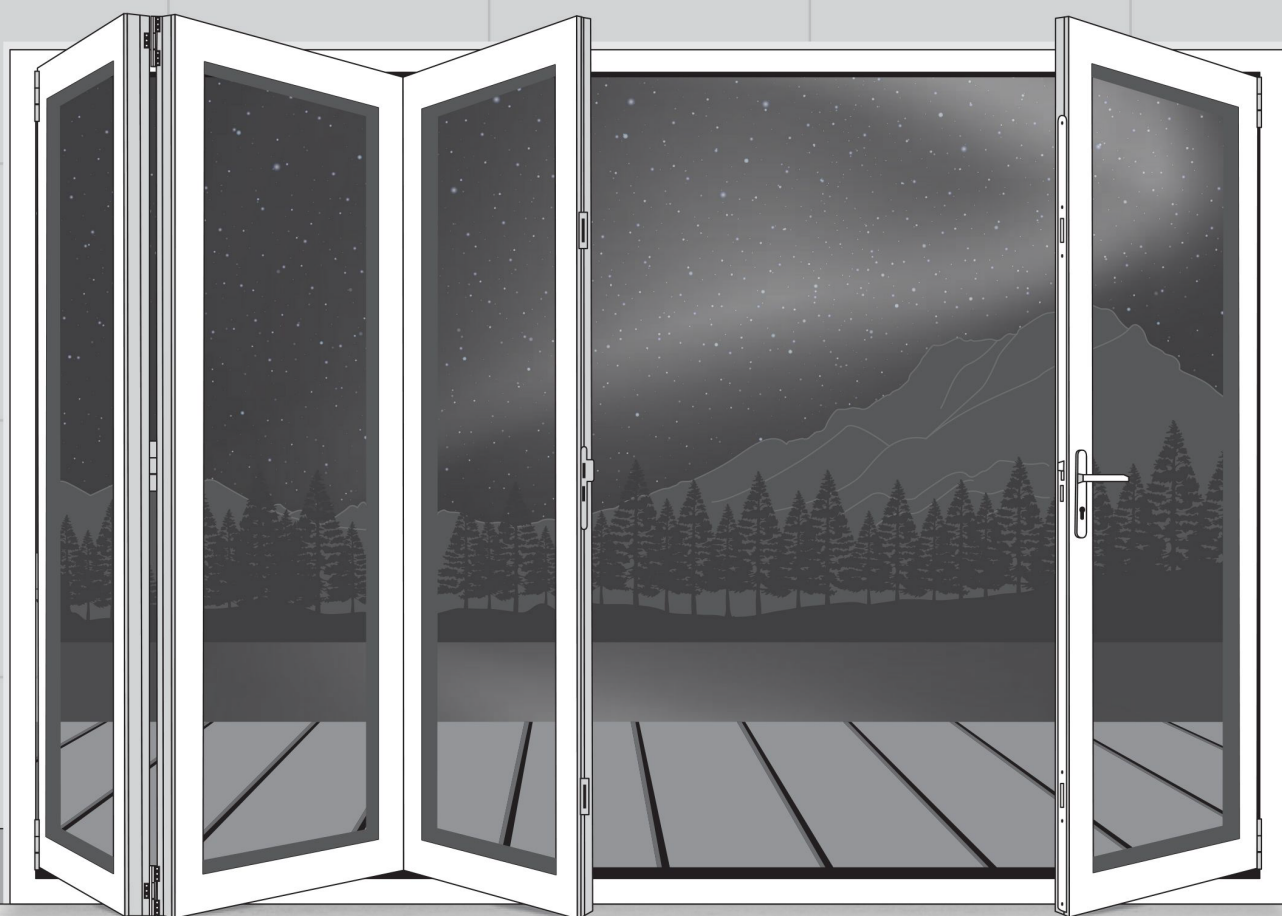


*Wynustellar*®

Wyning Back The Heart of Nature

*Bi-fold Doors*

# Installation Manual



**Embrace the panoramic view  
of contemporary style**



Exclusively at The Door Store of America, Inc



Hardware

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

Pivot Set / Wall Pivot



Intermediate Carrier Set



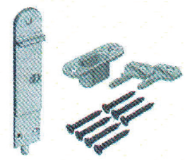
Half Offset Hinge Set



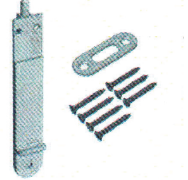
5pt Lock-6-UA400-40\_8 FT



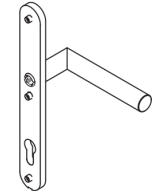
Drop bolt keyed - quantity 1  
non keyed drop bolt  
Fixing pack - quantity 1 pack  
Included drop bolt cup



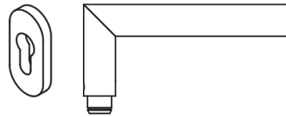
Drop bolt non keyed - quantity 1  
Non-keyed drop bolt  
Fixing pack - quantity 1 pack  
Included drop bolt striker plate



Half-set with long backplate and lever



Half-set with rosette



Accessories

Weather seal AQ21



Weather seal QEDB 650

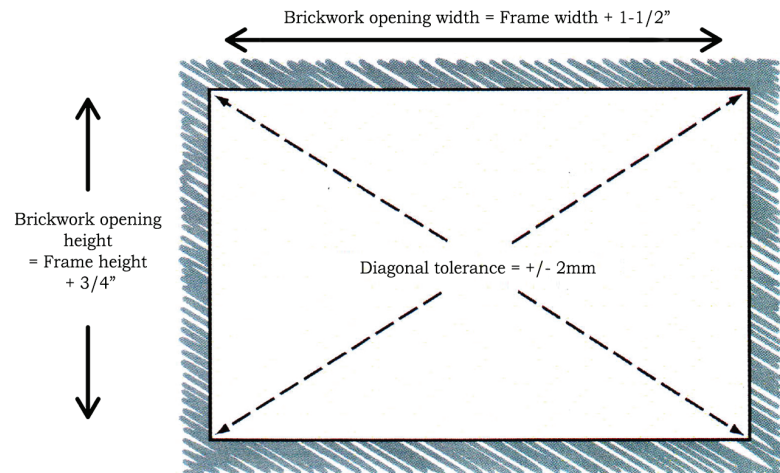


Weather seal AQ109

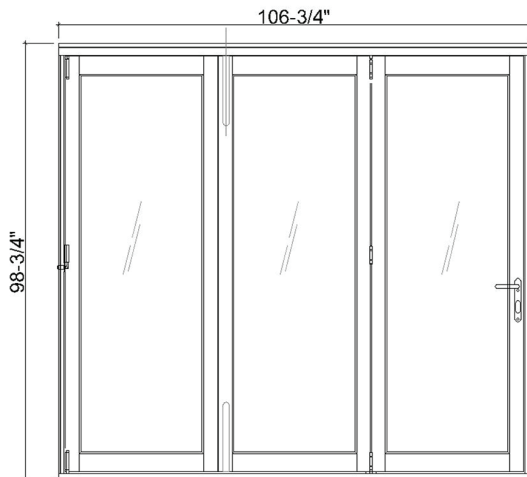




## Preparing the site



### Assembled Outer Frame



### Rough opening:

When preparing the site, please prepare the Rough Opening to be 3/4" more in height and 1-1/2" more in width than the assembled outside frame size. It is essential that all 4 internal surfaces of the brickwork be levelled before installation. **The set must be installed square and level into the opening.**

The Sliding Folding Door Set outer frame sizes are as follows:

- W9** Bi-Fold Door Set = 106-3/4" Wide x 98-3/4" High
- W12** Bi-Fold Door Set = 141-3/8" Wide x 98-3/4" High
- W16** Bi-Fold Door Set = 187-1/2" Wide x 98-3/4" High

Rough opening sizes are:

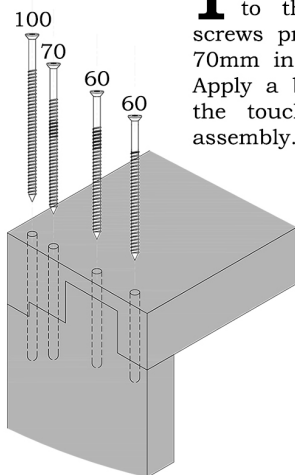
- W9** Bi-Fold Door Set = 108-1/4" Wide x 99-1/2" High
- W12** Bi-Fold Door Set = 142-7/8" Wide x 99-1/2" High
- W16** Bi-Fold Door Set = 189-1/2" Wide x 99-1/2" High

Each leaf weighs approximately 40 kilos

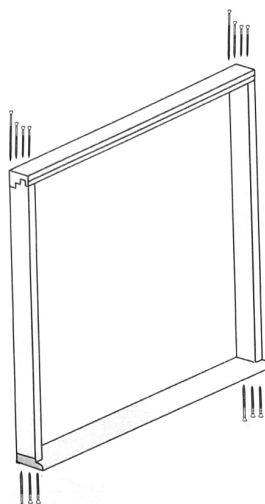


## Assembling the Frame

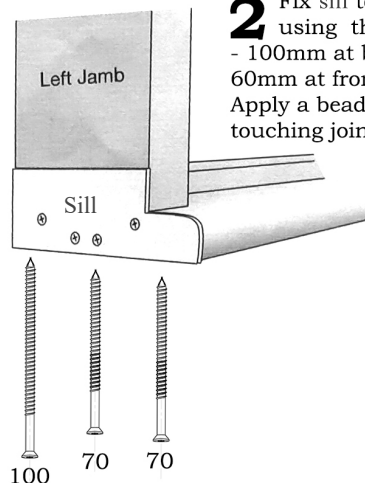
**1** Fix right and left frame jambs to the frame head using wood screws provided. - 100mm at back, 70mm in centre and 60mm at front. Apply a bead of silicone sealant to the touching joint surface before assembly.



**3** Frame assembled with end plate of sill to outside of jamb.



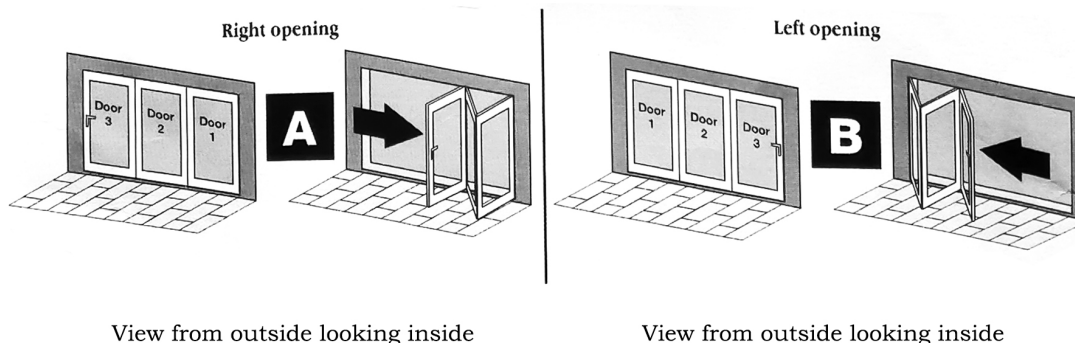
**2** Fix sill to the left and right jambs using the wood screws provided - 100mm at back, 70mm in centre and 60mm at front. Apply a bead of silicone sealant to the touching joint surface before assembly.



**4** Very important. Carefully check frame is tightly fixed together and is square. Diagonals of frame must be equal +/- 2mm. **Do Not proceed with the installation if the frame is not square.**

## Opening Options

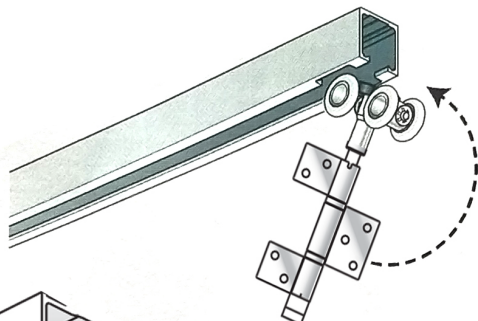
**5** Choose the opening direction before installing the frame. The Bi-fold Door set is reversible, with left or right opening options. Before assembling the frame or fitting the doors, choose the direction you wish the doors to open. This will determine which instructions, A or B, to follow and which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



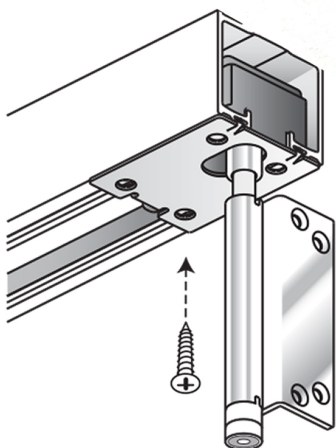
Follow the appropriate instructions for your choice of opening.  
Follow **A** for Right opening. Follow **B** for Left opening.



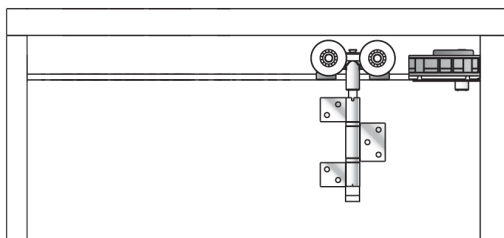
## Assembling the Top Track



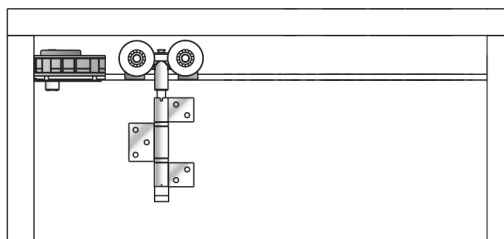
**6** Slide the intermediate carrier wheels into the track through the access slot



**7** Slide the top pivot into the track at the left or right side (see 8 and 9)  
DO NOT FULLY INSTALL THE TOP PIVOT AT THIS STAGE.



**8** Diagram of the right opening (viewed from the outside looking in)



**9** Diagram of the left opening (viewed from the outside looking in)

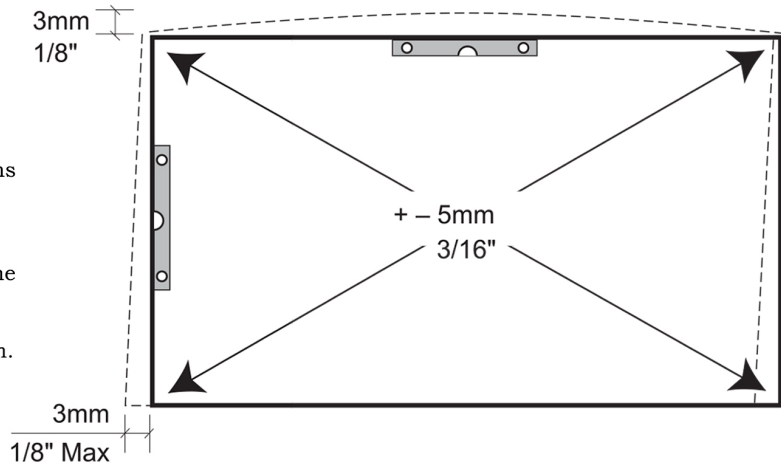


## Assembling the Top Track

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.



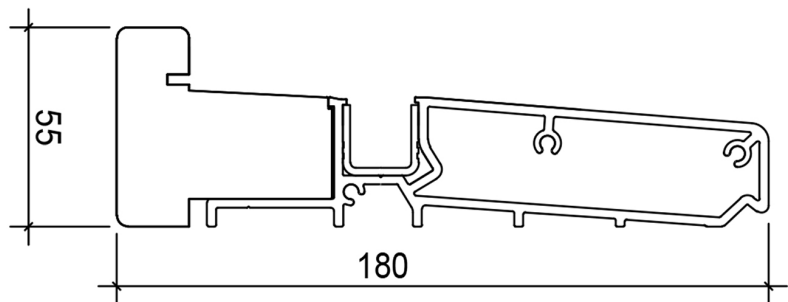
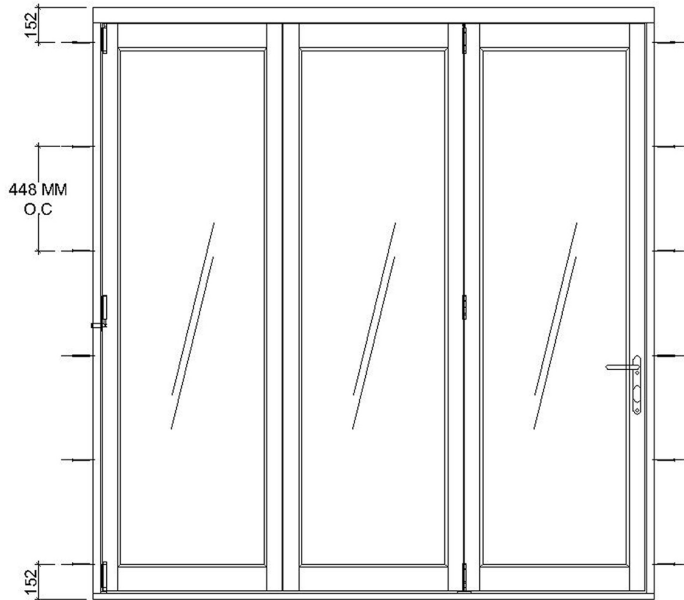
**10** Fix the outer frame into the Brickwork, **setting it to overhang the cavity**. Install sill onto a bed of silicone sealant and/or mortar.

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** fixing to suit the individual dwelling). Countersink holes in frame.

Use the **direct frame fixing** as follow :

- 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.**

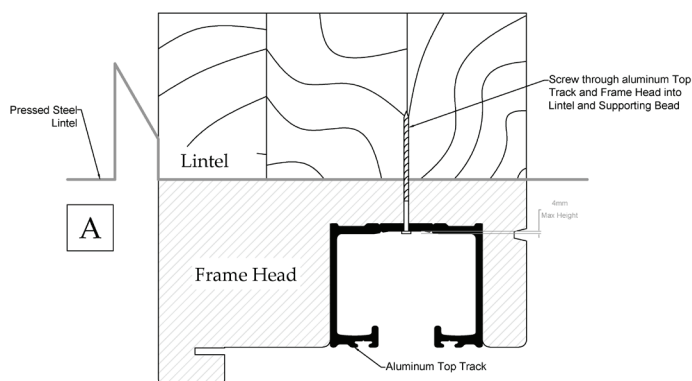


### Important Information about direct frame fixings.

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 Torx T30 bit provided to ensure a secure fixing



## Assembling the Top Track



**11** The aluminium top track, which is temporarily held in place with transit screws, has been pre-drilled for fixing point into the Lintel. The aluminium track must be accurately fixed, through the head of the frame, into the lintel using either the **direct frame fixings** or **nuts, bolts and washers** provided.

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

- 1) Locate the pre-drilled holes in the aluminium top track (6ft, 7ft, 8ft, 9ft only).
- 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**.

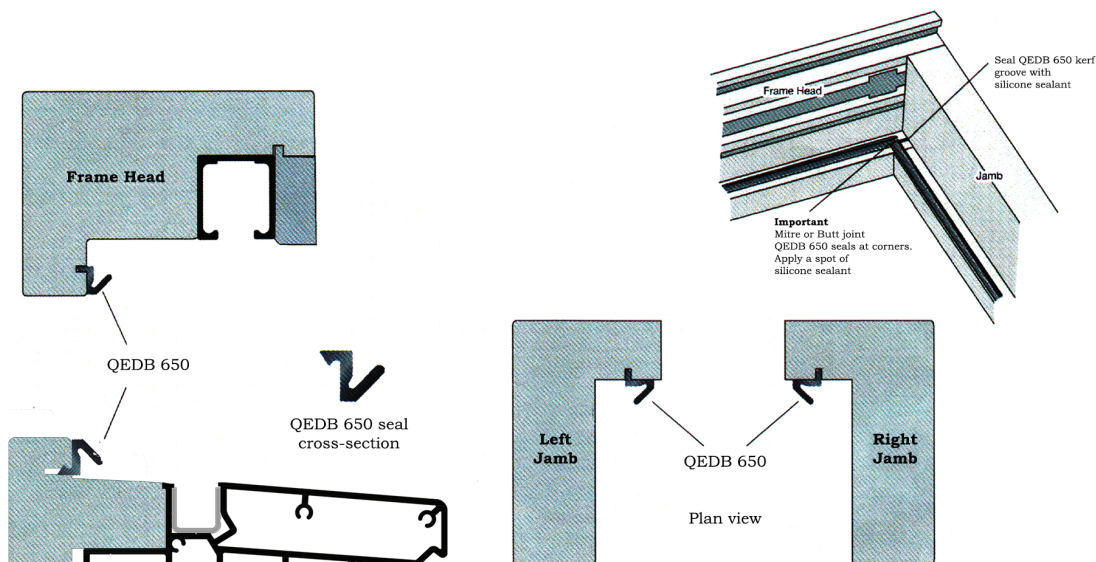
**B** Use the **nuts, bolts and washers** as follows:

- 1) Locate the pre-drilled holes in the aluminium top track (10ft, 12ft, 14ft, and 16ft only).
- 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 RSJ

**IMPORTANT:** We strongly recommend 'B' type fixing to RSJ. If using 'A' type fixing to pressed steel lintel, ensure the lintel can support the weight of the set (6ft, 7ft, 8ft, and 9ft only). Fixings must fix through aluminium track, frame head and lintel. (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 lintel. to enable the system to work correctly).

## Assembling the Top Track

**12** Once the frame is fixed into place, fit the weather seals (QEDB 650) to the frame and the brush seal into the frame head.

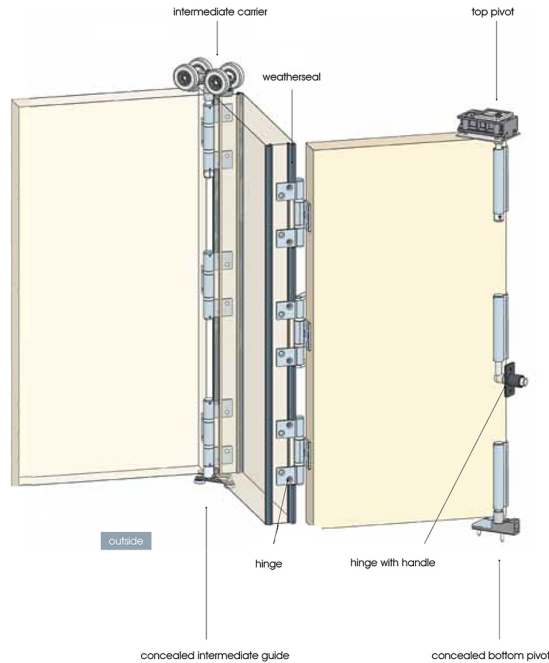




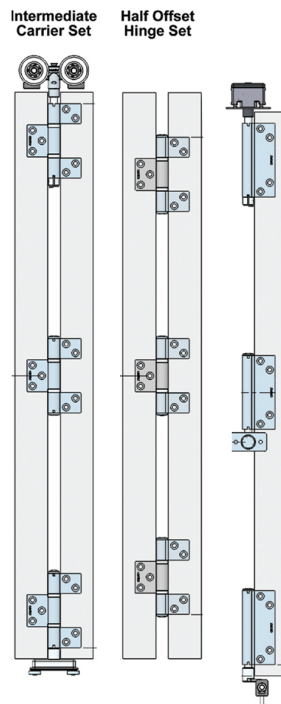
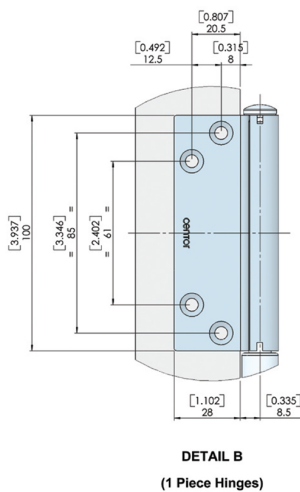
## Overview of door and hardware arrangement

13a

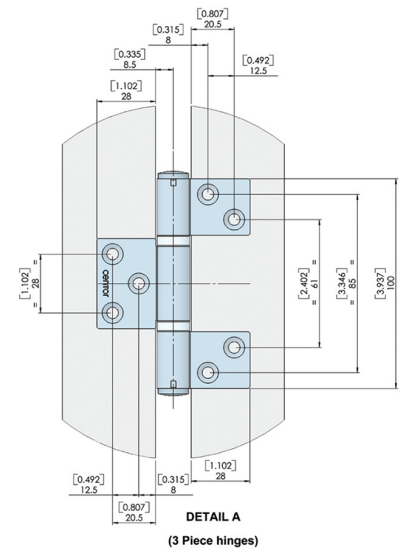
Choice **A** for Right opening



**Top & Bottom Pivot Hole Locations**  
The top and bottom Hinge flaps have the same symmetrical hole location as the below detail A.



**Straight & Offset Hole Locations**  
All the straight (intermediate carrier set) hinges and all of the Half Offset hinges have the same hole location as below detail B.



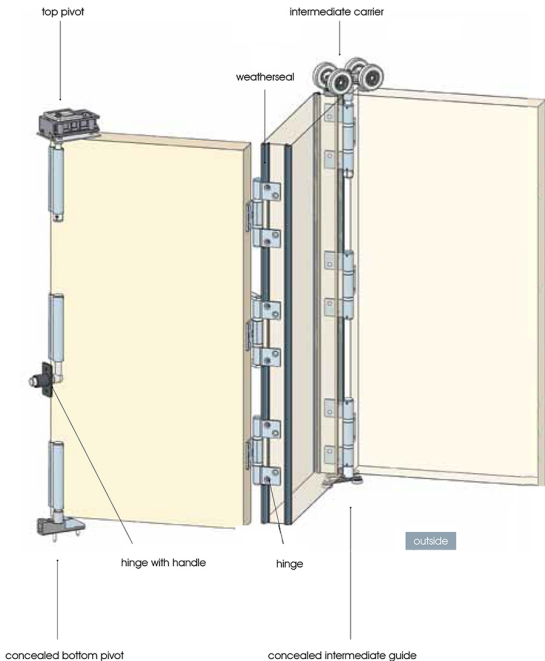
**Note:** Pivots are reversible. For this option 'A' it is necessary to take the top and bottom pivots apart to reverse them



## Overview of door and hardware arrangement

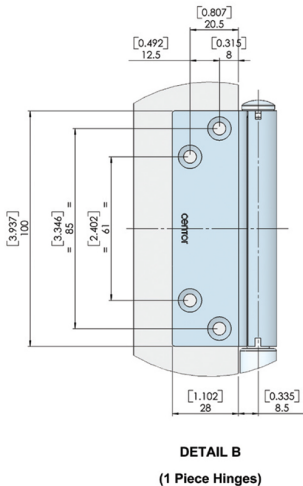
**13b**

Choice **B** for Left opening

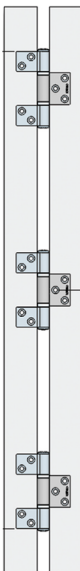


### Top & Bottom Pivot Hole Locations

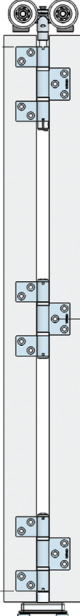
The top and bottom Hinge flaps have the same symetrical hole location as the below detail A.



### Half Offset Hinge Set

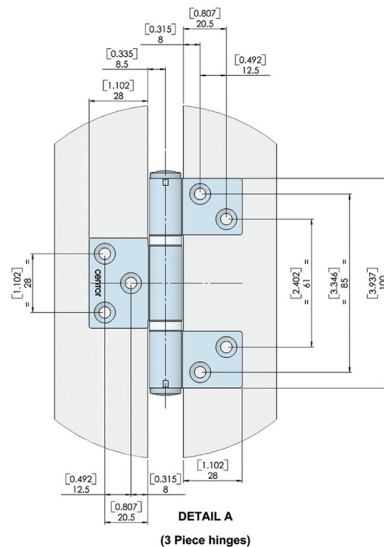


### Intermediate Carrier Set



### Straight & Offset Hole Locations

All the straight (intermediate carrier set) hinges and all of the Half Offset hinges have the same hole location as below detail B.



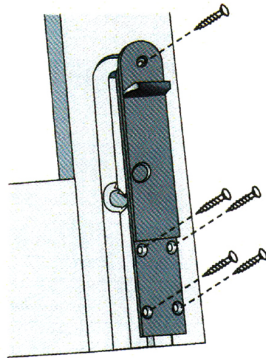
**Note:** Pivots are reversible. The pivots are delivered set up for this option 'B' - Use without change.



## Fitting Dropbolts

**14** Fit the non-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 non-keyed drop bolt cup to the sill in the pre-cut position.

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

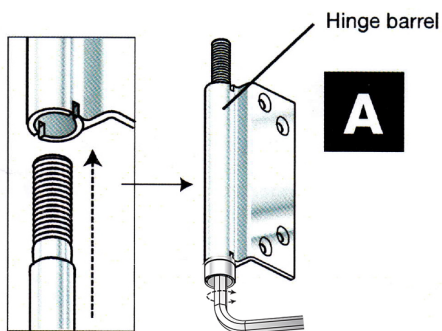


Before fitting door 1 thoroughly clean the top and bottom tracks

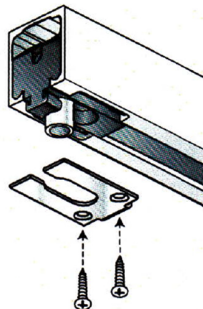
*Some of the pilot holes to fix the hardware are pre drilled and other marked with stickers using Blue or Red dots, for Left or Right opening .When you drill the pilot holes to fit the hardware use 3mm HSS drill bit.*

## Fitting the pivot door (door 1)

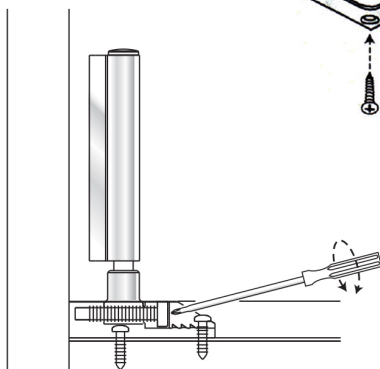
**16** Reversing top pivot - applicable to option **A** only. Carefully remove centre bolt from hinge barrel then re-insert from the other end.



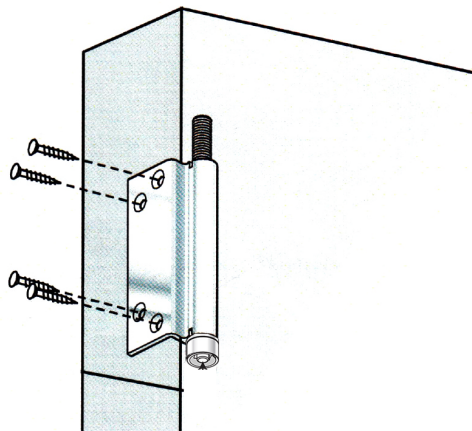
**18** Assemble top pivot block slide and click cover plate onto the pivot block. Screw through cover plate into rear of access slot



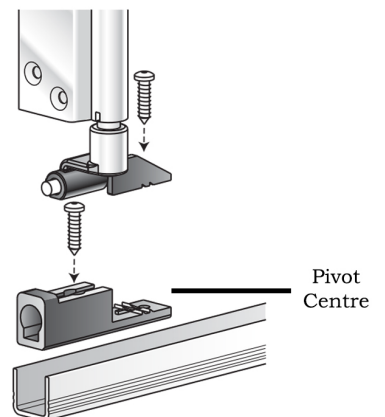
**19** Remove centre part of bottom pivot.



**17** Fix top and bottom pivot hinges to door 1 using screws supplied in pre-drilled holes.



**20** Insert pivot base into sill 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.

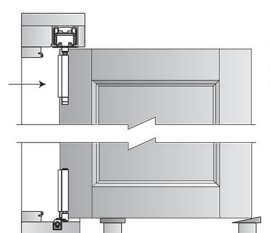




## Fitting the pivot door (door 1) continued

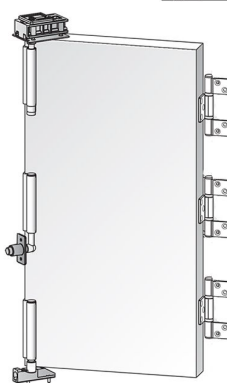
**21** Lift door onto bottom pivot. Support door then screw through the top pivot hinge into the pre-drilled holes in the door. Tighten pivot bolt until the door swings freely.

**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.

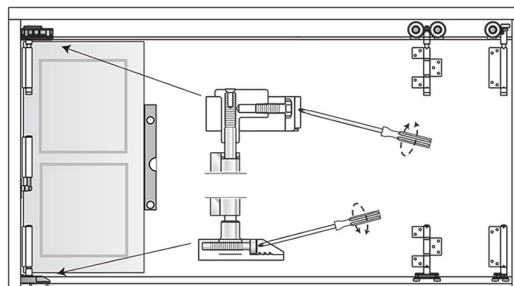


Temporary supports and door installation protectors to prevent damage to the sill.

**Note:** screwing top pivot bolt in and out adjust height.



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



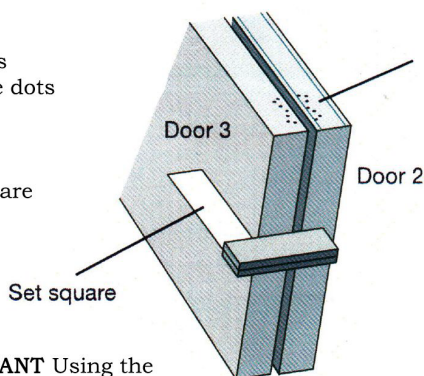
**22** Fit half offset hinges to the inside edge of door 1. Fix through small centre part of hinges using screws provided in pre-drilled holes

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

## Fitting the middle door (door 2)

**23** Lay door 2 and 3 on their edges with the red and blue dots uppermost

Make sure the doors are level.



The red and blue dots on the door edges indicate **approximate positions** **only** for drilling of pilot holes to fit the intermediate carrier set.

Use **red** dots for option **A** right opening.

Use **blue** dots for option **B** left opening.

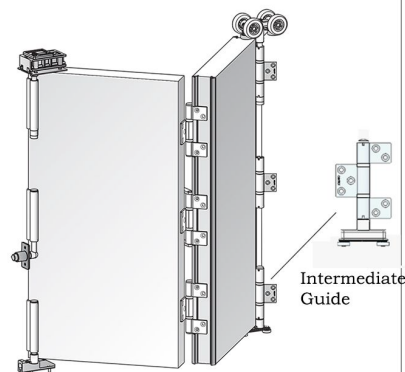
**24** **VERY IMPORTANT** Using the intermediate carrier set as templates on the door edge, refer to drawings 13a or 13b to measure and mark the precise location of the pilot holes to fit the intermediate carrier set.

Only when you are sure the exact hole position has been correctly marked, using the centre punch, drill pilot holes 3mm diameter and 20mm deep in door 2 and 3

finally, fix intermediate carrier set to **door 2 only**.

**25** Lift door 2 and locate the intermediate guide in bottom channel. Support door on the door installation protectors then screw top carrier bolt into top wheel assembly, using the door protectors under the pivot to avoid damaging the sill.

Finally fix door 1 and 2 together using the half offset hinges.  
**Note:** Handle to inside



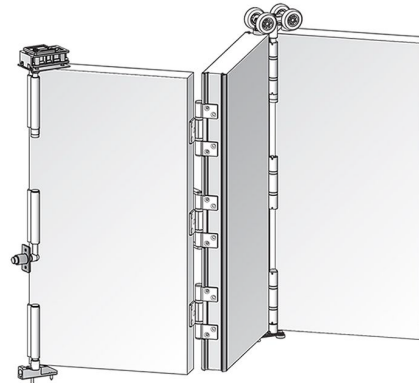


## Fitting the access door (door 3)

**26** Attach door 3 to the Intermediate Carrier and Intermediate Guide Using the pre-drilled holes as a guide. Use the straight hinge in the central position.

Again use the door installation protectors to support the doors and the adjustment protector under the pivot before tightening, to avoid damaging the door.

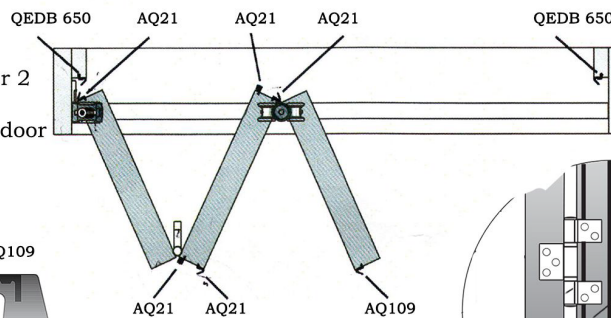
Drawing in this section show the arrangement of part **B** for opening option



## Fitting the weather seals to the doors

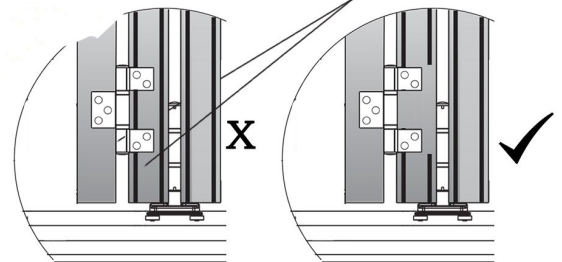
**27** Fit Weather seals to doors as follows:

- 1 strip type AQ21 to door 1
- 2 strip type QEDB 650 to door 2
- 2 strip type AQ21 to door 2
- 1 strip type AQ109 to Access door



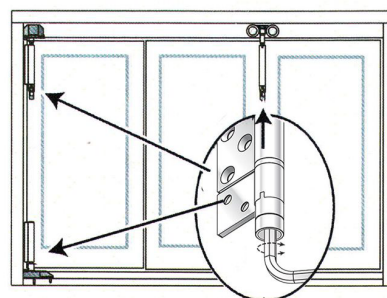
**VERY IMPORTANT**  
DO NOT FIT SEALS IN BETWEEN THE HINGES AS THIS WILL CAUSE PROBLEMS IN OPERATION AND WOULD LEAD TO WATER INGRESS

**Remove Seal**

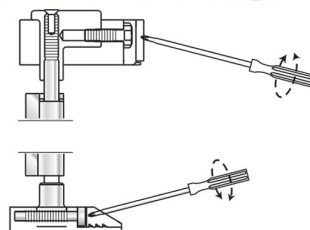


## Adjusting the operation of the doors

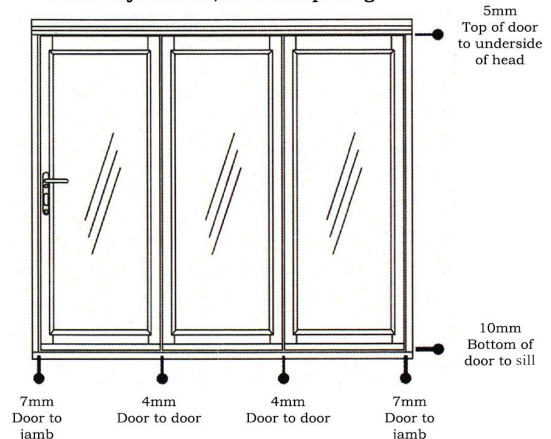
**28** Raise or lower the height of the doors by adjusting the pivot and intermediate carrier



**29** Adjust the top and bottom pivot to move the doors left or right

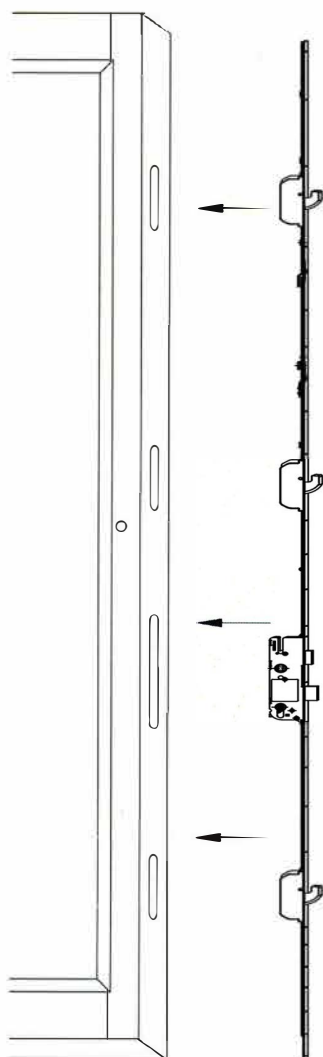


**Final Adjustment, Correct spacing**

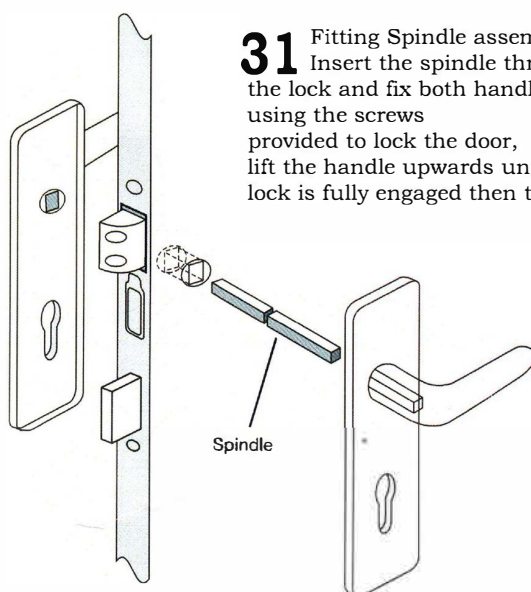




## Fitting the lock and the handle continued

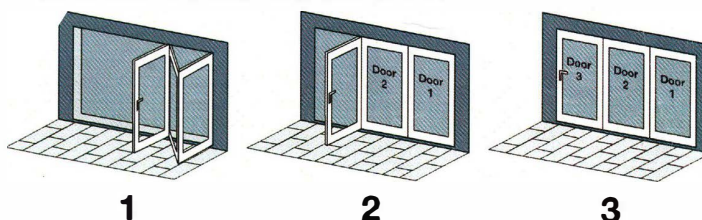


**30** Fit lock into door 3. Apply the masking tape to the face of the door and mark the holes for the keyhole and the handle locating screws. the keyhole is always at the bottom.



**31** 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.

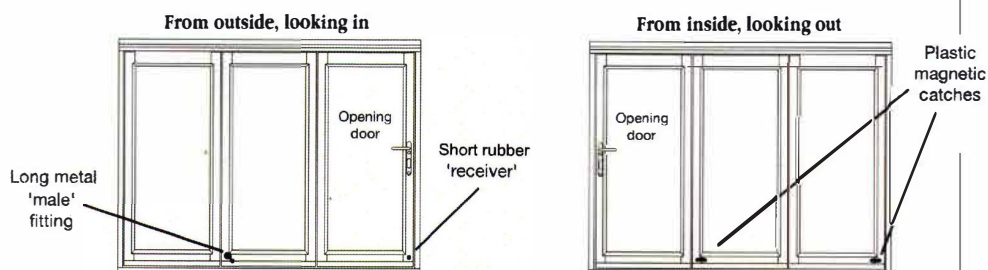
**32** When closing the door set, first close doors 1 and 2, securing them with the dropbolts. Then close and lock door 3.



## Fitting the magnetic catches to the doors

Optional (not included)

**33** Fit the Door Stop and magnetic catches in the positions shown using the fixings provided.





## Removing the shipping clips

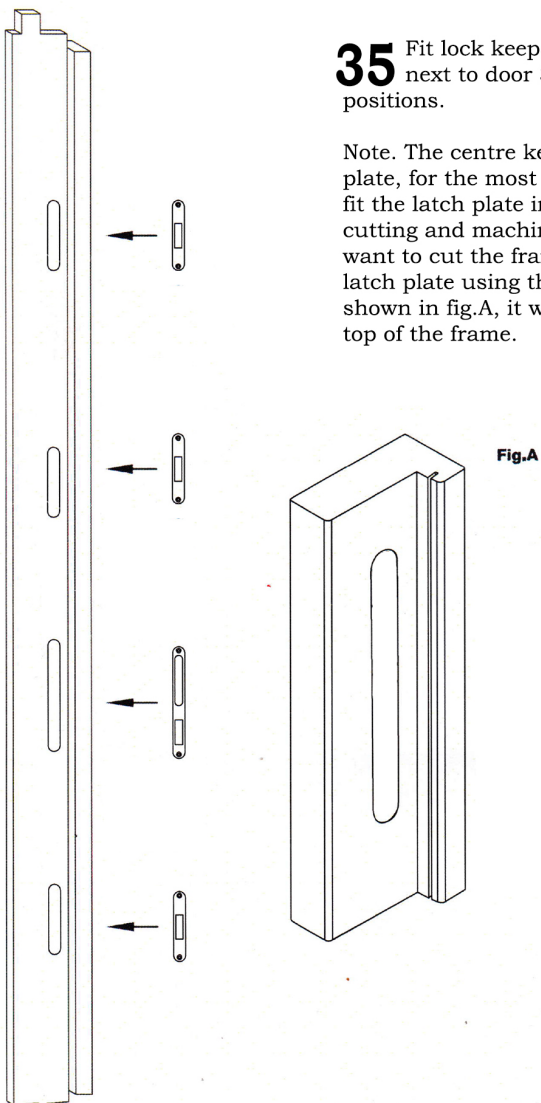
**34** Do not remove the shipping clips until you have made all the necessary adjustments as shown in section 28 and 29

once you are satisfied with the adjustment you have made, remove the yellow shipping clip from the top Pivot and intermediate Carrier to lock the position

## Fitting the lock and handle

**35** 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, it will then sit flush on top of the frame.







Wynning Back The Heart of Nature



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Raleigh, NC 27617



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