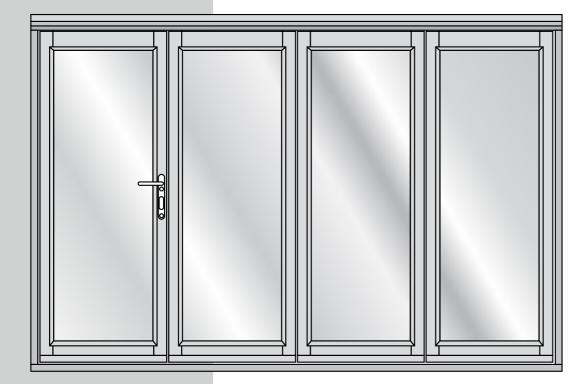


WT 54S

Slimline Sliding Folding Patio 4 Door Set

T10 Set - (Approx. 10ft)

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 import 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.
- 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 or hardware 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 of 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 asWD40, 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 orWD40 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

3 monthly Marine environment -

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	54PFO10S-1/54PFW10S-1/54PFG10S-1/54SDPFO10S-1
Door 2 – Mid door – quantity 1	54PFO10S-2/54PFW10S-2/54PFG10S-2/54SDPFO10S-2
Door 3 – End door – quantity 1	54PFO10S-3/54PFW10S-3/54PFG10S-3/54SDPFO10S-3
Door 4 – Access door – quantity 1	54PFO10S-4/54PFW10S-4/54PFG10S-4/54SDPFO10S-4

Door size = 1987 x 725 x 54mm

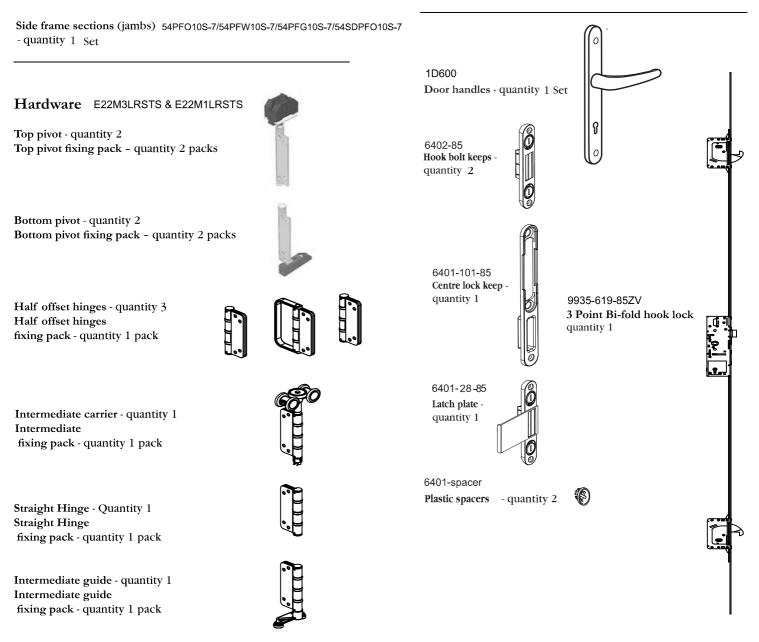
Top frame Head includes aluminium top track 54PFO10S-5/54PFW10S-5/54PFG10S-5/54SDPFO10S-5 - quantity 1

Sill bottom section includes aluminium bottom track 54PFO10S-6/54PFW10S-6/54PFG10S-6/54SDPFO10S-6 - quantity 1 Drop bolt keyed - quantity 2 Keyed drop bolt fixing pack - quantity 2 packs Includes drop bolt cup

Drop bolt non keyed - quantity 2 Non-keyed drop bolt fixing pack - quantity 2 packs Includes drop bolt striker plate







Contents (2)

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

K71570911(38)			
Installation Bag Conte	ents		
Direct Frame Fixings - quanti	ty 22		
Hardened Steel Wood Screws M5 x 100mm - quant M5 x 70mm - quant M5 x 60mm - quant	tity 4		
Torx T30 Insert Bit - quantity	1		
Pozi No.2 Insert Bit - quantity 1			
HSS Long Series Drill Bit - qu 6.5mm x 148mm	antity 1		
SDS Drill Bit - quantity 1 6.5mm x 210mm			
Steel cross recess mushroom he	ead bots zinc	M6 x 80 - quantity 14	
Steel M6 nuts zinc M6 x 80 - 9	luantity 14		
a2 machine screws philips raised countersunk $M5x55$ - $\rm quantity2$			
a2 machine screws philips raised countersunk $M5x65$ - $quantity$ 2			
a2 machine screws philips raise	ed countersunk	M5 x 70 - quantity 2	
Hardened steel wood screws po	ozi flat counters	unk M4 x 40 - quantity 37	
IB54NN10S Installation Instructions	quantity 1		
DDAK001 8mm Allen Key - Quantity 1	$\overline{}$		
Seals T10			
Draft seal AQ21	3.5 metres x2.3 metres x		
Draft seal Brush seal	2.3 metres x	2 brushseal2.317	
Draft seal AQ63	2.0 metres x	4 AQ63BLK2	
Draft seal AQ109	2.0 metres x	2 AQ109BLK2	
Adhesive Seals			
QL3116BLK	100mm x 4	i -	
AQ122BLK	100mm x 6	5	

Pre-finishing the wooden parts - FOR UNFINISHED SETS ONLY

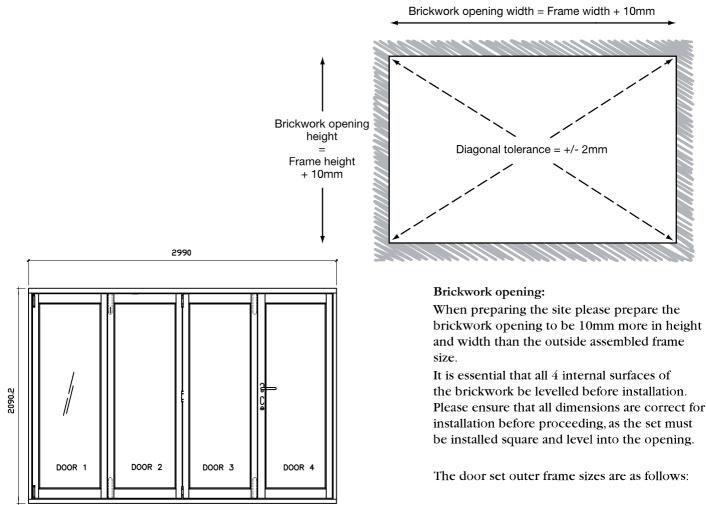
After you have checked the parts list to ensure you have all the parts ready and all components are in good condition (replacement parts are available) please carry out the pre-finishing procedure specified.

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.

Preparing the site

- 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.
- We do not recommend wax or oil finishing systems such as linseed oil or teak oil.

Very Important: Do not use steel wool or allow steel or iron fragments to come into contact with the untreated oak timber as this will cause oxidisation resulting in black stains.



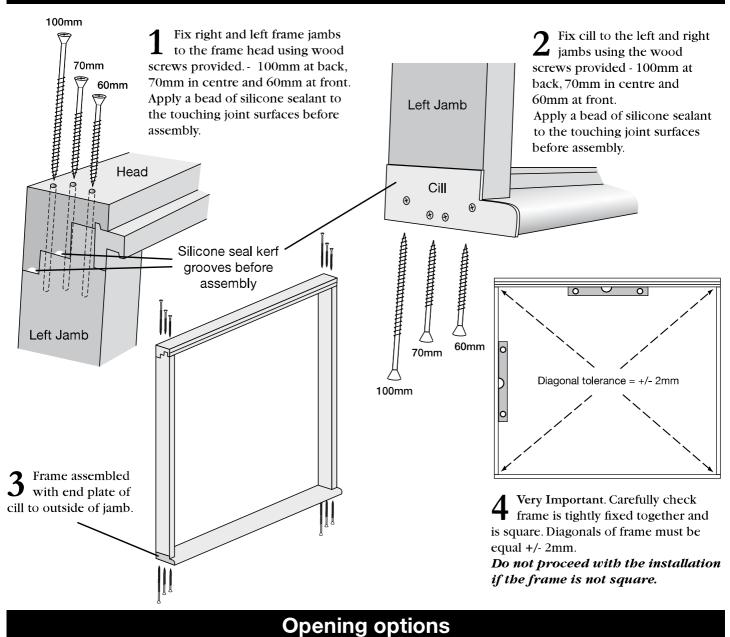
T10 - 10' approx. Sliding folding door set = 2990mm Wide x 2090.2mm High

For sets with factory pre-finishing

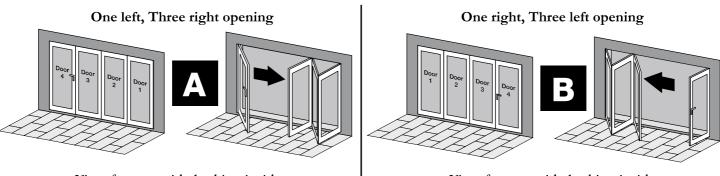
Please see the seperate booklet (Home owners manual) with detailed information and maintenance guidelines.

5

Assembling the frame



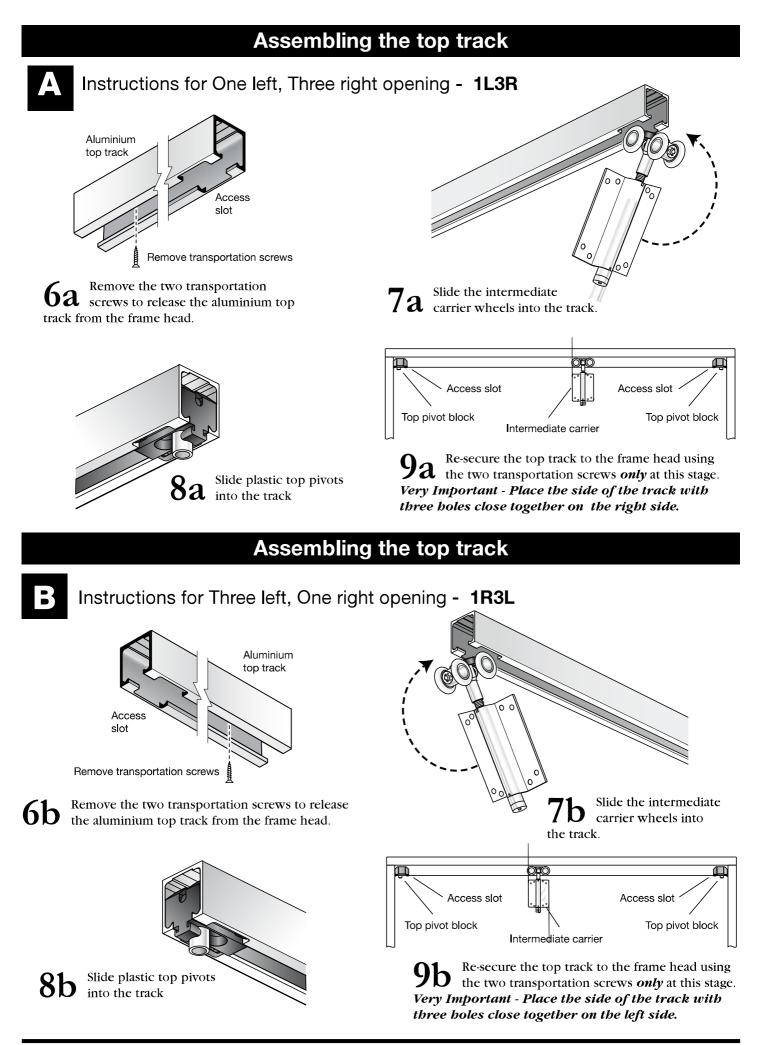
5 Choose the opening direction before installing the frame. The door set is reversible, with One left, Three right (1L3R) or Three left, One right (1R3L) opening options. Before assembling the frame or fitting the doors, choose the direction you wish the doors to open. This will determine which instructions, A or B, to follow and which door to fit first. (The doors always open outwards.)



View from outside looking inside

View from outside looking inside

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



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 overbang 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.

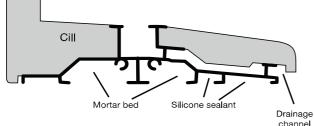
Use the *direct frame fixings* as follows:

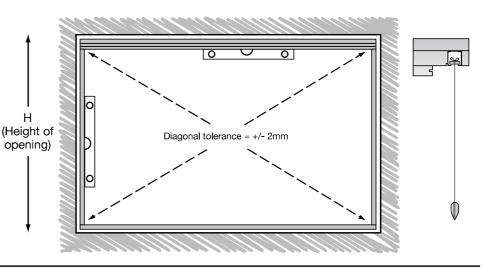
1) Use the 6.5mm HSS drill (supplied) to drill holes in frame jambs, aluminium track and steel.

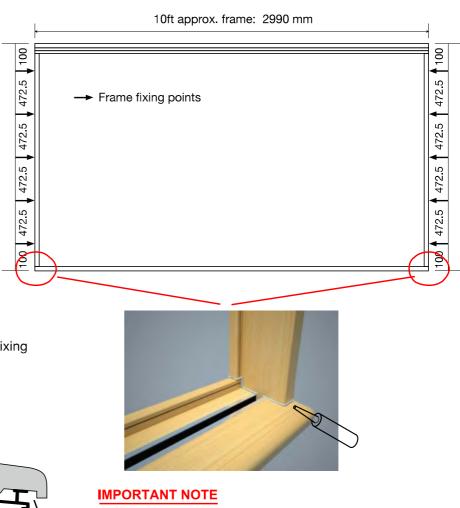
2) Use the 6.5mm SDS masonry drill (supplied) to drill into brickwork.
3) Use the Torx T30 bit (supplied) to screw in the *direct frame fixings*.

Direct Frame Fixing

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







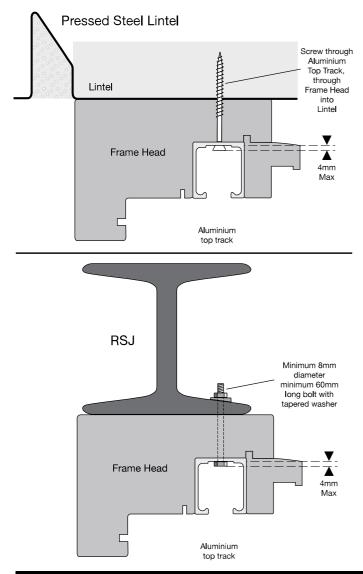
After the frame is installed, Silicone Seal around the base of the frame jamb/Cill joint as shown in the drawing

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.

2------

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:

 Locate the 11 pre-drilled holes in the aluminium top track.
 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*.

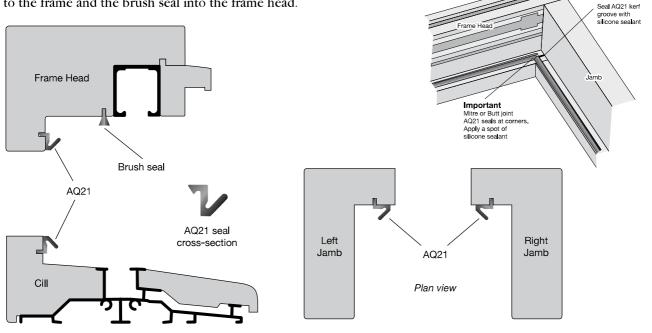
IMPORTANT: Fixings must fix through aluminium track, frame head and lintel. (The fold and slide system is "top hung" so all the weight is supported from the aluminium top channel and the head of the timber frame, hence the importance of a secure fixing into the lintel, to enable the system to work correctly.)

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*.

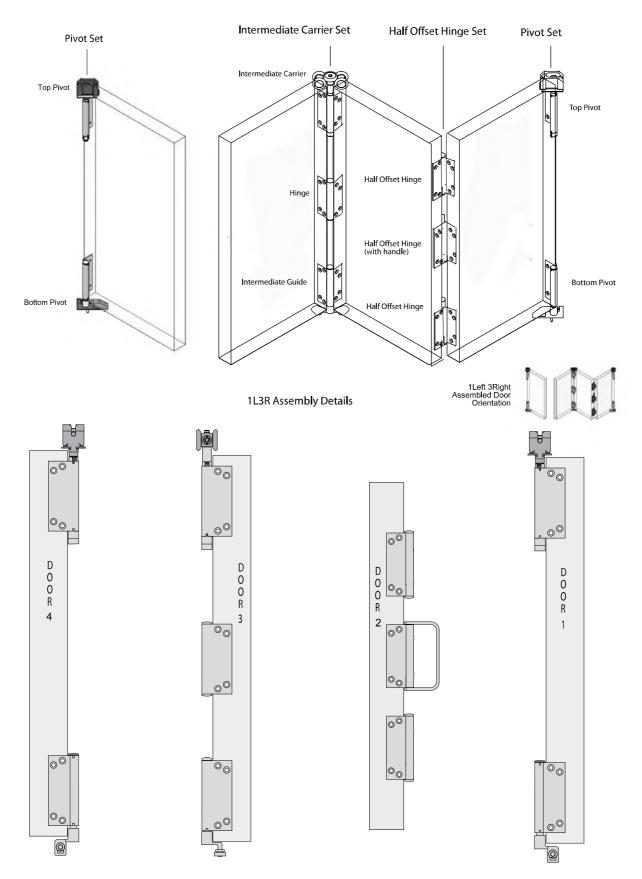
Fitting the seals to the frame

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

Choice A for One left, Three right opening - 1L3R



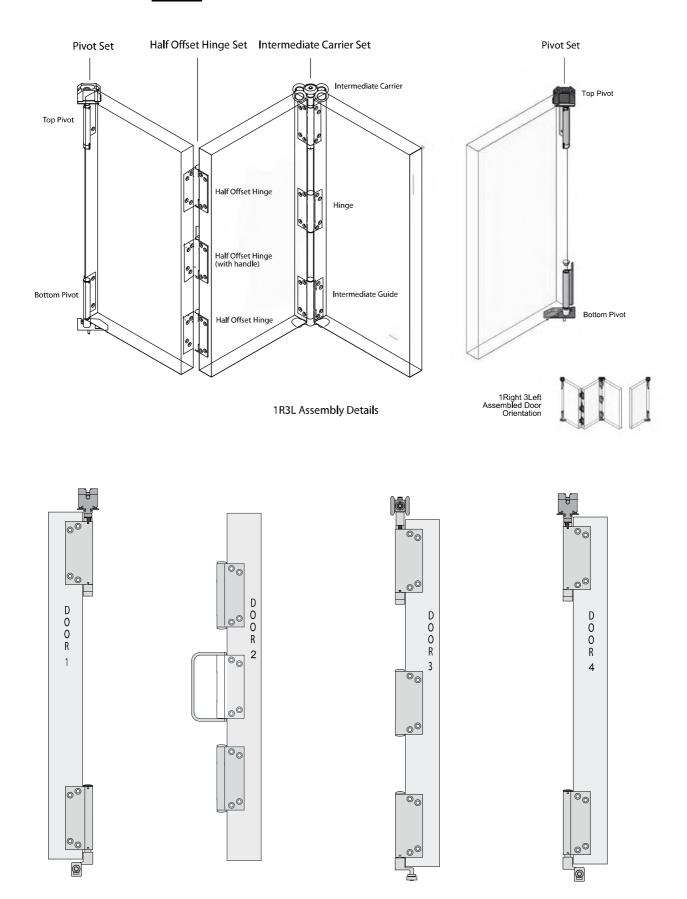
Note: Pivots are reversible. For this option 'A' it is necessary to take the top and bottom pivots apart to reverse them - see 16

13a

Overview of door and hardware arrangement

13b

Choice **B** for Three left, One right opening - **1R3L**

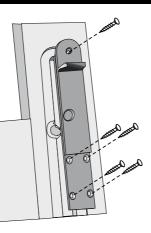


Note: Pivots are reversible. The pivots are delivered set up for this option 'B' - Use without change.

Fitting the dropbolts

14 Fit the keyed drop bolts to the bottom of door 2 and door 3 using the pre-cut positions.

Fit the non-keyed drop bolts to the top of door 2 and door 3 using the pre-cut positions.



15 Fit the keyed drop bolt cups to the cill in the pre-cut positions.

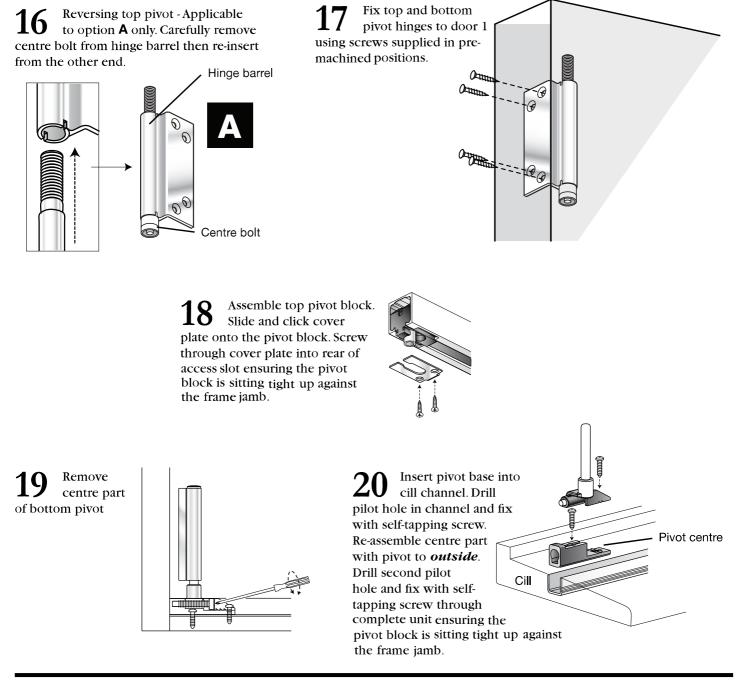


Fit the non-keyed drop bolt striker plates to the frame head in the pre-cut positions.



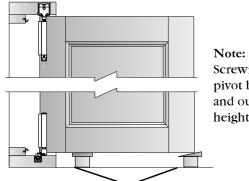
Fitting the pivot door (door 1)

Before fitting door 1 thoroughly clean the top and bottom tracks



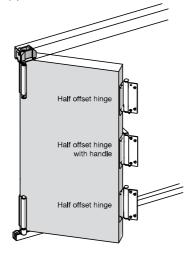
Fitting the pivot door (door 1) continued

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

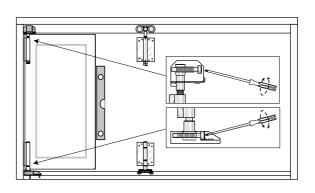


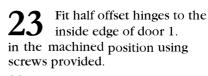
Note: Screwing top pivot bolt in and out adjusts height.

Temporary supports



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





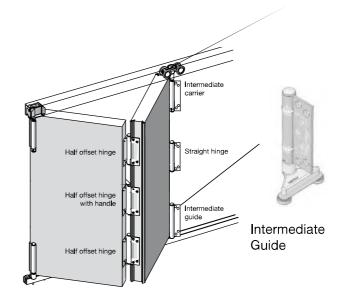
Note: Hinge barrels and centre hinge handle to *inside*.

Fitting the middle door (door 2)

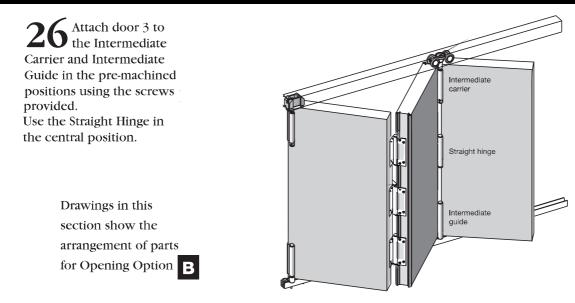
24 Fix the Intermediate Carrier Set to Door 2 only, using the machined hinge positions and screws provided.

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.

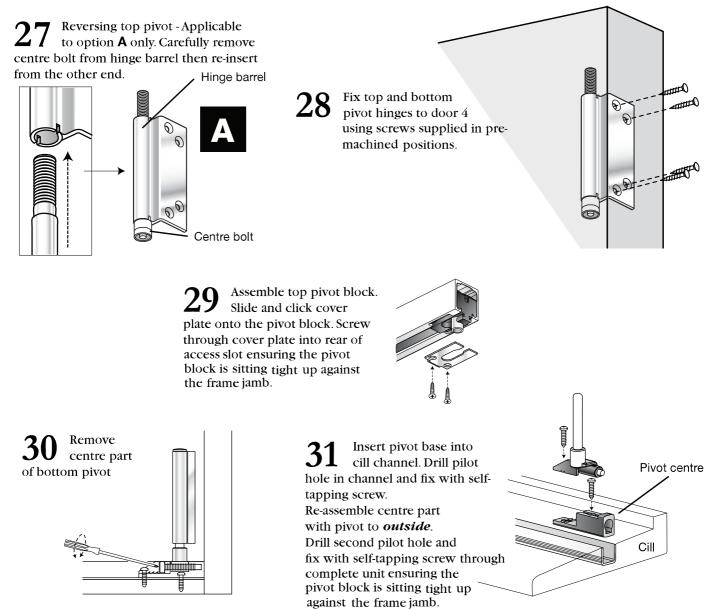


Fitting the end door (door 3)



Fitting the access door (door 4)

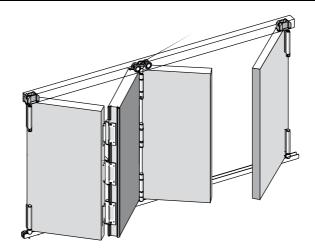
Before fitting door 1 thoroughly clean the top and bottom tracks



Fitting the access door (door 4)

32 Attach door 4 to pivot base and top pivot block

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

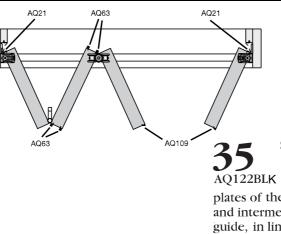


Fitting the weather seals to the doors

33 Fit weather seals to doors as follows:

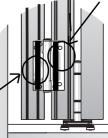
1 strip type AQ21 to door 1 4 strips type AQ63 to door 2 1 strip type AQ109 to door 3 1 strip type AQ109 to door 4 1 strip type AQ21 to door 4



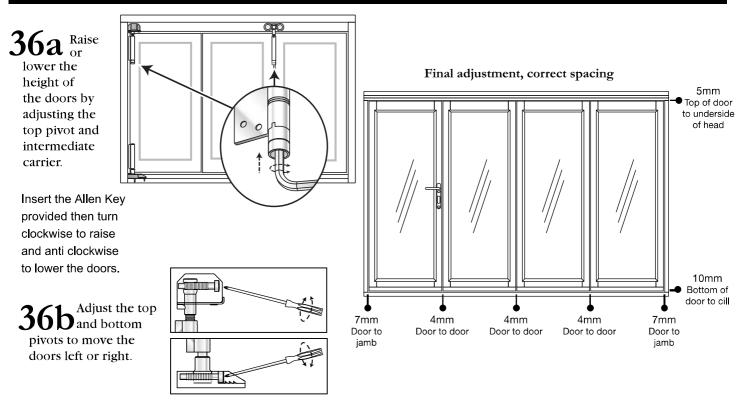


34 Stick the 2pc self adhesive seals QL3116BLK onto the top and bottom pivot hinge plate on Door 1 pivot door and Door 4 Access Door (4pc seals). Ensure the self adhesive seals are applied in line with the AQ21 in the door.

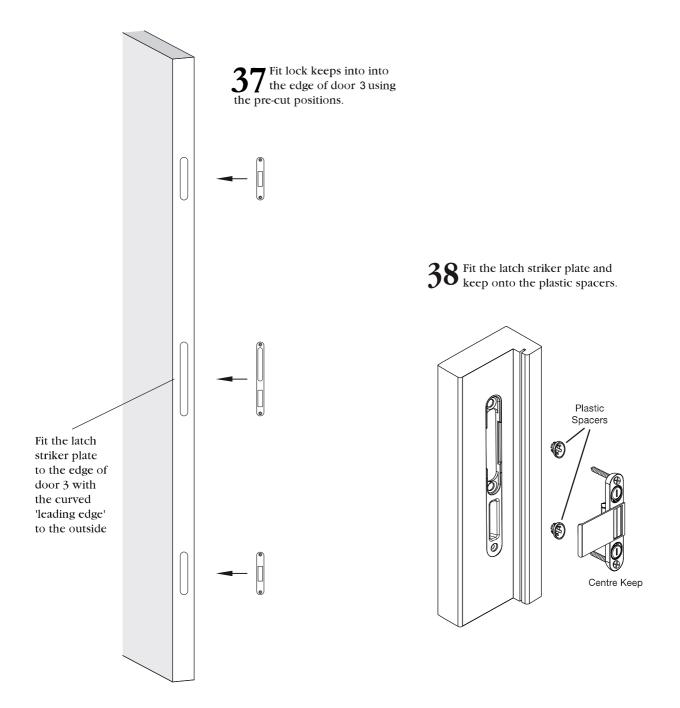
35 Stick the 6pc self adhesive seals AQ122BLK ■ onto the hinge plates of the Half offset hinges and intermediate carrier and guide, in line with the AQ63 Seal.



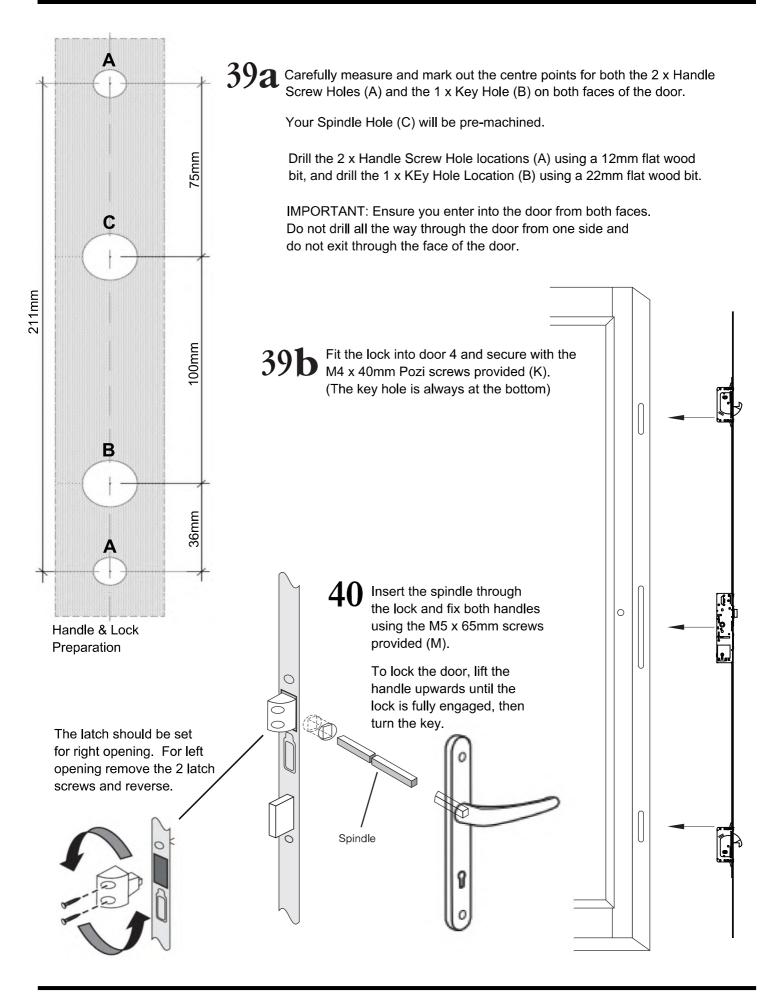
Adjusting the operation of the doors



Fitting the lock and handle



Fitting the lock and handle continued



41

When closing the door set, first close doors 1 and 2, securing them with the dropbolts. Then close and lock doors 3 and 4.

