

Two Pane Patio Installation Guide

For Customer Services (parts & delivery enquiries only) call: **01254 683 079**

For Technical Support (installation queries) call: **0871 574 7293**

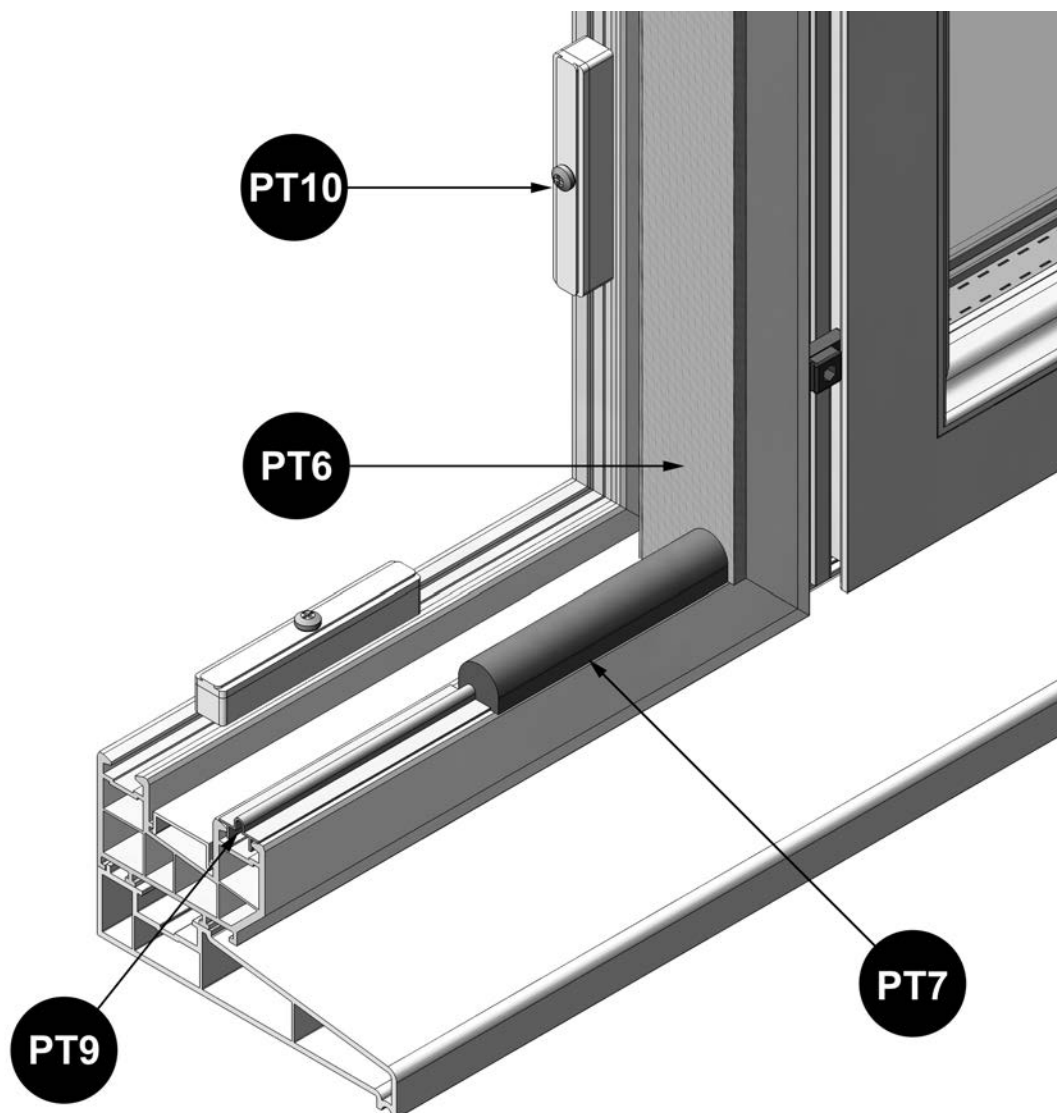
Technical support calls cost 10p per minute from BT landlines, other carriers and mobile networks may vary.

Please note that the conservatory product is complex, and often bespoke in nature. Accordingly, while this document attempts to demonstrate the full installation procedure, it should be seen a guide to method and technique, rather than a strict step-by-step guide. Methods and components are subject to change without notice, and no responsibility will be accepted for any issues arising from such changes.

Printed installation guides for our products are supplied as necessary upon purchase however, due to the limitations of promptly updating printed copies, the PDF versions available online at www.k2conservatories.co.uk should be considered to supercede the printed versions.

PATIO OUTER FRAME TRIMS AND ACCESSORIES

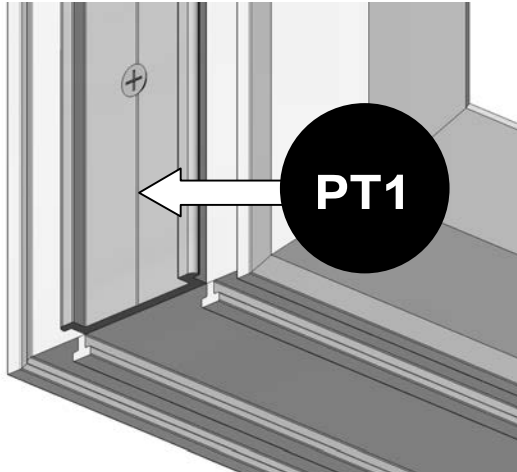
Item No	Item Description	Pack	Comments
PT6	Jamb Infill	E	
PT7	Bump Stop	E	
PT9	Wheel Track	E	
PT10	Fixed Pane Spacers	E	



Positioning the Patio Outer Frame

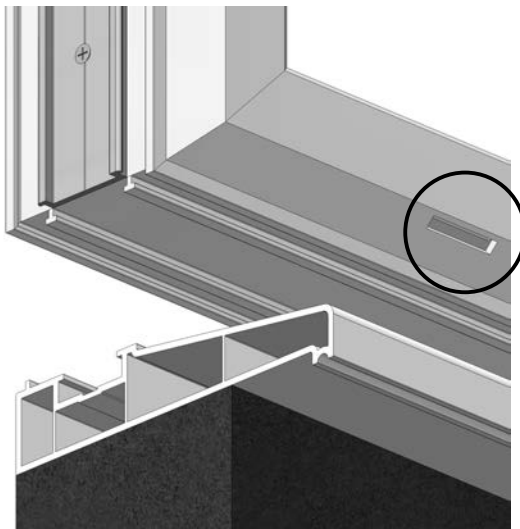
The left and right sides of the patio outer frame will have aluminium Patio Adapter (PT1) attached.

This Patio Adapter (PT1) will allow the 18mm inline couplings (A104) to interlock with the leg detail.



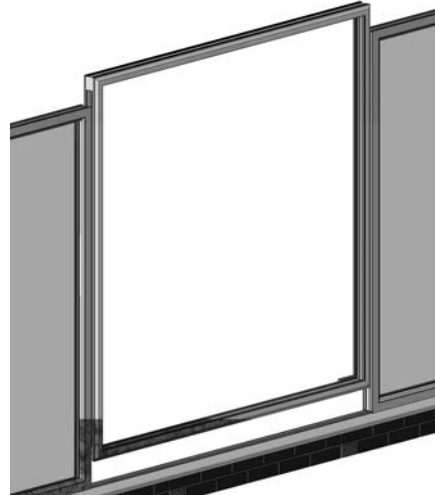
Please note: The section of patio outer frame which has the drain holes is the section which locates onto the 150mm sill (P106).

Please also note that the drain holes face the front of the conservatory as shown circled in the diagram below.



The Patio outer frame is always the last panel to be fitted.

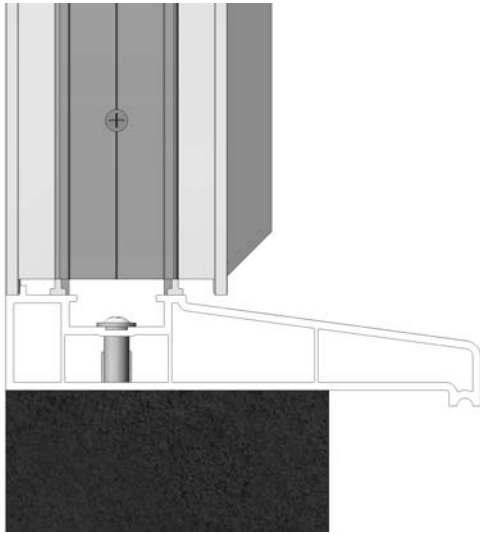
The patio outer frame is positioned like all other panels with the exception that the patio outer frame is not slid onto the 150mm sill (P106) but simply placed into position.



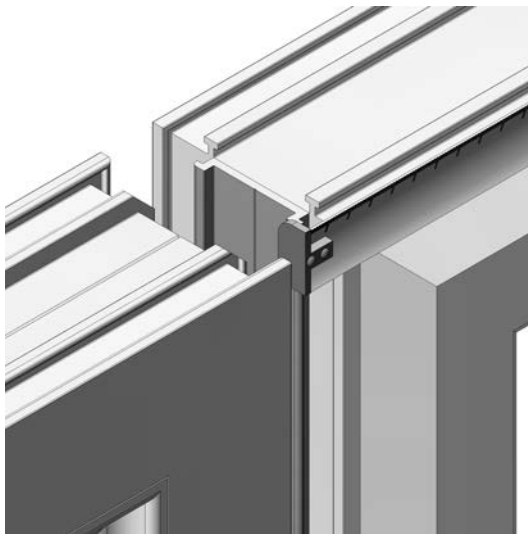
On dwarf wall models, the 18mm inline couplings (A104) which attach the patio outer frame to the adjacent panels are to be cut to size as they must rest on top of the 150mm sill (P106) as shown below.



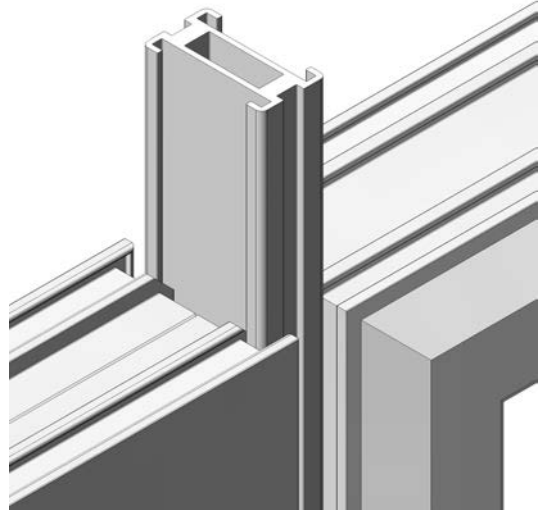
Locate the patio outer frame position by ensuring that the internal face of the patio outer frame is in line with the internal face of the 150mm sill (P106).



When the patio outer frame is in position on top of the 150mm sill (P106) the gap between the adjacent panel and the French door outer frame is approximately 18mm.



Select the 18mm inline coupling (A104) or adjustable inline coupling (A107) and slide downwards through the gap between the two panels until it rests on the 150mm sill (P106).

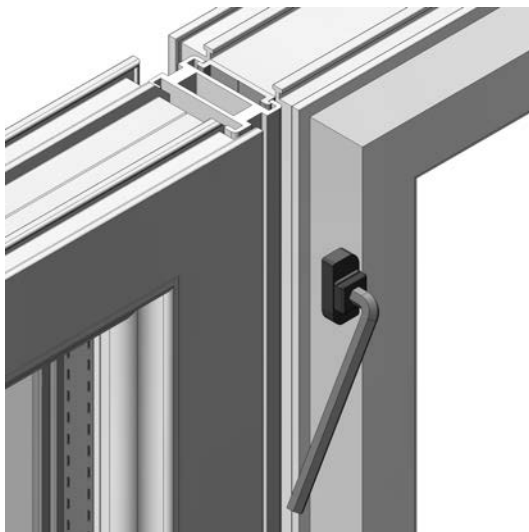


Remember to silicone seal around the bottom of the 18mm inline coupling (A104) when in position.

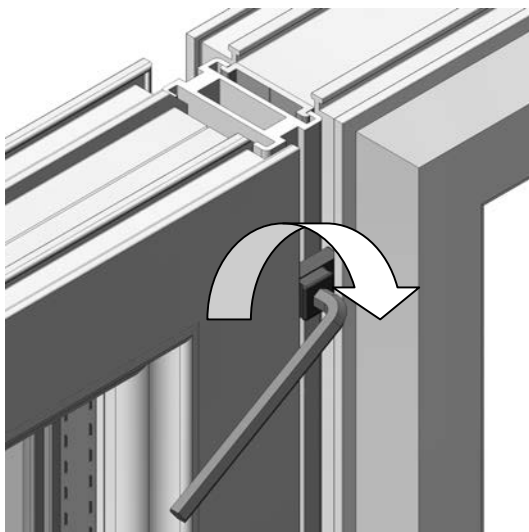
Select a quarter turn button (C105) and the 6mm Allen key (6AK).



The quarter turn buttons (C105) are positioned longitudinally into the gap between the panels and approximately 50mm from the top and bottom faces of the panel.



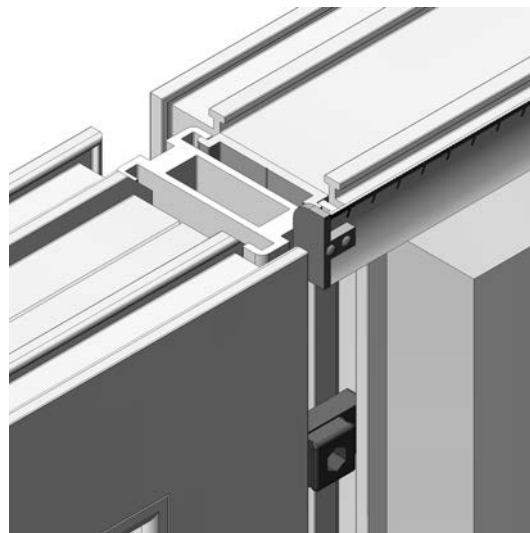
When the quarter turn button (C105) is in position and resting against the 18mm inline coupling (A104), turn the 6mm Allen key (6AK) 90° clockwise. The quarter turn button (C105) will 'click' into position.



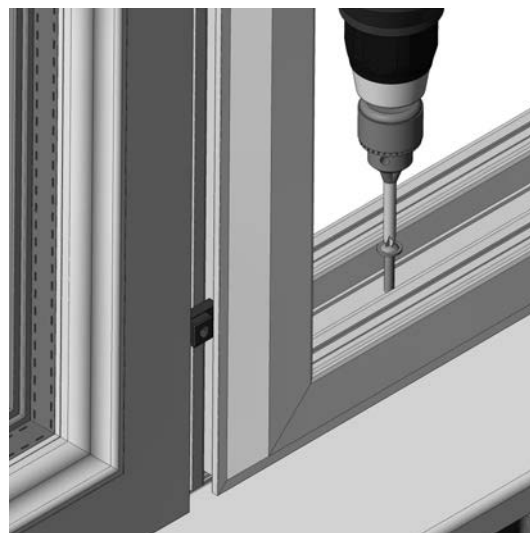
Continue to fit the rest of the quarter turn buttons (C105) into the 18mm inline coupling (A104) as described.

Six quarter turn buttons (C105) per face of the 18mm inline coupling (A104) should be attached on dwarf wall models inside and out, and eight quarter turn buttons (C105) per full height model conservatory, again eight inside and eight on the outside.

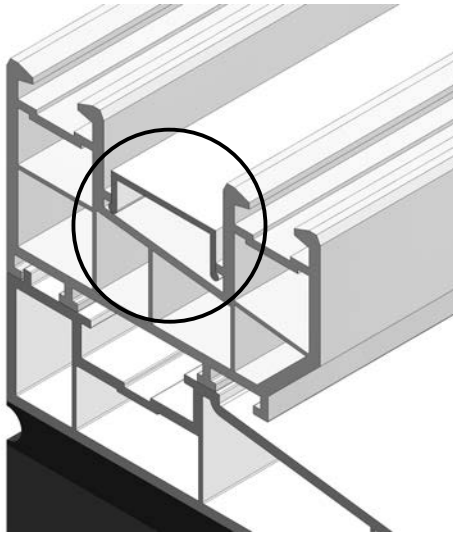
A quick check between the two panels should show 18mm.



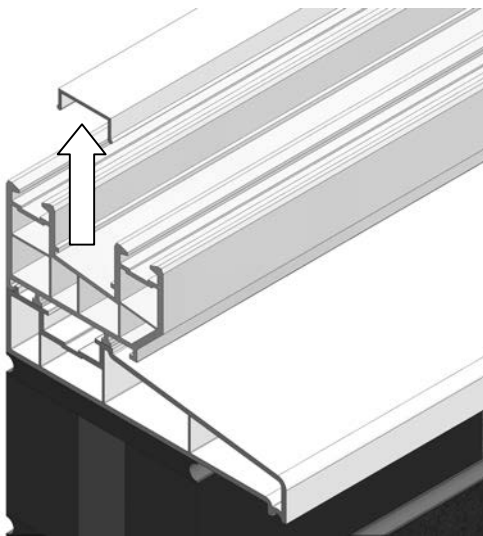
Once level and in the correct position, fix the patio outer frame to the 150mm sill (P106) by use of four 50mm fixing screws (50fix) equally positioned.



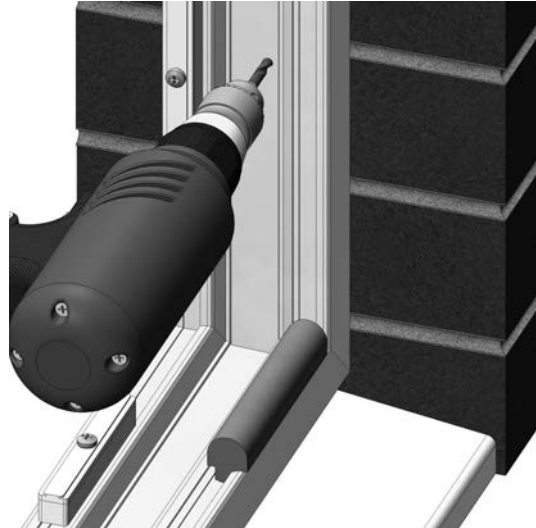
However, you may find that the Drainage Cover (PT19) has been pre-attached to the patio outer frame.



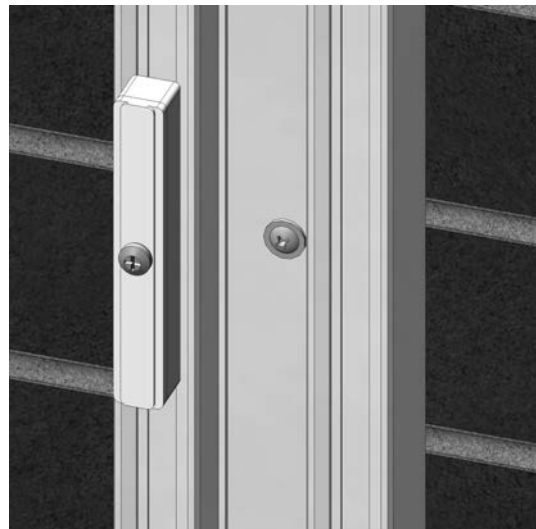
If this is so remove the Drainage Cover (PT19) before you fix the patio outer frame to the 150mm Sill (P106).



In dwarf wall models use the relevant drill bits to pre-drill two holes through the patio outer frame, as shown below and then into sound masonry positioned 100mm in from the top and bottom of the dwarf wall.

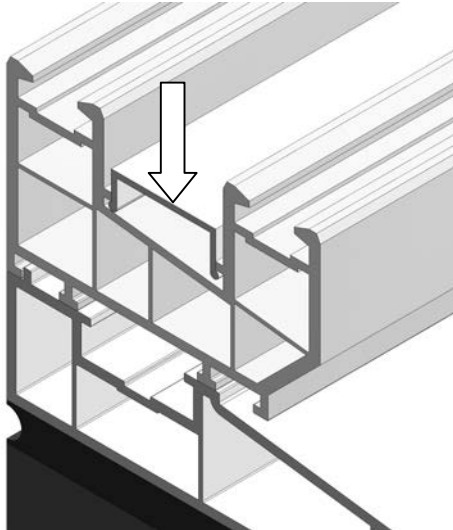


Now permanently fix the patio outer frame to the sides of the dwarf wall with two 100mm fixing bolts (PA6).



Once the patio outer frame has been permanently fixed to the 150mm sill (P106) re-attach the Drainage Cover (PT19).

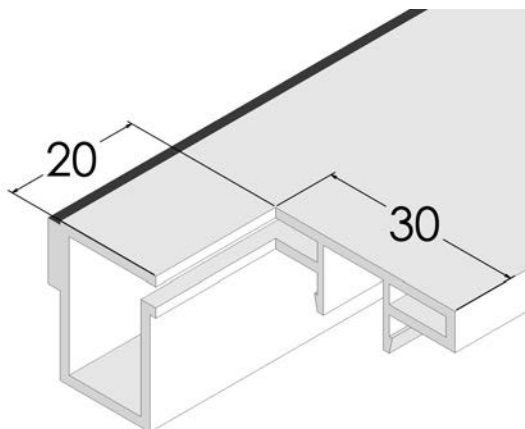
Please note that the longest leg on the Drainage Cover (PT19) fits against the deeper side of the channel in the patio outer frame.



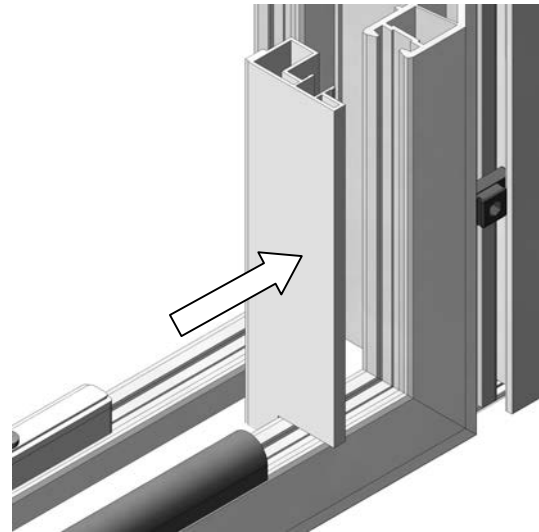
Attaching Patio Trims

Select the Jamb Infill (PT6) which has no tread on its surface and is the correct size to be positioned vertically.

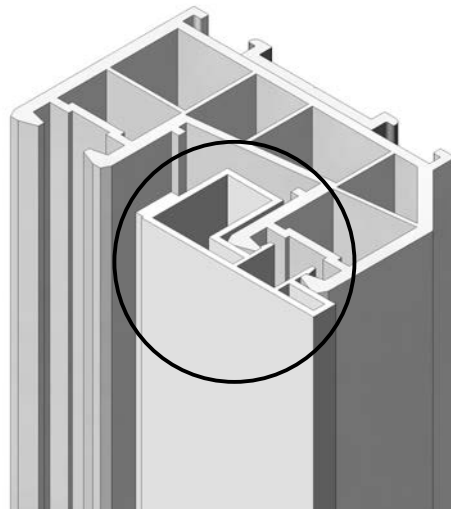
Notch each end to fit into the patio outer frame using a fine tooth saw. The protruding section fits into the central recess of the patio outer frame.



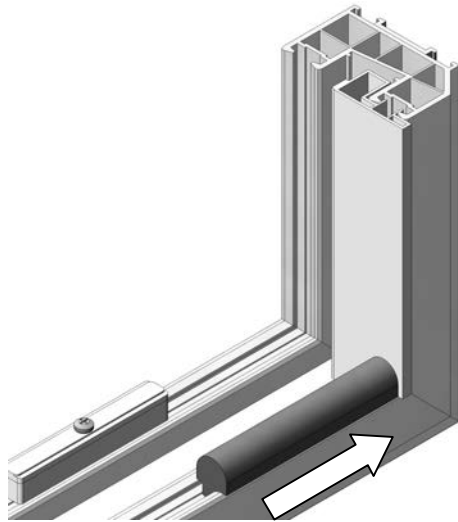
Position this Jamb Infill (PT6) against the right hand patio outer frame as shown in the cut away sectional diagram below.



The Jamb Infill (PT6) interlocks with the patio outer frame as shown in the cut away sectional diagram below.



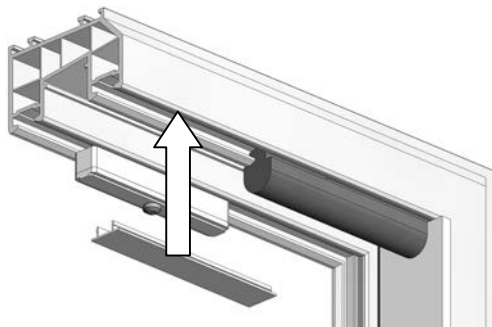
Select the Bump Stop (PT7) and slide it against the Jamb Infill (PT6).



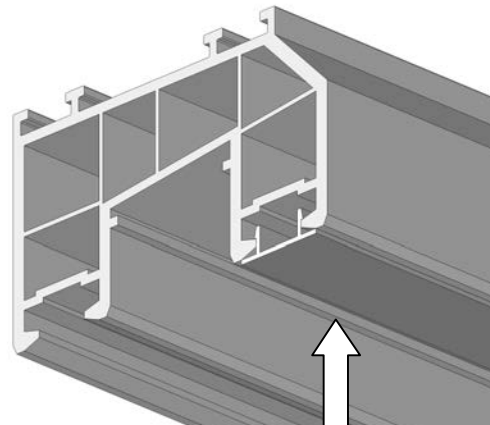
Repeat for the Jamb Infill (PT6) on the opposite side of the patio outer frame.

The next trim to put into position is the Inlay Cover (PT8).

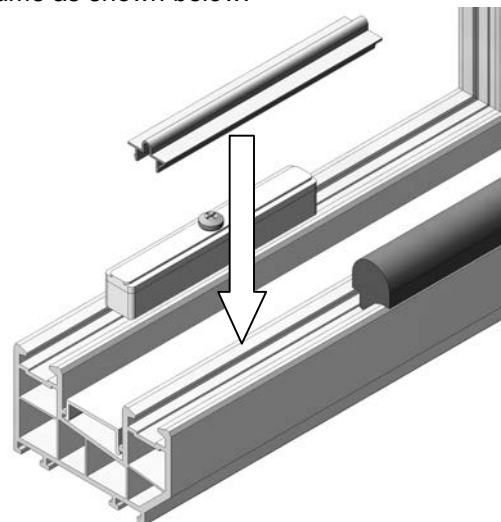
This fits into the groove in the top patio outer frame as shown in the cut away section below.



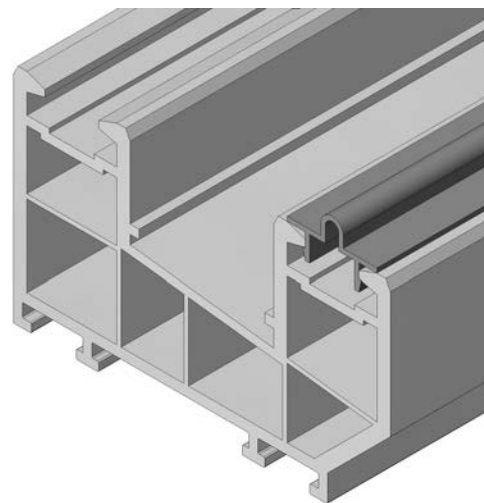
Knock into place with a rubber faced mallet.



Select the Steel Track (PT9) and position over the leg detail in the bottom patio outer frame as shown below.



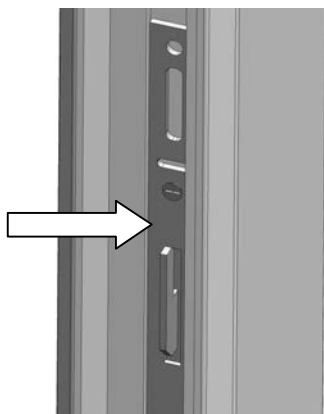
When the Steel Track (PT9) is correctly placed, knock into position using a rubber faced mallet.



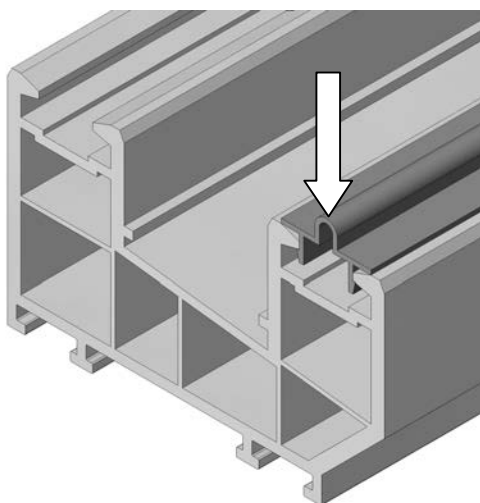
Patio Sash Assembly

Position the sliding patio sash and the fixed patio sash into the outer frame.

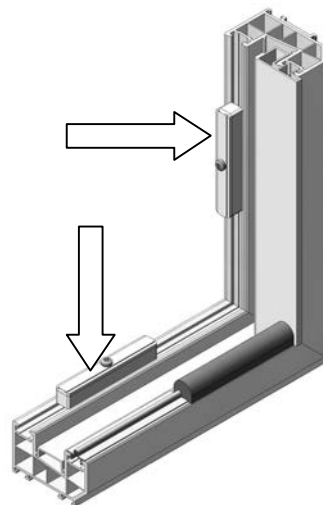
The sliding patio sash is positioned towards the front of the conservatory and can be distinguished by the locking mechanism which is screwed to the left hand side of the patio sash as shown at the top of the next column.



The sliding patio sash will also sit over the Steel Track (PT9).



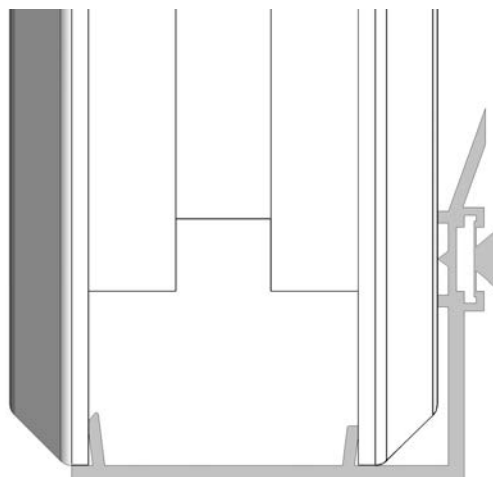
When positioned inside the patio outer frame, the fixed patio sash will slide over the Fixed Pane Spacers (PT10) as shown below.



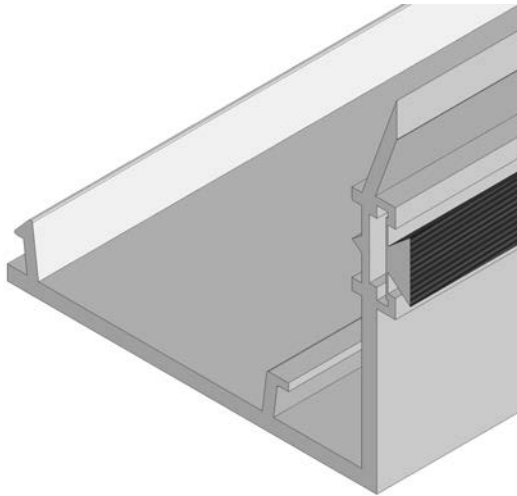
Interlocks

Both patio sashes will have one side cloaked off by the Interlock (PT11) once installation is complete.

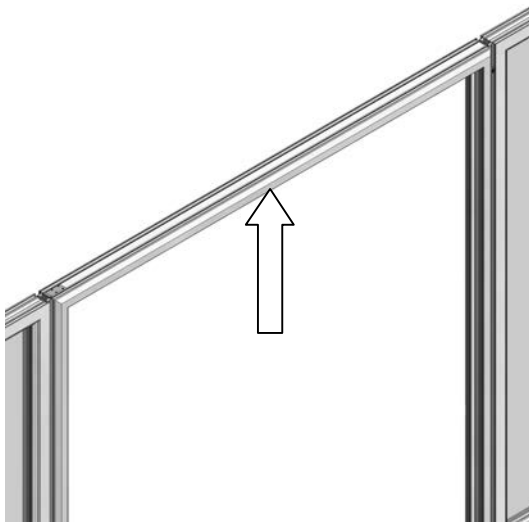
The sliding patio sash has the Interlock (PT11) pre-attached to the non-locking edge. The diagram below shows the position of the Interlock (PT11) on the sliding patio sash.



The Interlock (PT11) for the fixed sash will be temporarily removed so that the fixed sash can be fixed into place.



To ease the positioning of the patio sashes into the patio outer frame it is recommended to ease the top section of the patio outer frame upwards by hand.



When both patio sashes are in position it is recommended to install the eaves beam (RA1).

Fixing the Patio Outer Frame to Eaves Beam

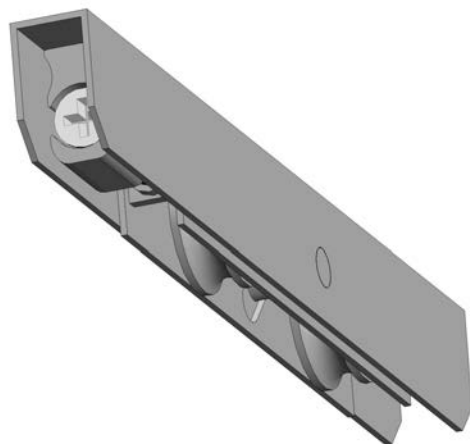
Once the eaves beam (RA1) has been installed as per your conservatory installation guide, use four 70mm screws (70fix) evenly spaced and screw upwards through the patio outer frame and into the eaves beam (RA1) to permanently fix in place.



Sash Roller Adjustment

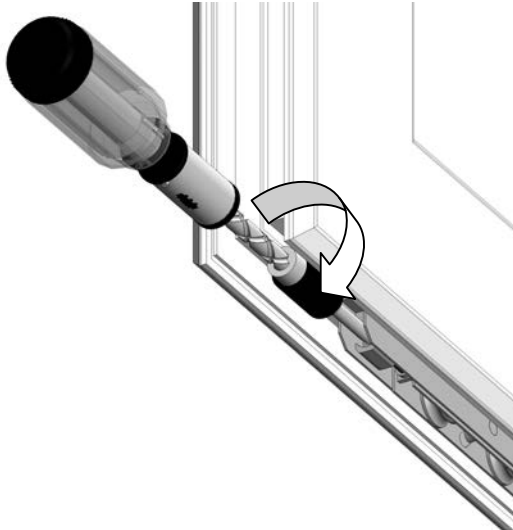
If the sliding patio sash seems to catch the outer frame or does not look to be level, the Sash Rollers (PT15) need to be adjusted.

A Sash Roller (PT15) is located under each end of the sliding patio sash and the screw adjustment can be accessed at each end.

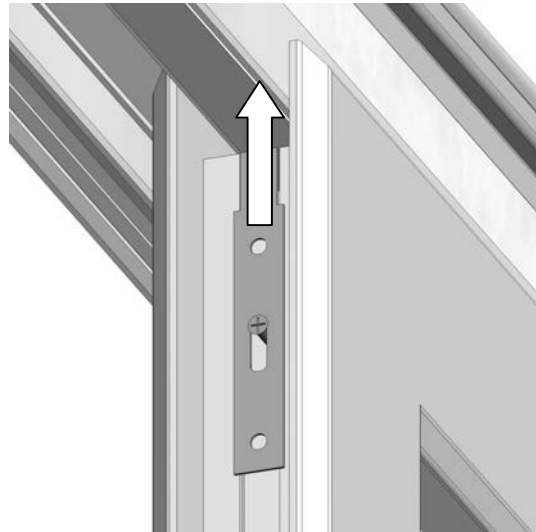


Access can be gained to the Sash Rollers (PT15) by use of a long reach screw driver at each end of the sliding patio sash which will locate into the screw adjustment.

By turning the screw driver clockwise the sliding patio sash will be raised. The sliding patio sash can be lowered by turning the screwdriver counter clockwise.



Loosen the central 4.3 x 25mm Patio Screw (PT5) and slide the Anti-Lift Bracket (PT13) upwards so that the top edge is around 5mm away from the outer frame.



Once in place, permanently fix the Anti-Lift Bracket (PT13) to the sliding patio sash by use of two 4.3 x 30mm Patio Screws (PT5).

Attaching the Anti-Lift Bracket

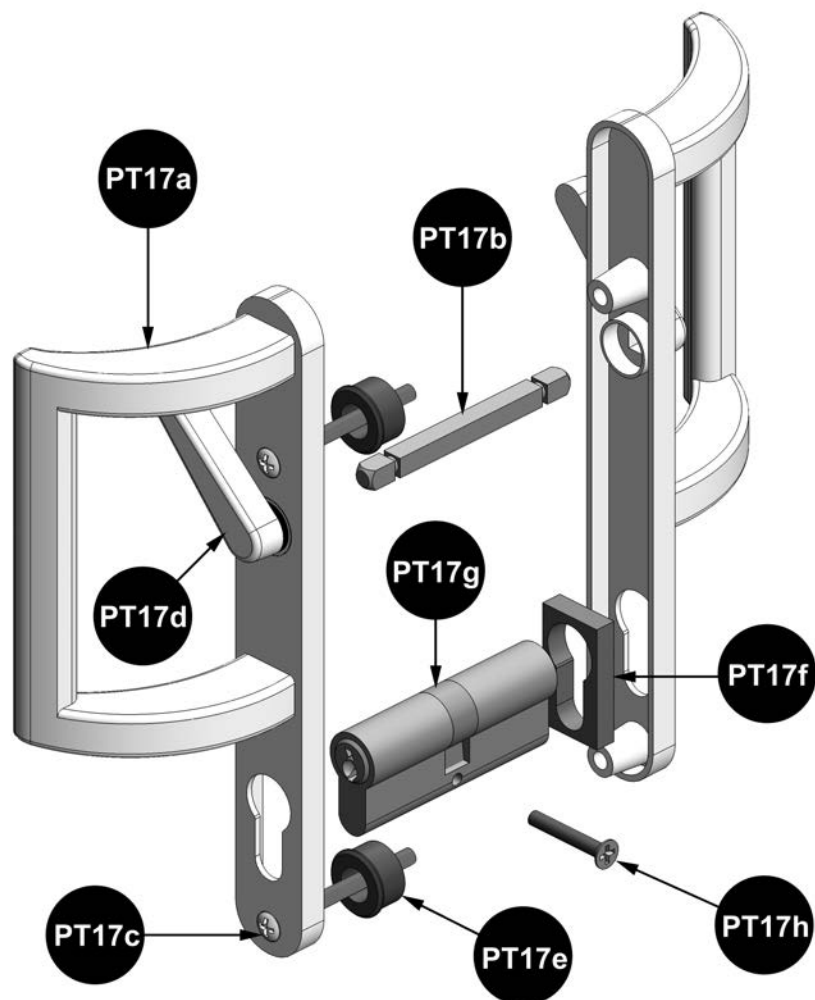
The sliding patio sash has an Anti-Lift Bracket (PT13) which is pre-attached to the left hand side and located above the locking mechanism. This acts as a security device.

The Anti-Lift Bracket (PT13) is held in place by a central 4.3 x 25mm Patio Screw (PT5).



PATIO HANDLE INSTALLATION

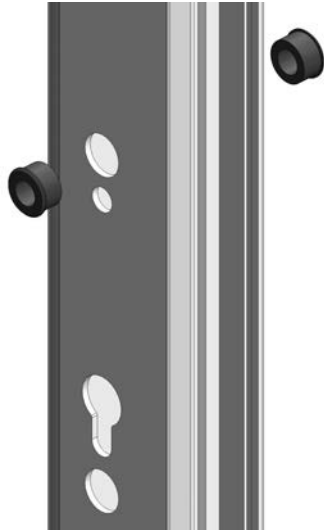
Item No	Item Description	Pack	Comments
PT17a	Patio Handle	E	
PT17b	Spindle	E	
PT17c	Patio Handle Screws	E	
PT17d	Locking Lever	E	
PT17e	Washers	E	
PT17f	Draft Bung	E	
PT17g	Barrel Lock	E	



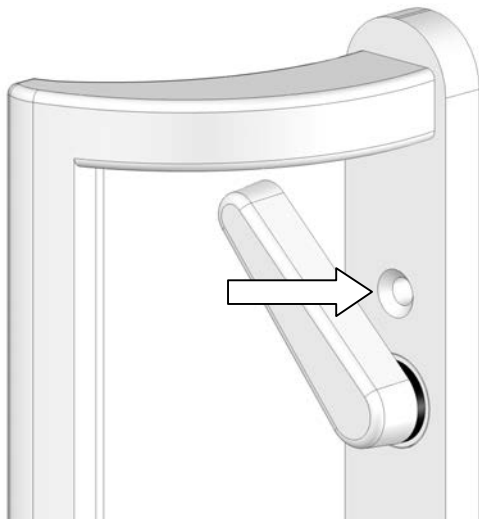
Attaching the Patio Handles

Locate the Patio Handle Sets (PT17a), Barrel Lock (PT17f), Spindle (PT17d) and screws (PT17c/PT17e).

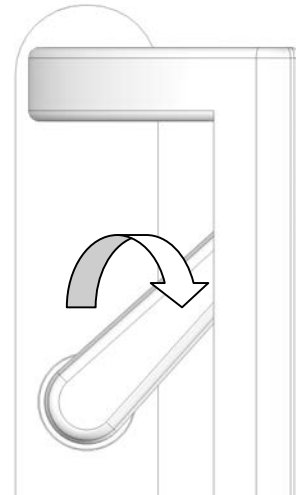
Position the two Washers (PT18), over the top pre drilled holes on the internal and external face of the sliding patio sash.



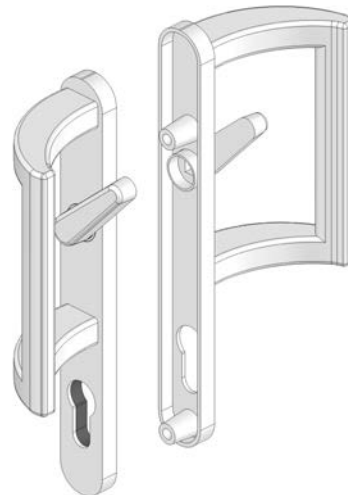
Examine the Patio Handles (PT17a) set. Please note that the internal patio handle set is the one which has screw holes as shown below.



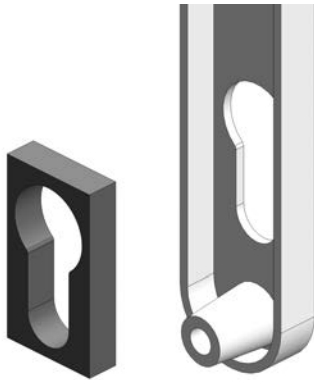
Set the Locking Lever (PT17d) on the outer patio handle to the position as shown below.



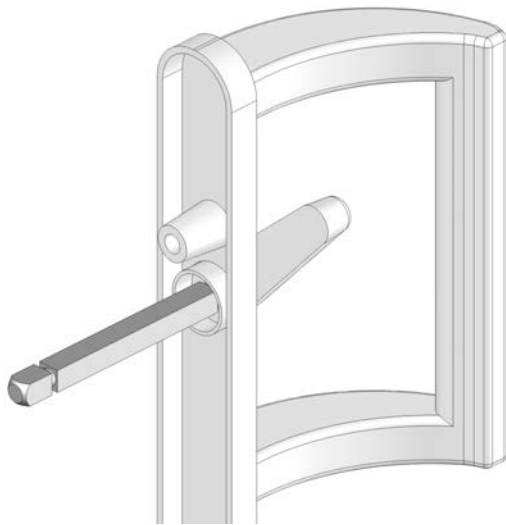
Set the Locking Lever (PT17d) on the internal patio handle to the opposite side so that when placed back to back the levers are mirrored.



Position the Draft Bung (PT17g) into the outer patio handle set.



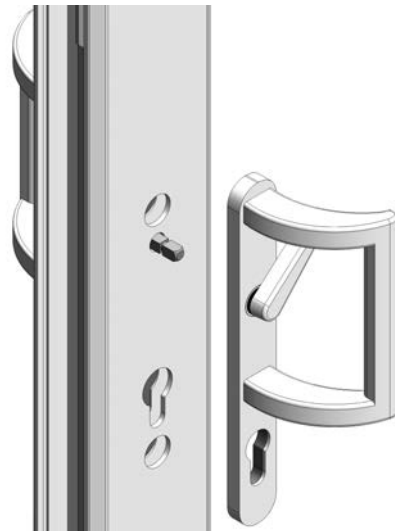
Place the Spindle (PT17e) into the internal patio handle set.



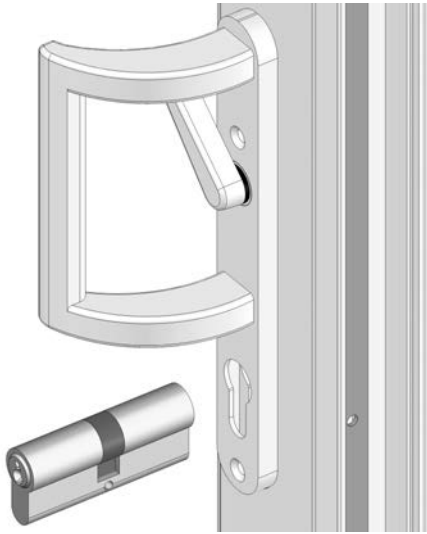
Place the internal patio handle set against the internal face of the sliding patio sash so that the Spindle (PT17e) locates into the spindle hole.



Place the external patio handle set against the external face of the sliding patio sash so that the spindle detail locates over the protruding Spindle (PT17e).

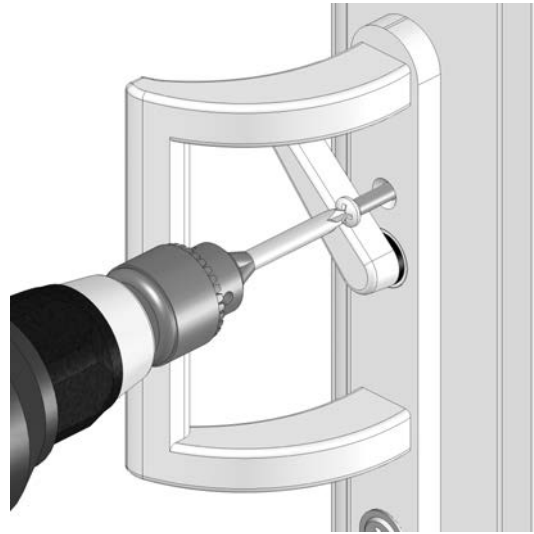


Slide the Barrel Lock (PT17f) through the barrel lock detail on each patio handle set ensuring that it is central to the width of the sliding patio sash.



Finally thread the Patio Handle Screws (PT17c) into the internal patio handle set.

Permanently screw into place.

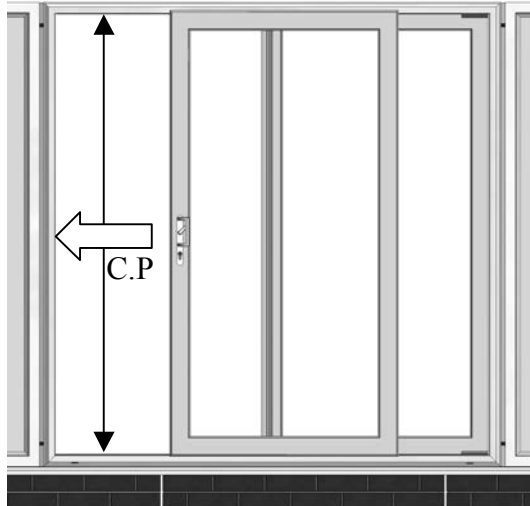


Thread the Barrel Lock Screw (PT17h) through the pre-drilled hole in the sliding patio sash and screw into place.

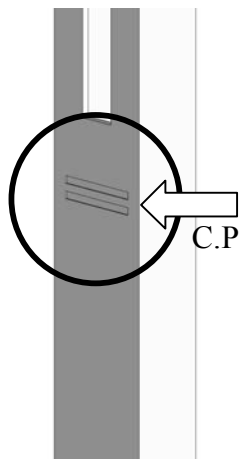


Lining up the Lock Keeps

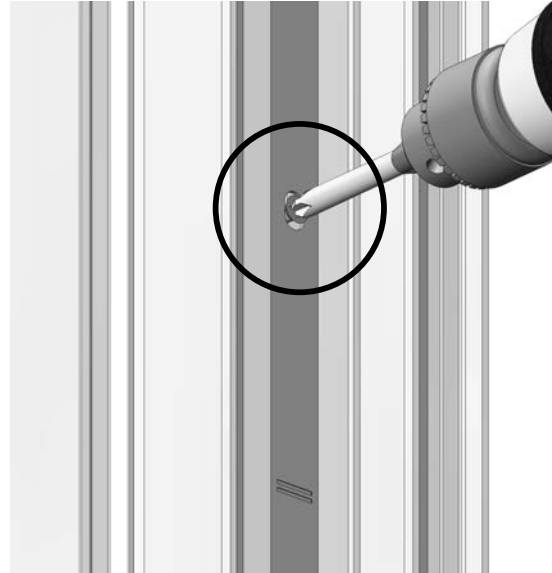
Measure the vertical opening between the patio outer frame and halve the dimension to obtain the central point as indicated by 'C.P.' below



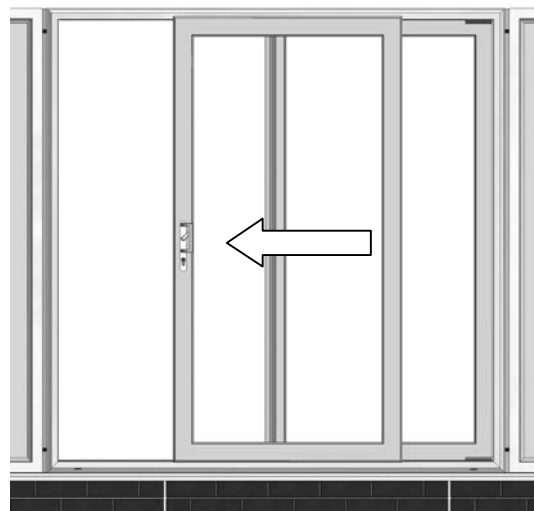
Position the Patio Lock Keep (PT16) so that the two horizontal lines which indicate the centre point of the Patio Lock Keep (PT16) are aligned with your calculated vertical opening centre point.



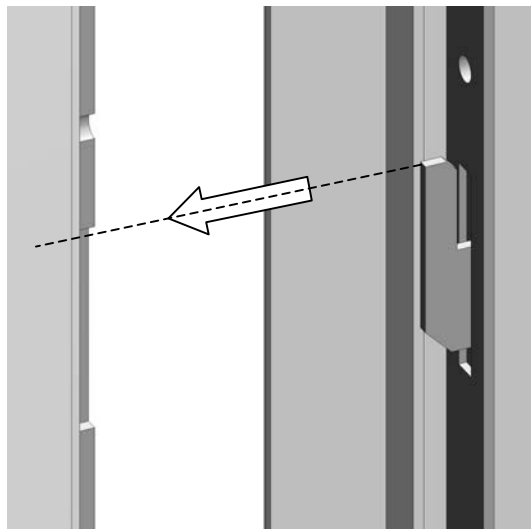
Loosely fix the Patio Lock Keep in place with a 3.9 x 32mm Patio Screw (PT14) through the elongated central holes just above the centre point lines marked on the Patio Lock Keep (PT16).



Position the sliding patio sash around 100mm from the left hand outer frame.



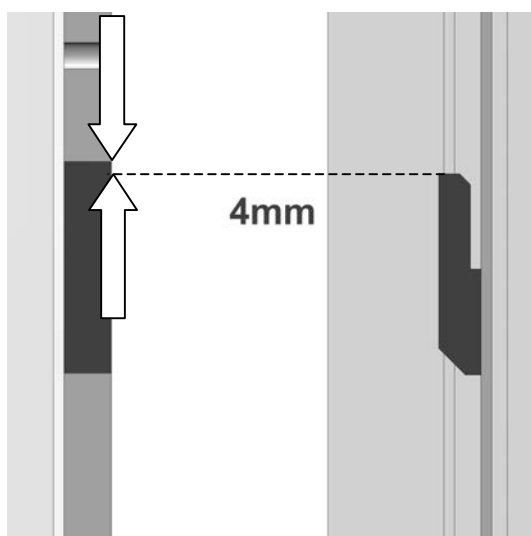
Project a line from the top of the locking hooks to the Patio Lock Keep (PT16) preferably by use of spirit level.



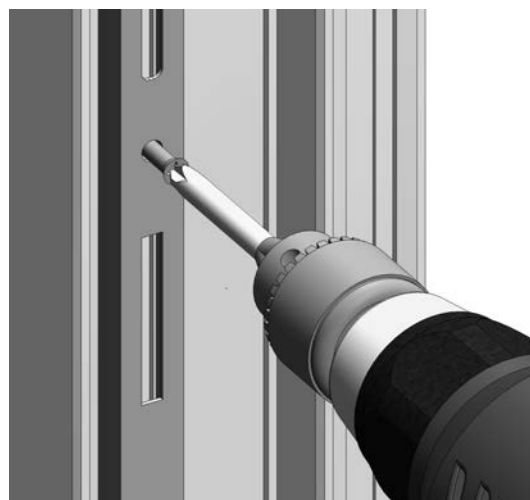
The top of the locking hooks should be around 4mm lower than the top of the Patio Lock Keep (PT16) in which it locates into.

If the Patio Lock Keep (PT16) requires adjusting simply loosen the central 3.9 x 32mm Patio Screw (PT14) in the Patio Lock Keep (PT16) and lower or higher accordingly.

Adjust the Patio Lock Keep (PT16) so that the top of the locking hooks on the sliding patio sash are around 4mm below the top of the Patio Lock Keep (PT16) holes as shown in the cross section diagram below.



Re-tighten the central 3.9 x 32mm Patio Screw (PT14) then permanently fix the Patio Lock Keep (PT16) to the patio outer frame by using the remaining 3.9 x 32mm Patio Screws (PT13) supplied into the pre drilled holes in the Patio Lock Keep (PT16).



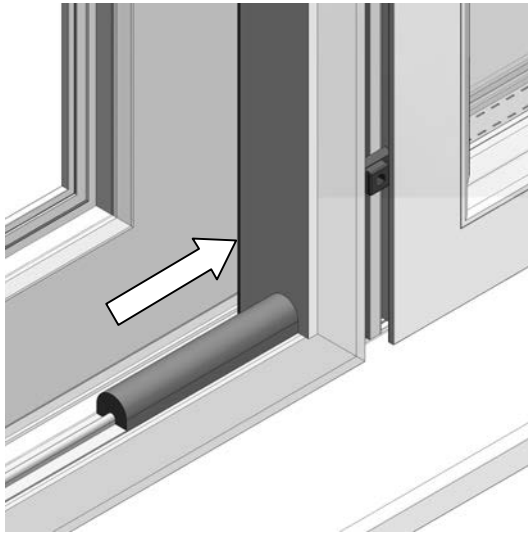
Check once again that the hooks on the sliding patio sash do not collide with the location gaps in the Patio Lock Keep (PT16) by positioning the sliding patio sash fully into place.

The ends of the Patio Lock Keeps (PT16) are fitted with the triangular trims which are positioning into the ends of the Patio Lock Keeps (PT16) and fixed by the end 3.9 x 32mm Patio Screws (PT13).



Attaching the Fixed Patio Sash

Slide the fixed patio sash against the outer frame.



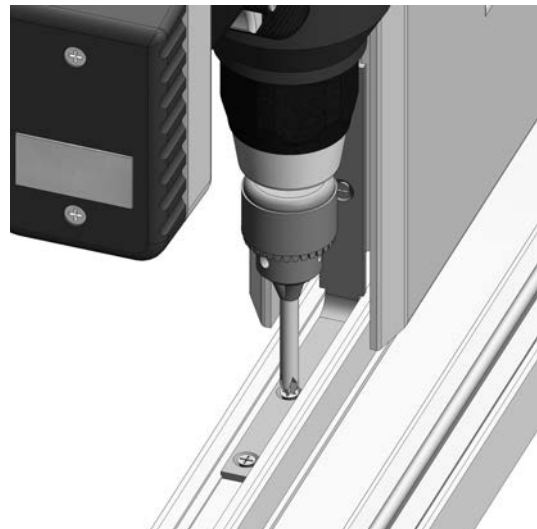
Locate the Fixed Pane Cleat (PT12) against the fixed patio sash. The widest part of the Fixed Pane Cleat (PT12) is located against the fixed patio sash and the thin part into the patio outer frame.



Fix the wide part of the Fixed Pane Cleat (PT12) to the fixed patio sash by use of the 4.3 x 30mm Patio Screws (PT5).



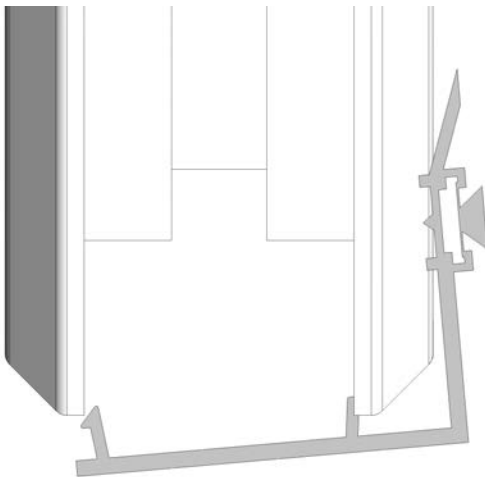
Ensure that the fixed patio sash is tight against the right hand outer frame then permanently secure the Fixed Pane Cleat (PT12) to the patio outer frame by use of the 4.3 x 30mm Patio Screws (PT5).



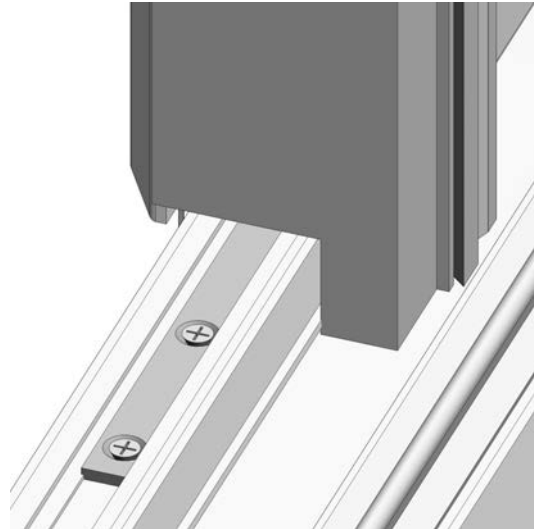
Repeat the procedure to fit the remaining Fixed Pane Cleat (PT12) to the top of the fixed patio sash.



Reattach the Interlock (PT11) to the left face of the fixed sash by locating the right hand leg detail into the fixed patio sash.



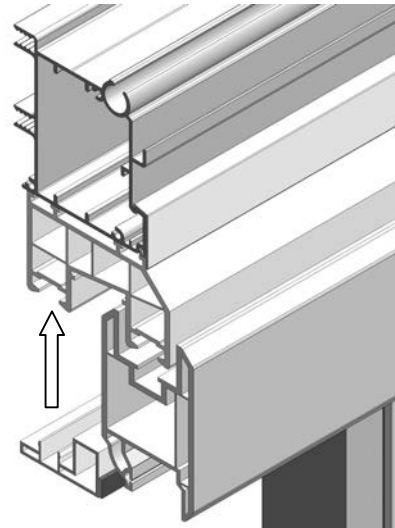
Use a rubber faced mallet to knock into place.



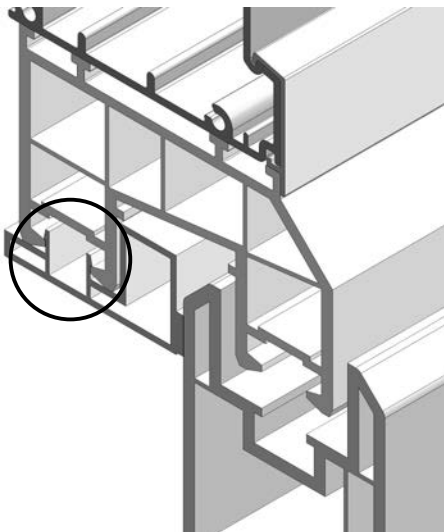
Head and Foot Infill Trims

Select the Jamb Infill (PT6) which is cut to suit the gap between the fixed patio sash and the left hand outer frame.

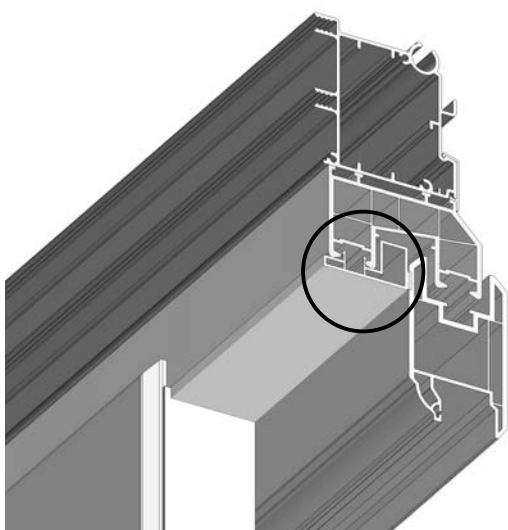
Position against the inside face of the sliding patio sash and move upwards towards the top piece of patio outer frame.



When the Jamb Infill (PT6) is in position, knock into place by use of a rubber faced mallet. The leg detail of the Jamb Infill (PT6) will interlock with the leg detail of the patio outer frame as shown below.

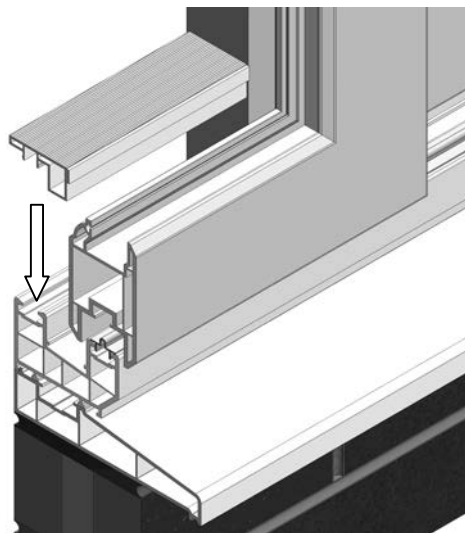


The jamb infill (PT6) will fit tight against the Interlock (PT11) on the left face of the fixed sash. The diagram below shows the view from inside the conservatory.

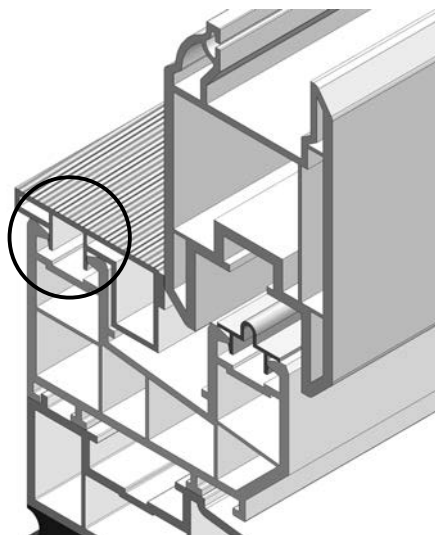


The Jamb Infill (PT6) which fits between the fixed patio sash and the outer frame acts as the threshold and is distinguished from the other Jamb Infills (PT6) by the tread pattern on its surface.

Position the Jamb Infill (PT6) against the internal face of the sliding patio sash and over the bottom piece of patio outer frame.



When the Jamb Infill (PT6) is in position, knock into place by use of a rubber faced mallet. The leg detail of the Jamb Infill (PT6) will interlock with the leg detail of the patio outer frame as shown below.



The jamb infill (PT6) will fit tight against the Interlock (PT11) on the left face of the fixed sash. The diagram below shows the view from inside the conservatory.

