



## HARDWOOD FRENCH DOORS

### Outward opening

### Fixing & Fitting Instructions

Sizes Available

Frame	Frame Size	Brickwork Opening Size
HDF4	1190 x 2090	1200 x 2100
HDF5	1490 x 2090	1500 x 2100
HDF6	1790 x 2090	1800 x 2100

Your new hardwood french doors and frame are designed to be installed with the minimum of effort.

**Before starting installation please read the following instructions.**

**Please note: flying mullion to be fitted to the slave door.**

### **IMPORTANT**

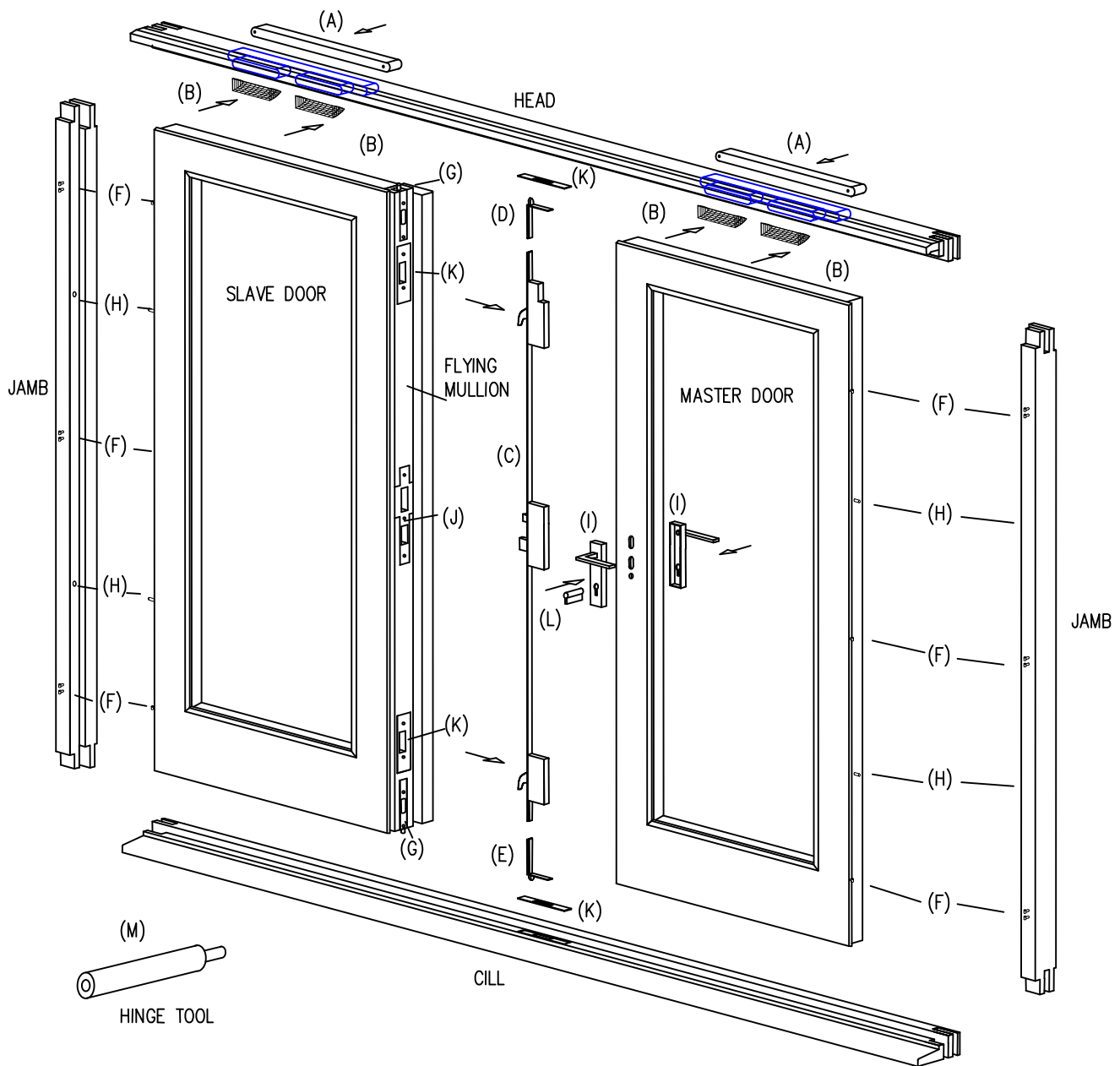
**Storage:** All doors should be stored, protected and fitted to the British Standard code of practice C.P.151 Part 1, 1965 (Wooden Doors).

On receiving the doors, frame and hardware pack, check the contents against the listing sheets. (See inside cover for hardware check list).

The doors and frame must be treated prior to assembly, with a minimum of one base coat and two top coats of an added durability microporous wood treatment i.e. Dulux Weathershield Woodstain.

Sand lightly between coats taking care that the top and bottom door edges are fully coated.

# Check List



The hardware per door set is as follows:-

2 off (A) Titon Vents  
 4 off (B) Titon Grills  
 1 off (C) Espagnolette  
 1 off (D) Top Shoot Bolt  
 1 off (E) Bottom Shoot Bolt  
 6 off (F) 3 Part Hinges  
 2 off (G) Shootbolts (Slave Doors)  
 4 off (H) Dead Bolts  
 1 off (I) Pair Handles

1 off (J) Universal Timber Centre Keep  
 4 off (K) Timber Keep (Hook)  
 1 off (L) Cylinder Lock  
 1 off (M) Hinge Tool  
 9 mtrs Aquamac Gasket

## Screws:-

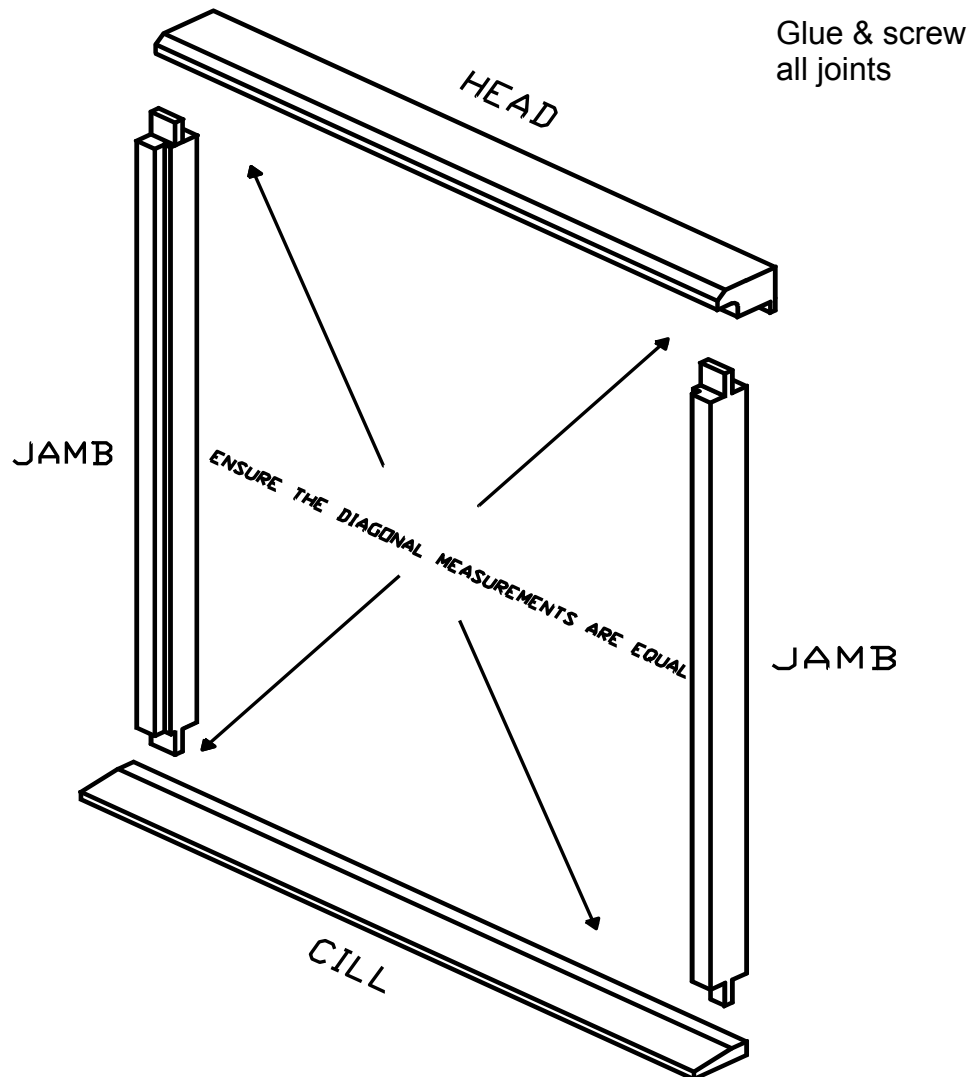
35mm x 4 = 28 (Espagnolette, Hook Keeps, Centre Keeps)  
 45mm x 4 = 8 (Shoot Bolt Keeps)  
 35mm x 3.5mm = 4 (Shoot Bolts G)  
 25mm x 4 = 4 (Vents)

## **FRAME ASSEMBLY**

The frame is supplied pre-drilled for hinges, security bolts and pre-machined for the espagnolette and flush bolt keeps.

Assemble the frame on a level surface. Glue all comb joints with waterproof adhesive and screw through the joints with 2½" (65mm) or 3" (75mm) woodscrews 10 gauge (not supplied). Check the frame is square and temporarily brace as necessary to ensure stability of the frame (See Fig 1).

**Fig. 1**



## FRAME ASSEMBLY

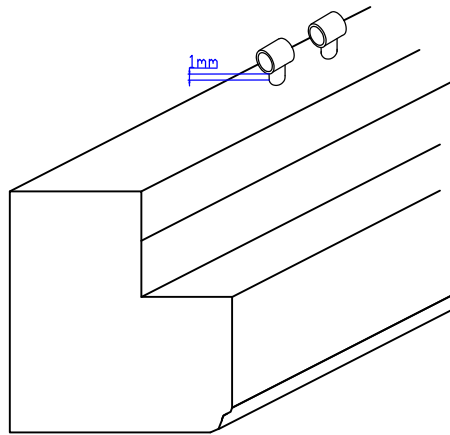
Letters in brackets refer to exploded drawing and checklist.

Prior to fitting the frame into the brickwork, fit the trickle vents and grills (removing transit clips) into the head of the frame.

The hinges (F-hinges without nylon bush) should be fitted into the pre-drilled holes in the jamb (See Fig 2) using the hinge tool provided (M). Also tap in the deadbolt keeps (H) (See Fig 3) and screw in the top and bottom keeps (K).

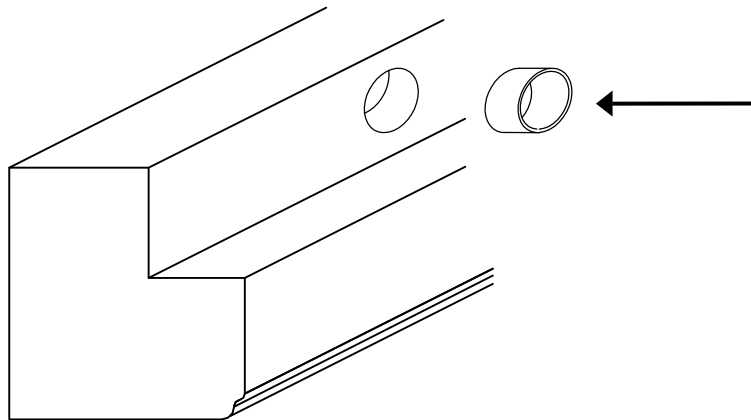
Hinges should be screwed into jamb to within 1mm of face as in Fig 2, using hinge tool provided.

**Fig. 2**



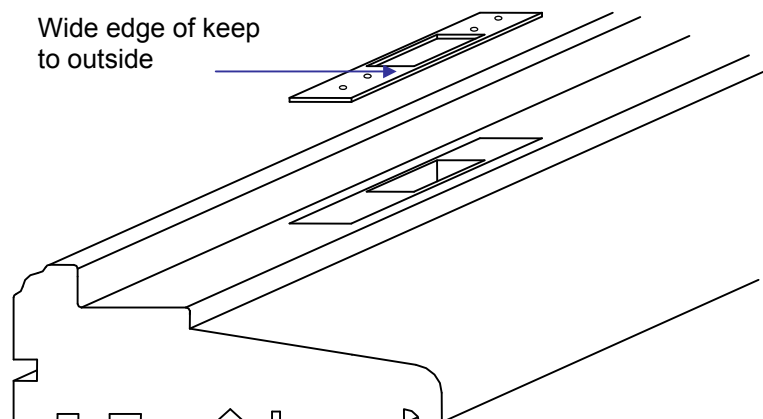
Tap deadbolt keeps in flush, or slightly below face of jamb rebate as in Fig 3.

**Fig. 3**



Top and bottom keeps **must** be fixed with the wide edge of keep to outside as in Fig 4.

**Fig. 4**



## **INSTALLING THE FRAME**

Prior to installing the frame, check the building structure for a secure fixing position. This is due to the weight of the finished door set. Then use a suitable fixing method (eg. frame fixings/ties).

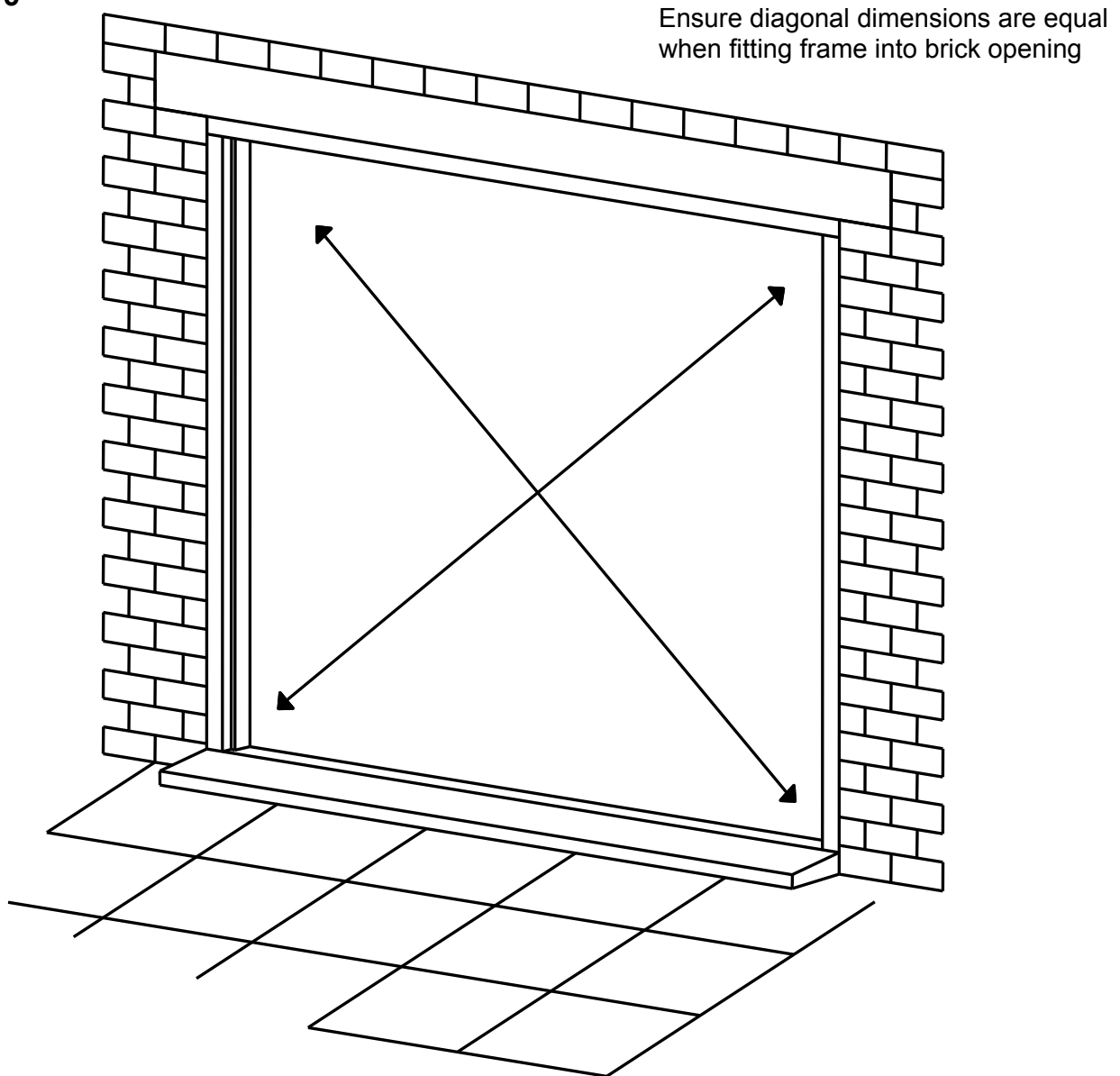
Fixing of the frame and fitting of any dampproof course and bedding is the responsibility of the installer, and must be carried out as in normal building practice to prevent water penetration.

Jambs must be straight when fixed to the brickwork.

Build-in or fit the frame into the masonry opening ensuring that the cill is level and diagonal measurements equal (see Fig 5). Check the squareness of the frame and that the jambs are plumb.

\*Frame should be set in the reveal to such an extent that the bevel on the head drip is level with the brickwork.

**Fig. 5**



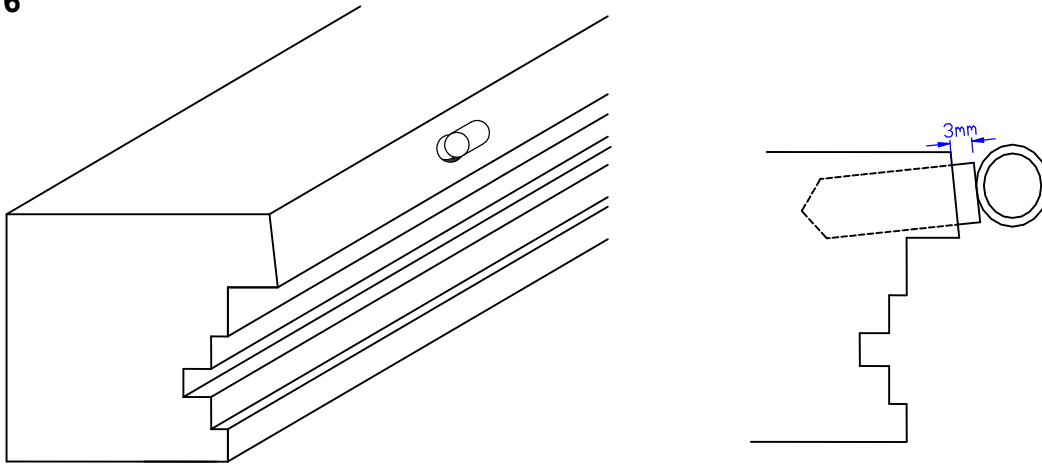
## **HANGING THE DOORS**

Taking the slave door first (identified by flying mullion attached), fit the hinges into the pre-drilled holes using the tool provided. Set the hinges at the correct depth (see Fig 6) and tap in the deadbolts to the required depth (see Fig 7). Also fit the keeps for the espagnolette (K) and shootbolts (G) to the flying mullion (see Fig 8).

The centre part of the hinge (identified by nylon bush) is fitted to the door stile.

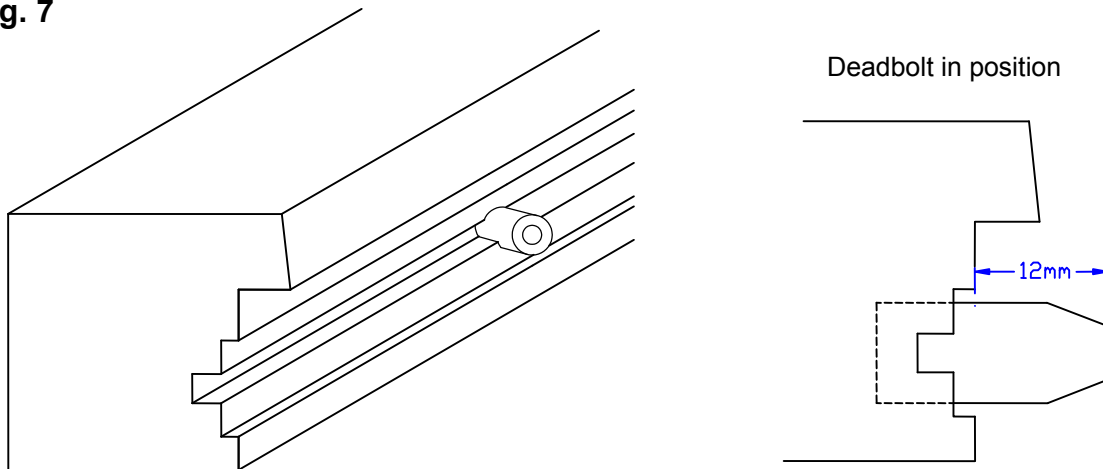
Hinges should be screwed into door within 3mm of face, as in Fig 6.

**Fig. 6**



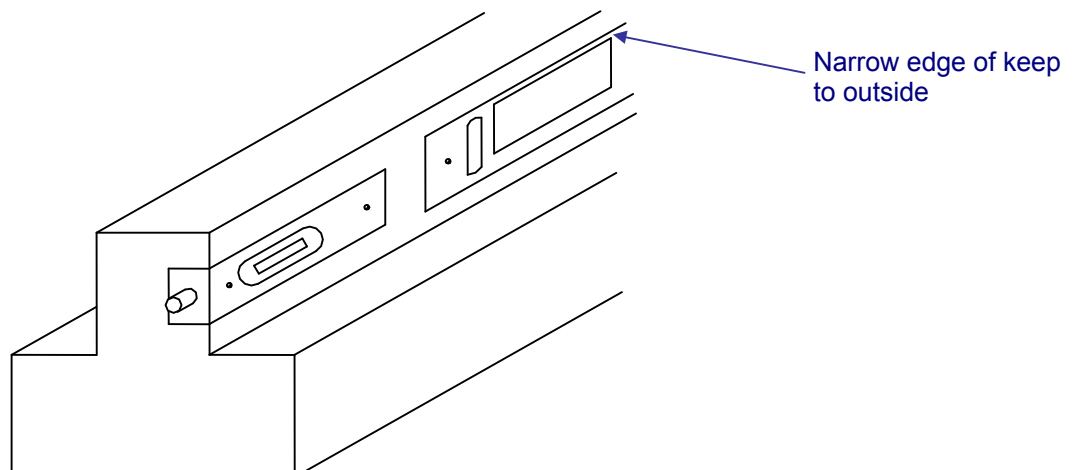
The deadbolt should be tapped into door stile to a minimum depth of 12mm, as shown in Fig 7.

**Fig. 7**



Hook keeps **must** be fixed with the narrow edge of keep to outside, as in Fig 8.

**Fig. 8**



## **HANGING THE DOORS**

With the three hinges fitted locate the door into the frame jamb: at this point you may require assistance in holding the door while the hinge pins are inserted into the hinges. Do not insert the hinge pins fully until satisfied the door is hung correctly. Once this is done, close the door and engage both top and bottom shootbolts (G) in position.

Take the master door and fit the hinges as per Slave door. To fit the espagnolette, stand the door on its edge and locate the centre of the lock (C) into the pre-machined mortice holes, setting the hook bolts to the retracted position. When fitting the top (D) and bottom (E) shootbolts, locate them with the espagnolette ensuring they are in the retracted position (see Fig 9) and screw the assembled espagnolette to the door. Do not over-tighten screws. Fit door handles (I) and barrel lock (L) (See Fig 10) and test lock system. As with the slave door, locate the door into the frame, assembling the hinges.

Close the doors and engage the locking system to check its operation.

Finally trim and fit gasket to the frame and flying mullion.

Where the gasket meets in the frame corners ensure it is notched and butted up correctly (See Fig 11).

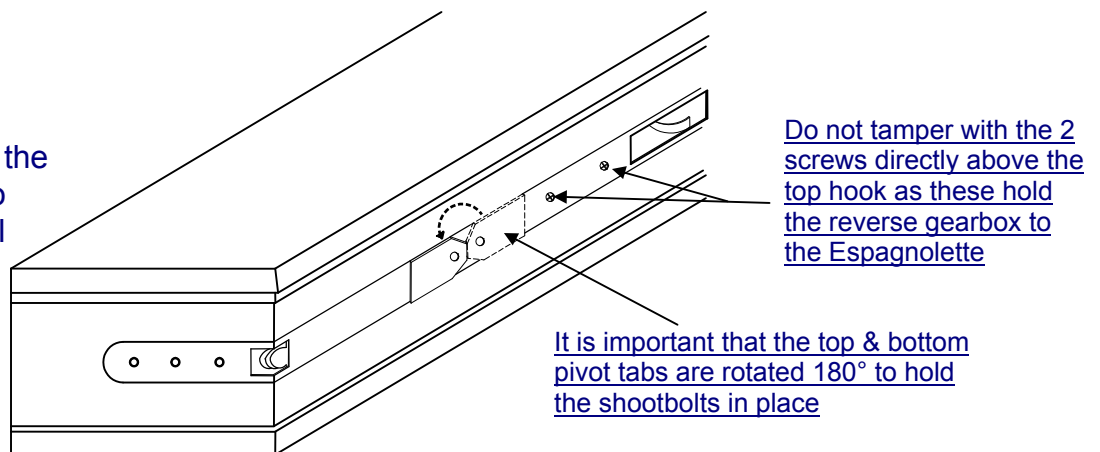
When fitting espagnolette, ensure hook/shootbolts are in the fully retracted position as in Fig 9.

Remember to fully insert the hinge pins when the doors are hung correctly.

**Fig. 9**

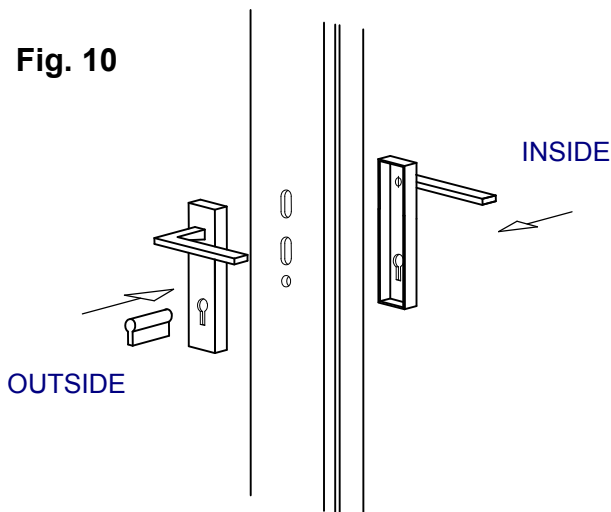
### **VERY IMPORTANT**

Failure to do these operations will cause the locking mechanism to fail, and the doors will become inoperable.

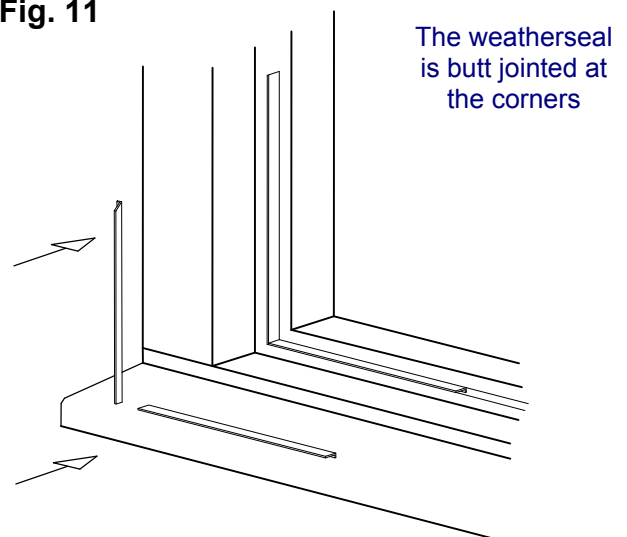


Handles to be fixed from inside as in Fig 10.

**Fig. 10**



**Fig. 11**



**CLIMA DOOR**