



4 DOOR INSTALLATION GUIDE



Easifold 3000 – 4 door combination

Thank you for purchasing the Easifold 3000 Bi-Folding door system. Please check that you have all the components in the list below. You will find that most components are marked or are pictured for ease of identification. The installation guide gives an order of working. It is strongly recommended that you follow this order as alternative methods may cause delay or difficulty.

These doors are supplied on the understanding that it is the installer's or installation company's responsibility to ensure that the relevant British Standards, Building Regulations and Planning Permissions are sought and adhered to. Origin Frames will not accept any claims or responsibility for products being misused, incorrectly assembled or not installed to FENSA standards.

1. COMPONENTS LIST

- | | |
|--|---|
| 1. Cill (if ordered) x 1 | 12. "D" handle x 1. (Open out only) |
| 2. Top track x 1 | 13. Wedge gasket |
| 3. Bottom track x 1 | 14. M8 x 135 bolts x 3 |
| 4. Side jamb left x1 | 15. Jamb packers x 8 |
| 5. Side jamb right x 1 | 16. Nut caps x 6 |
| 6. Jamb to track connectors x 4 | 17. Nylon washers x 2 |
| 7. Carriage assembly inc bottom fork x 1 | 18. Grub screws x 2 |
| 8. Top fork wheels x 2 | 19. Fixing plugs x 8 |
| 9. Top fork x 1 | 20. Magnetic Keeps |
| 10. Door leaves x 4 | 21. Half hinge. (Open in only) |
| 11. Lever/lever handle | 22. M6x20 hinge screw x 3. (Open in only) |

Items required not supplied with the doors

8 x 100 mm frame fixers, 4 x 40 mm self tapping screws, packers, expanding foam, silicon/trim, sand and cement if cill supplied

2. CILL

Bed cill on mortar bed, ensure it is packed and level. Fixings should be every 500mm

3. OUTER FRAME

➤ Connect the jambs to the track using the connectors provided (connectors already in tracks), ensure there is no gaps and that the jambs are fully seated on the connectors, fix with screws as shown in Fig. 3a. This will create the outer frame for the doors.

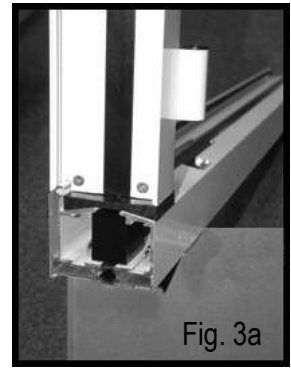


Fig. 3a

4. FIXING THE OUTER FRAME

➤ Place the outer frame into the opening. Ensure that the top and bottom tracks are level and that they run parallel as shown in fig. 4a. Be sure to measure at several points. Pack and fix using appropriate fixings as shown in fig's. 4c and 4d.



Fig. 4a

➤ Ensure the side jambs are level and that they line up with the end of the track top and bottom as shown in Fig. 4b. Slide the jamb fixing blocks into place and drill through the polyamide strip in the jamb and the fixing block with an appropriate size drill for the fixings being used. Open the hole in the facing polyamide strip in the jamb with a 13mm drill bit. This will allow the head of the screw to pass through the polyamide strip so they are hidden as shown in fig. 4e. Pack the jambs and fix using frame fixers (not supplied) through the jamb packers evenly spaced to secure the frame.



Fig. 4b

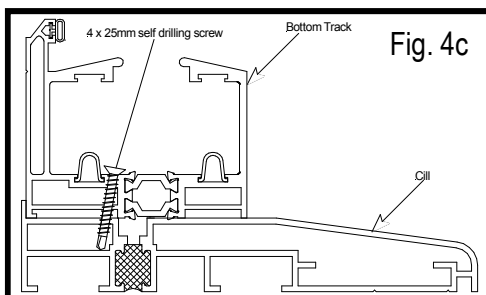


Fig. 4c

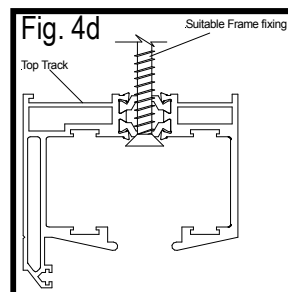


Fig. 4d

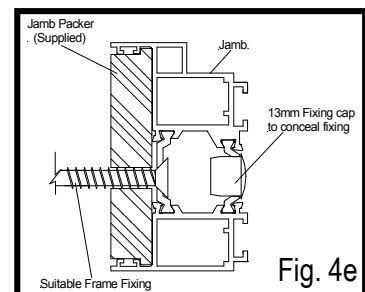


Fig. 4e

5. CARRIAGE ASSEMBLY

➤ Place the carriage assembly complete with fork into the bottom track as shown in Figs. 5a and 5b. Ensure that the wheels are on the shaft with the needle roller bearing facing the body of the carriage assembly

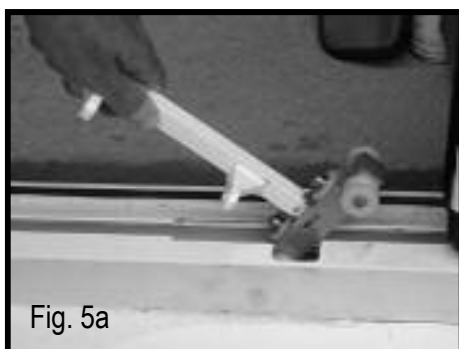


Fig. 5a

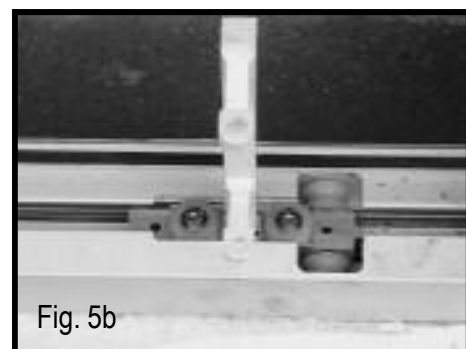
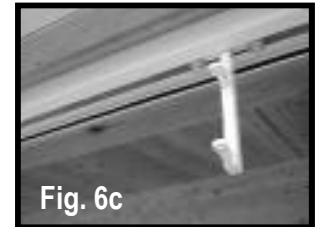
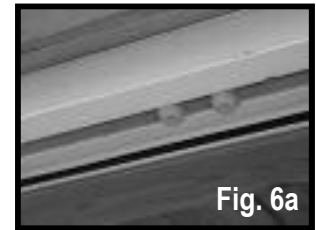
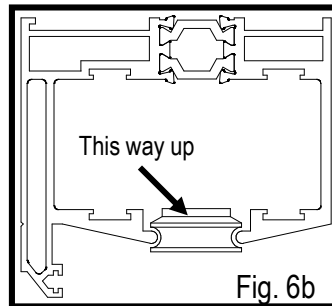


Fig. 5b

6. TOP FORK

- Insert both of the top fork wheels into the top track via the wheel rebate as shown in Fig. 6a. Ensure the wheels are in the track as shown in Fig. 6b

Locate the top fork into the wheels in the track as shown in Fig. 6c



7. DOOR LEAVES

- Hang the first door (marked

			X
--	--	--	---

) onto the hinge pins on the jamb as shown in Fig 7a.

- Hang the second door (marked

		X	
--	--	---	--

) onto the first door.

NB Ensure the weight of the doors is supported until the connection of the forks is complete.

- Prepare the M8 x 135 bolts provided.

- Locate the third leaf (marked

	X		
--	---	--	--

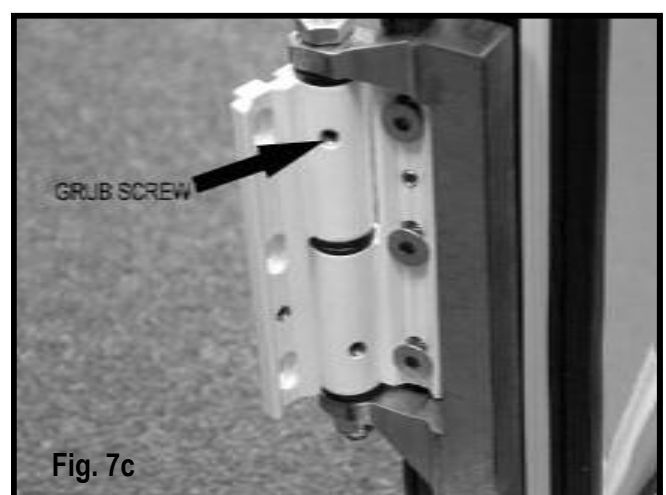
) centre hinge onto the centre hinge pin on the second leaf and rest in the top and bottom forks. Using the M8 x 135 bolts, bolt the top and bottom hinges to the forks as shown in Figs. 7b

- Screw the 2 grub screws into each hinge to locate into the rebates in the M8 x 135 bolts, to lock them in place as shown in fig 7c.

- Locate the leading door leaf (marked

X			
---	--	--	--

) onto the hinge pins on the left hand jamb



8. "D" HANDLES

- If your doors open in to the house move to step 9 if not complete this step then move to step 10.
- Fix the "D" handle to the centre hinge above the shootbolt lever using the M8 x 135 bolt and nylon washers provided as shown in Fig. 8.



9. OPEN IN, CENTRE HINGE

- If your doors open in to the house it is necessary to use a special hinge to the centre of the doors to prevent the hinges from separating. Open in doors have no "D" handle.
- Prepare the half hinge and 3no. M6 x 20 countersunk screws.
- Open the doors fully and identify any hinges that are half missing (these will be next to the slave handles)
- Locate the half hinges together and insert the 3 screws provided.
- Tighten the grub screws as shown in Fig. 9.



Fig. 9c

10. GLAZING THE DOORS

➤ The doors are internally shuffle beaded (beads already in place). Remove the beads from the door leaf to be glazed, insert 4mm packers to the bottom of the door leaf as shown in fig 10a.

➤ Lift the glass into the door and insert a 4mm packer in the opposite corner at the top of the door between the sash and the glass. Between the top of the glass and the toe and heel plate insert a 2mm packer as shown in fig 10b.

Shuffle the beads back into the frame, top and bottom first then the side beads and insert the wedge gasket provided. Be sure to over gasket the frames as shrinkage of the gasket can occur.



➤ Repeat this process for all door leaves placing the packers around the glass as indicated in fig 10c. The arrows pointing to the top rails indicate the position of the automatic toe and heel plates

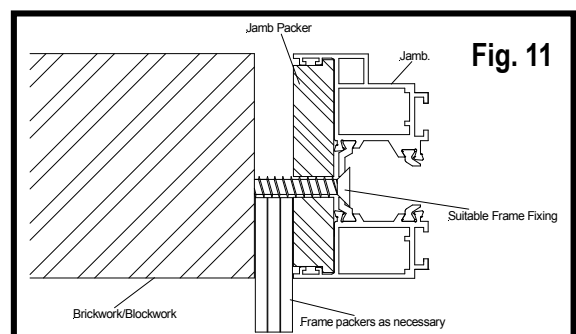


11. WIDTH ADJUSTMENT

➤ Slide the doors into the closed position and check that the gap between the leading door and the jamb is a parallel 3mm (If it is, move onto step 12).

➤ If the gap is not 3mm, release the fixings to the side jambs and add or remove frame packers as necessary as shown in Fig. 11.

➤ Once your adjustment is complete insert the 13mm fixing plugs to hide the screw heads.



12. TOE AND HEEL

➤ Easifold 3000 doors are fitted with an automatic toe and heel device. In the top of each leaf you will find a no.4 allen key bolt head.

➤ The doors will already be at their lowest point. With the doors in the closed position, identify any leaves that require lifting. Open the doors so that you can get access to the auto toe and heel device at the top of the door and wind the bolt clockwise, this will cause the corner of the door to rise. Re-close the doors and check that they run parallel and evenly to the top and bottom tracks. If they do not, then repeat as necessary.

Once you have adjusted the doors make sure that each toe and heel plate is tight to the glass in each door, this will prevent the doors from settling over time.

➤ If adjustment needs to be made to the ride height of the doors at the forks move onto step 13.

13. RIDE HEIGHT ADJUSTMENT

➤ Whilst every effort is made in the factory to ensure that the carriage assembly is at the correct operating height, this will need to be checked on site once the doors have been fully glazed. At the point where the carriage assembly connects to the door leaves, ensure that the doors run parallel to the track, if this needs adjustment follow the steps below.

- I Remove the bolt in the bottom fork and slide the carriage assembly with the fork to the access point and remove from the track as shown in Fig. 13a.
- II Remove the two allen key bolts in the top of the carriage assembly as shown in Fig. 13b. Be careful not to loose the washers and guide wheels.
- III The fork can now be lifted up away from the carriage as shown in Fig. 13c.
- IV You can now turn the height adjuster at the bottom of the fork as shown in Fig. 13d. Anticlockwise will lift the doors and clockwise will lower the doors. One complete turn of the height adjuster will raise/lower the doors approximately 1.5 mm.
- V Re-assemble the carriage and connect to the doors, close the doors and check the ride height, repeat as necessary.

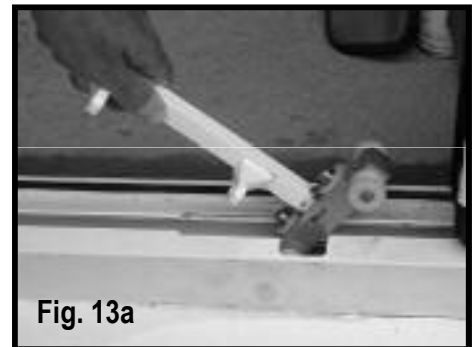


Fig. 13a



Fig. 13b

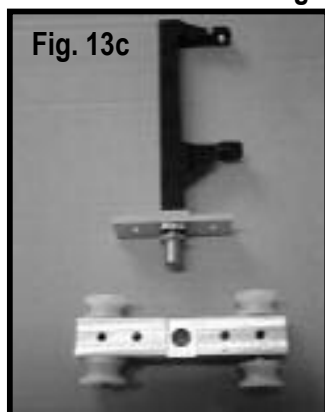


Fig. 13c

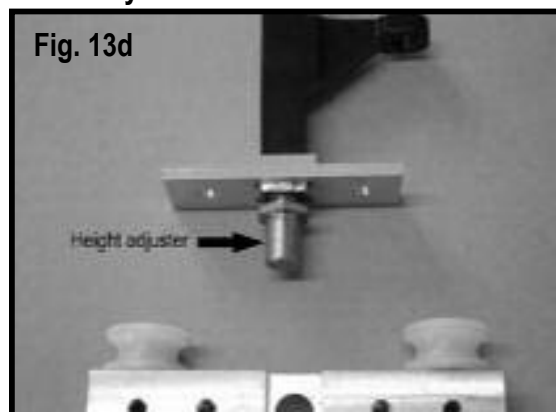
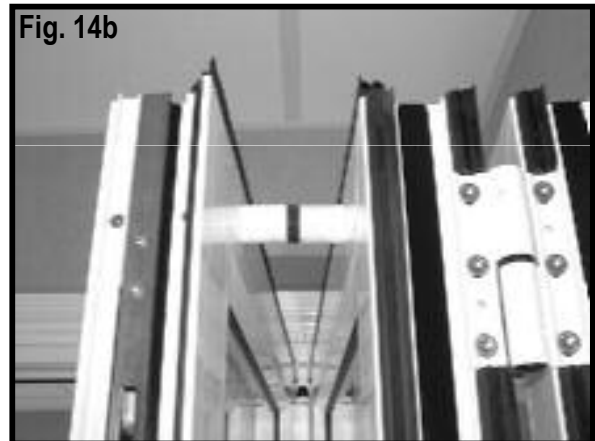
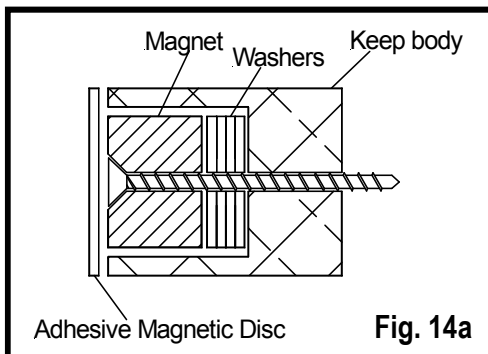


Fig. 13d

14. MAGNETIC KEEPS

- The magnetic keeps should be fitted to the centre of the top rail of the lead door and the centre of the top rail of the door adjacent to the lead door approximately 125mm across. This measurement is approximate as the position of the magnets will vary depending on the size of the door leaves.
- Remove the screws from the magnetic keeps and put back together as they were before you removed the screws. See Fig. 14a
- Open the lead door fully and offer the magnetic keeps up to the top rails. Slide across the top rail towards the hinge until the lever/lever handle is no longer touching the adjacent door. Mark around the magnetic keep on the lead door with a pencil
- Using a 3mm HSS drill, fix one of the magnetic keeps complete with washers, magnet and body to the lead door. Remove the paper to the back of the magnetic disc and fix over the face of the magnet.
- Place the second magnetic keep onto the magnetic keep on the lead door, open the door fully and mark the position on the adjacent door with a pencil. Fix the second magnetic keep as you did the first. Once complete the keeps should be as Fig. 14b



15. FINISHING

- We recommend that expanding foam is applied around the outer frame to fill any gaps between outer frame and structural opening.
- Silicon or trim around the outer frame as necessary.