

WT
54S

Slimline Sliding Folding Patio 3 Door Set

T6 Set - (Approx. 6ft)

T7 Set - (Approx. 7ft)

T8 Set - (Approx. 8ft)

T9 Set - (Approx. 9ft)

Assembly Instructions



About your patio door set

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.
- The Outer-Frame Head requires fixing to the building lintel over the opening. The lintel **must** be capable of carrying the load of the door in all conditions. If in doubt consult a structural engineer.

Automatic Closures and Operators

- The hardware systems are designed for manual operation. Poorly adjusted automatic operator closers can impart significant destructive forces to tracks, bearings and stops. Such hardware used in installations is expressly excluded from warranty terms.

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. (See separate parts list for component reference number).
- 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.

Finishing prior to Installation

- See **Pre-finishing the wooden parts** – Very important: We do not recommend wax or oil finishing systems such as Linseed oil or Teak oil.

Trimming

- This Sliding Folding 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 component only. These notes do not affect your statutory rights with the retailer of this product.

Maintenance

Hardware in buildings is subject to deterioration from everyday use, and also environmental attack due to atmospheric and other conditions. Maintenance of hardware is even more important in severe environments such as coastal marine areas, and some industrial areas. Even stainless steel products require maintenance to prevent deterioration in some environments. We require the following minimum maintenance to be followed otherwise the warranty shall be void.

Track and Bearings:

Using a spatula or similar (not your fingers), apply a small amount (typically a 1/2 teaspoon of white petroleum jelly (Vaseline) or similar lubricant to the inner lip of each side of the track. Ensure that the wheels pass through the lubricant and it is distributed evenly along the track. Put additional lubricant around bearings. Lubricant reduces wear, improves smoothness and further protects against corrosion or track and bearings. Remove all surface contaminants by wiping all visible track surfaces with a damp soft cloth and mild detergent, then wipe clean with a clean cloth. In severe environments, apply a thin film of corrosion preventative such as WD40, by wiping with a soft cloth moistened with one of these products.

Stainless steel bearings are manufactured from hardening-grade stainless steel and although this material performs considerably better than plated steels, it is susceptible to corrosion unless maintained as described above.

Hangers, Pivots and Brackets:

A light spray application of a corrosion preventative such as WD40, followed by a light wipe with a dry cloth to remove excess, is recommended to all hangers, pivots and brackets. Exposed surfaces should first be wiped with warm soapy water and a soft rag, and then rinsed clean before applying preventative.

Hinges:

Wipe down the visible surfaces with warm soapy water on a soft rag and then rinse off by wiping with a clean damp rag. Application of a thin film of light machine oil or WD40 will help to maintain the original lustre of the metal finish. Be careful not to get these compounds on the timberwork itself as may cause staining.

Drop bolts:

Spray application of a suitable lubricant such as WD40 to the sliding pin inside the bolt and to the lock cylinder is recommended. A tube attached to the nozzle will help to concentrate the spray where you want it to go. There are access holes or slots on all drop bolt products so that this can be done without removing the locks from the doors.

Frequency:

The procedures mentioned above need to be carried out as often as is necessary to prevent deterioration in the installed environment, however we recommend the following minimum frequency of application:

General environment - 6 monthly

Marine environment - 3 monthly

Please be careful not to get the lubricants or other liquids above on the Timber components as may cause staining of the timber.

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

We suggest additional treatment and finishing may be required at least once a year or sooner if there is any indication of deterioration in the wood protective finish used.

Contents (1)

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

Timber parts

Door 1 - Pivot door - quantity 1

- size 6' set = 1987 x 568 x 54mm
- size 7' set = 1987 x 668 x 54mm
- size 8' set = 1987 x 768 x 54mm
- size 9' set = 1987 x 868 x 54mm

- 54PFO06S-1/54PFW06S-1/54PFG06S-1/54SDPFO06S-1
- 54PFO07S-1/54PFW07S-1/54PFG07S-1/54SDPFO07S-1
- 54PFO08S-1/54PFW08S-1/54PFG08S-1/54SDPFO08S-1
- 54PFO09S-1/54PFW09S-1/54PFG09S-1/54SDPFO09S-1

Door 2 - Mid door - quantity 1

- size 6' set = 1987 x 568 x 54mm
- size 7' set = 1987 x 668 x 54mm
- size 8' set = 1987 x 768 x 54mm
- size 9' set = 1987 x 868 x 54mm

- 54PFO06S-2/54PFW06S-2/54PFG06S-2/54SDPFO06S-2
- 54PFO07S-2/54PFW07S-2/54PFG07S-2/54SDPFO07S-2
- 54PFO08S-2/54PFW08S-2/54PFG08S-2/54SDPFO08S-2
- 54PFO09S-2/54PFW09S-2/54PFG09S-2/54SDPFO09S-2

Door 3 - Access door - quantity 1

- size 6' set = 1987 x 568 x 54mm
- size 7' set = 1987 x 668 x 54mm
- size 8' set = 1987 x 768 x 54mm
- size 9' set = 1987 x 868 x 54mm

- 54PFO06S-3/54PFW06S-3/54PFG06S-3/54SDPFO06S-3
- 54PFO07S-3/54PFW07S-3/54PFG07S-3/54SDPFO07S-3
- 54PFO08S-3/54PFW08S-3/54PFG08S-3/54SDPFO08S-3
- 54PFO09S-3/54PFW09S-3/54PFG09S-3/54SDPFO09S-3

Top frame Head

includes aluminium top track
- quantity 1

Side frame sections (jambs)
- quantity 1 Set

Sill bottom section
includes aluminium bottom track
- quantity 1

- 54PFO06S-4/54PFW06S-4/54PFG06S-4/54SDPFO06S-4
- 54PFO07S-4/54PFW07S-4/54PFG07S-4/54SDPFO07S-4
- 54PFO08S-4/54PFW08S-4/54PFG08S-4/54SDPFO08S-4
- 54PFO09S-4/54PFW09S-4/54PFG09S-4/54SDPFO09S-4

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 striker plate



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



Hardware E22M3LRSTS

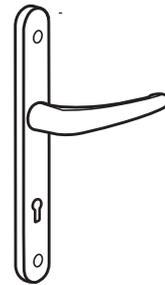
Top pivot - quantity 1

Top pivot fixing pack - quantity 1 pack



1D600

Door handles - quantity 1 Set



Bottom pivot - quantity 1

Bottom pivot fixing pack - quantity 1 pack



6402-85

Hook bolt keeps -
quantity 2



Half offset hinges - quantity 3

Half offset hinges
fixing pack - quantity 1 pack



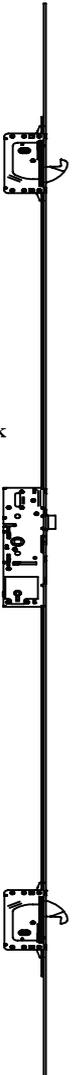
6401-101-85

Centre lock keep -
quantity 1



9935-619-85ZV

3 Point Bi-fold hook lock
quantity 1



Intermediate carrier - quantity 1

Intermediate
fixing pack - quantity 1 pack



6401-72-85

Latch plate -
quantity 1



Straight Hinge - Quantity 1

Straight Hinge
fixing pack - quantity 1 pack



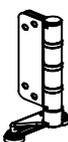
6401-spacer

Plastic spacers - quantity 2



Intermediate guide - quantity 1

Intermediate guide
fixing pack - quantity 1 pack



6402-102-85
Hook bolt
blank keeps -
quantity 2



6401-102-85
Centre lock
blank keep -
quantity 1

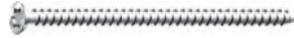
Contents (2)

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

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Installation Bag Contents

Direct Frame Fixings - quantity 22



Hardened Steel Wood Screws

M5 x 100mm - quantity 4

M5 x 70mm - quantity 4

M5 x 60mm - quantity 4



Torx T30 Insert Bit - quantity 1



Pozi No.2 Insert Bit - quantity 1



HSS Long Series Drill Bit - quantity 1

6.5mm x 148mm

SDS Drill Bit - quantity 1

6.5mm x 210mm

Steel cross recess mushroom head bots zinc M6 x 80 - quantity 14

Steel M6 nuts zinc M6 x 80 - quantity 14

a2 machine screws philips raised countersunk M5 x 55 - quantity 2

a2 machine screws philips raised countersunk M5 x 65 - quantity 2

a2 machine screws philips raised countersunk M5 x 70 - quantity 2

Hardened steel wood screws pozi flat countersunk M4 x 40 - quantity 37

WIB54NN08S

Installation Instructions - quantity 1

DDAK001

8mm Allen Key - Quantity 1



Seals



Draft seal AQ21

T6

2.3 metres x 6

T7

2.3 metres x 6

T8

2.3 metres x 6

T9

2.3 metres x 4
3.5 metres x 2

AQ21BLK2.3
AQ21BLK3.5

Draft seal Brush seal

2.3 metres x 1

2.3 metres x 1

2.3 metres x 2

2.3 metres x 2

brushseal2.317



Draft seal AQ63

2 metres x 4

2 metres x 4

2 metres x 4

2 metres x 4

AQ63BLK2

Adhesive Seals



QL3116BLK

100mm x 2

100mm x 2

100mm x 2

100mm x 2



AQ122BLK

100mm x 6

100mm x 6

100mm x 6

100mm x 6

Pre-finishing the wooden parts - FOR UNFINISHED SETS ONLY

After you have checked the parts list to ensure you have all the parts ready and all components are in good condition (replacement parts are available) please carry out the pre-finishing procedure specified.

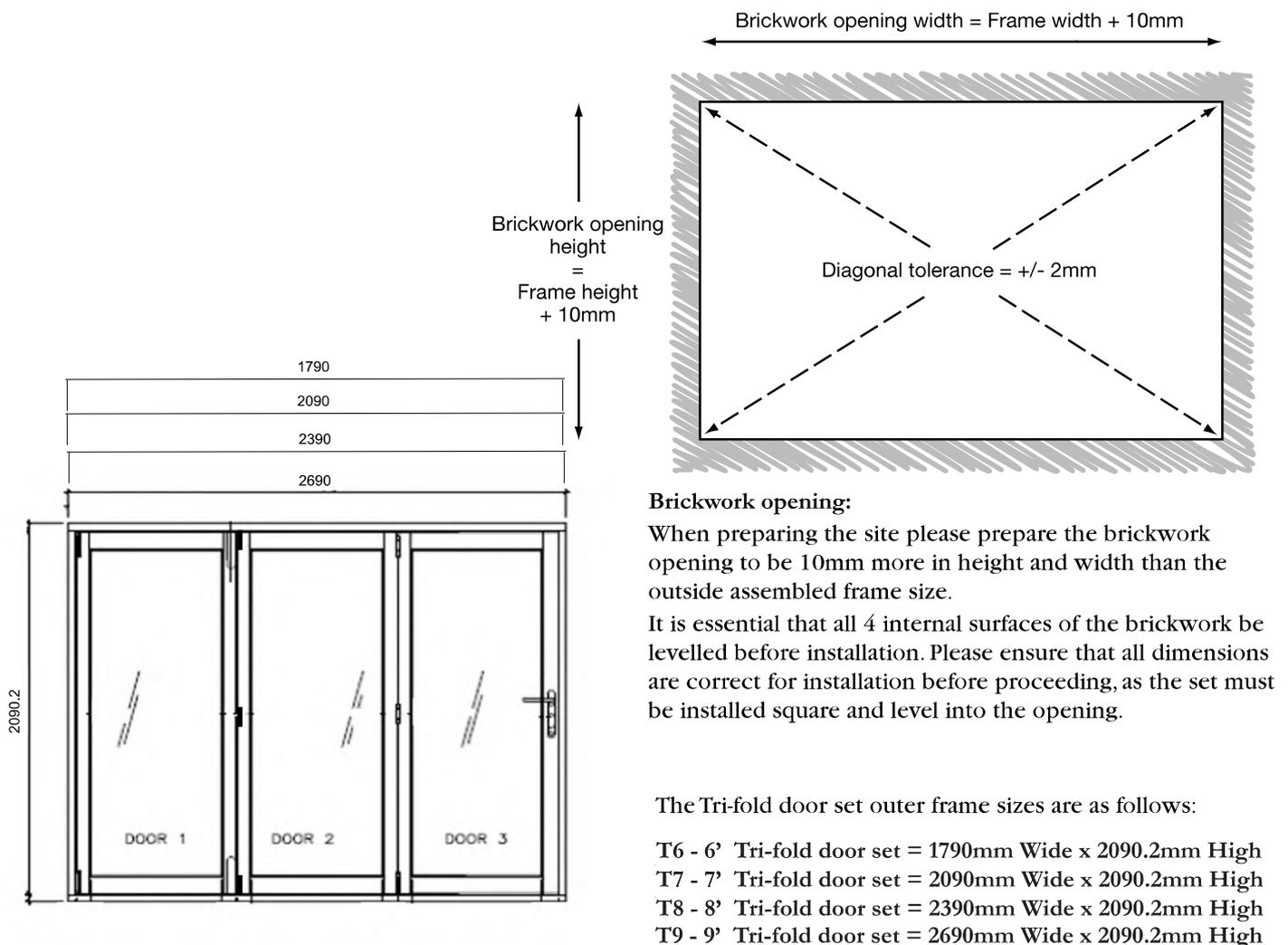
Please do not proceed with installation or assembly before applying high quality water-repellent sealant to all wooden parts as recommended below. It will be difficult for you to apply the sealants correctly once the product is assembled and installed. Failure to do this will cause the wooden parts to break down in UK weather conditions.

- Apply at least 3 coats of water-repellent protective finish to all faces, edges and top/bottom of each door and wood frame component prior to starting assembly or installation. Ensuring the backs of each frame is well sealed. For your convenience the under side of the wood components in the sill have received a factory applied sealant coating therefore there is no need to remove from the assembled sill. Just finish the exposed wooden areas of the sill in its assembled form as supplied.
- Apply a further coating of water-repellent protective finish to the back of the frame once the frame has been assembled and just prior to installation - all 4 edges.
- Apply a further topcoat of water-repellent protective finish to the tops and bottom of each door before installing the hardware or installation. The tops and bottom of each door are critical areas to finish, as this is the end grain area of the timber where moisture absorption will occur.
- If any scratches are incurred during installation please give another coating.

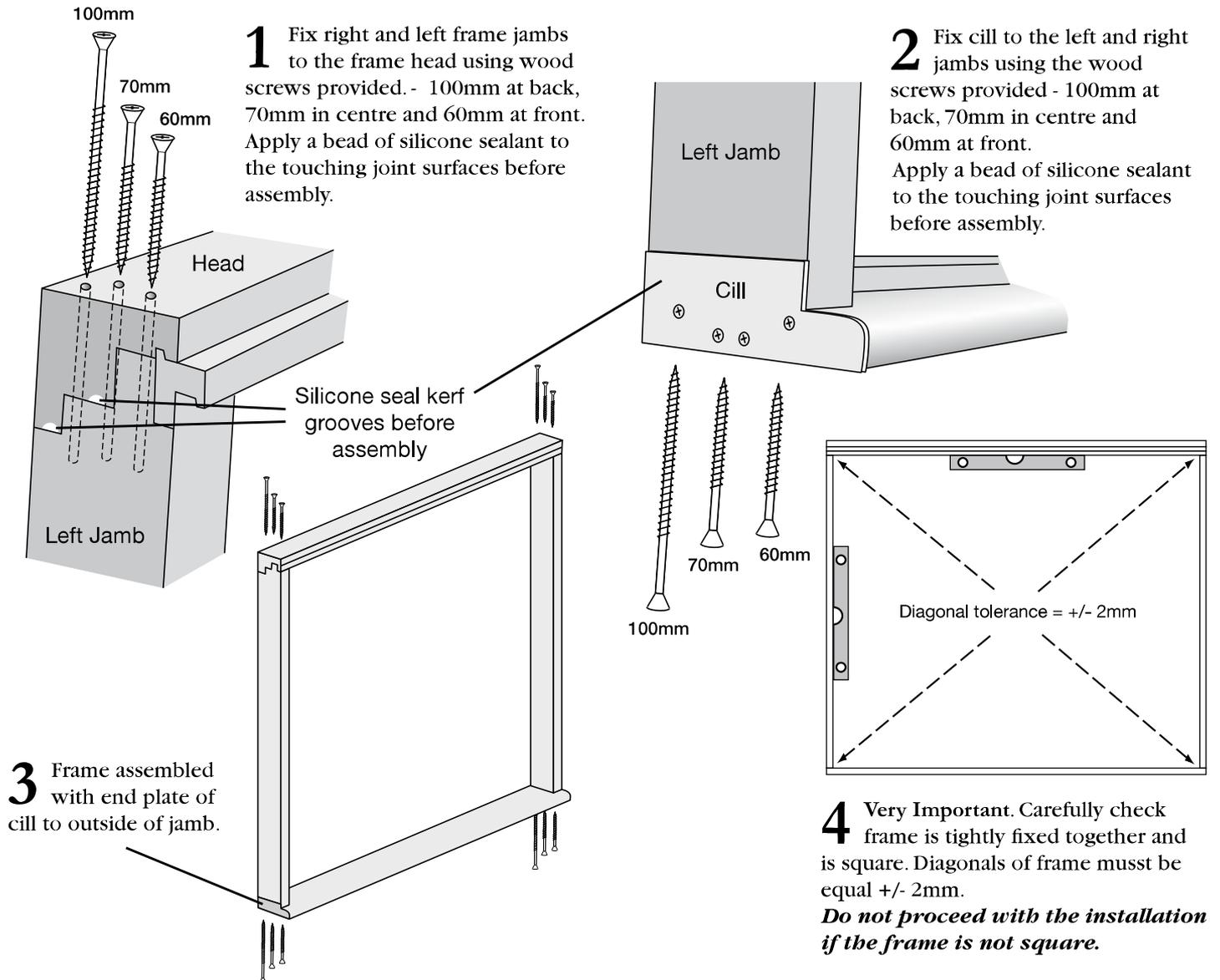
For sets factory pre-finished

Please see the separate booklet (Home owners manual) with detailed information and maintenance guidelines.

Preparing the site

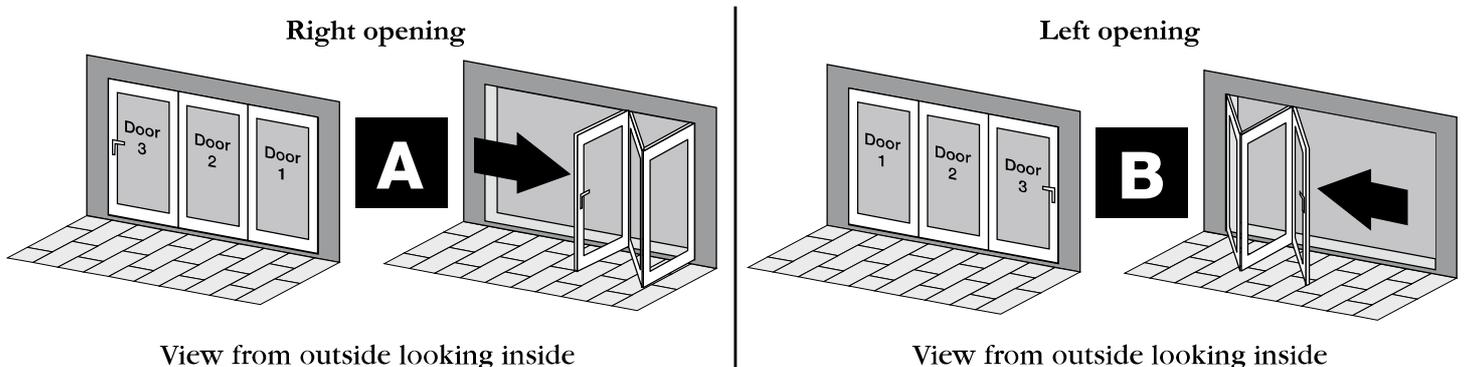


Assembling the frame



Opening options

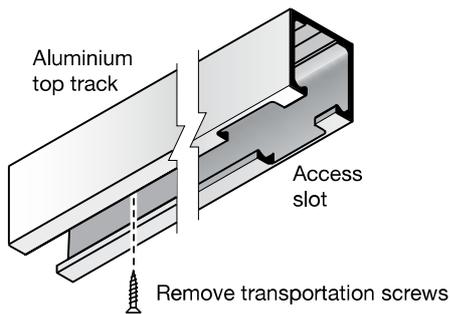
- 5** Choose the opening direction before installing the frame. The Tri-fold door set is reversible, with left or right opening options. Before assembling the frame or fitting the doors, choose the direction you wish the doors to open. This will determine which instructions, **A** or **B**, to follow and which door to fit first. (The Tri-fold doors always open outwards.)



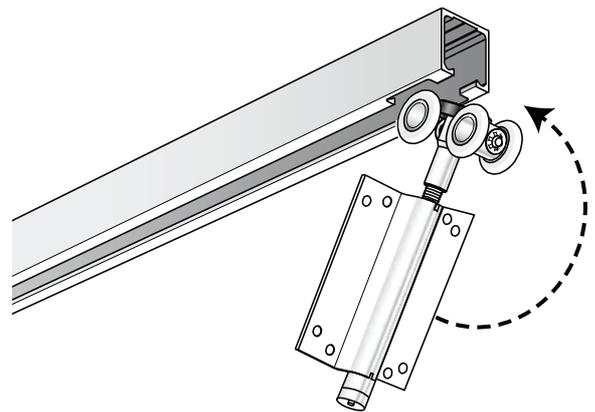
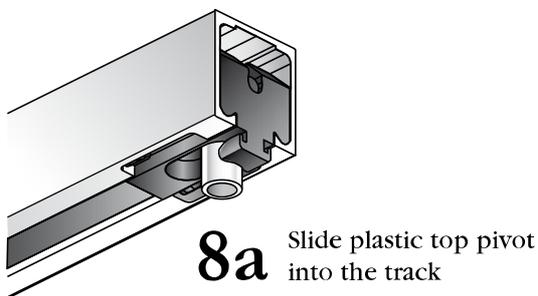
Follow the appropriate instructions for your choice of opening.
Follow **A** for Right opening. Follow **B** for Left opening.

Assembling the top track

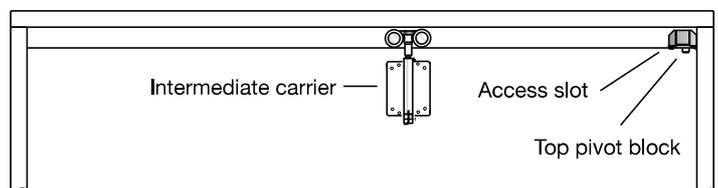
A Instructions for Right opening



6a Remove the two transportation screws to release the aluminium top track from the frame head.



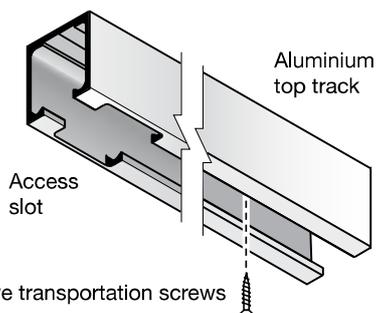
7a Slide the intermediate carrier wheels into the track.



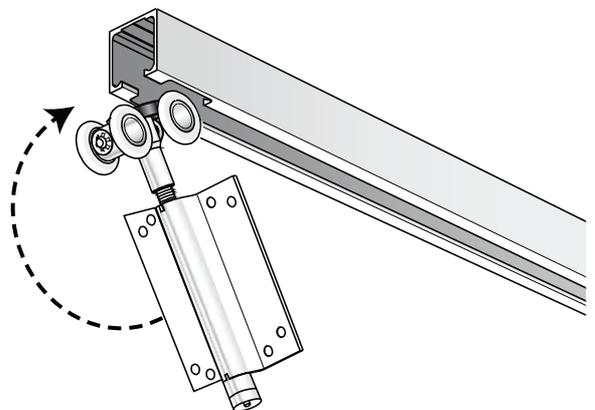
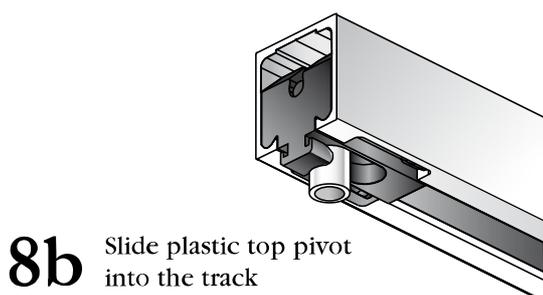
9a Re-secure the top track to the frame head using the two transportation screws **only** at this stage.
Important - The track access slot is on the right

Assembling the top track

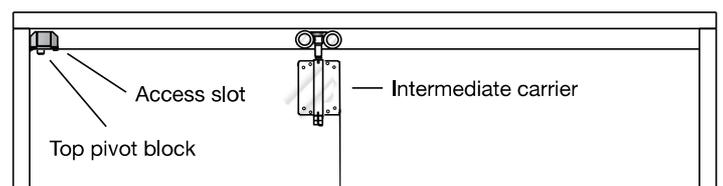
B Instructions for Left opening



6b Remove the two transportation screws to release the aluminium top track from the frame head.



7b Slide the intermediate carrier wheels into the track.



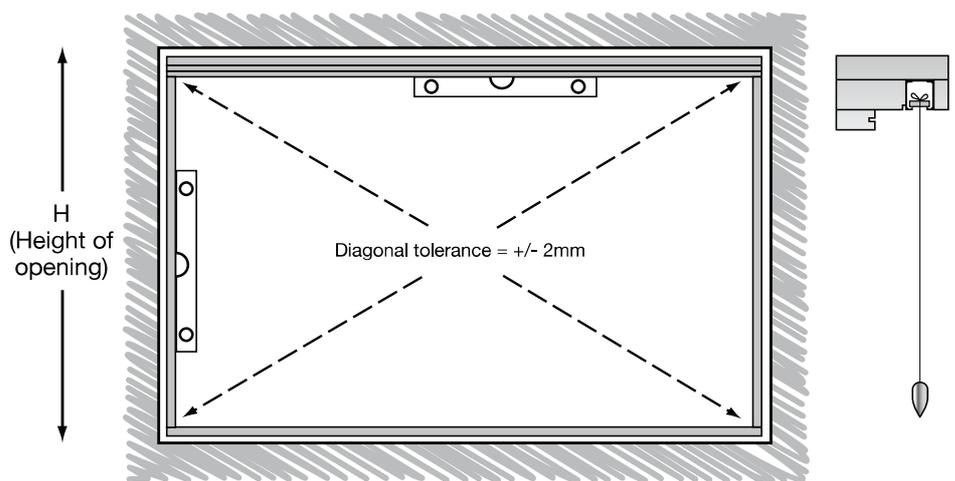
9b Re-secure the top track to the frame head using the two transportation screws **only** at this stage.
Important - The track access slot is on the left

Installing the assembled frame

Proceed to install the assembled frame ensuring that the sill 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, if necessary use shims (packers) between the frame and the brick opening.

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

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

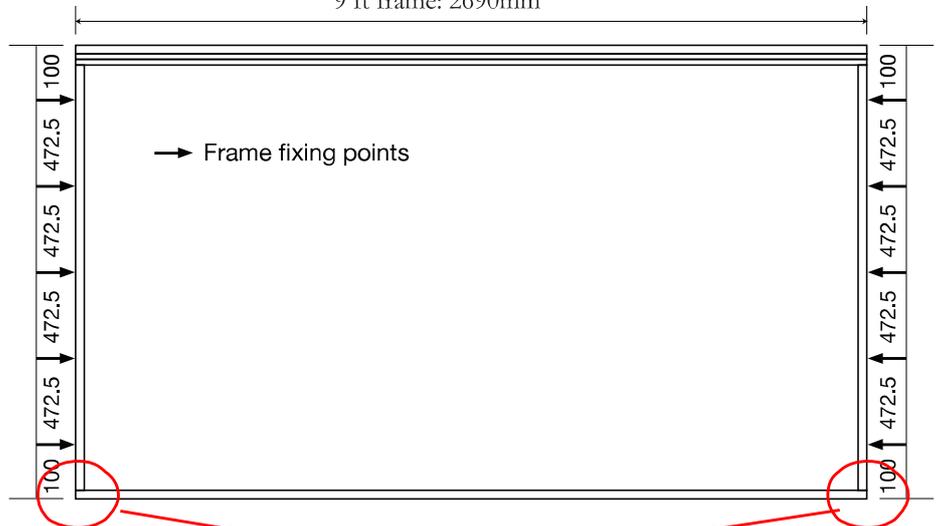


10 Fix the outer frame into the brickwork, **setting it to overhang the cavity**. Install sill onto a bed of silicone sealant and/or mortar.

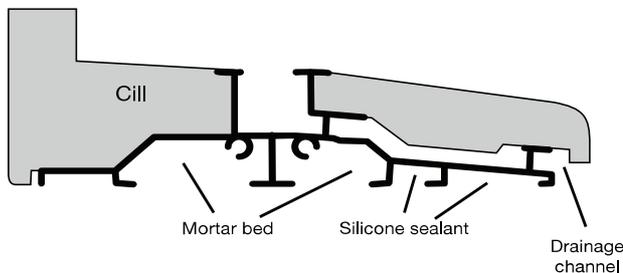
- 6 ft frame: 1790mm
- 7 ft frame: 2090mm
- 8 ft frame: 2390mm
- 9 ft frame: 2690mm

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, aluminium track and steel.
 - 2) Use the 6.5mm SDS masonry drill (supplied) to drill into brickwork.
 - 3) Use the Torx T30 bit (supplied) to screw in the **direct frame fixings**.



Do not fix through the aluminium part of the sill as this may damage the drainage system.

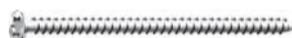


IMPORTANT NOTE

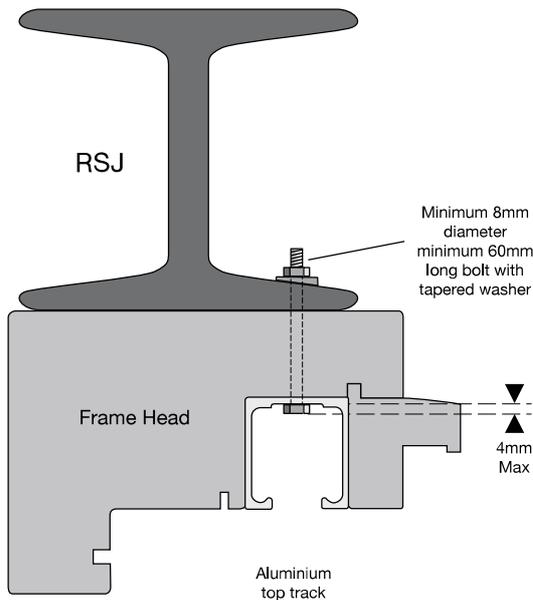
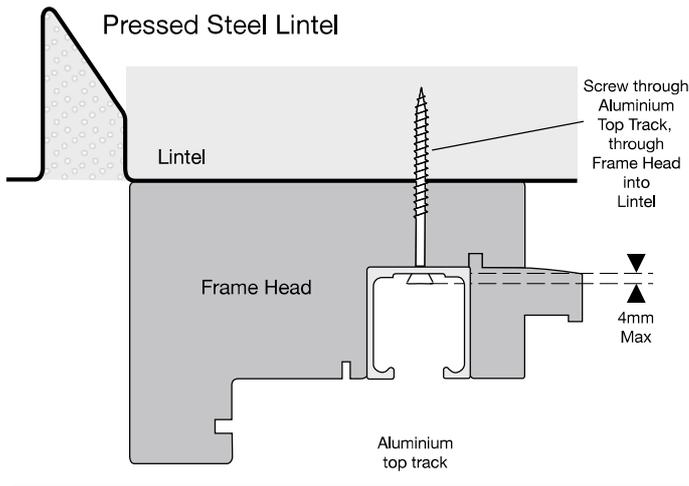
After the frame is installed, Silicone Seal around the base of the frame jamb/Cill joint as shown in the drawing

Important information about **direct frame fixings**

The Direct Frame Fixings supplied will screw directly into brickwork and up to 2.5mm thickness of steel. It is essential to use the 6.5mm drills and Tork T30 bit provided to ensure a secure fixing.



Installing the assembled frame *continued*



11 The aluminium top track, which is temporarily held in place with transit screws, has been pre-drilled for fixing points into the Lintel. The aluminium track must be securely fixed, through the head of the frame, into the lintel using the **direct frame fixings** provided, through every predrilled hole in the top track.

Use the **direct frame fixings** as follows:

- 1) Locate the pre-drilled holes in the aluminium top track (either 7 or 8 holes depending on width of frame).
- 2) Use the 6.5mm HSS drill (supplied) to drill through pre-drilled holes, through timber frame head and through pressed-steel lintel.
- 3) Use the 6.5mm SDS masonry drill (supplied) to drill through same holes into brickwork above lintel.
- 4) Use the Torx T30 bit (supplied) to screw in the **direct frame fixings**.

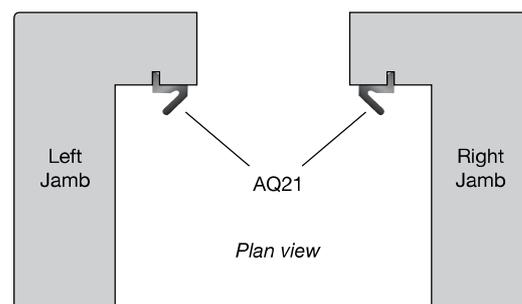
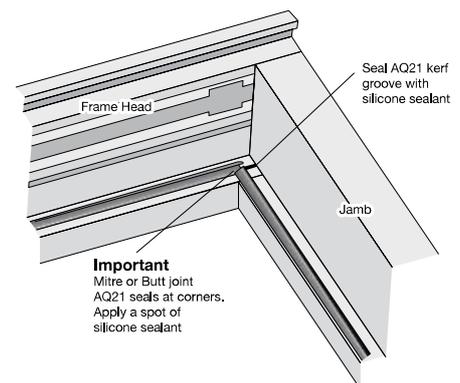
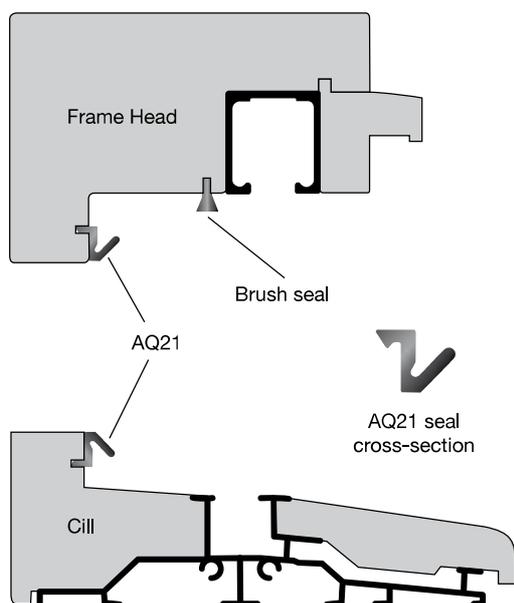
IMPORTANT: Fixings must fix through aluminium track, frame head and lintel. (The fold and slide system is “top hung” so all the weight is supported from the aluminium top channel and the head of the timber frame, hence the importance of a secure fixing into the lintel, to enable the system to work correctly.)

Please note that the maximum screw head that can be used is 4mm without inhibiting the performance of the sliding/folding action. (Wheels along upper track). We have provided fixings to suit a steel lintel. For any other type of lintel such as concrete, timber or other we recommend you consult with a structural engineer before deciding on the best fixings to use.

For fixing into RSJ / "I" Lintel use nuts and bolts (not provided). Do not use **direct frame fixings**.

Fitting the seals to the frame

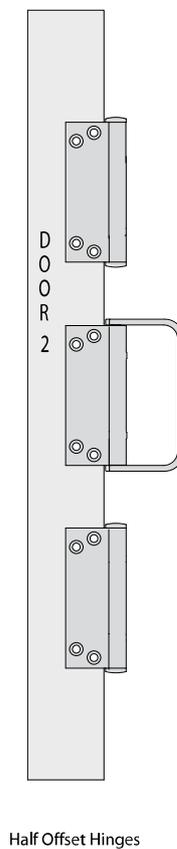
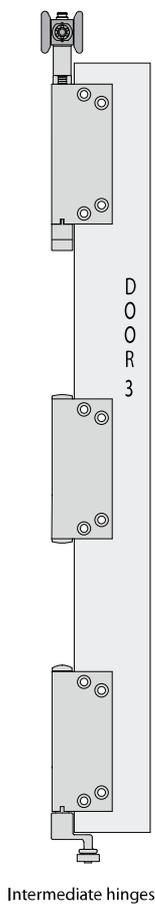
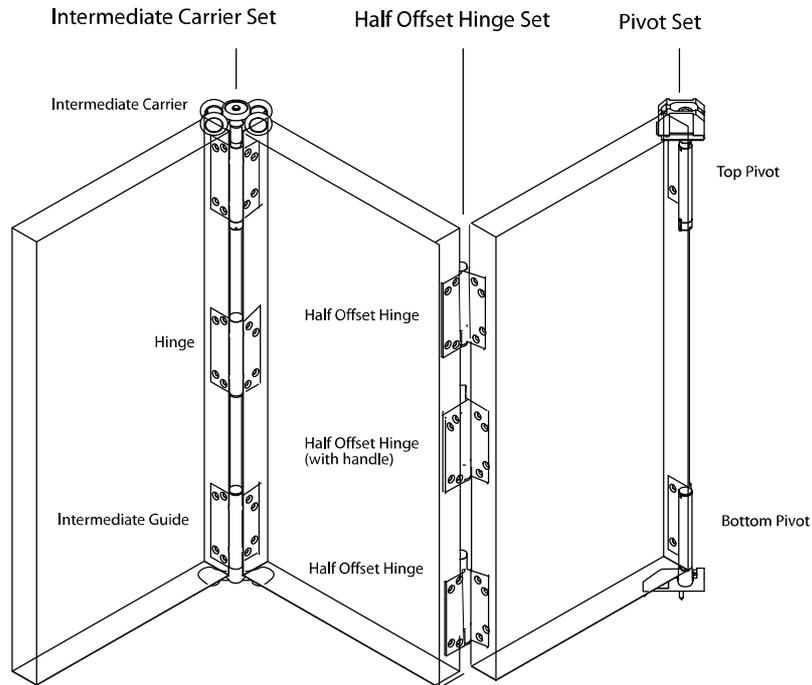
12 Once the frame is fixed into place, fit the weather seals (AQ21) to the frame and the brush seal into the frame head.



Overview of door and hardware arrangement

13a

Choice **A** for Right opening

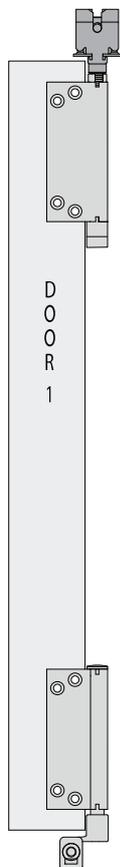
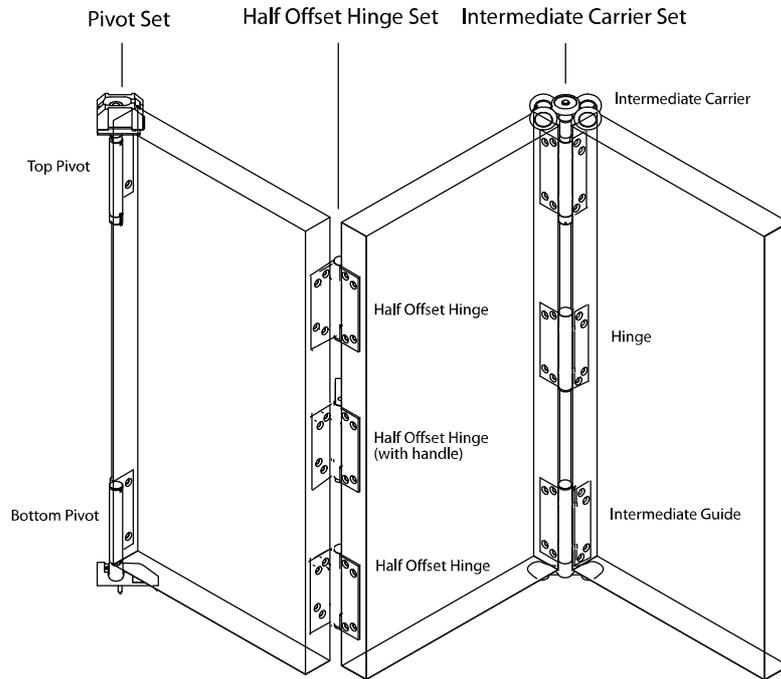


Note: Pivots are reversible. For this option 'A' it is necessary to take the top and bottom pivots apart to reverse them - see 16

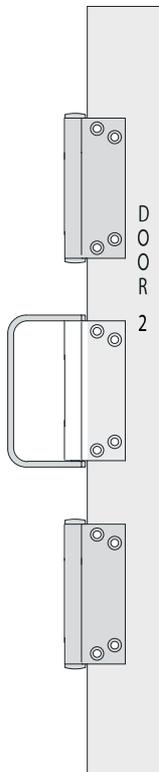
Overview of door and hardware arrangement

13b

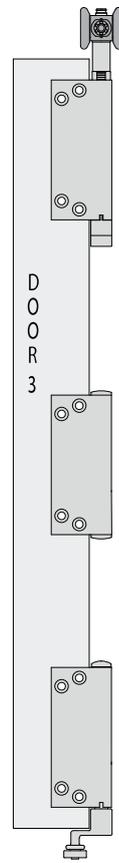
Choice **B** for Left opening



Pivot Hinges



Half Offset Hinges



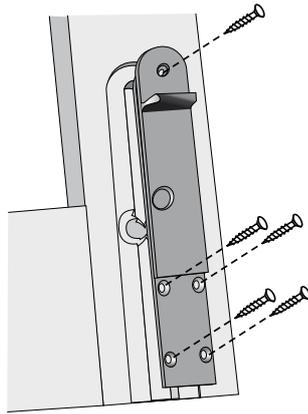
Intermediate hinges

Note: Pivots are reversible. The pivots are delivered set up for this option 'B' - Use without change.

Fitting the dropbolts

14 Fit the keyed drop bolt to the bottom of door 1 using the pre-cut position.

Fit the non-keyed drop bolt to the top of door 1 using the pre-cut position.



15 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.

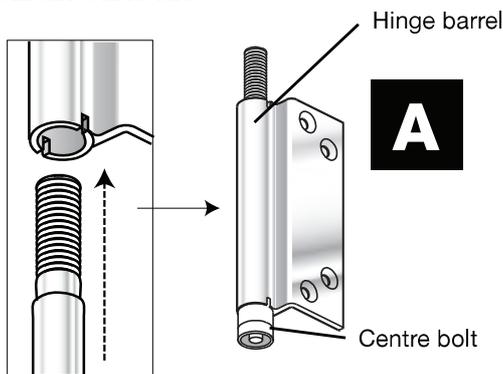
Use the blank plates to cover the unused pre-cut positions.



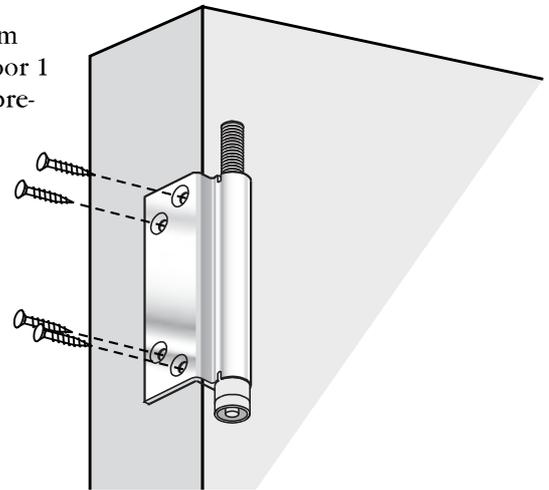
Fitting the pivot door (door 1)

Before fitting door 1 thoroughly clean the top and bottom tracks

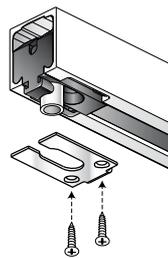
16 Reversing top pivot - Applicable to option **A** only. Carefully remove centre bolt from hinge barrel then re-insert from the other end.



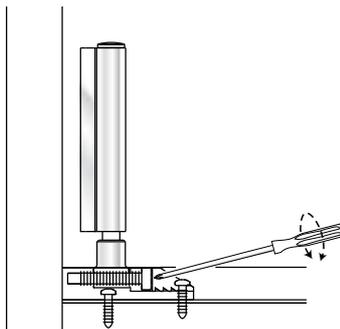
17 Fix top and bottom pivot hinges to door 1 using screws supplied in pre-machined positions.



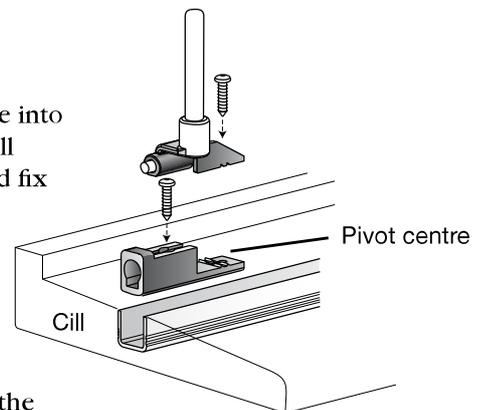
18 Assemble top pivot block. Slide and click cover plate onto the pivot block. Screw through cover plate into rear of access slot ensuring the pivot block is sitting tight up against the frame jamb.



19 Remove centre part of bottom pivot

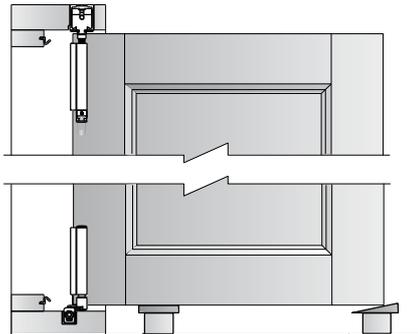


20 Insert pivot base into cill channel. Drill pilot hole in channel and fix with self-tapping screw. Re-assemble centre part with pivot to **outside**. Drill second pilot hole and fix with self-tapping screw through complete unit ensuring the pivot block is sitting tight up against the frame jamb.



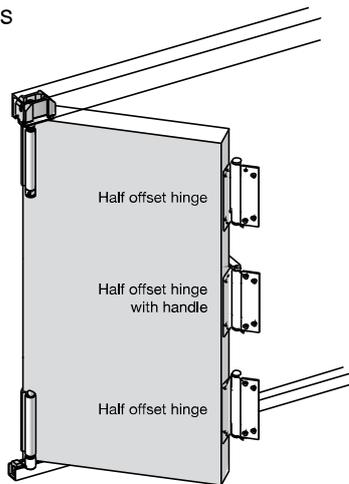
Fitting the pivot door (door 1) *continued*

- 21** Lift door onto bottom pivot. Support door then screw top pivot centre bolt into pivot block until door swings freely.

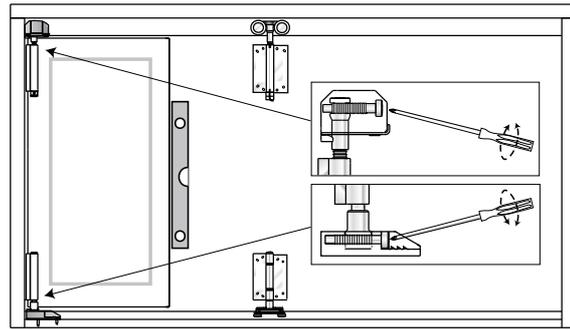


Note:
Screwing top pivot bolt in and out adjusts height.

Temporary supports

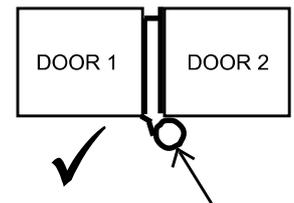
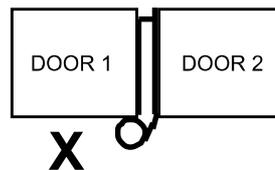


- 22** Adjust alignment of pivot door as shown. Leave a 7mm gap between the door edge and the frame jamb.



- 23** Fit half offset hinges to the inside edge of door 1. in the machined position using screws provided.

Note:
Hinge barrels and centre hinge handle to *inside*.



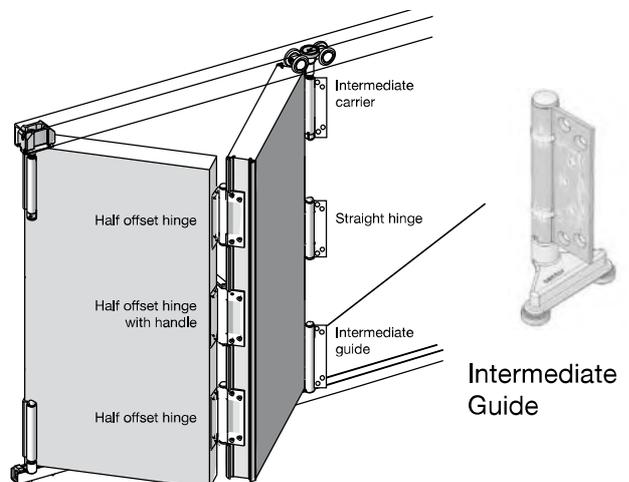
VERY IMPORTANT
Offset Hinge Barrel must be
on Door 2

Fitting the middle door (door 2)

- 24** Fix the Intermediate Carrier Set to Door 2 only, using the machined hinge positions and screws provided.

- 25** Lift door 2 and locate intermediate guide in bottom channel. Support door on blocks then screw top carrier bolt into top wheel assembly.

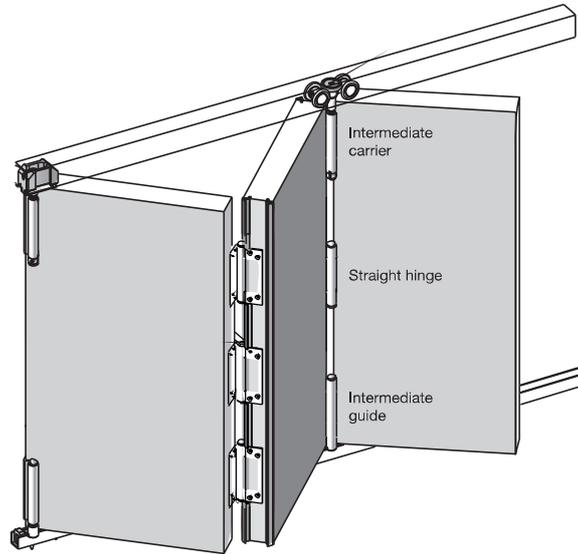
Finally fix door 1 and 2 together using the half offset hinges fitted into the machined positions.
Note: Handle to inside and Glazing bead side of the door to the inside.



Fitting the access door (door 3)

26 Attach door 3 to the Intermediate Carrier and Intermediate Guide in the pre-machined positions using the screws provided. Use the Straight Hinge in the central position.

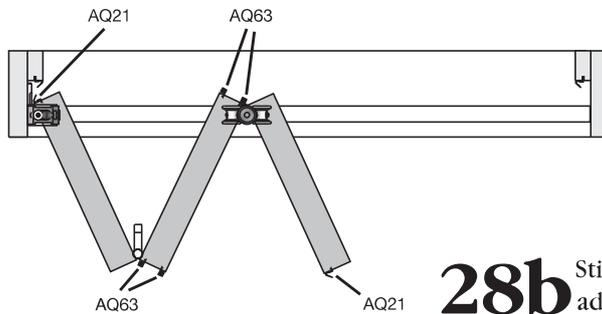
Drawings in this section show the arrangement of parts for Opening Option **B**



Fitting the weather seals to the doors

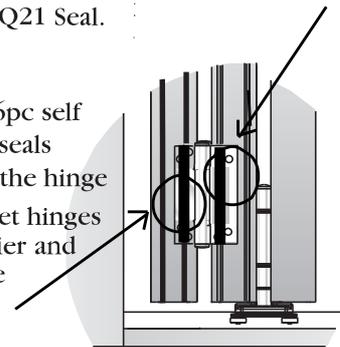
27 Fit weather seals to doors as follows:

- 1 strip type AQ21 to door 1
- 4 strips type AQ63 to door 2
- 1 strip type AQ21 to door 3



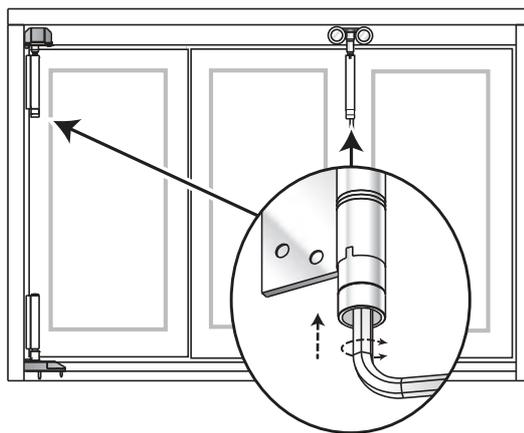
28a Stick the 2pc self adhesive seals QL3116BLK onto the top and bottom pivot hinge plate in line with the AQ21 Seal.

28b Stick the 6pc self adhesive seals AQ122BLK onto the hinge plates of the Half offset hinges and intermediate carrier and guide, in line with the AQ63 Seal.

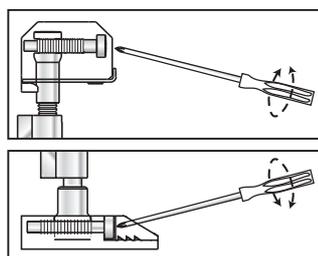


Adjusting the operation of the doors

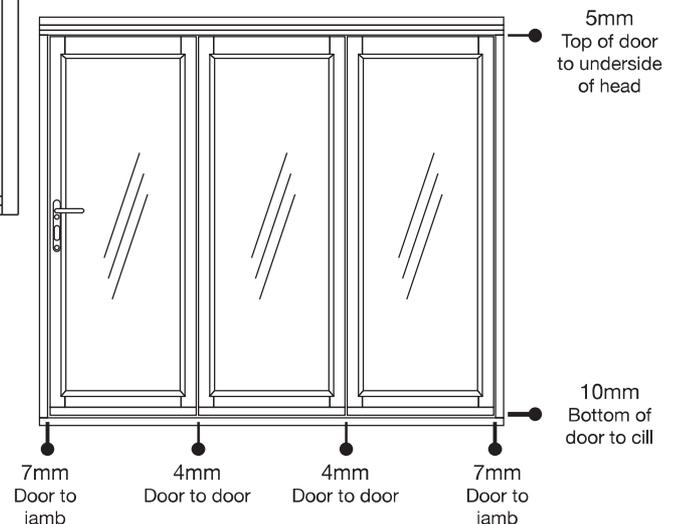
29 Raise or lower the height of the doors by adjusting the top pivot and intermediate carrier. Insert the Allen Key provided then turn clockwise to raise and anti clockwise to lower the doors.



30 Adjust the top and bottom pivots to move the doors left or right.



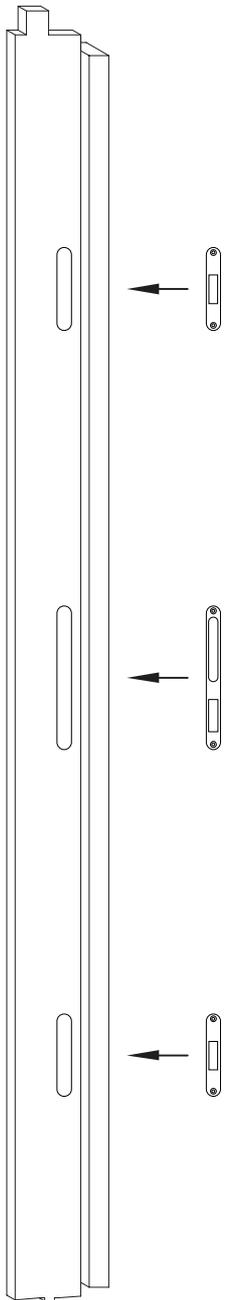
Final adjustment, correct spacing



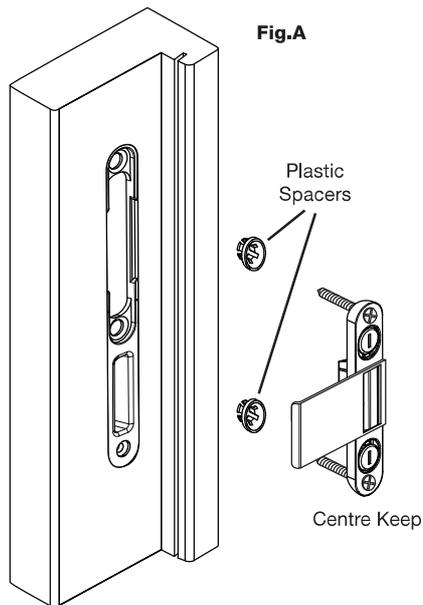
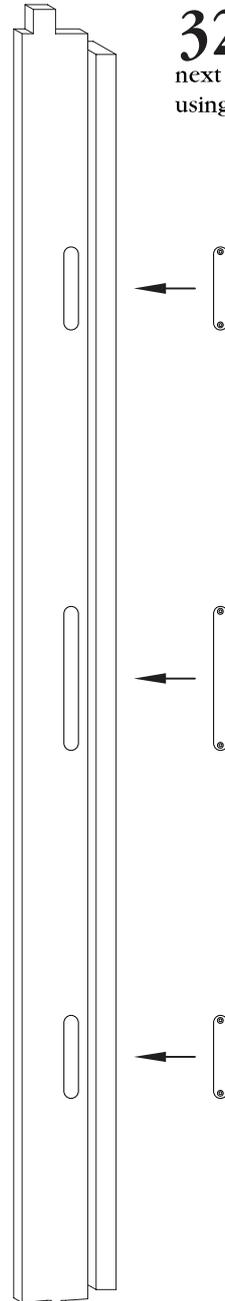
Fitting the lock and handle

31 Fit lock keeps into frame jamb next to door 3 using the pre-cut positions.

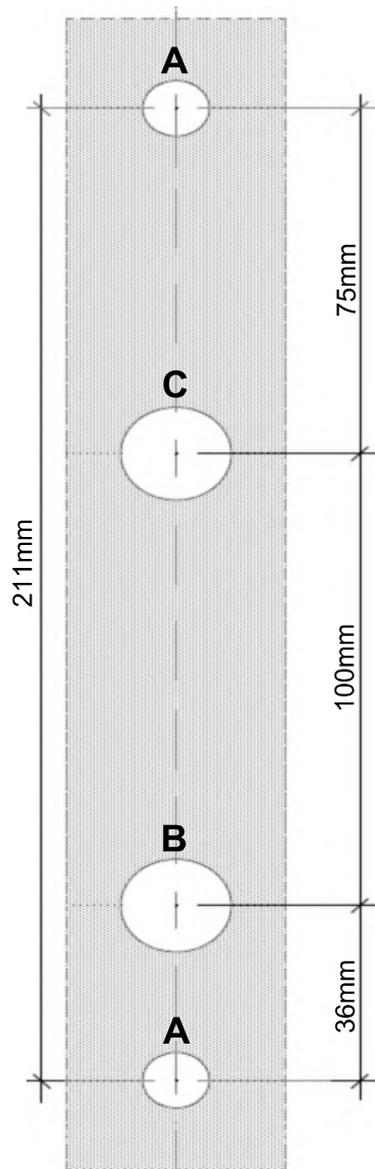
Note. The centre keep has a long latch plate. For the most professional look, fit the latch plate into the frame by cutting and machining. If you do not want to cut the frame, fit the centre latch plate using the plastic spacers as shown in fig.A



32 Fit blank keeps into frame jamb next to door 1 pivot door using the pre-cut positions.



Fitting the lock and handle *continued*



Handle & Lock Preparation

33a Carefully measure and mark out the centre points for both the 2 x Handle Screw Holes (A) and the 1 x Key Hole (B) on both faces of the door.

Your Spindle Hole (C) will be pre-machined.

Drill the 2 x Handle Screw Hole locations (A) using a 12mm flat wood bit, and drill the 1 x Key Hole Location (B) using a 22mm flat wood bit.

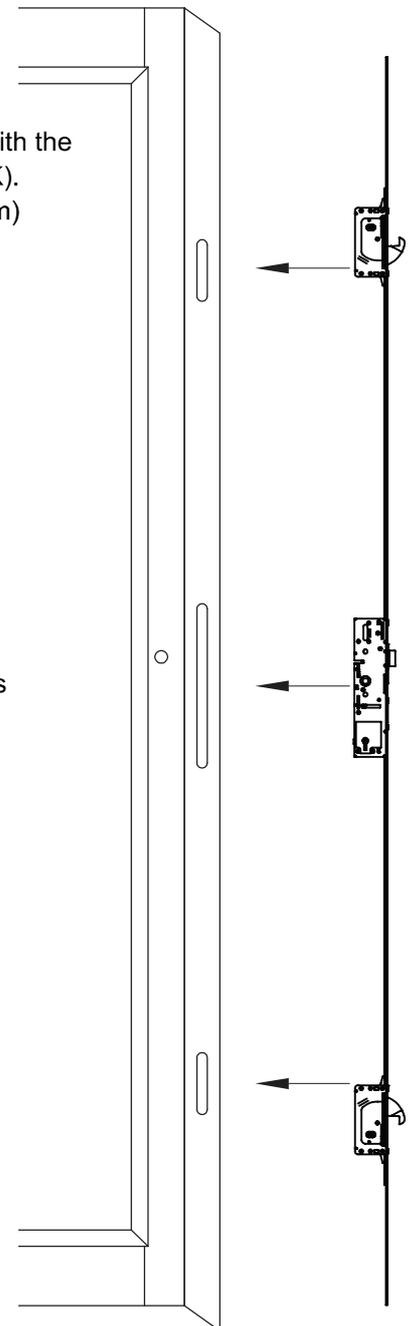
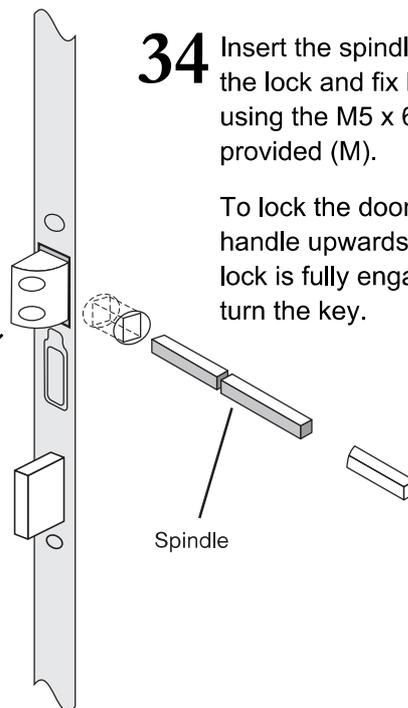
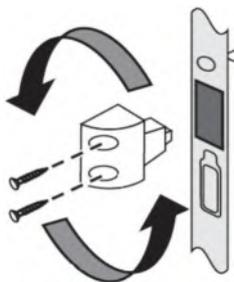
IMPORTANT: Ensure you enter into the door from both faces. Do not drill all the way through the door from one side and do not exit through the face of the door.

33b Fit the lock into door 3 and secure with the M4 x 40mm Pozi screws provided (K). (The key hole is always at the bottom)

34 Insert the spindle through the lock and fix both handles using the M5 x 65mm screws provided (M).

To lock the door, lift the handle upwards until the lock is fully engaged, then turn the key.

The latch should be set for right opening. For left opening remove the 2 latch screws and reverse.



When closing the door set, first close doors 1 and 2, securing them with the dropbolts. Then close and lock door 3.

