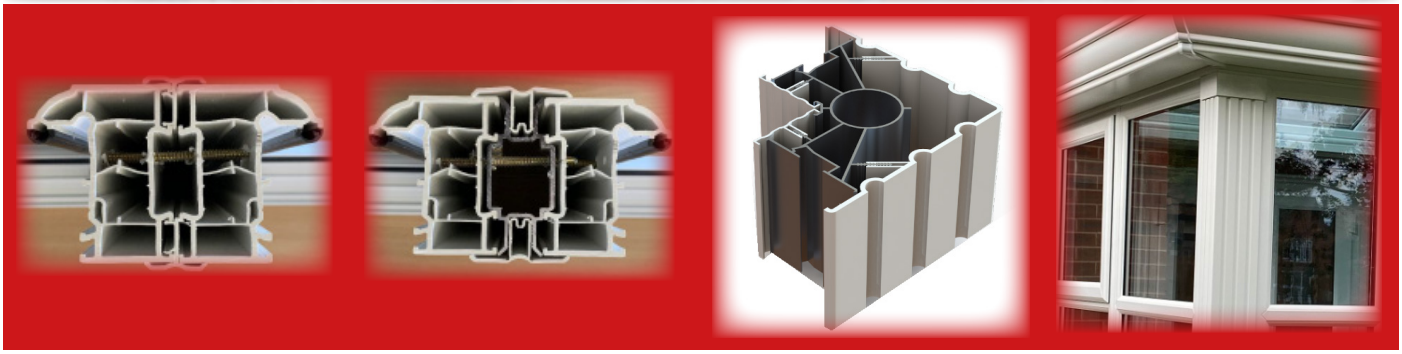
ConservatoryLand®

More light. More space. More living.



Conservatory Frame & Decorative Pilaster

Installation guide

Contents

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Precautions

It is recommended that protective gloves are worn.
We recommend using the following Personal Protective Equipment where required:
Safety glasses and hearing protection when drilling.
Dust mask if dust is likely to be generated.
Beware of sharp edges.

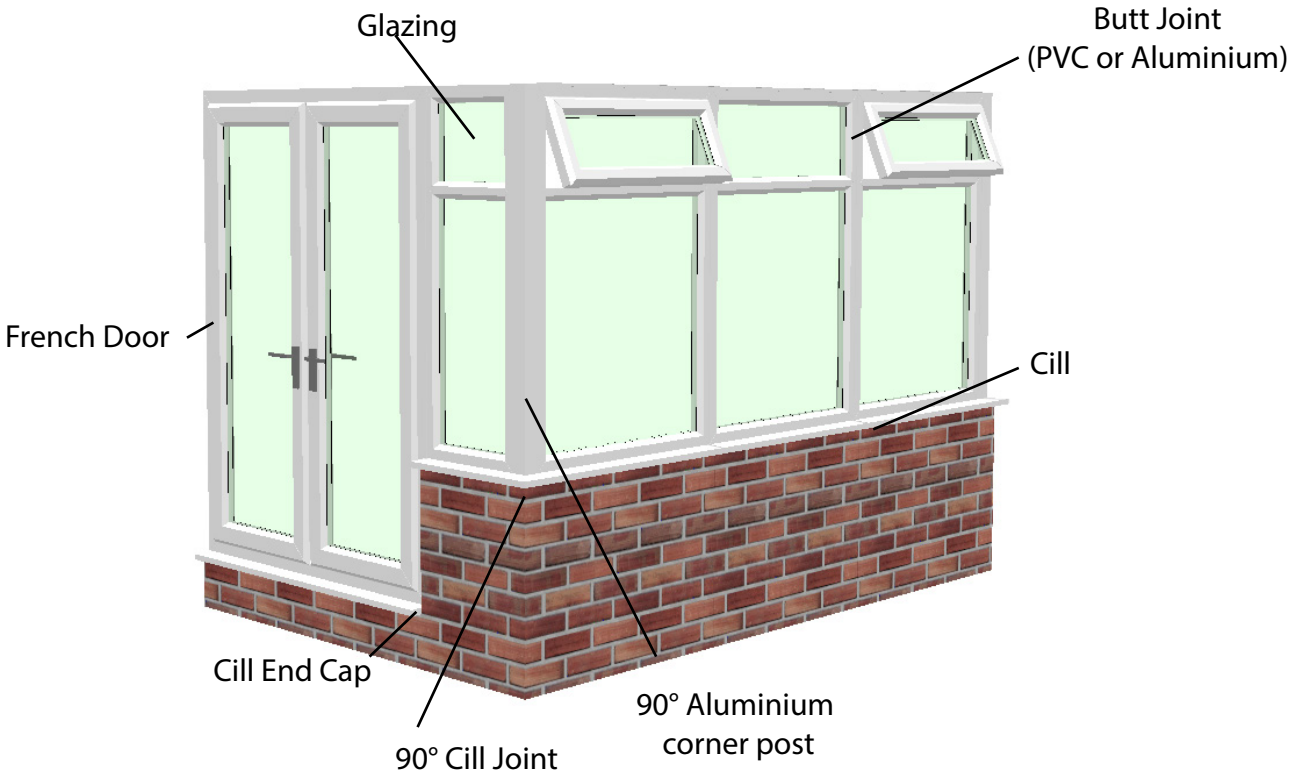
Recommended materials and accessories

All fixing bolts, screws, glazing packers, brick slip adhesive, brick slip mortar and SMX Roof Glass Silicone is provided. (If the conservatory has self cleaning roof glass we supply a specialised silicone that does not damage the self cleaning coating on the glass units).

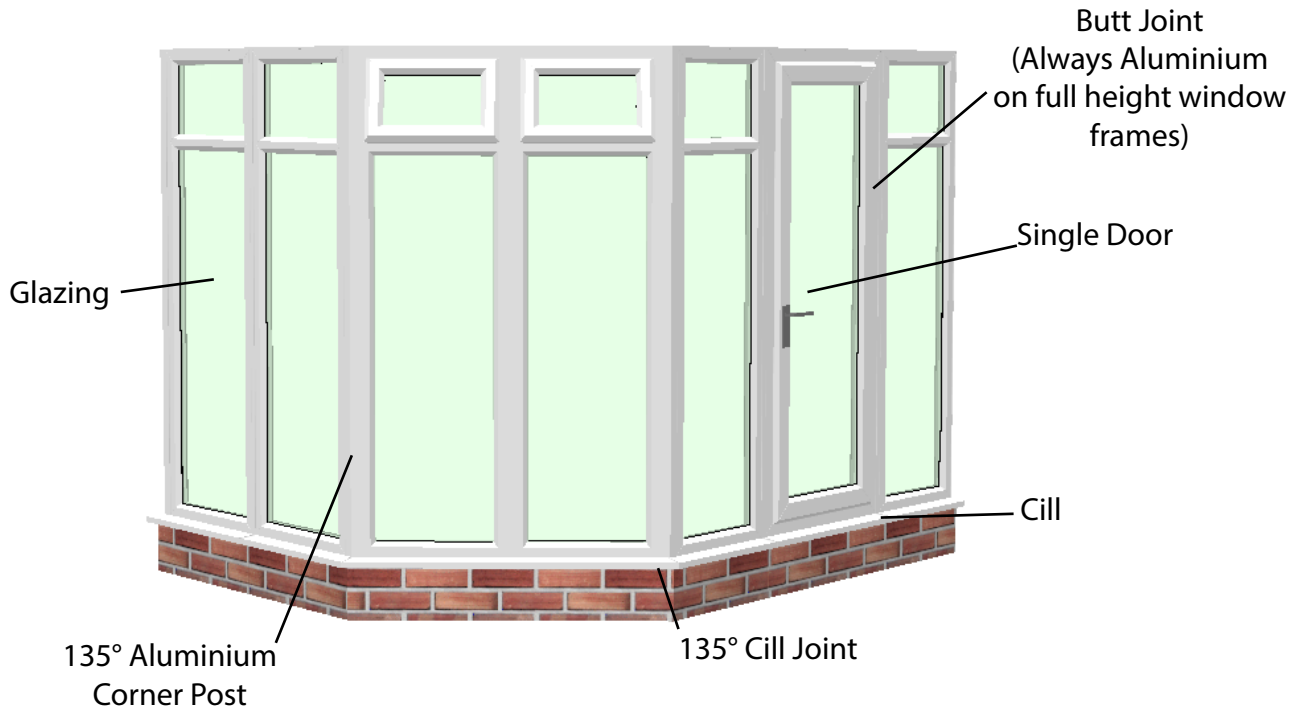
	Base	Frames	Roof
Sealants			
Silicone (Clear for sealing between & under wall boxes - colour of choice for required frame finish).	✓	✓	✓
Lead Sealant - (Sand and cement if pointing the lead work).			✓
Building Materials & Accessories.			
Foundation Blocks - 440mm x 215mm x 355mm.	✓		
Post crete - 2 x Bags per pad.	✓		
Code 4 Lead (Size & Length to suit the job)			✓
Rubble bags to remove waste.	✓	✓	✓
Roll of visqueen - To protect the finished floor.	✓		
Timber (Lean To Only) 50mm x 50mm to be used.			✓

Recommended tools and equipment	Base	Frames	Roof
Power Tools			
SDS Drill	✓	✓	✓
Impact Driver or Cordless Drill.	✓	✓	✓
Circular Saw. (For cutting the chipboard flooring).	✓		
4" Angle Grinder. (Mortar cuts for lead work).			✓
Breaker/ Kango. (Only required if you are breaking through concrete for required pads)	✓		
Hand Tools			
Spanner Set.	✓		
Socket Set.	✓		✓
1800mm Spirit Level.	✓	✓	✓
600mm Spirit Level.	✓	✓	✓
Hand Saw. (To cut insulation sheets - long craft knives can also be used).	✓		
Marker Pen. (To mark out the insulation cuts).	✓		
Tape Measure.	✓	✓	✓
Glazing Mallet.		✓	
Glazing Paddle.		✓	
Silicone Gun.	✓	✓	✓
Sharp putty knife or similar. (For removing frame glazing beads).		✓	
Lead Beater.			✓
Small trowel and pointing tool. (For pointing brick slips).	✓		
Spade.	✓		
Wheelbarrow.	✓		
Pick. (If you need to break up any difficult terrain).	✓		
G-Clamps. (To secure frames / ring beams / corner posts etc. when fixing.)		✓	✓
Accessories			
8mm SDS Drill Bit. (For securing base sections to the house wall).	✓		
6.5mm SDS Drill Bit. (For securing wall boxes / windows / wall plates to the house wall).	✓	✓	✓
4mm HSS Drill bits. (For securing wall boxes and flooring - Multiple required).	✓		
T30 Torx Bits. (For direct to brick fixings).	✓	✓	✓
Pozi Drive Bits.	✓	✓	✓
56mm hole cutter. (For downpipe spigot drill & fix adaptor.			✓
PVA Glue. (Gorilla Glue or similar for floor joints).	✓		
Solvent Cleaner. (NOT to be used on foiled frames or any self cleaning glass).		✓	✓
Glass Cleaner & Paper Tissue Roll.		✓	✓
Super Glue & Activator		✓	✓

Frame parts overview - 90° corner example



Frame parts overview - 135° corner example



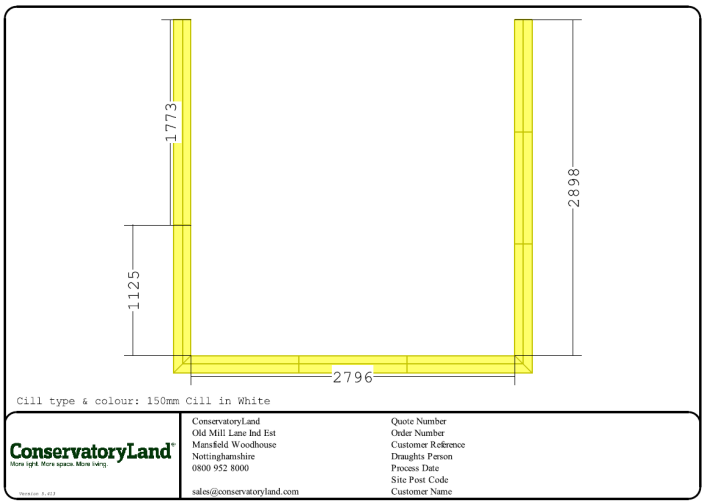
Full frame installation example

Click on, or scan the QR code on the right to be taken to an example frame installation on our YouTube page. The example is of an Edwardian conservatory with Dwarf walls but the principles of fixing frames together is relevant to most conservatory types.

Click or scan

Instruction drawings required

The two main drawings you will need when installing your frames are detailed in the examples below.

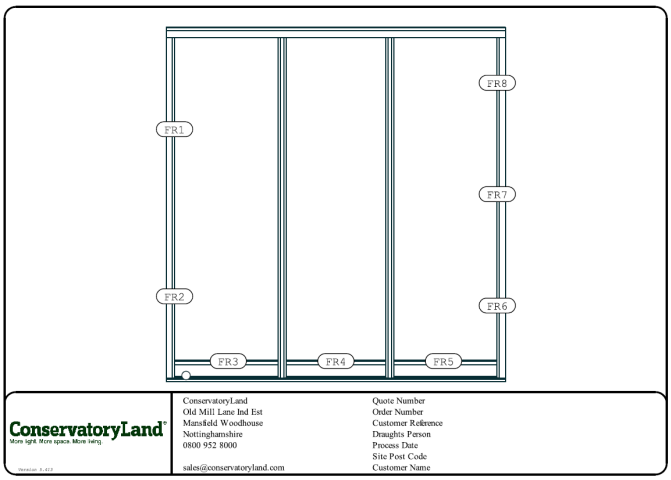


Cill Plan

This is a plan view (birds eye) view of your cills and sizes. The sizes are shown as internal frame sizes - The inside edge of the cills.

Frame Layout Guide

This is a plan view (birds eye view) of your frame locations. You can find the frame number on the outer edges of your window or door frame.

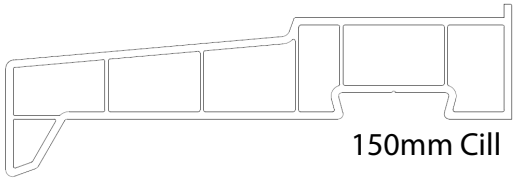


You will also find as part of your instruction document drawings of your frames with sizes on, a page showing the size and quantity of any joints or couplers, and ancillary and fixings list.

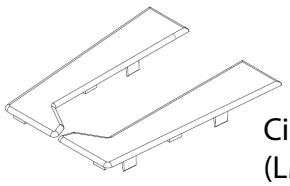
Fitting the cills

Click or scan

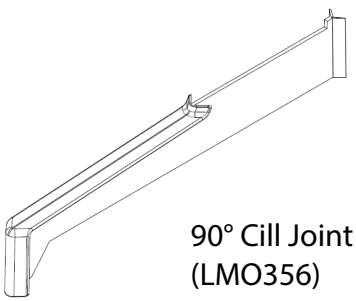
Below are cross sections of the parts associated with fitting your cills.



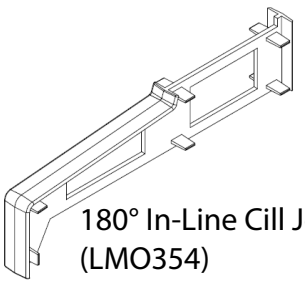
150mm Cill



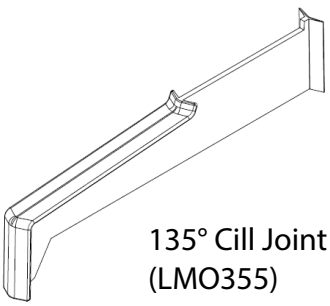
Cill End Caps (pair)
(LMO365)



90° Cill Joint
(LMO356)



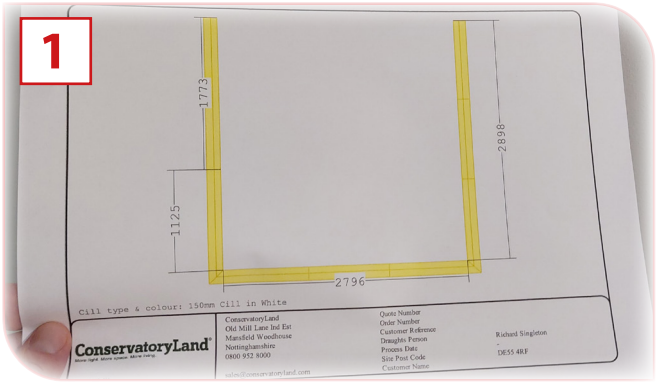
180° In-Line Cill Joint
(LMO354)



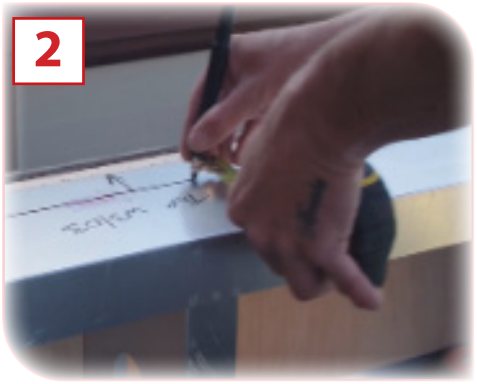
135° Cill Joint
(LMO355)

Fitting the cills - continued

The example shown is for a conservatory with dwarf walls. Cills are fitted the same way for conservatories with full height frames without walls.



Refer to the Cill Plan to ensure you position the cill`s correctly (Pic 1). This can be found as part of your instructions that have been emailed to you.



Mark a line 100mm from the outer brick slip or 125mm from the internal wall or base edge (Pic 2). This will ensure your cill overhangs the wall or base floor by 50mm.

Run a line of silicone along the marked line. Once the cill is placed in position, this sealant will ensure a watertight seal. (A secondary seal will be required externally later).

If you are fitting a cill directly to the base, ensure a line of silicone is used. (Pic 3).

Fix any required cill end caps and/or corner joints using Super Glue. (Pic 4). (Be careful to not get any glue on final visible areas).

When the corner joint is fitted, run a line of silicon along the joint of the upper tier of the cill. (Pic 5). (Not the bottom tier)

Before placing a window or door frame on to a cill, you must ensure a further line of silicone is gunned near to the back lip of the cill. (Pic 6).

The end of a cill that meets a house wall will also require sealing with silicone. (Pic 7). Indicated in Red before fitting any frames.

Fitting the frames

T30 Torx bit (Not supplied)

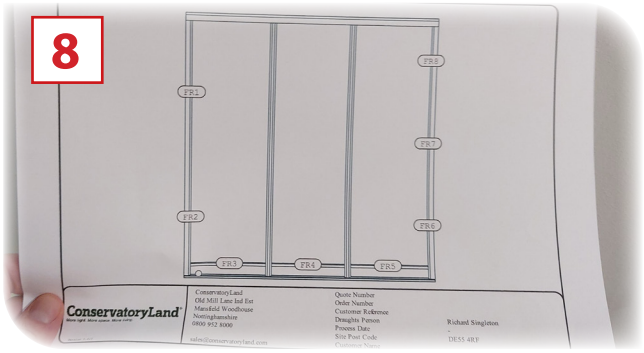
100mm direct to brick fixings

150mm direct to brick fixings

70mm self-drilling screw

Fixings required.
Fixings are found in the bag marked with **blue** tape.

Click or scan

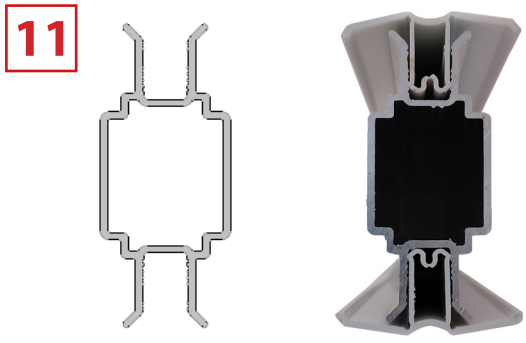


Check the Frame Plan (Pic 8) to ensure you know where all the frames are going to go. The frames are numbered and the Frame Plan is a birds eye view of your conservatory.

Start with a frame that adjoins your house wall on the left hand side. Ensure the frame is level using packers if necessary (Pic 9). Please note the glazing beads should always be on the inside.

Once the frame is in the correct position it needs to be fixed to the house wall. Use an SDS Drill with a 6.5mm SDS drill bit. It is very important that you ensure you drill a minimum of 150mm away from any welded joint and no further than 500 mm between fixing points. If the first frame is a door, use 120mm fixing bolts. If the first frame is a window, use 100mm fixing bolts. Be careful to not over tighten and distort the frame. If this happens, simply loosen the frame fixing bolt. (Pic 10).

Frame joints

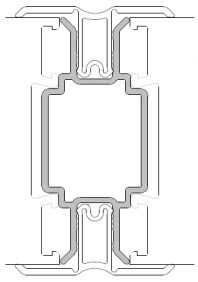


Aluminium butt joint. (Part code: LAN211).

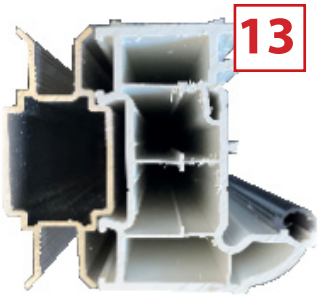
PVC butt joint . (Part code: LAN103).

When the first frame is in place, you need to fit the next frame to it. This is done by using a coupler and 70mm screws. There are two types of coupler depending on the size and design of your conservatory. An Aluminium Coupler (pic 11) and the more common UPVC Coupler (Pic 12). Do not worry about the rest of the frames being vertically level as you work along. This will be resolved when you secure the frames to the roof ring beam. Just ensure the frames you attach to a house wall are level.

Fitting an aluminium coupler



Joint Assembly



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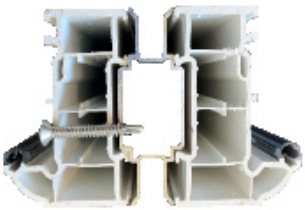

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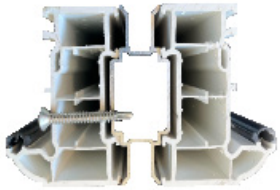
Click or scan

An aluminium coupler is designed to sit in the rebate of the outer frame as shown in (Pic 13). Fit the coupler in place and bring your next frame up to it in the same position (Pic 14).
If a frame has a top opening window there will be a weld crease that may obstruct the position of the coupler. (Pic 15) If this is the case, carefully remove it using a Multi-tool or sharp chisel.



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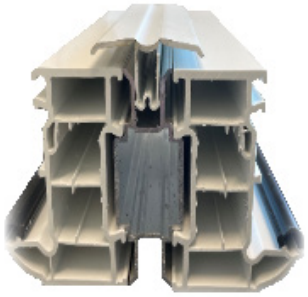
Use a clamp to keep the frames in position and secure by screwing through both sides of the frame into the coupler (Pic 16).
Again, you must ensure any screws are a minimum 150mm away from a welded joint and no further than 500mm apart. Repeat this process for all frame sections.

Once all the couplers are in position you need to insert the internal and external finish trims. Firstly, remove the protective frame tape. Use a nylon or rubber mallet to knock the finish trims into place. (Pic 17) & (Pic 18).

17



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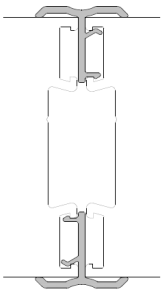
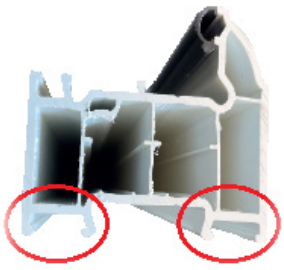
Fitting a UPVC coupler



Joint Assembly

19



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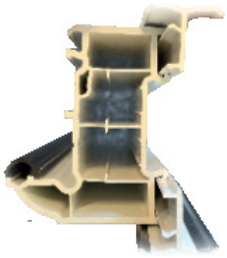


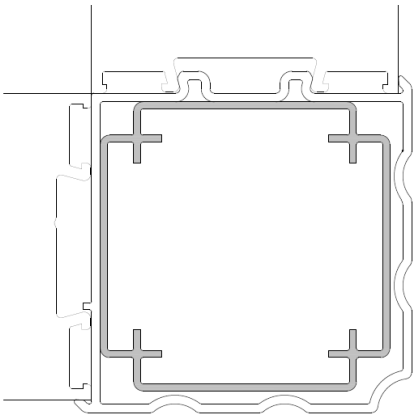
21

Click or scan

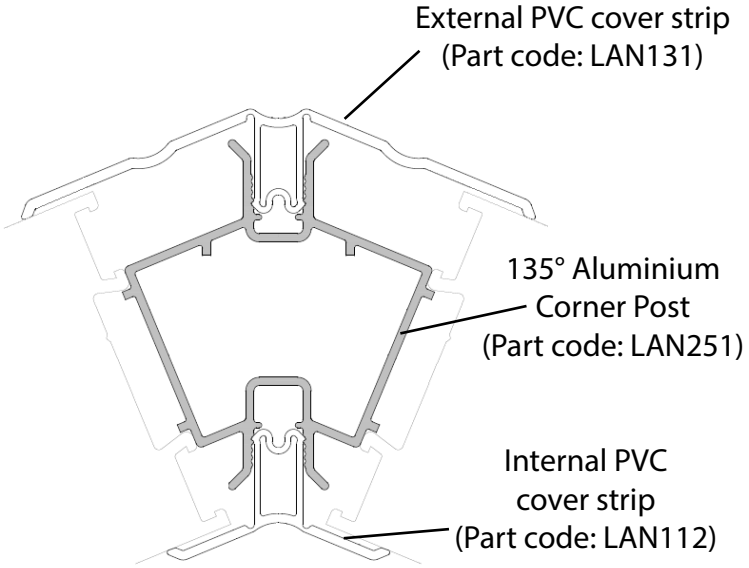
Firstly remove the protective frame tape in the area the coupler will go. The two UPVC couplers required snap into two chambers of the frame profile. (Pic 19). If a frame has a top opening window there will be a weld crease that may obstruct the position of the coupler. (Pic 18). If this is the case, simply fit the couplers to the adjoining frame that does not have a top opener. Firmly push the couplers into the chamber (Pic 20). When both couplers are in position, simply insert the next frame into them and secure the two frames together using the 60mm screws provided (Pic 21) - Grey Coupler used to show finish).

Fitting the corner posts

Click or scan



90° Aluminium corner post
(Supplied pre-assembled with PVC cover).



135° Corner Post assembly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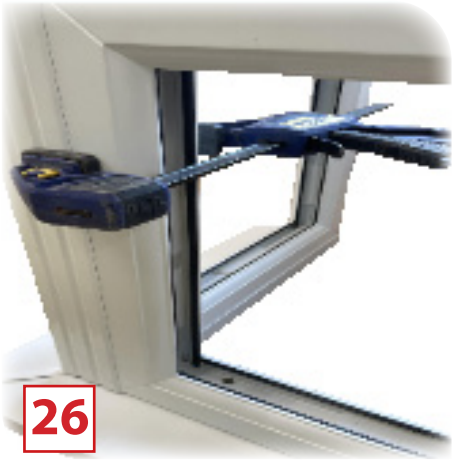
23


24

When you come to the 90 degree corner or 135 degree angle return depending on the design of your conservatory, you will need to secure the corner post. Firstly you must ensure the frame is fitted to the correct point as shown. (Pic 22). If your frame falls short of the mitre, there will be a gap between the frame and the corner post.(Pic 23). If the frame is fitted beyond the mitre, the corner post will protrude too far. (Pic 24). Once your frames are lined up in the correct position, they need to be screwed to the cill using the 50mm screws. This will ensure the frames do not move when installing the corner post.


25


26

Place the corner post against the window frame (Pic 25). Use a clamp to keep the frame and post in position and screw together using the 60mm self tapping screws provided. (Pic 26).

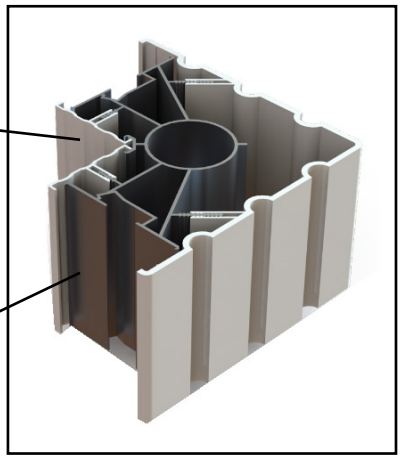
Once the corner post is secure, install the rest of your frames as before.

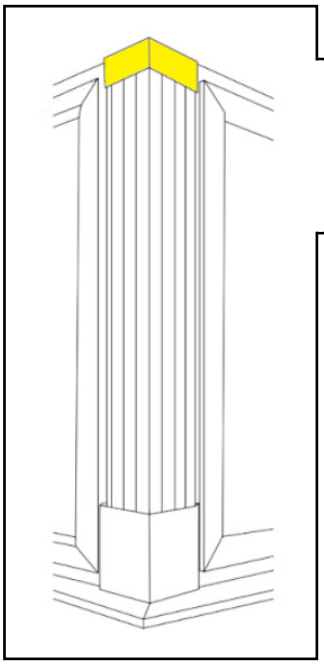
Decorative Pilaster overview

Where possible, your Pilasters will be supplied **fully assembled and ready to install**. If any cladding parts do reqire fitting, they simply clip in, and you should fully famailiarise yourself with its contruction using the diagrams below.

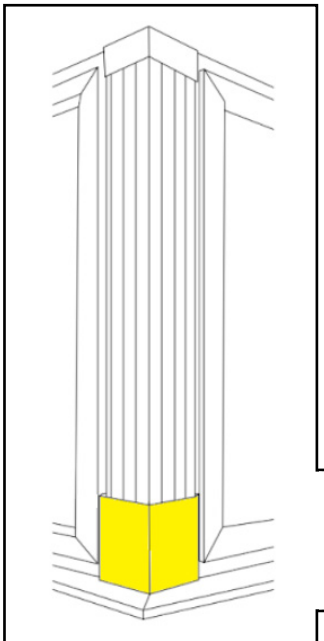
Internal Trims. There are two of these identical trims which clip in each side of your Decorative Pilaster.

90° Aluminium Pilaster body

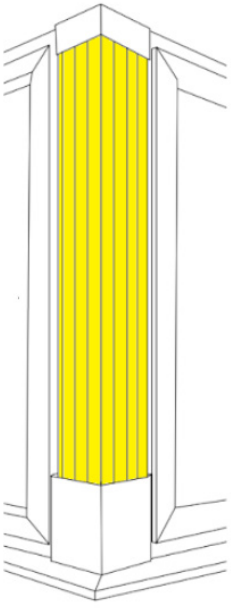




75mm Decorative Plinth
This plinth, the smaler of the two decorative plinths, always fits to the top of the Pilaster.



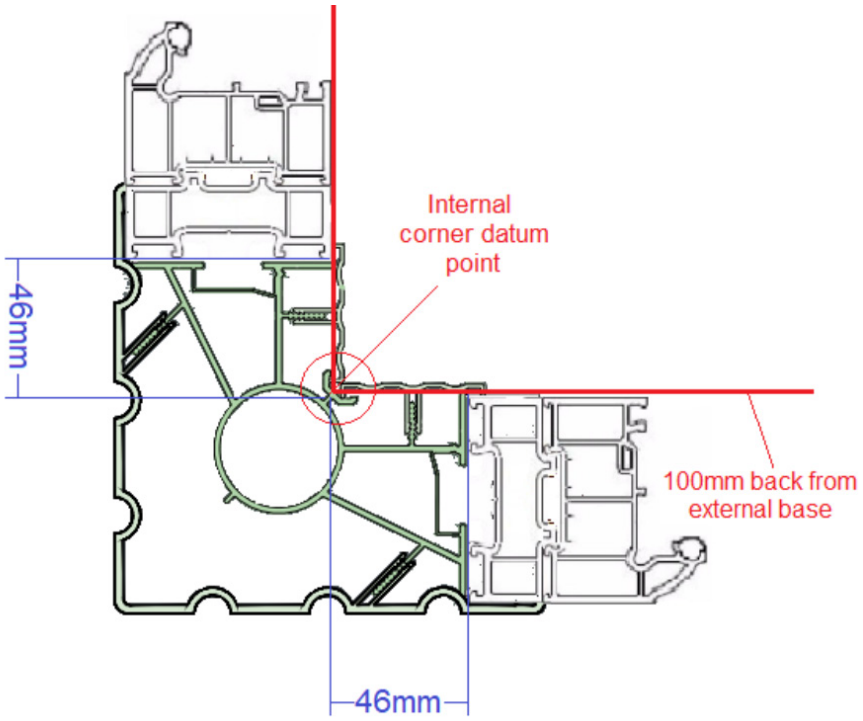
The larger 200mm Plinth, always fits to the bottom of the decorative Pilaster.



The 90° External 'Fluted Trim' sits inbetween the two decorative Plinths.

Positioning the Decorative Pilasters

Frames sitting up to a standard 90° Corner Post would sit right up to each corner point of the conservatory. Pilasters however, are different, and due to their decorative design the window / door frames will sit 46mm short of the corner point of the conservatory, so don't be alarmed if the frames look short. See the corss-section diagram below of the Pilaster & frame positions.



You will also notice that the external trim overlaps the window / door frames it sits against. so these frames will already have been supplied with a 20mm 'frame extender' pre-fitted to them, to space them away from the decorative trim, as seen in the diagram above.

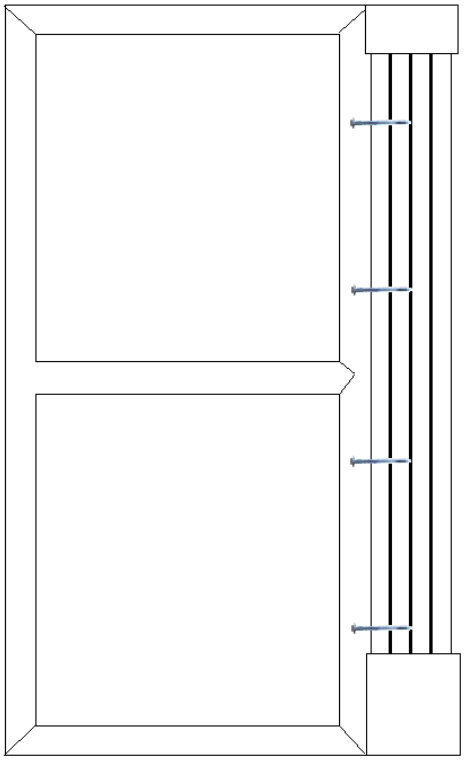
70mm self-drilling screw

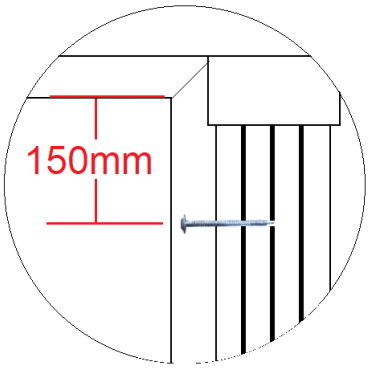
Fixings are found in the bag marked with **red** tape.

Butt your frames up to the Pilasters and ensure they are at 90° before clamping together to hold in place.

Use the 70mm self drilling screws to fix through your frames into the 90° Aluinium Pilaster post. Fix at no more than 500mm centres, and a minimmum of 150mm away from any welded frame joint.

Around 4-5 fixings per frame is usually sufficient.





Fixings to be a minimum of 150mm away from any frame weld.