

# Fitting Instructions for uPVC Patio doors

Please read the complete set of instructions before starting installation to familiarise yourself with the stages of construction.

These instructions cover the fitting of the above doors complete with outer frame cill & optional ventilator into a new or existing brickwork opening.  
Instructions for 2, 3 and 4 Door Patios with welded frames

The size of the opening should be:

**Width:** The external width of the frame + 10mm fitting tolerance.

**Height:** The external height of the frame + 30mm for the cill; 44mm for the optional ventilator & + 10mm fitting tolerance.

## IMPORTANT INFORMATION.

- 1) Before proceeding it is advisable to check that your new door is the correct size to fit the intended aperture.
- 2) Do not remove your old frame until you have confirmed all the points below.
- 3) Carefully open the packs supplied and check the contents against the included list.
- 4) Do not destroy any of the packaging until you are certain that you have all the necessary parts for the installation.
- 5) Structural openings should be free of dust and debris and checked to make sure D.P.C is undamaged and in position.
- 6) Levelling and plumbing; it is important that you check the level and plumb when installing the frame.

### Check List

#### Frame

- A. Door Frame with fixed and sliding doors fitted
- B. 150mm cill
- C. Head vent with end caps
- D. Accessory pack
- E. Tube containing trickle vent

#### Glass

- 1 Glass unit per door wrapped separately

#### Accessory pack – Packed with door frame

- 1 or 2 sets of door handles (depending on style) c/w spindle and screws
- 1 x Pair of cill end caps
- 1 x 40/40 Cylinder c/w keys
- 1 x 2.5mm Allen key
- 1 x Fitting instructions
- 6 x cill and head vent fixing screws
- Glazing packers

### Notes for guidance - Please read

- Patio doors are non-reversible and must be fitted as per the handing supplied.
- These doors are heavy - Always use good lifting practices.
- Fitting these doors plumb, level and square is of paramount importance.
- Maintain even gaps all around the frame.
- To conform to Building Regulations, if you're fitting the patio door into a room which has no opening windows or other form of ventilation, a 'Ventilator Kit' must be used.

### The doors may not operate correctly if you do not:

- Fit the door frame square & level.
- Fit the door frame plumb in all planes.
- Keep even gaps around the frame.
- Tighten fixing screws against packers.

### Tools & Equipment required

- Electric drill
- Masonry & high-speed drill bits
- Pozi headed screwdrivers
- Rubber mallet & hammer
- Measuring tape
- Spirit level (long) & Straight edge
- Fine toothed hacksaw
- Superglue
- Silicone sealant - (white & clear)
- 10mm x 76mm & 10mm x 100mm Frame fixers
- Building equipment & materials for preparing brickwork opening & finishing products; exterior frame sealant & plaster etc.

Frame fixings are not supplied. Only use suitable frame fixings depending on your requirements, if in doubt consult an expert.

**2 people required.** At certain stages of the installation 2 people will be required. Remember the doors are heavy.

For future use and adjustment requirements please retain all assembly instructions. All dimensions given are in mm. Finally, please do not rush; take time to do the job properly.

## Step 1 – Before you start

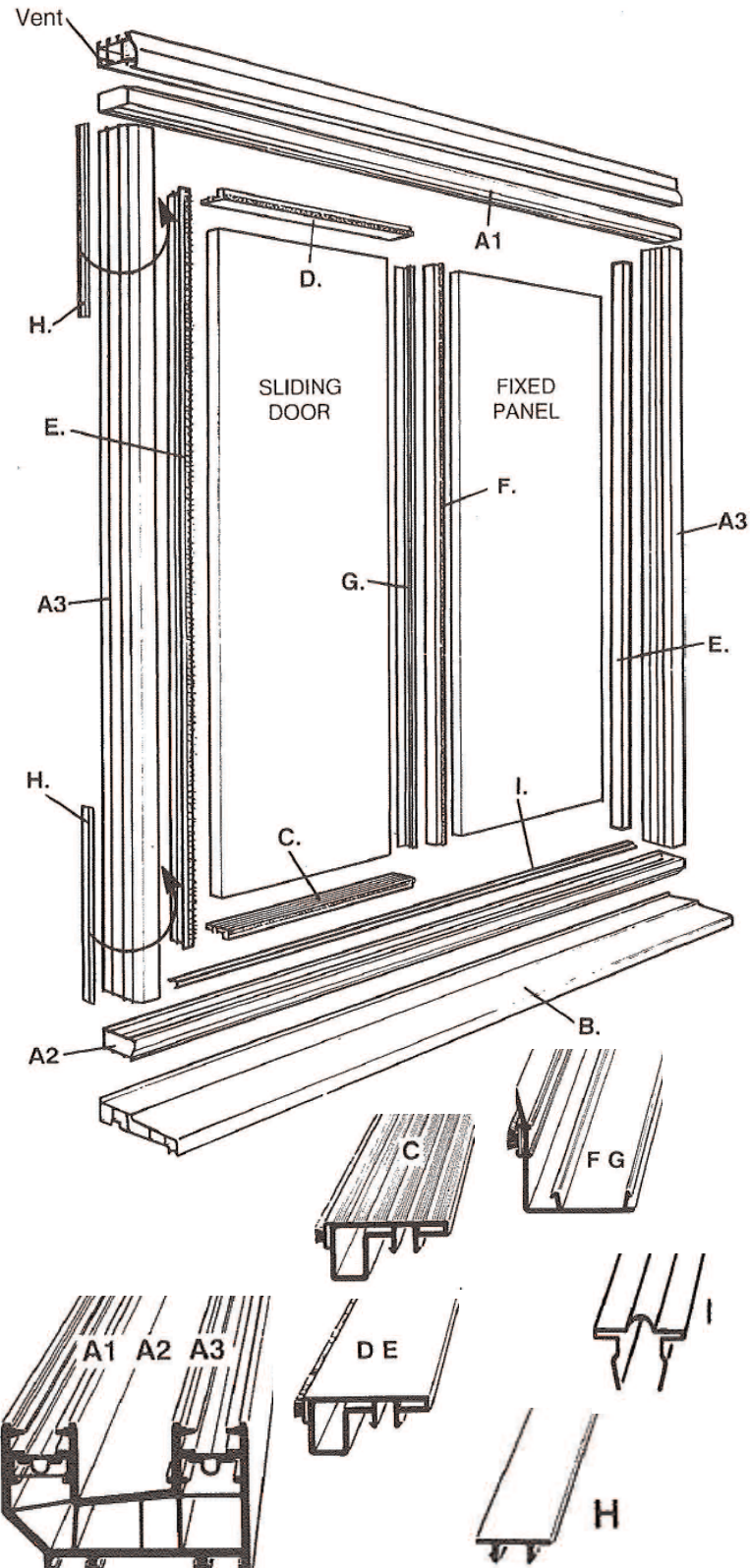
Before starting the installation of your new doors, and prior to removing the old door and frame, check all dimensions including the cill / optional ventilator to ensure they fit your brickwork opening correctly.

NOTE: There should be approximately 5mm clearance all around the frame.

## Step 2 – Identify the components

This Patio Door is designed to be fitted into a brickwork opening. Use the exploded illustration to identify the main components in the frame packs.

The trims will be all be pre-fitted into the frame



## Step 3 – Preparing the opening

Our standard uPVC Patio doors are available in the following widths:

Model 5 - 1490mm wide – 2 Doors – 1 Slider

Model 6 - 1790mm wide – 2 Doors – 1 Slider

Model 8 - 2390mm wide – 2 Doors – 1 Slider

Model 10 - 2990mm wide – 4 Doors – 2 Sliders

Model 12 - 3590mm wide – 4 Doors – 2 Sliders

Model 14 - 4190mm wide – 4 Doors – 2 Sliders

These are the external widths of the uPVC outer frame. The height will be 2094mm, including cill (B) and optional ventilator kit. If the ventilator kit is not fitted, the door will be 2050mm high. It is important to fit the cill to allow adequate drainage.

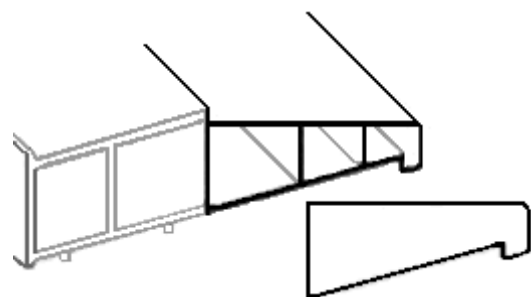
The brickwork opening should be approximately 10mm larger than the outer frame size, to allow for adjustment and square fixing of the frame. Few brickwork openings are already perfectly square.

Patio doors must be fitted under a lintel, which extends at least 150mm into the brickwork at both sides of the opening. This must be checked before the opening is prepared. If an existing lintel is not wide enough, it must be replaced.

## Step 4 – Fitting the cill

All fittings and screws for fitting the cill and ventilator are included in the accessory pack. The only additional fixings required are frame fixers, for securing components to the brickwork. These are not supplied as they need to be suitable for the aperture into which the door is to be fitted. If fitting extenders, please make sure that the fixings are long enough to give a secure fixing.

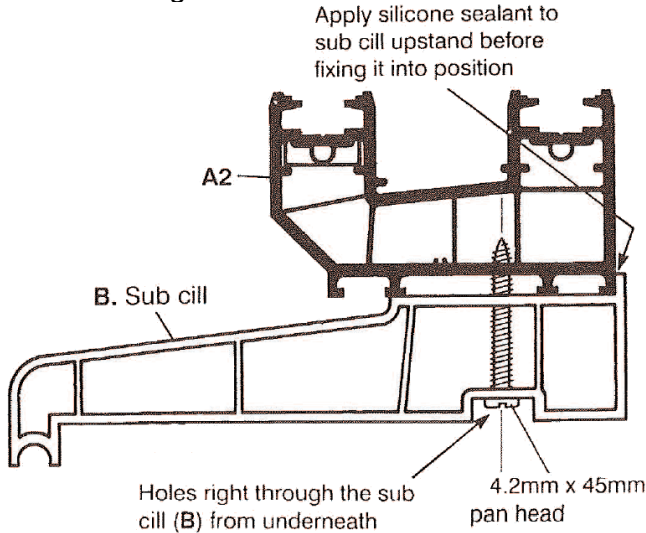
Identify the cill (B) and cill end caps. Apply silicone sealant onto all contact areas then push the end caps onto the ends of the cill, see diagram 5.



The cill should now be fixed to the outer frame base (A2) using the 4.2mm x 45mm pan head self-tapping screws, see diagram. Note: The outer frame base is recognised by the drainage slots, which run from the inner channel to the sloping outer surface of the section. Also, **please check that the removable beads on the doors are fitted to the inside of the property**, both for security and adequate drainage of the door.

Position the cill (B) onto the outer frame base, centralise it over the length, then drill 3mm pilot holes completely through the cill into the outer frame base, penetrating the bottom surface of the outer frame only. Note: use a drill stop, set at 38mm to achieve this.

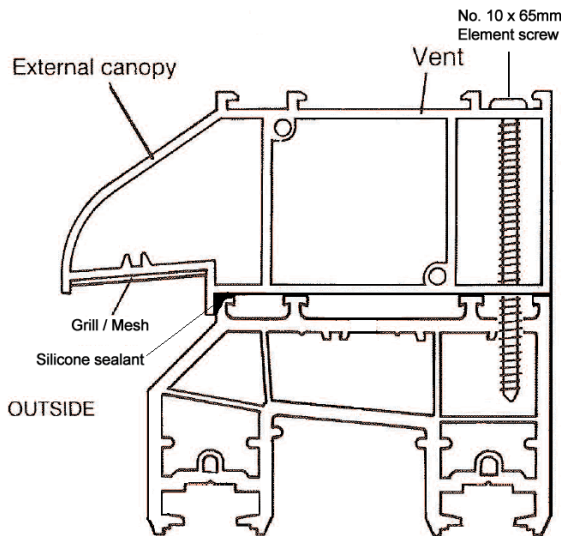
The fixing hole positions should be approx. 150mm from each end, with the other two equally spaced between them. Holes should be drilled through the cill (B) only, before inserting the screws.



Apply silicone sealant to the cill up-stand before fixing it into position.

### Step 5 - Fitting the optional vent kit

NOTE – The trickle vents and grilles are supplied in the tube packed within the door frame.



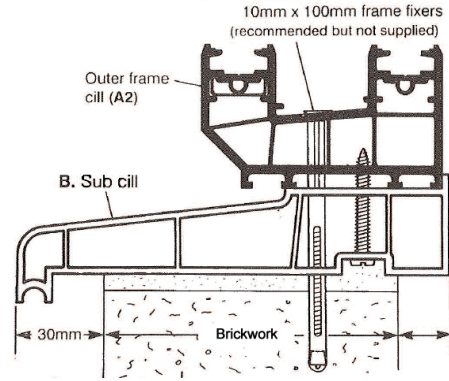
Apply a bead of silicone along the vented head section in the position shown. Position vent head onto the outer frame head (A1) ensuring that the canopy side goes to the outside. Drill 3 x 3.5mm holes centrally through the vented head, down into the outer frame head. Drill one hole centrally over the length and the other two 75mm from each end being careful not to penetrate the inner profile skin.

Secure the vented head to the outer frame head using the No.10 x 65mm pan head screws supplied.

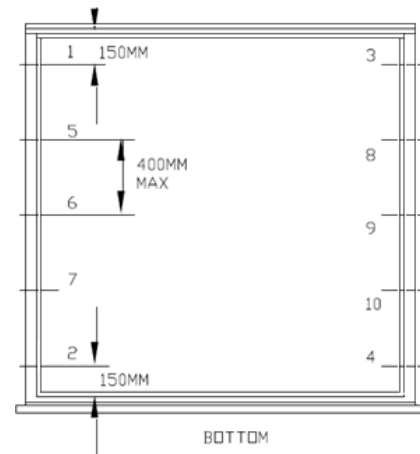
**Read and understand the entire next section prior to fitting.**

### Step 6 - Fitting the outer frame

Before fitting the frame, you will need to remove trims C, D & E from the outer frame to allow fitting to the brickwork. Ensure the base brickwork is flat and level. With the help of a partner, offer the assembled outer frame into the brickwork opening to check that it fits correctly and ensuring there is an equal gap all around the frame. Frame packers/wedges will be required during this phase (not supplied). Also check the cill is level along its overall length. (Maximum deviation is 2mm). Apply a generous bead of silicone across the bottom of the aperture to sit the base cill on and if necessary, maintain an overhang along the cill for water runoff to drain away.

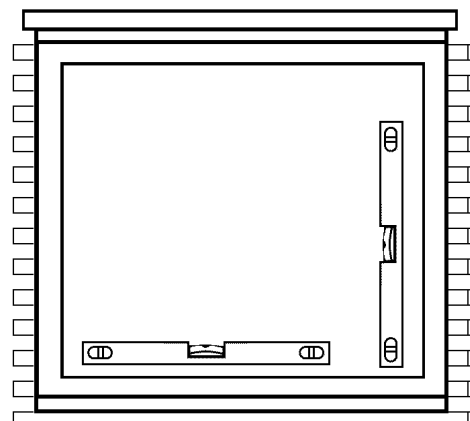


Use a suitable size HSS drill bit for your fixings; to drill clearance holes through the centre of the outer frame cill channel, and down through the sub cill (B).



Using a spirit level, check that the base of the frame is level and the frame is standing perfectly upright, i.e. not leaning in or out of the room.

Pre-drill the holes **in the frame only** as indicated. These should be positioned 150mm from each corner with no



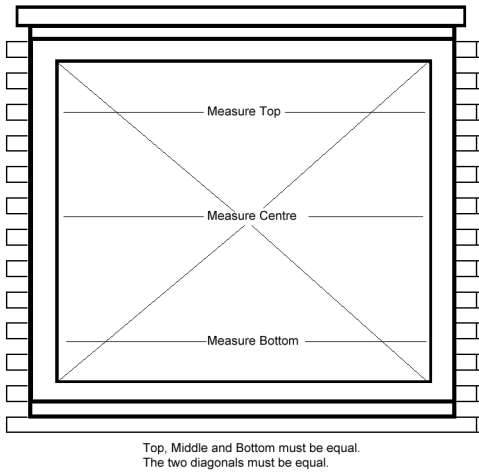
more than 400mm between each fixing. You must ensure you are lining up with brick not mortar.

Fix the cill down first; making sure that it remains level and square and does not distort. **DO NOT OVERTIGHTEN.**

Carefully drill a suitable size hole into fixing point 1 through the pre-drilled holes in the outer frame using a masonry drill. Using a suitable frame fixer (not supplied) tap through the frame into the brickwork then use a screwdriver to tighten.

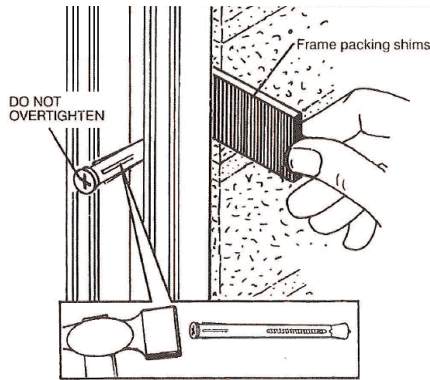
Check that the frame has not moved and is still plumb, level & square. Also check the diagonals are equal. Repeat this process for fixing points 2, 3 and 4 checking through each stage that the frame lines up. The frame should be secure, now complete fixing points 5 - 10.

Always make sure the frame does not distort when tightening the fixings.



**CHECK** The three width dimensions must be equal, and the diagonal ones must also be equal to each other

Use wedges where necessary to pack out the cill and frame until it is completely level and plumb. Use a long straight edge and spirit level to check this after every fixing made, adjusting the thickness of the wedges as required.



It is essential that the cill and outer frame is fitted perfectly level, plumb and square within the opening. Failure to follow this instruction will seriously affect the doors performance.

Remember, the success of the installation relies upon the perfectly square, level and plumb installation of the outer frame. The gaps around the frame should be filled with

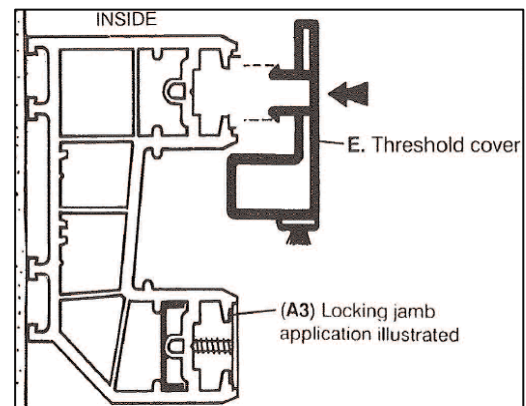
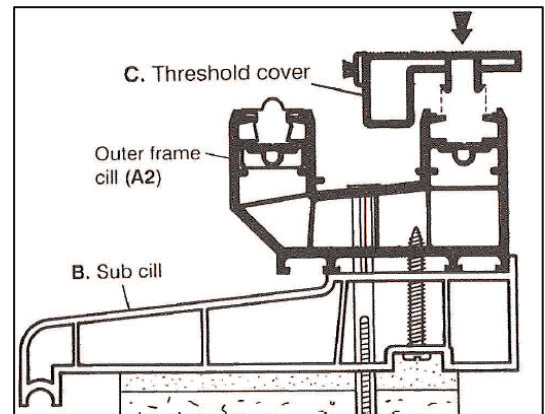
frame sealant at the end of the installation. Clean out any debris from the screw fixing channel around the inside of the outer frame.

To adjust the height / ensure that the jamb and door stile are parallel, you will need to raise or lower the door rollers.

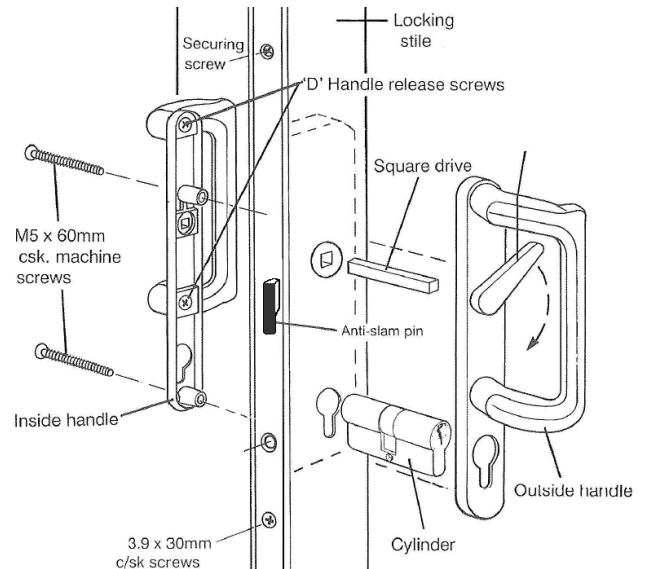
Access is obtained to the adjusting screws through the holes near the bottom of the door stiles. Turn the screws clockwise to raise the door, anti-clockwise to lower it. You may need to adjust both roller assemblies.

**IMPORTANT - Please ensure you do not over adjust rollers**

Once the door is all in place, the trims C, D & E can be fitted back into place.



## Step 7 – Fitting cylinder lock & handles



Fit the lock cylinder through the slot in the uPVC frame and the keyhole in the lock body.

Please note that the cylinder lock needs to be secured in place using the screw provided.

The handles are reversible for correct handing.

This is achieved by removing the two hex headed screws in the back of each handle with an Allen key. Turn the 'D' sections in the opposite direction then re-fit the screws, making sure they are secure. The fixing screws must always be fitted to the inside of the property. If you have more than one sliding door, the secondary handle will need to be fitted in the same way. Locate the square drive through the lock assembly.

With the levers in the **up** position, fit both handles over the cylinder and square drive. Secure the handles together from the inside using the supplied M5 x 70mm c/sk machine screws. They locate through the locking stile into the tapped blind inserts in the outside handle. If you have more than one sliding door, the secondary handle will need to be fitted in the same way (except for the cylinder).

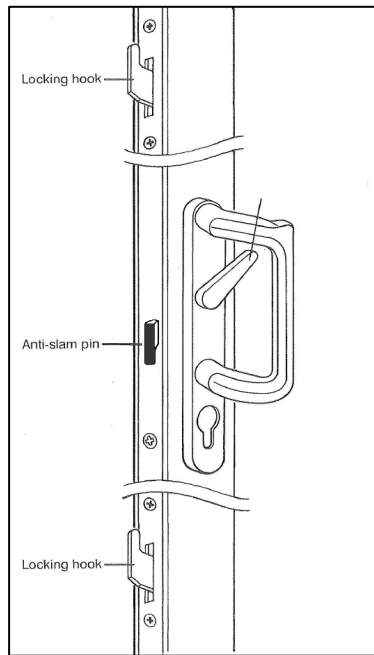
Now that the handles are assembled, check the locking operation by depressing the spring-loaded anti-slam pin with one finger. Then move the levers upwards (door locked position), this should operate the lock mechanism by moving the locking hooks up and down.

Return the levers to the down position and the studs will move inwards, towards each other - (door lock open position). The anti-slam pin will click out and the locking hooks will remain fixed in this position.

If they are not aligned correctly, the keep plate can be adjusted by removing the screws, moving it up or down until correct, and re-fitting the screws.

The locking hooks should now pass through the keep plate holes cleanly.

**PLEASE NOTE – If the frame has not been fitted square and plumb, the anti-slam pin will not engage preventing the correct operation of the lock. If this is the case and the lock works fine when testing in the open position (as above), the frame will need to be rechecked.**



in the vent kit. The external grilles will also need to be fitted.

Note: for ease of access, the vent controls can be fitted after the interior reveal has been plastered / finished.

## Step 9 – Fitting the glass

Once the door has been fitted, the door will need to be glazed. Unclip the beads in the door sash and mark up each one with the position into which they need to be replaced. This is important to give an exact fit. Use the additional packers to hold the glass in place (supplied in the accessory pack). The glass can then be fitted in to place, and the beads replaced. Replace the beads in the order of top and bottom first, then the sides. Knock them back into place using a rubber mallet. Repeat with the other door.

Lastly, check to make sure that the door operates correctly.

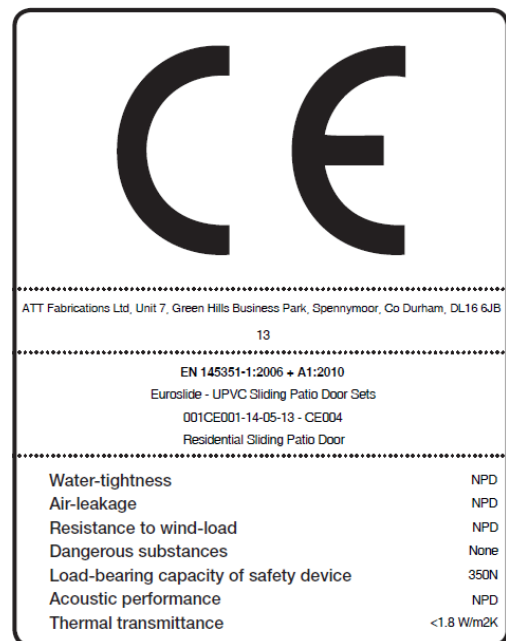
**Maintenance Guidelines. - These guidelines must be adhered to or you will invalidate your guarantee.**

a) Products should be washed down periodically with a non-abrasive cleaner and warm water.

b) To maintain the mechanism and rollers ensure they are always kept clear of obstruction like builders rubble, plaster residue and other objects.

All moving parts are to be periodically lubricated using a light, acid free lubricant to ensure continual ease of operation.

**Failure to fit the doors in line with these guidelines will invalidate the manufacturers guarantee.**



## Step 8 – Fitting the trickle vents

Fix the internal vent canopies over the pre-prepared slots on the inside of the vent using the screws/clips supplied