Ultra Sliding Folding Patio 6 Door Set

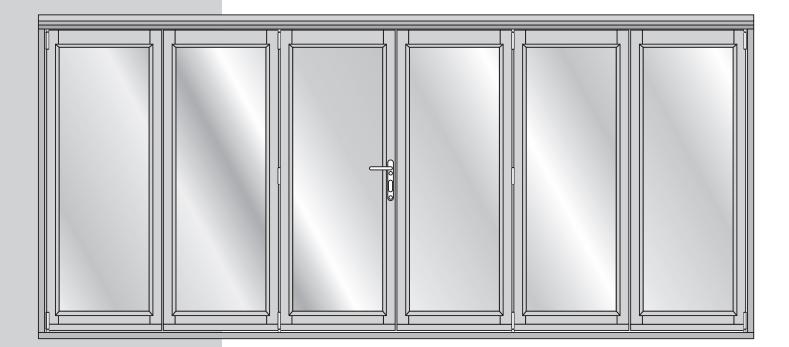
T14 Set - (Approx. 14ft) T16 Set - (Approx. 16ft)

Assembly Instructions

VERY IMPORTANT FOR INSTALLERS

The Vufold Ultra set is Wood with an Aluminium Cladding on the outside.

The installation is very similar to the Vufold wood sets and any competent builder, joiner or installer can install the product by following these installation instructions. NO SPECIALIST ALUMINIUM DOOR INSTALLATION EXPERIENCE IS REQUIRED. *However some parts of the installation require particular care to avoid damaging the aluminium and are highlighted in red throughout the booklet.*



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 RSJ over the opening. The RSJ *must* be capable of carrying the load of the doors 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 aluminium clad 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.

VERY IMPORTANT

- It is vitally important to handle the doors and frames *very carefully* at all times to avoid damaging the powder-coated finish on the aluminium.
- All frames and doors should be handled by *two people* at all times as they are very heavy.

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 the corrosion 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

The outside powder-coated finish on the aluminium should be regularly washed with warm soapy water, rinsed with clean water and dried off.

The oak timber inside finish is a resilient polyurethane clear varnish which should last for several years. To maintain, just wipe down with a damp cloth. When the oak requires re-coating, use a proprietary brand of clear PU varnish.

Please check the contents of the packages to ensure that all parts are present before beginning assembly. Aluminium clad timber parts Drop bolt keyed - quantity 3 Keyed drop bolt Door 1 - Right pivot hinge door - quantity 1 fixing pack - quantity 3 packs Door 2 – Right mid door - quantity 1 Includes drop bolt cup Door 3 - Right fixed access door - quantity 1 **Door 6** – Left opening access door - quantity 1 Door 5 – Left mid door - quantity 1 Door 4 - Left pivot hinge door - quantity 1 Drop bolt non keyed - quantity 3 Door size - 14' set = 1972 x 678 x 72mm Door size - 16' set = 1972 x 778 x 72mm Non-keyed drop bolt fixing pack - quantity 3 packs Includes drop bolt striker plate Top frame section includes aluminium top track – quantity 1 Side frame sections (jambs) - quantity 2 Sill bottom section includes aluminium bottom track - quantity 1 Frame and track fixing pack - quantity 1 Driver pack - quantity 1 Timber Astragal - quantity 1 Door handles - quantity 2 Hardware **Top pivot** - quantity 2 Top pivot fixing pack - quantity 2 pack Hook bolt keeps quantity 4 Vectis 4 hook lock **Bottom pivot** - quantity 2 quantity 1 Bottom pivot fixing pack - quantity 2 pack Half offset hinges - quantity 6 Half offset hinges Centre lock keep fixing pack - quantity 2 pack quantity 1 Intermediate carrier - quantity 2 Intermediate fixing pack - quantity 2 packs Latch plate quantity 1 Straight Hinge - Quantity 2 Straight Hinge fixing pack - quantity 2 packs Keys - quantity 2 Lock fixing pack - quantity 1 pack (37 pieces) Intermediate guide - quantity 2 Intermediate guide fixing pack - quantity 2 packs

Contents (1)

Contents (2)

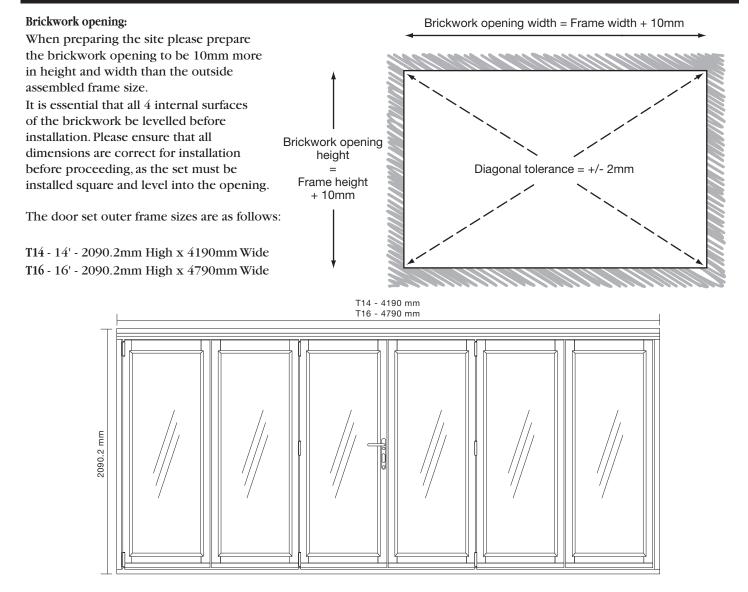
Please check the contents of the packages to ensure that all parts are present before beginning assembly.

Magnetic catches	\sim	and the second s	Installation Bag Contents
Plastic magnetic door holders - quantity 3 sets			Hardened steel frame fixings - quantity 22
Metal magnetic door hold - quantity 1 set			Hardened steel wood screws pozi flat countersunk yellow M5 x 100mm - quantity 4 M5 x 70mm - quantity 4 M5 x 60mm - quantity 4
			Hardened steel wood screws pozi flat countersunk zinc M4 x 40mm - quantity 37
		1	A2 machine screws Philips raised countersunk brushed chrome M5 x 90mm - quantity 37
Door adjustment protector attached to door 1	r Door insta attached to	llation protector 0 door 1	Steel cross recess mushroom head bolt zinc M6 x 80mm - quantity 14
Seal Quantities Per Set - Aluminium Clad - White T14 T16			Steel M6 nuts zinc M6 - quantity 14
Draft seal AQ21 White	2.3 metres x 6	2.3 metres x 6	1/4 hex T30 insert bit - quantity 1
			1/4 hex pozi No.2 insert bit - quantity 1
Draft seal AQ21 Black	2.3 metres x 2 4.8 metres x 2	2.3 metres x 2 4.8 metres x 2	1/4 hex insert bit Philips No.2 - quantity 1
Draft seal AQ63 Black	2 metres x 4	2 metres x 4	SDS drill bit - quantity 1 6.5mm x 210mm
Draft seal AQ109 White	2 metres x 1	2 metres x 1	HSS long drill bit - quantity 1 6.5mm x 148mm
Draft seal AQ89 Black	2 metres x 1	2 metres x 1	HSS drill bit - quantity 1 3mm
Brush seal Grey	4.8 metres x 1	4.8 metres x 1	HSS drill bit - quantity 1 5mm
Seal Quantities Per Set - Aluminium Clad - Grey			HSS reduced shank drill bit 140mm / 90mm - quantity 1 14mm
T14 T16		T16	HSS reduced shank drill bit 145mm / 95mm - quantity 1
Draft seal AQ21 Black	2.3 metres x 8 4.8 metres x 2	2.3 metres x 8 4.8 metres x 2	22mm
Draft seal AQ63 Black	2 metres x 4	2 metres x 4	Square head steel centre punch - quantity 1
Draft seal AQ109 Black	2 metres x 1	2 metres x 1	Installation Instructions - quantity 1
Draft seal AQ89 Black	2 metres x 1	2 metres x 1	
Brush seal Grey	4.8 metres x 1	4.8 metres x 1	

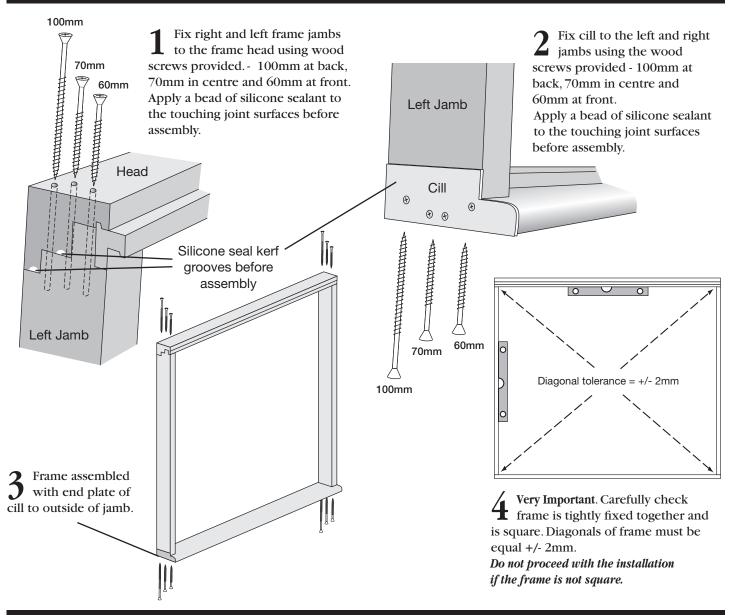
For sets factory pre-finished

Please see the separate booklet with detailed information and maintenance guidelines.

Preparing the site

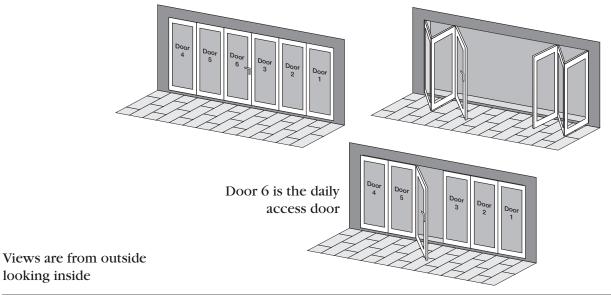


Assembling the frame

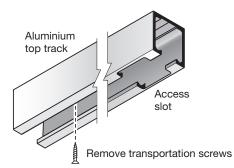


Opening arangement

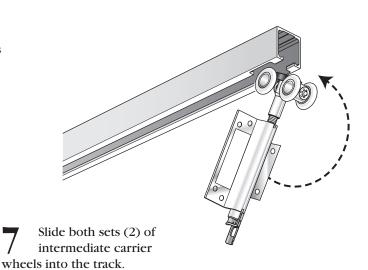
The T14 and T16 sets open with three doors to the left and three doors to the right. Doors 3 and 6 can be opened like a patio door pair. Door 6 is the daily access door. (The doors always open outwards.)



Assembling the top track



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



8 Slide both plastic top pivots (2) into the track. One at each end.



Re-secure the top track to the frame head using the two transportation screws *only* at this stage.

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

We recommend that the top centre of the frame is bowed upwards by 3mm. This can be achieved by fixing 3mm shims at the top of both jambs and then fixing the center of the top of the frame securely to the lintel. *Important: The head section of the frame must not sag.* Note the 3mm upwards bow in the centre of the top of the frame

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.

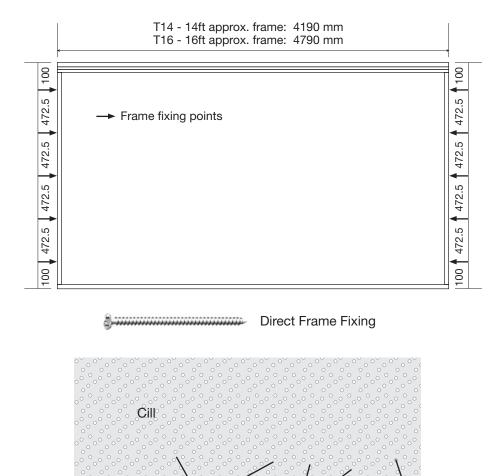
Fix the outer frame to the brickwork through both jambs with 5 fixings at spacing shown using the *direct frame fixings* provided (unless the construction of your building requires more appropriate fixings to suit the individual dwelling). Countersink holes in frame.

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 information about *direct frame fixings*

Mortar bed

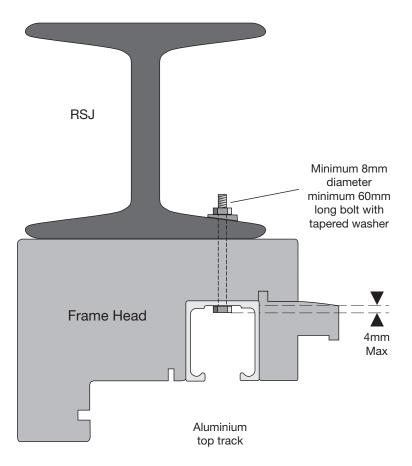
Silicone sealant

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.

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Drainage channel

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 RSJ.

The aluminium track must be securely fixed, through the head of the frame, into the RSJ using the *nuts, bolts and washers* provided.

Use the *nuts, bolts and washers* as follows: 1) Locate the pre-drilled holes in the aluminium top track.

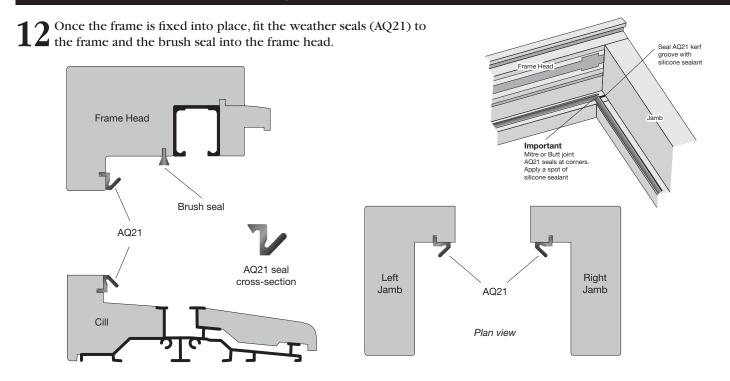
2) Use the 6.5mm HSS drill (supplied) to drill through pre-drilled holes, through timber frame head and through RSJ.

3) Use the nuts, bolts and washers provided to fix the track and framehead to the RSJ.

IMPORTANT:

Fixings must fix through aluminium track, frame head and RSJ. (The folding and sliding 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 RSJ, to enable the system to work correctly.)

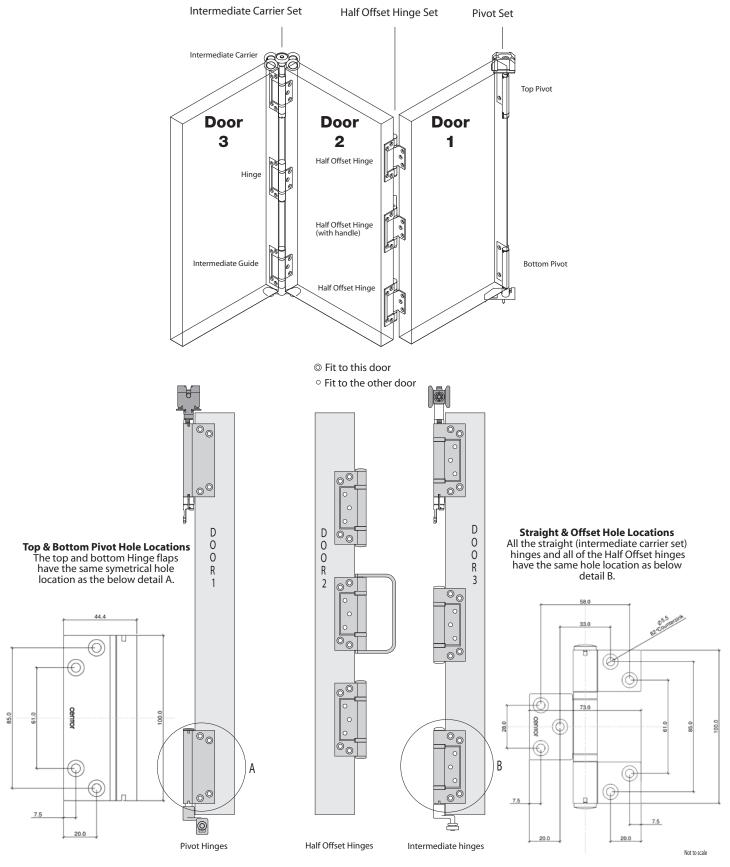
Fitting the seals to the frame



13a

Arrangement A

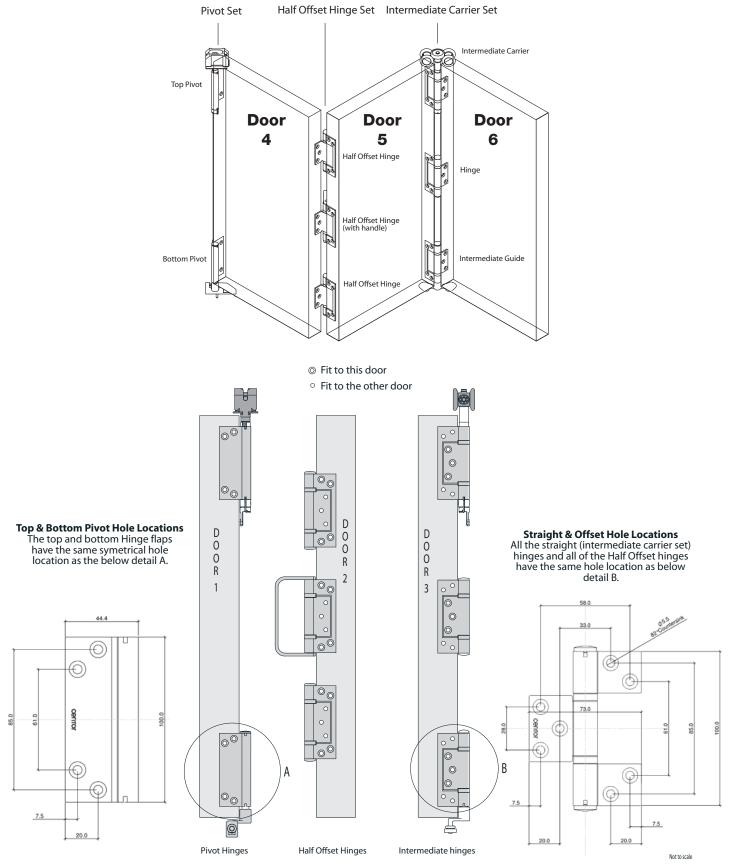
for 3 Right opening doors of set



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

13b

Arrangement **B** for 3 Left opening doors of set

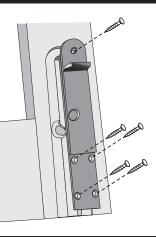


Note: Pivots are reversible. The pivots are delivered set up for this option 'B' - Use without change.

Fitting the dropbolts

14 Fit the keyed drop bolts to the bottom of door 1, door 3 and door 4 using the pre-cut positions.

Fit the non-keyed drop bolts to the top of door 1, door 3 and door 4 using the pre-cut positions.



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



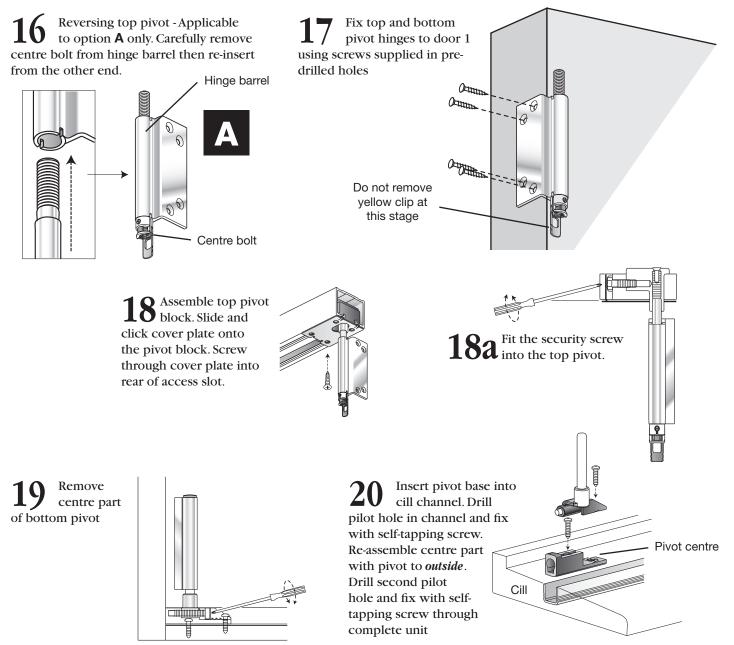
Fit the non-keyed drop bolt striker plates to the frame head in the pre-cut positions.



Fitting the right pivot door (door 1)

Before fitting door 1 thoroughly clean the top and bottom tracks.

Note well: When drilling holes in the door edge to fix the hinge plates, first use the centre punch to mark the hole location then drill with the 3mm HSS drill. This applies especially to the holes in the aluminium.



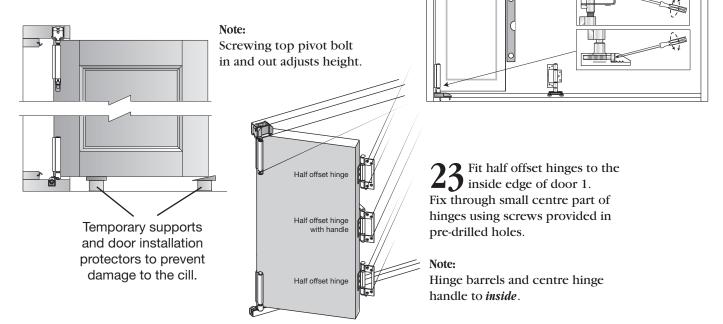
Fitting the right pivot door (door 1) continued

VERY IMPORTANT - When installing the doors, always use the door installation protector to rest the doors on and never place the doors directly on the cill.

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

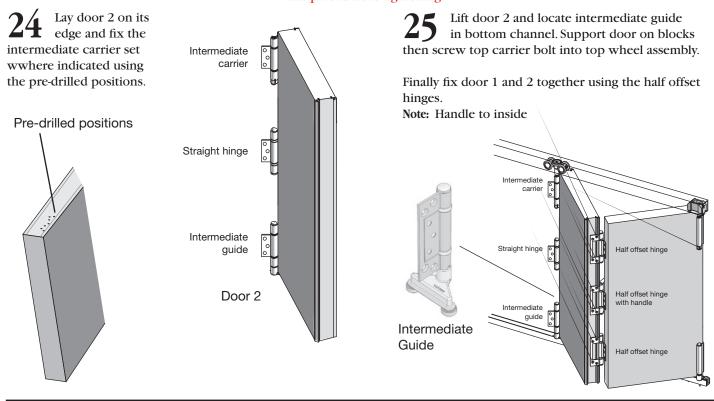
22 Adjust alignment of pivot door as shown. Leave a 7mm gap between the door edge and the frame jamb.

Note: To avoid damaging the door, always use the door adjustment protector on the surface of the door and under the pivot bolt before tightening.

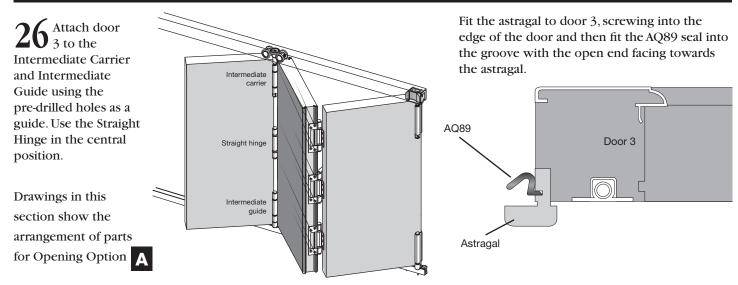


Fitting the right mid door (door 2)

VERY IMPORTANT - FOR SECTIONS 24 TO 26 INCLUSIVE - Always support the doors on the door installation protector to avoid damage to the aluminium powder coating and always use the door adjustment protector on the surface of the door and under the pivot before tightening.



Fitting right fixed access door (door 3)



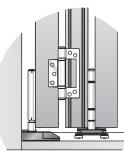
Fitting the left opening three doors of the set

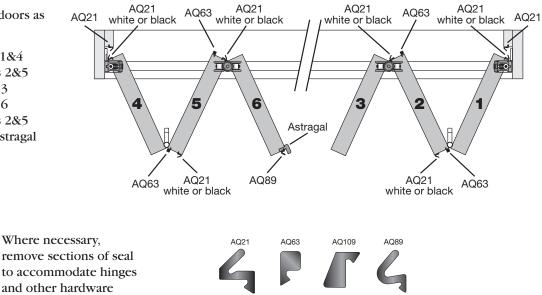
Repeat steps 17 to 26 to fit the left opening three doors of the set - Left pivot hinge door (Door 4), Left mid door (Door 5) and Left opening access door (Door 6)

Fitting the weather seals to the doors

 $28 \hbox{ Fit weather seals to doors as follows:}$

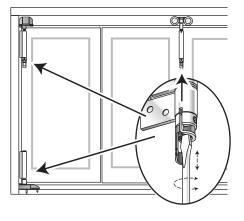
1 strip type AQ21 to doors 1&4 2 strips type AQ63 to doors 2&5 1 strip type AQ109 to door 3 1 strip type AQ109 to door 6 2 strips type AQ21 to doors 2&5 1 strip type AQ89 to door astragal



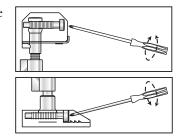


Adjusting the operation of the doors

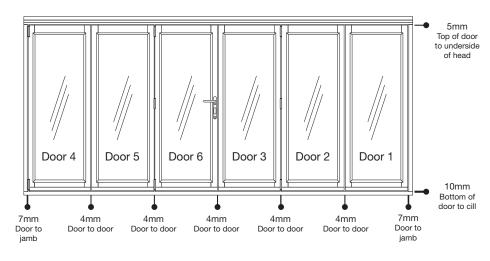
29 Raise or lower the height of the doors by adjusting the top pivot on doors 1 and 4, and the intermediate carrier between doors 2/3 and 5/6.



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



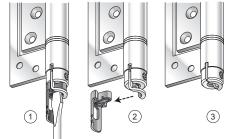
Correct spacing for final adjustment



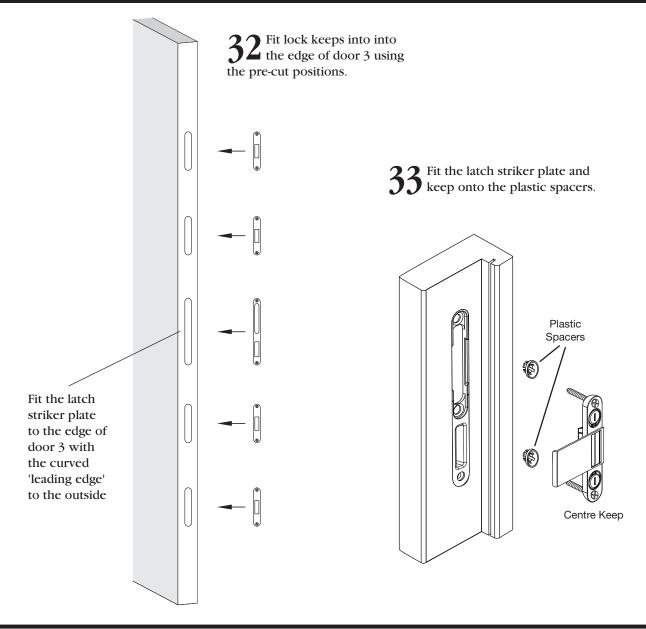
Shipping clips

31 Do not remove the shipping clips until you have made all the necessary adjustments as shown in sections 29 and 30.

Once you are satisfied with the adjustments you have made, remove the yellow Shipping Clip from the Top Pivot and Intermediate Carrier to lock the position.



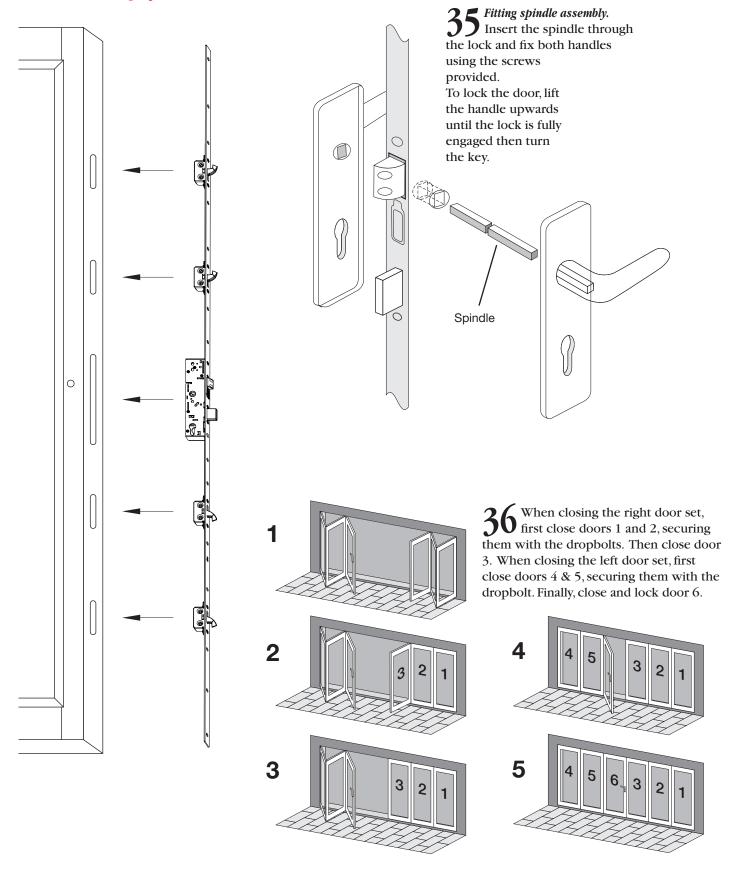
Fitting the lock and handle



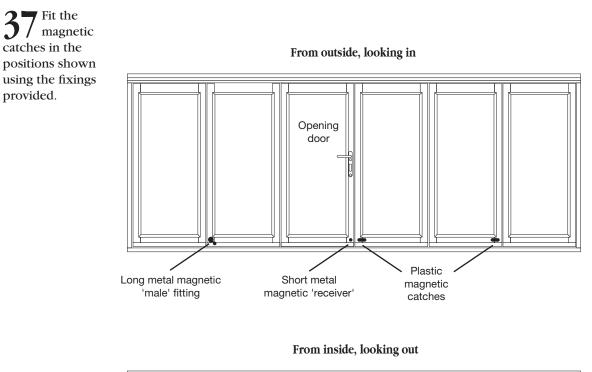
Fitting the lock and handle continued

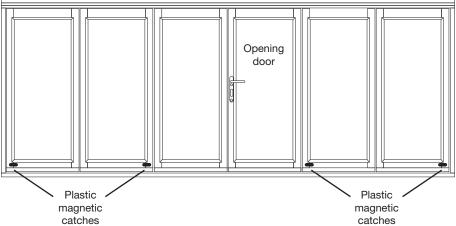
34 Fit lock into door 3. Apply the masking tape to the face of the door and mark the holes for the keyhole and the handle locating screws. The keyhole is always at the bottom.

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.



Fitting the magnetic catches to the doors





Important: Mark the catch fixing holes with the centre punch then drill a pilot hole with the 3mm HSS drill.