

Simplicity 6

Installation Guide

MADE IN BRITAIN®

Please check off all your parts against the CAD drawing you have been supplied. Check for both quality and quantity. Any discrepancies or quality issues need to be reported within 24 hours from receipt of delivery.

SCAN ME

Simplicity 6

ToolsRequired

Below is a list of tools that you will require to install the Simplicity 6 Veranda, Canopy, Carport, or Glass Room.



Cordless Drill



5mm &6.5mm Drill Bits



Spirit Level



Suction Lifter Cups



Rubber Mallet



Digging Equipment



Stanley Knife



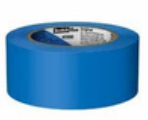
Roofing Square



Mastic Gun & Soudal Clear Bonding Agent



Hammer



Painters Masking Tape



Long Pozzi No.2 Screwdriver Bit



45mm, 53mm-55mm Hole Saw



Pipe Snug



36" Sash Cramp



Measuring Tape



Aluminium Chop Saw



8mm Spanner



10mm Spanner

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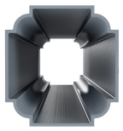
Profiles



Contemporary Gutter



Traditional Gutter



70mm x 75mm Post
(Traditional option)



70mm x 70mm Post



100mm x 70mm Post



Wall Plate



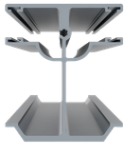
Gutter & Wall Plate Trim



Wall Plate End Plate
Height 130mm



Gutter End Plate



Roof Bar Extrusions



End Roof Bar Extrusions



Glazing Bar End Plate



F section



Joining Plate
70mm x 300mm x 2mm



Joining Plate
75mm x 300mm x 2mm
for the contemporary gutter



Joining Plate
61.5mm x 300mm x 2mm



2No. Joining Plate
18mm x 300mm x 2mm



No. 12x 1 ¼"
Self Drill Screws



No. 10x 25mm
Self Drill Screws



M6 X 20MM
Hex Headed Bolts



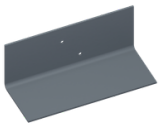
6mm x 16mm
Pan Pozi Screw Bolt



M6 Nylock Insert Nut



Bolt Down Post Foot Above
Ground (if required)



In Ground Post Foot
(if required)



Spigot



Glass Sheets

*Please refer to your CAD drawing for each individual order as this will show the roof bar spacing as per your order. This installation guide is generic and the centre's spacing is given as a guide example only.

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Preliminary Stages and Planning

Before starting your install, please check all components for quantity and damage.

Below is a roof span chart which you MUST refer to establish the maximum centre to centre dimensions of your roof bars and posts.

SPAN Chart Roof Bars	Up to 3.5m Projection
System 6	600mm Roof Bar Spacings

POST SPACINGS	Up to & Including 3.5m Projection
System 6	3m Post Spacings

PLEASE NOTE: A MAXIMUM GUTTER OVERHANG OF 750MM FROM THE POST IS ALLOWED.



PLEASE NOTE - IF USING SELF CLEANING GLASS A MINIMUM PITCH OF 10° IS REQUIRED.

At 3.5 metres projection the maximum pitch of your roof system is 13° due to glass length, contact the office for further details.

Be aware! You must ensure all glass is installed with the film facing upwards (sky). This will ensure that if installing self-cleaning glass, it is the correct way up.

Please note when ordering Pilkington Self Cleaning Glass:

Pilkington ACTIV requires natural light, rainwater and a minimum roof pitch of 10 degrees to work effectively and self-clean the outer surface of the glass.
Pilkington Activ™ requires daylight and rain to work effectively. When the roof angle gets too low the rain does not wash the loosened dirt off as effectively. A good flow of water across the glass is beneficial. Pilkington Activ™ still gives better results than ordinary glass with low angle roof applications. We recommend a minimum angle of 10 degrees.

You are now ready to start installing the structure, following all steps within this guide.

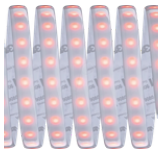
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Lighting (if required)

Please reference our lighting installation guide on our website, for specific instructions.
Your lighting kit is a self-adhesive LED lighting strip which fits neatly into a designed recess in the underside of the lighting roof bar, and the bottom trim space of the inside face of your gutter. Consideration of the route to your power source must be assessed and planned prior to installation of your veranda.



IP65 241mm x 180mm x95mm junction



2.5 metre RGBW LED lighting strip



6 metre RGBW lighting strip



60-watt driver



- 100W Driver
- 150W Driver
- 200W Driver



LED strip controller



4 channel,
Remote control
wireless handset



4 channel,
wireless wall switch

The lighting consists of an aluminium extrusion that can fit to either the bottom of the wall plate, or the back of the gutter beam. When installing lighting please consider cable exist and cable entry to the light channel. The lighting also comes with an electrical capacitor for each 6m of light and an optional external grade plastic box to house the capacitors if the installation requires that they be mounted outside.

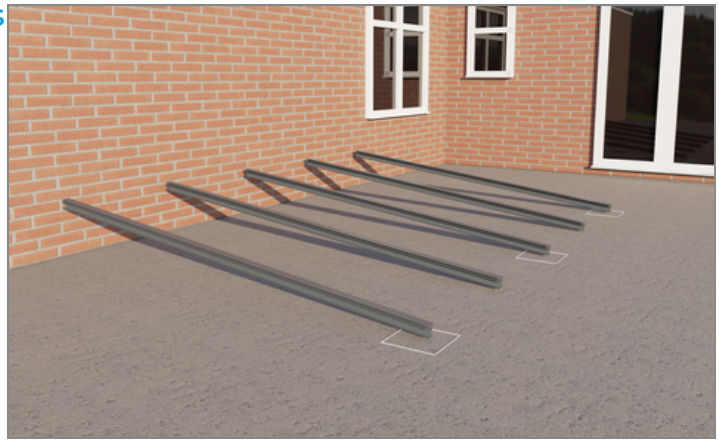
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Installation Instructions

Step 1. Foundation Hole Positions for Posts

Working in reference with the technical drawing (CAD) establish the height of the canopy/carport at the back (wall plate) and the height of the canopy at the front. The height at the front, underside of the gutter should meet our recommended minimum height of 2100mm.

With reference to your CAD drawing, map and set out the correct positions for your posts.

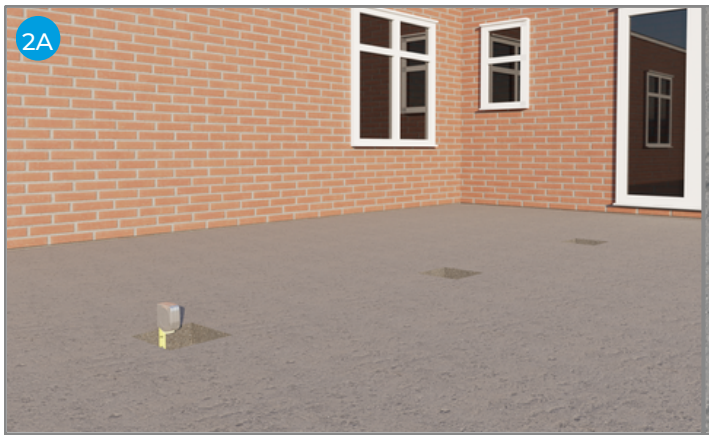


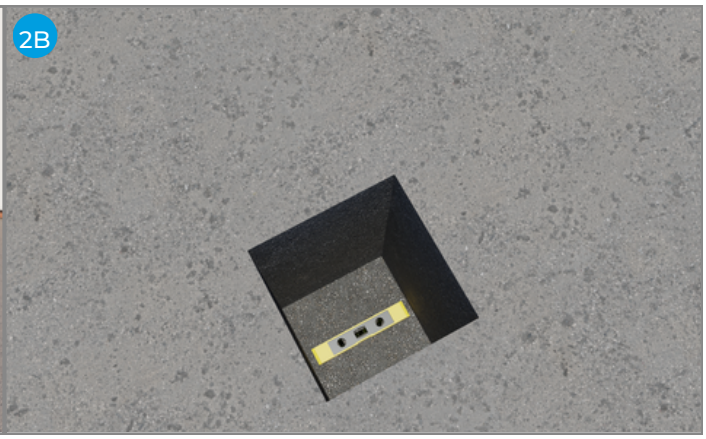
Tip: Once you have established your height at the front and back, deduct the height at the front from the height at the back to give you “The Fall” (x). Measure distance 'x' up the wall and position your roof bar at this height on the wall. Let the other end touch the ground and where that touches will be the centre of your hole for the foundation.

IMPORTANT: Use roofing square to ensure the bar used is held square to the wall.

STEP 2 Digging of Holes

You can either cast foundations first or dig holes for casting after. (Bolt to or cast in)
Holes or foundations must be a minimum of 300x300x600 deep. This is only a guide. Please consult a structural engineer for verification.





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Installation Instructions

Step 3. Fitting of Wall Plate to the Wall

Measure 30mm in from one end of the Wall plate and approx. 55mm down from the top of the inside profile and mark before you drill. Drill the wall plate using the correct sized drill bit for the suitable wall fixings that you intend to use (not supplied). Once this is done repeat at the other end.

Continue to drill holes in the wall plate at approx. 55mm down and at approx. 300mm centres. This is only a guide. Please consult a structural engineer for verification. See diagram.

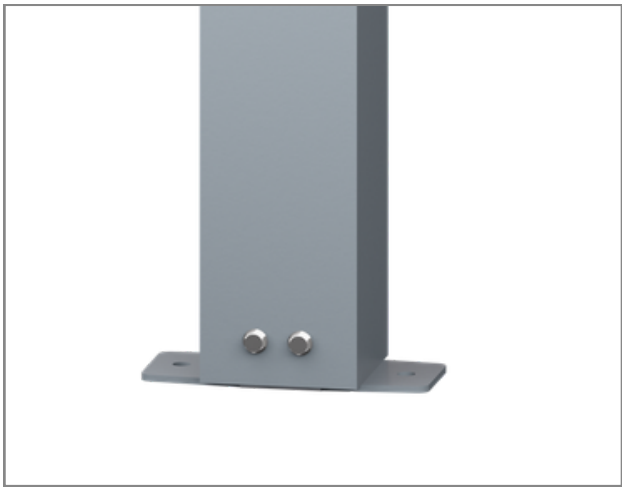


You must ensure the wall plate is not twisted or bowed. Use a spirit level to make sure the wall plate is fitted level.

Using suitable wall fixings, fix the wall plate to the wall, we recommend plastic caps are fitted over the screw/bolt heads for aesthetic reasons.

Step 4. Fitting of Post Feet to Posts

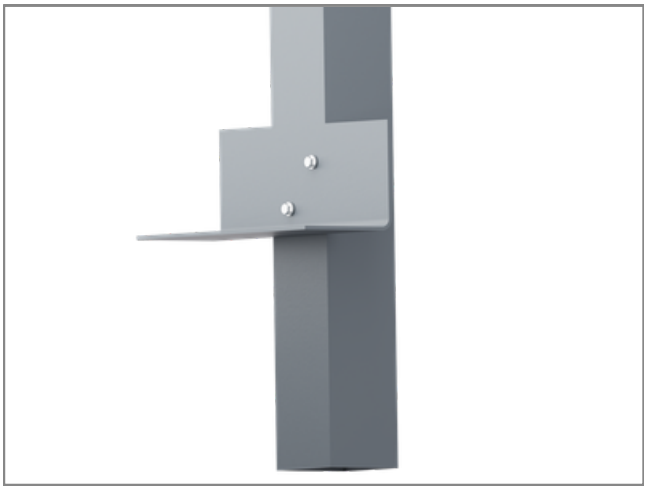
Centralise the post foot to the post and attach using 2 x No. 12 x 1 ¼" self-drill screws (Note the post foot is only suitable for surface mounting the posts. If your posts need to be concreted into the ground, please follow step 4a overleaf)





Step 4a. Fitting of Post Feet to Posts

Centralise the post anchor to the post and attach using 2 x No12 x 1 ¼" self-drill screws



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Installation Instructions

Step 5. Cutting the Posts

Measure the height of the canopy/carport at the front and add to this dimension the depth of post that will be going into the ground. The total of this is the length at which your posts need to be cut.

Step 6. Fitting of Post to Gutter Section

Position the gutter section over the posts and ensure they are in the correct position and are spaced in accordance with the span chart. Ensure the post is square to the gutter section using a roofing square. Using 2 x No. 12 x 1 ¼" drill screws, secure through the front profile of the gutter into the post. Repeat on the inner side so that 4 screws in total are used to secure the post.





Step 7a. Joining Gutter Sections

If your canopy or carport is longer than 6m, you may need to join the gutter sections as follows:

- Joining Gutter Sections
- You will need the following to join every gutter beam:
- 4x flat aluminium joining plates:
- 2x 18mm x 300mm x 2mm, 1No. 70mm x 300mm x 2mm, 1No.
- 61.5mm x 300mm x 2mm
- 1x tube of Sudaflex marine grade sealer 1No roll of masking tape
- 8x N°12 x 1¼ Drill Screws 1x mastic gun
- 1x drill with 8mm self-driller attachment Industrial wipes
- Roll of industrial tissue paper

Installation Procedure

1.Make sure you only use Sudaflex; normal silicon sealer will not do.

2.Now apply a liberal amount of Sudaflex to both sides of the eave beam on the internal vertical sections and the underside of the gutter where the plate fits into this will enable you to bond the four joining plates.

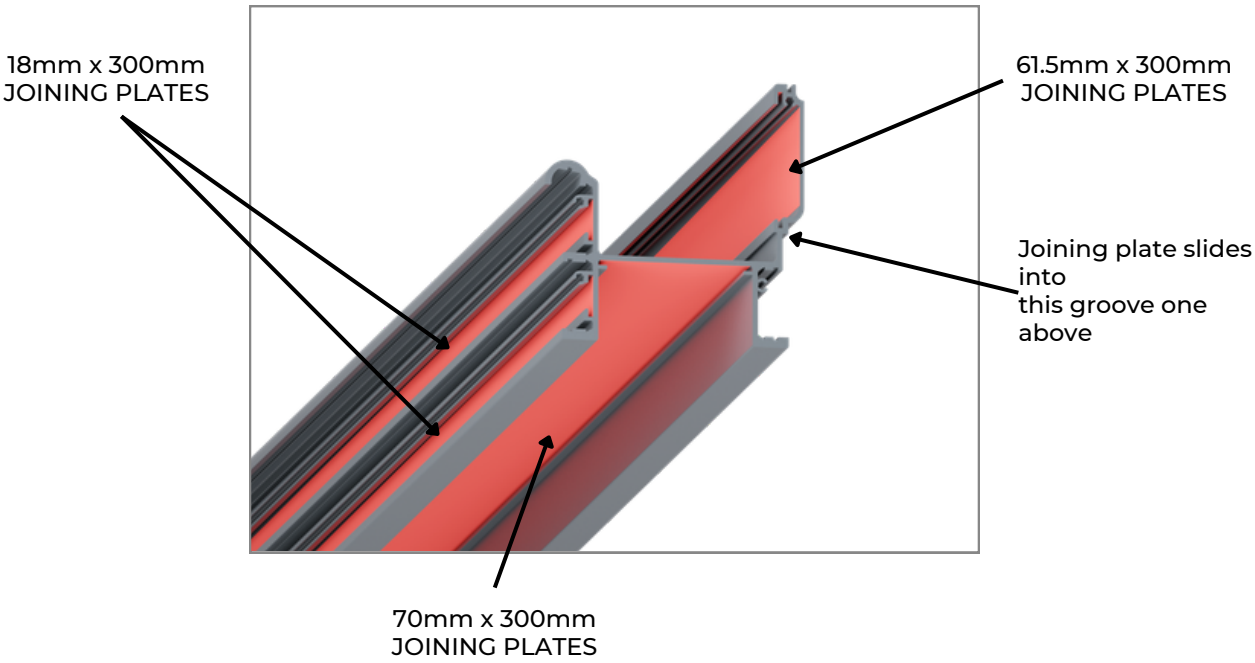
3.Flatten any excess Sudaflex with the spatula and apply a generous amount of sealer around every edge of both plates. Then insert all plates half way in to one half of the join.

4.Apply ample amounts of Sudaflex across all corresponding areas of the opposite gutter beam.

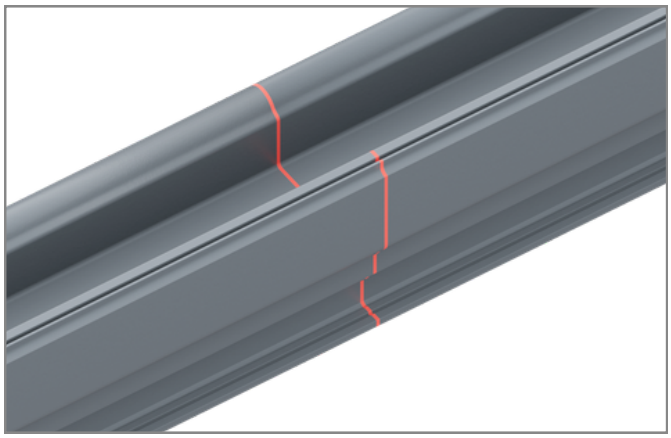
5.You are now ready to marry the two gutter beams together, but you must ensure they are flat and level.

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Installation Instructions



6.The two parts of the gutter must then be married together with no gap and the sudaflex allowed to set.



a.Using N°12 x 1¼ Drill Screws fix through the 18mm x 300mm joining plates using 2 per side, top and bottom, so 8 in total. This will lock the gutter together. The 61.5mm & 70mm plates are bonded in so mechanical fixings are not required.

b.If you have the gutter channel infill on the job, fix 2 x 1 ¼ Hexagon Self Drill Screws into each side of the gutter join through the bottom 18mm joining plate.

*To be done after step 8 has been actioned and the gutter infill is in place.

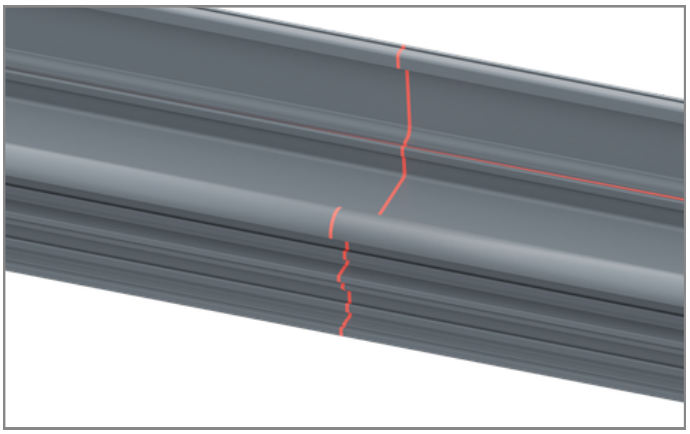
7.After around 15 to 20 minutes and once the sealer has had time to harden stand the gutter beam with legs attached up, and attach the bars as described in the above procedure.

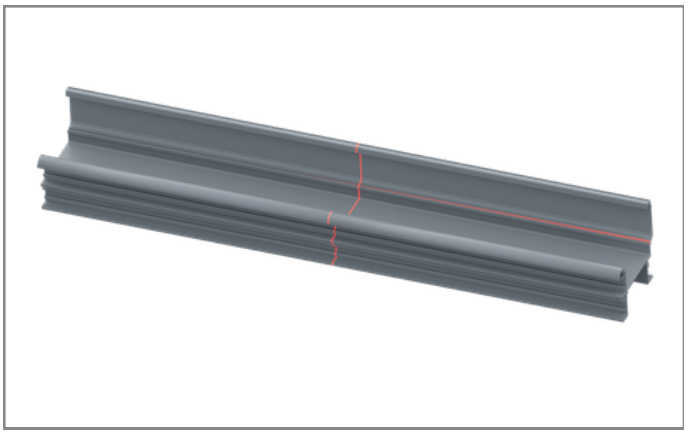
8.Once your canopy is glazed, your legs are plumb and your gutter beam is level up and down, left and right, and front to back, ensure your gutter is dry and the surface temperature at least 4 degrees. If you are installing in the winter, you may need to use a heat gun.

9.Then you will need to apply the final amount of Sudaflex into the bottom of the gutter beam, please see diagrams below:

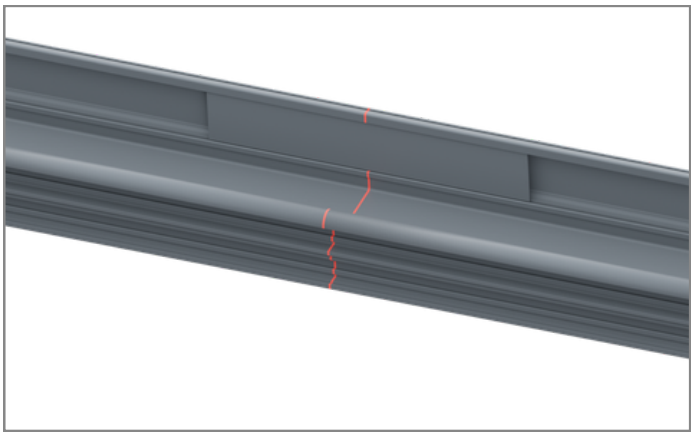
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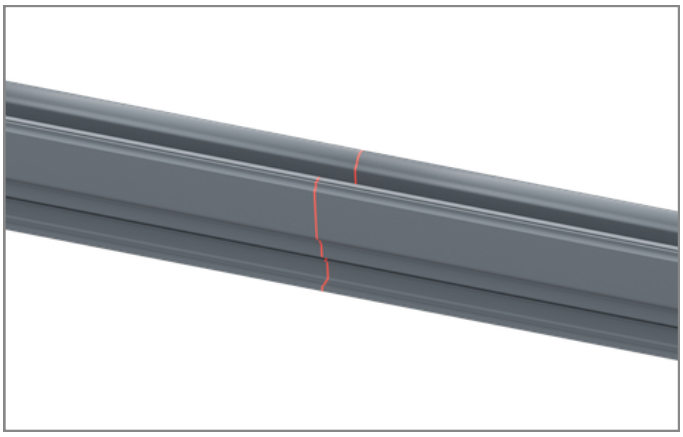
Installation Instructions





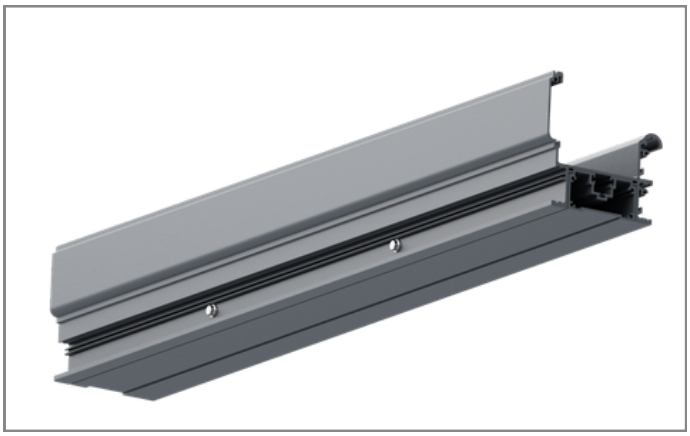
10.Apply a generous amount around the edges of the flat plates inside the gutter and ensure all gaps are filled with Sudaflex internally.





Step 7b: Fitting the Gallows Support Bar

The gutter support bar is designed to span from post to post or from post to end cap underneath the gutter, fix the bar through the gutter channel using self-drillers every 300mm both sides of the gutter as shown in the below diagram.



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Installation Instructions

Step 8. Stand Post & Gutter Beam Up

Using the excavated hole, position each of the posts into the centre of the hole and lean the whole frame forward so that the back of the post's leans against the front of the hole; please see diagram overleaf.

If the posts are to be surface mounted, please secure the posts ensuring they are plum and square.



Step 9. Fitting of the Glazing Bars

Pre-drill the glazing bar that is going to fit into the gutter section. 15mm in from the edge and 30mm from the end of the bar drill your 6.5mm hole. Do this on both sides of the bar. Do this on both sides of the spine of all main bars. This will allow the glazing bar to overhang the gutter section. Please see the images below.





Starting with the End Glazing Bar, push this bar into the wall plate so that it is pushed back as far as possible and ensure the outside profile lines up with the edge of the wall plate. Rest the other end of the glazing bar on the radius inner section of the gutter beam.

Using a 6.5mm drill bit, drill 1 No. hole through the bottom radius profile of the wall plate ensuring this also goes through the flat section of the glazing bar. Locate a 6mm x 16mm pan pozi screw bolt through the hole and apply m6 nyloc nut. Using an 8mm ratchet and screw driver tighten up.

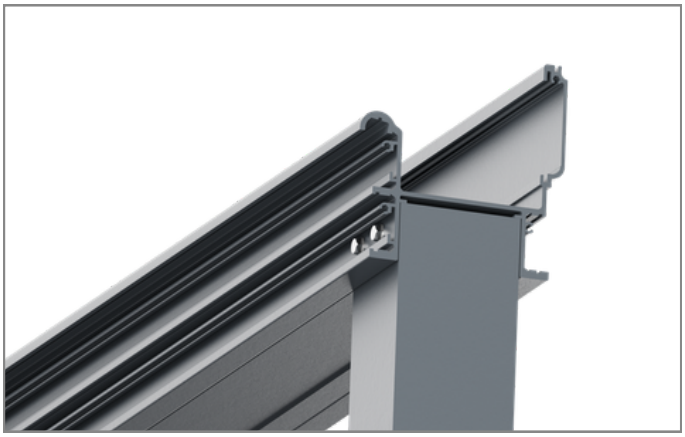
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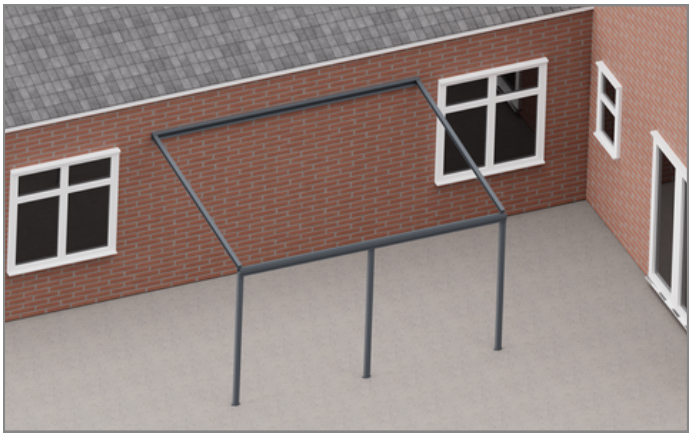
Installation Instructions

Repeat this process on the other side of the glazing bar. Please see the image below:



Make sure the glazing bar is in line with the gutter beam, then using the same fixing method as the wall plate secure the glazing bar to the gutter section. Your pre-drilled holes will determine where you drill through on the radius of the gutter section. Please see diagram below:





Repeat the above with the last glazing bar at the other end of the wall plate and gutter beam to stabilise the wall plate and gutter beam while you seal the wall plate in the following section.

DO NOT FIT ANY MORE GLAZING BARS AT THIS STAGE

Step 10. Sealing Wall Plate Against the Wall

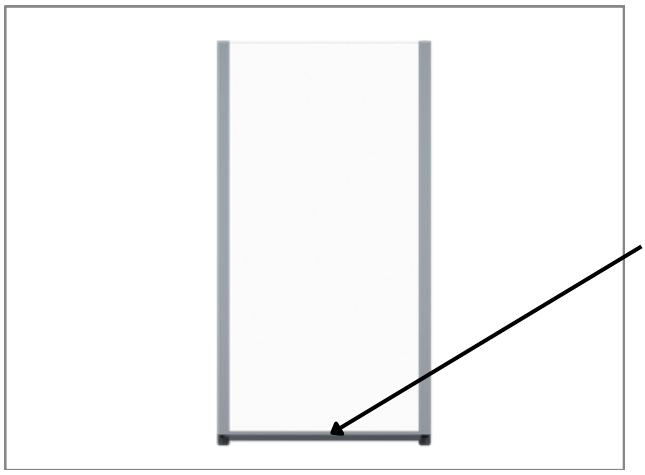
If flashing or silicone is required to seal the wall plate against the wall, it needs to be done prior to the glass sheets being fitted.

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Installation Instructions

Step 11.Glass Sheets

Repeat the process detailed above, until you have fitted all the glass and roof bars . With the aid of the F sections as your template . Ensuring that each glazed bay is precisely the width dimension the drawing dictates it should be . This will enable you to successfully fit your final end roof bar flush with the edge of the gutter and supporting post .



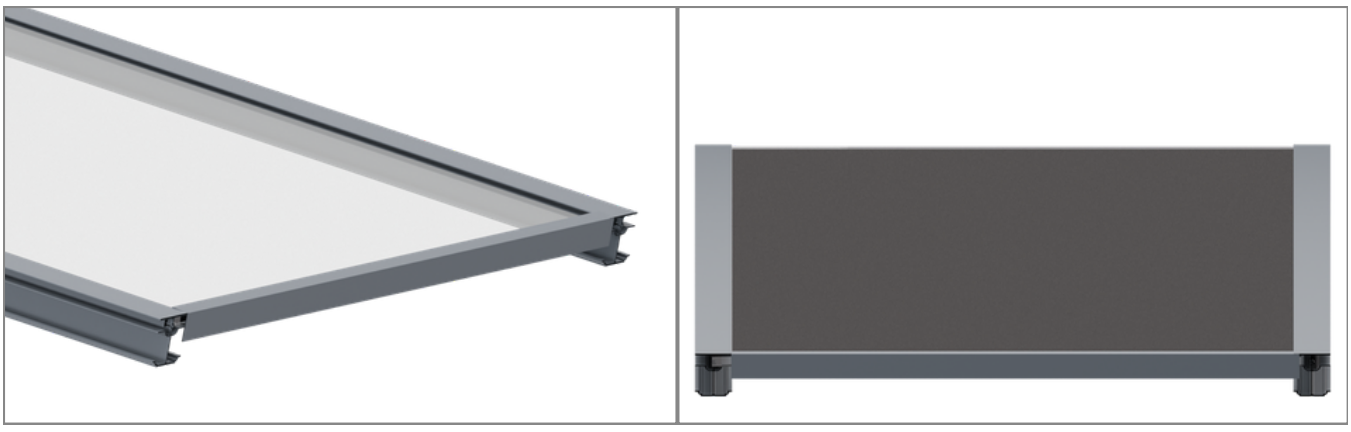
The glass sheet comes with a protective film fitted on the coated face. This needs to be removed prior to fitting. The side with the film needs to be fitted facing the sunlight.

PLEASE NOTE IF USING SELF CLEANING GLASS A MINIMUM PITCH OF 10° IS REQUIRED.

Step 12. Fitting of the 'F'-Section

Secure the glazing bar to the gutter section using M6 X 16MM Pan Pozi Bolts and M6 Nuts. Ensure the end of the glass is fitting flush with the edge of the glazing bars as shown overleaf.

The F section is supplied pre-cut to the correct width of the inside-to-inside glazing bar dimension. Please measure this width and check against your CAD drawing.



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Installation Instructions

Step 12a.Fitting of Bar End Plates

Secure the bar end plate into the end of the glazing bar using a No. 10 x 25 hexagon headed screw (supplied).



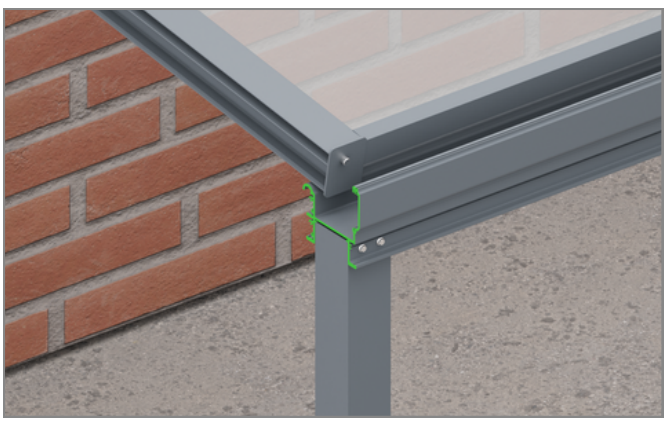
Step 12b. Fixing the Gutter and Wall Plate Trim - If no lighting is required.

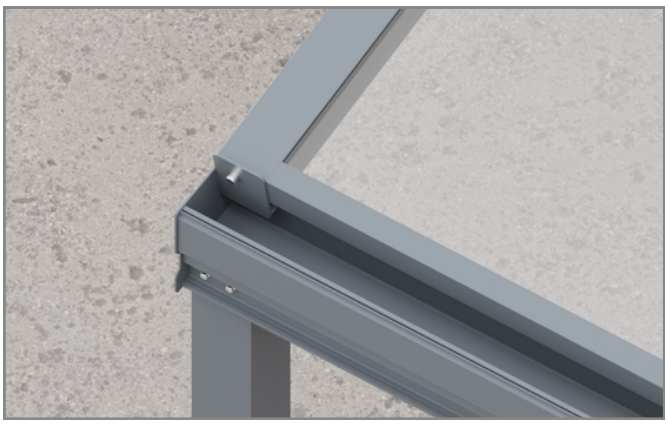
There are 4 trims the same length as the gutter and wall plate. If the gutter is over 6m and has a join, then stagger the trim so that the join is in a different place. The trim fits into the channel on the front and the back of the gutter, 1 trim on the front and 2 trims on the back (inside of the gutter).

The Wall Plate Trim fits on the underside of the wall plate and hides all the fixings. Simply hold the trim close to the channel and using a rubber or fibre mallet tap the trim into place ensuring the bottom 2 trims have the flat section facing down on the Gutter. The top trim on the inside is fitted with the flat section of the trim facing upwards.

Step 13. Fitting of Gutter End Caps

Ensure the gutter is completely dry, then apply a continuous bead of Sudaflex around the end of the gutter extrusion, then line up the 4 holes on the gutter end plate with the port holes on the end of the gutter section and using 4 x No. 12x 1 ¼" Hexagon Self Drill Screws secure in place. Finally using a dobbing stick or finger with disposable gloves apply a bead around the internal gutter section at the end. Repeat at the other end. Please see diagrams below:





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Installation Instructions

Step 14. Fitting of Wall Plate End Caps

Line up the 2 No. holes on the wall plate end plate with the port holes on the end of the wall plate section and using 2 x No. 12x 1 ¼" Hexagon Self Drill Screws secure in place. Repeat at the other end. Please see diagram below:



Step 15. Make Sure Your Canopy/Carport is Square

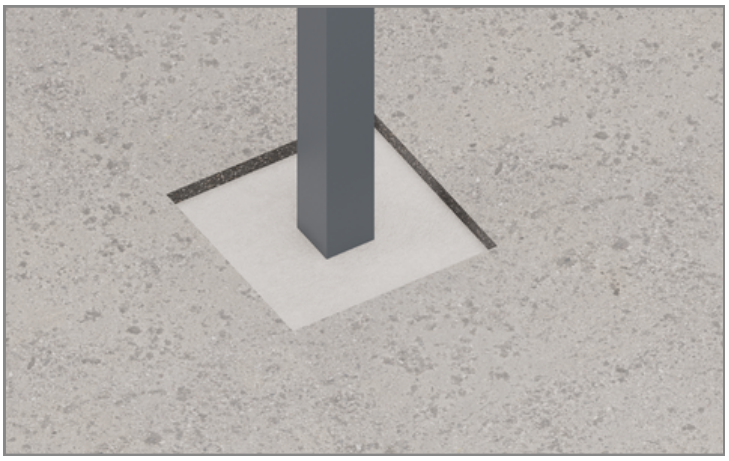
To ensure the carport is square, using the roofing square, attach one edge of the square to the wall plate and the other edge will need to continuously touch the other edge of the square. This will ensure the gutter beam is perpendicular to the wall plate.

Step 15a. Ensuring your Canopy/Carport is Level

Using a spirit level ensure the front beam is completely level and your posts are plumb.

Step 16 Concrete around the Posts

Using the correct aggregate apply to the excavated holes and make good.



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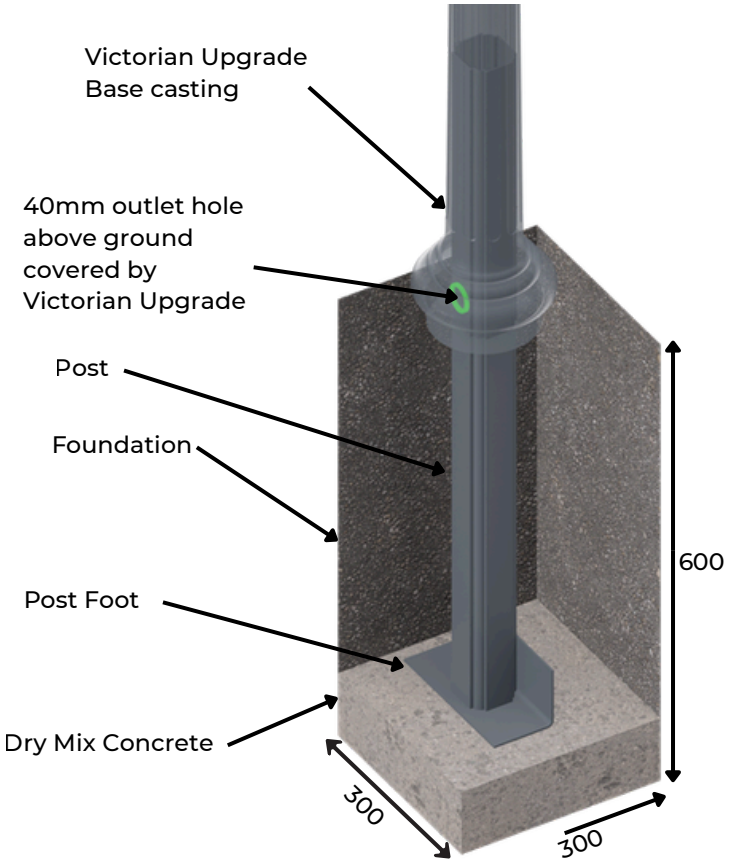
Step 17 Victorian Upgrade Drainage System

If you are not installing the Victorian Upgrade, please skip this step and move onto step 18a.

Drill a hole no more than 45mm diameter in the gutter section where your post is to be located. Push the post in to the gutter section below the hole. Please see diagram below.

Notes:

1. You must ensure the bottom of the hole has at least 100mm of dry mix concrete under the post to prevent subsidence of the post, and that is compacted hard.
2. Ensure as you fill the 300 x 300 x 600 foundation, that you fill the centre of the post level to the bottom of the 40mm hole to prevent rainwater going into the bottom of the post.
3. We recommend that when installing above ground outlets, you perform this procedure on every post to minimise puddles.



Disclaimer: We cannot be held liable for puddles of excess rainwater around the column base.

Step 18a. Standard Drainage System

Drill a hole 45mm diameter using a hole saw in the gutter section where your downpipe is to be located, Insert the outlet into the hole and tighten. Push the downpipe in to the gutter section below the hole over the outlet. Using the downpipe clips provided secure to one of the posts or the wall depending on the position of your outlet.

Step 18b. Capping off the Fixings

Using the supplied caps, ensure the fixings have been capped off and the structure has been cleaned.

Step 19. Applying the Stickers

When applying the logo ensure to fix one at each end.

Step 20. Fitting the Gutter Support Channel

If supplied, then the Gutter Support channel (see profile image) fits directly underneath the Gutter Channel. It is held in place by using No12 x 1 ¼ drill screws every 300mm directly through the flange on both the outside and inner face.

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Installation Instructions

Step 20a. Fitting the Gallows Brackets

Once the Gutter Support Channel is fitted you can now fit the Gallows Brackets.
Using 2 x No12 x 1”1/4 drill screws fix the Gallows brackets directly into the post and then into the support channel you have previously fitted. See photo below. Using caps provided cap off all screw heads. Please see images overleaf.

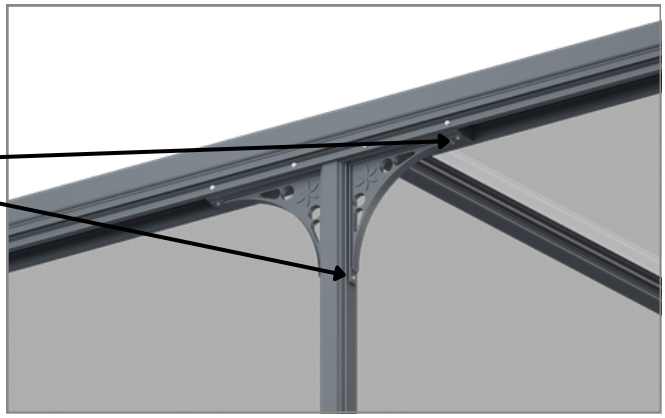
Image shows gutter channel fitted.



Image shows gallows brackets fitted to gutter channel and post.



Please see the position of the fixings.



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Installation Instructions

Step 21. Lighting Installation (if required)

Our lighting kit includes RGBW LED self-adhesive lighting strip, which can be integrated within the underside of the lighting (with lens cover), roof bar... or the internal gutter (with lens cover) in the bottom trim space. A G Wizz cover box, x4 channel remote control or x4 channel wall switch (upgrade option), and a standard receiver or smart receiver (upgrade option). A driver. Multiple drivers will be supplied for large span veranda systems to accommodate the power wattage output.

Please ensure you consider the appropriate entry/exit routes of your cables, and the desired position of your G WIZZ external electrical cover box, prior to commencing your installation.

With reference to our guidance regarding the power consumption of 18watts per metre for each LED strip required. The total capacity requirement of your Driver or drivers will be provided to you accordingly and will always be greater than the total wattage output. 100watts, 150watts or 200watts, dependant on the meterage.





Simplicity 6

Installation Instructions

Step 22. Clean-Up

6A. Use a suitable cleaning detergent and a soft cloth to wipe down the frame and aluminum profiles, ensuring they are free from any dirt or debris left over from the installation.

6B. Use a suitable streak-free glass cleaner and a separate soft cloth to clean the glass panels.



This installation guide should be used in conjunction with the Installation video for this system which can be found on the trade partner area of our website.

Milwood Group
Europa & Jenner House, Victory Park, 1-2 Trident Close
Medway City Estate, Rochester, ME2 4ER
0333 305 5272 | sales@milwoodgroup.com

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www.milwoodgroup.com