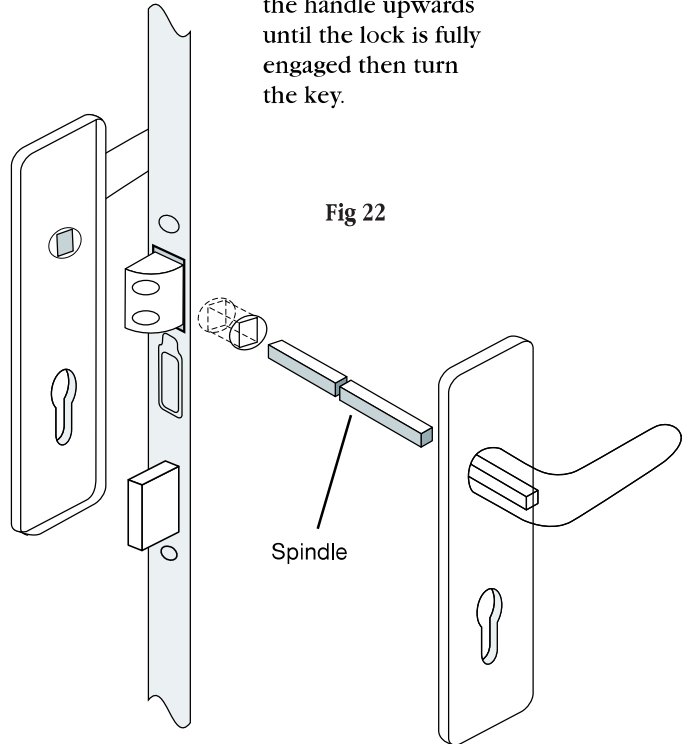
Very Important: Use the centre punch to mark the holes. Then drill a pilot hole with the 5mm HSS drill. Next use the 14mm HSS drill for the handle and keyhole. Finally use the 22mm HSS Drill for the keyhole only. Secure the lock in place and remove the masking tape.

Fig 21



- 16** *Fitting spindle assembly.* Insert the spindle through the lock and fix both handles using the screws provided. To lock the door, lift the handle upwards until the lock is fully engaged then turn the key.

Fig 22

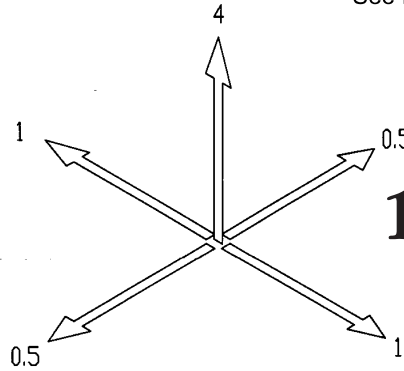
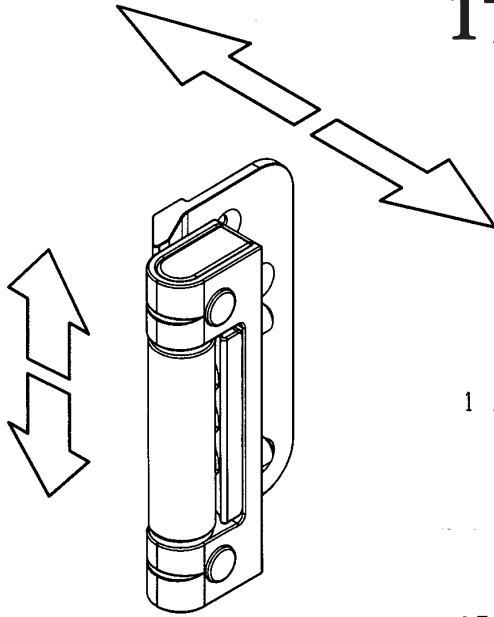


FINAL ADJUSTMENTS

17a The hinges permit adjustment in Height, Width and Compression.
Adjust as shown using 4mm Allen key.

17b After final adjustment with the lock functioning and locking you will have to remove the doors one last time by removing the centre pin.

17c Fully tighten the Hinge barrel screws, into the frame jambs. Then lift the doors back onto the hinges and replace and tighten the centre pin.
See Fig 23 and Fig 24



18 Once the hinge is fully adjusted insert and tighten the grub screw.
See Fig 25

Fig 23

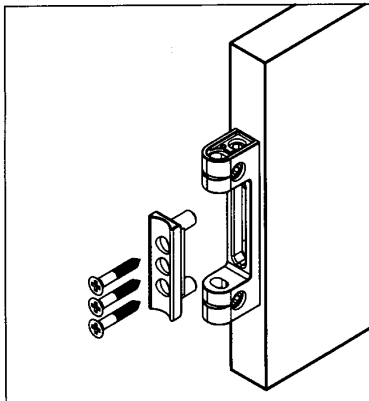


Fig 24

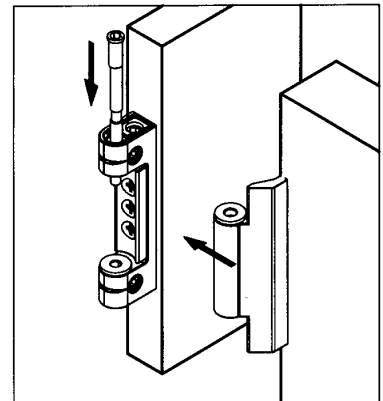
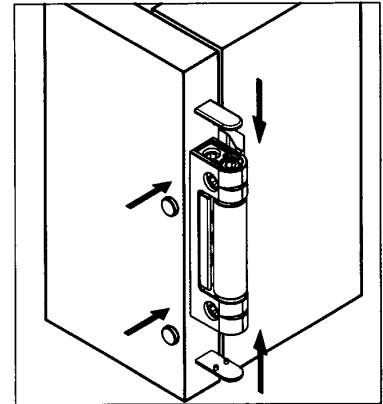
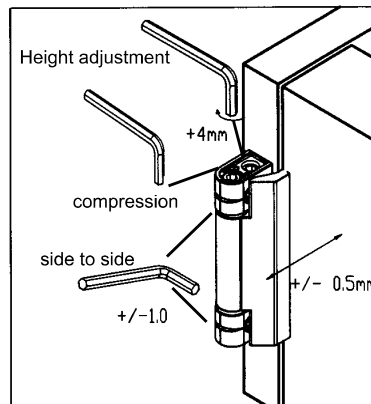
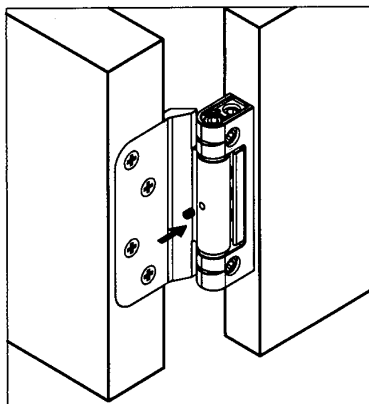


Fig 25



18 Insert the plastic covers onto the top and bottom of the hinge barrel and onto the allen keys at both sides of the hinge barrel.



Macclesfield, Cheshire SK10 2BN

DECLARATION OF CONFORMANCE

DoC N°: JCI/FDAC72

Product Type:	72 Range - Timber French Door
Intended Use:	For use in domestic and commercial premises Not intended for use on escape route
Declared System of Assessment Performance:	3
Provisions to which the Product Conforms:	Annex ZA of BS EN 14351-1:2006+A1:2010
Reference to Supporting Product Certification and/or Test Reports <i>(supportive of compliance)</i> :	Thermal Performance Report CU16018-1
Declared Performance:	Performance
Essential Characteristics	
Dangerous Substance:	No emissions of dangerous substances emitted
Load Bearing Capacity of Safety Device:	Npd
Thermal Transmittance:	1.0w/(m²K)

This declaration of performance is issued under the sole responsibility of JCI Limited.

Signed for and on behalf of the Company by

Name of Representative: John Collins

Job Title: Managing Director

Representative Signature:

Date of Issue: 05th February 2016

Product CE Marking Detail:

