



INSTALLATION GUIDE | AUGUST 2017 V7

QUANTAL

Distinctive Living

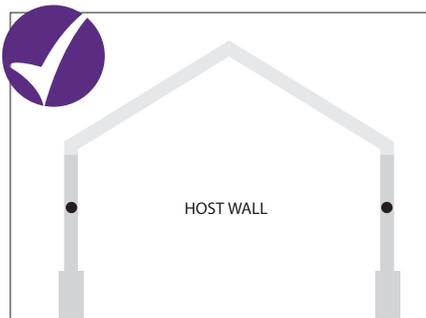
Please take a few minutes prior to installation to familiarise yourself with this updated system.

For Technical Support please call 01200 414618 or email techsupport@quantal.co.uk

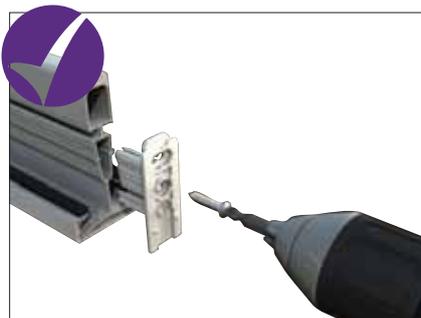
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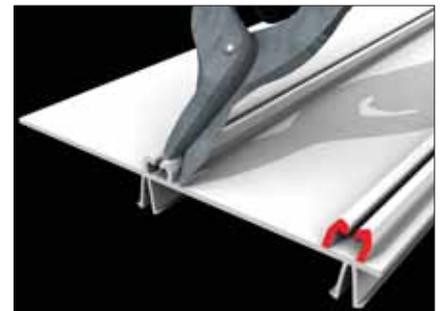
PRE-INSTALLATION CHECKS



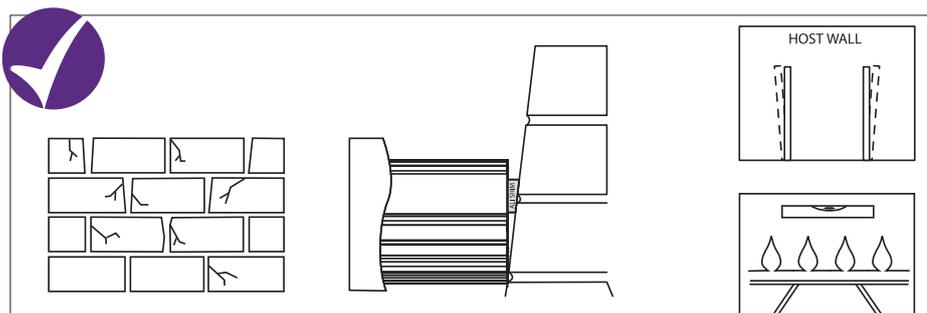
At this stage do not fix the frames down - pin only to the house wall (one fix per side) to allow the conservatory to 'float'.



Firmly attach the glazing bar end cap fixing blocks - as access restrictions (box gutter situations) may prevent easy attachment later.

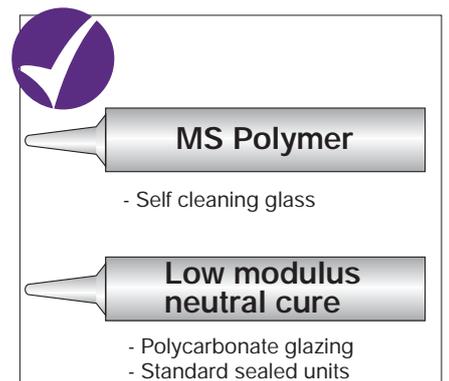


IMPORTANT:
If fascia is returning round a corner, snip back barbs as shown to ensure that carrier fits snugly into the corner.



Check the condition of the host wall as this may affect the quality of the final installation. Check the host wall is plumb - any running in/or out should have been accounted for by the surveyor. If not, the ridge and starter bars

may require packing out with aluminium shims. Correct alignment in this area is critical to a successful installation - Plumb frames/level ridge. Only use the specified fixings - never be tempted to substitute alternative sizes/gauges.



Use the correct sealant

TOOLS REQUIRED

Section 1



8, 10, 13mm
Socket Spanner



Deadblow
Hammer or White
Rubber Mallet



No. 2 Pozidrive Bit



Hack Saw



Drill/Screwdriver



Long nose pliers



Gasket Shears/
Snips



4.5mm Drill Bit
10mm Drill Bit



Sealant Gun



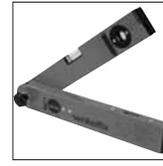
17mm Open
Ended Spanner -
Tie Bars



Spirit Level



Tape Measure



Anglefinder



Plumb bob



Eaves to
frame fixings
and host wall
fixings not
supplied.

General points

Care should be taken when handling components that are seen by the homeowner, as surfaces may be scratched if not handled with care. Choose a suitable area for unpacking the components and always check them before fitting. Any claims for missing or damaged parts are only accepted in line with our standard terms and conditions of sale.

Health & safety

Site safety is paramount. The Construction (Design & Management) Regulations 2015 apply to the whole construction process, on all construction projects from concept through to completion. Compliance is required to ensure construction projects are carried out in a way that secures health and safety. The installation company shall be responsible for the safety of all of the fitting team, the customer and members of the public.

The Surveyor should have carried out a risk assessment to reduce risk on site and this should have been discussed with you prior to starting.

Please use safe working platforms and ladders that comply with BS EN 131. Always use equipment in line with manufacturers recommendations. Personal Protective Equipment – such as goggles, mask and ear defenders – should be used when, for example, grinding out for the flashing.

Careful consideration should be given to the safe disposal of all packaging – our packaging is predominantly made from recycled materials and can be readily recycled.

Product

The kit is supplied with a location plan, a quality control check list for the box in which this guide arrives and, of course, this installation guide. The location plan is used to match individual components to their respective position on the roof. Our numbering convention always starts at the top left, against the house wall as you look from outside the conservatory back at the host wall. The majority of components contain identification codes, usually by inkjetting or labelling – should you need to re-order a part this should help.

Sealing

It is important to use the correct sealant when sealing the roof - see across

The Superstructure

Before starting to install the Pergola, please check the condition of the host wall and whether it's plumb – depending upon what you find, these conditions can seriously affect the final integrity of the roof.

Technical Support

Tel: 01200 414618
techsupport@quantal.co.uk

PAINTED ALUMINIUM PRODUCTS - PLEASE NOTE

All paints will 'chalk' to some extent and there will be a reduction in gloss level over time. (See Cleaning and Maintenance guidelines p42)

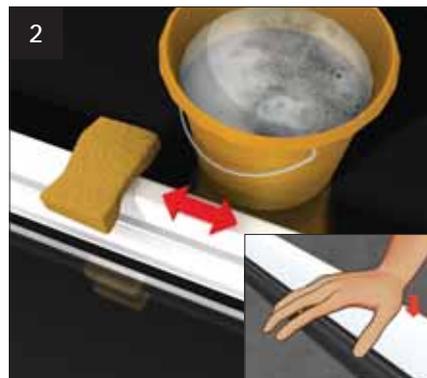
QUALITY EXPECTATIONS ON INSTALLATION.

Appearance: This is assessed based on the selection of the 'significant' (primary) surface. From a distance of 3m, stand at an oblique angle of 60degree and then defects such as blisters, runs, pin holes etc should NOT be seen.
Colour and gloss: Viewed from 5m, the coating must be of even colour and gloss with good coverage.

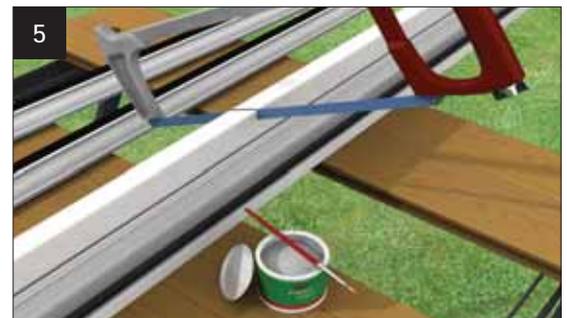
HANDLING ALUMINIUM PRODUCTS



If storing in warehouse racking or on frails/roof racks, take care to support the products and do not over tension straps and ropes. When opening sealed packs, use a special box knife opener.



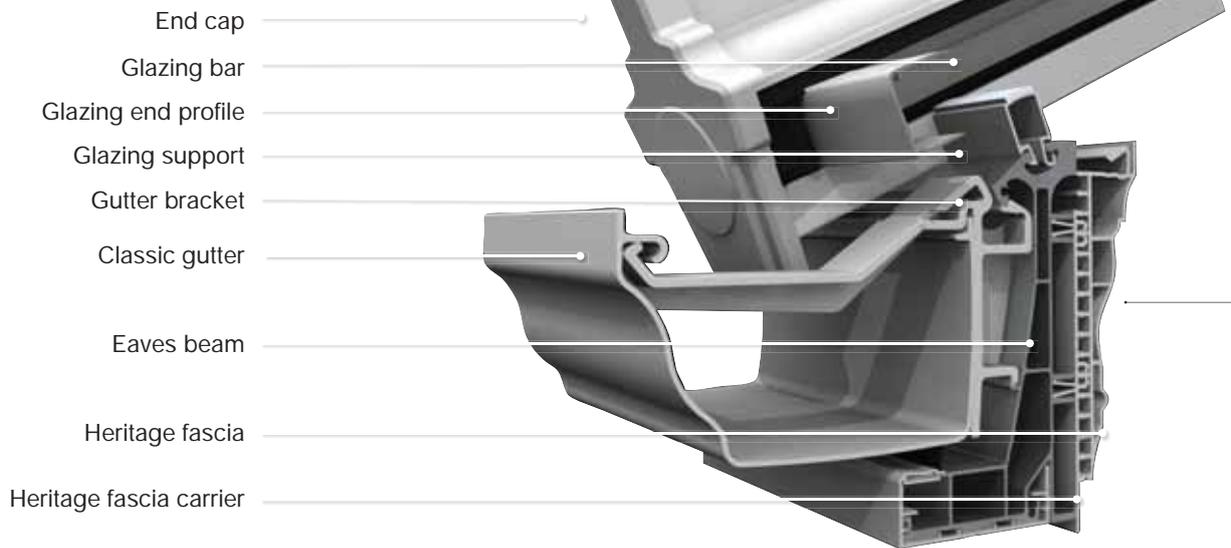
Grease marks, dirt and mastic spillage may be removed using soapy water. Take care when fitting aluminium products to not use excessive force.



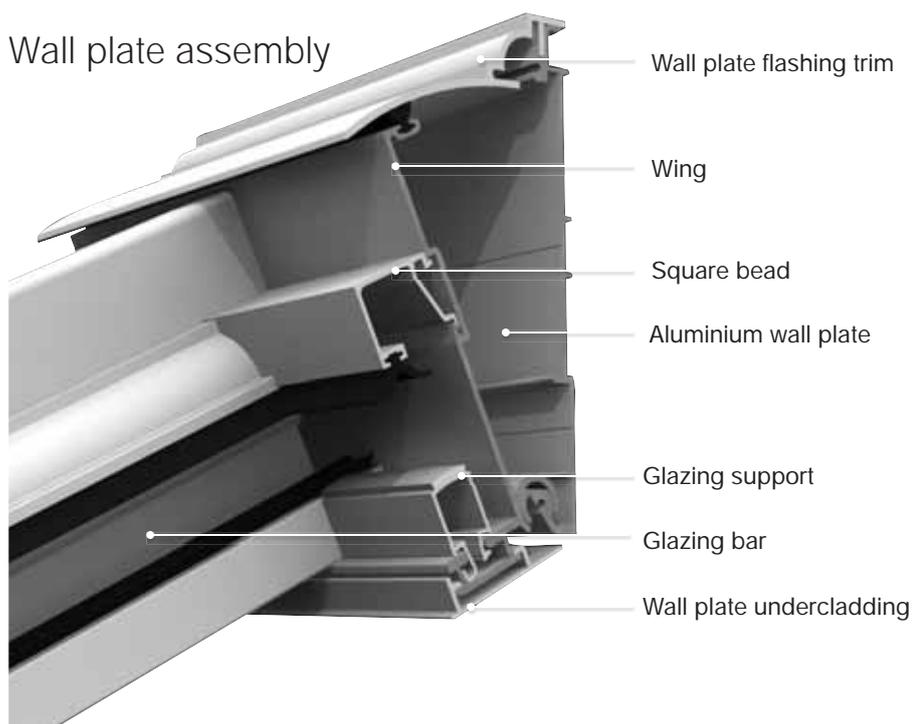
If site cutting is necessary (drainage slots need inserting or a down pipe hole has to be cut) ensure all swarf is kept away from the painted surface and then seal with a primer/corrosion inhibitor and then top coat. Alternatively, use a suitable gap sealant to prevent the onset of corrosion. These steps are critical in marine environments.

PRODUCT IDENTIFICATION - STANDARD LEAN-TO

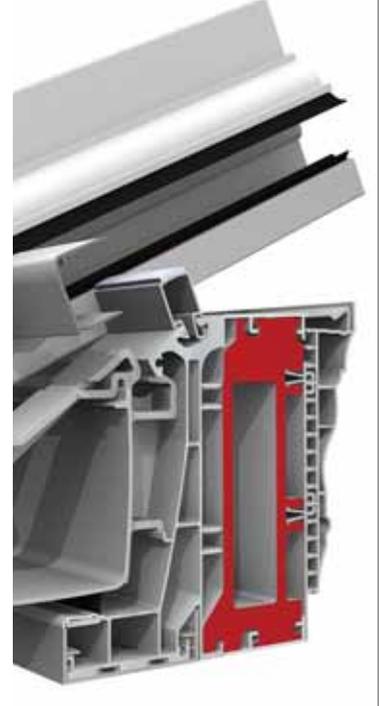
Eaves assembly



Wall plate assembly

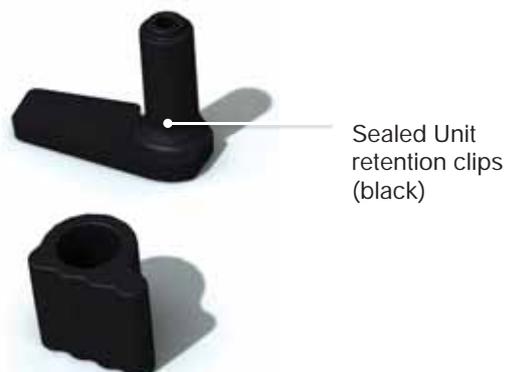


Eaves beam bolstered



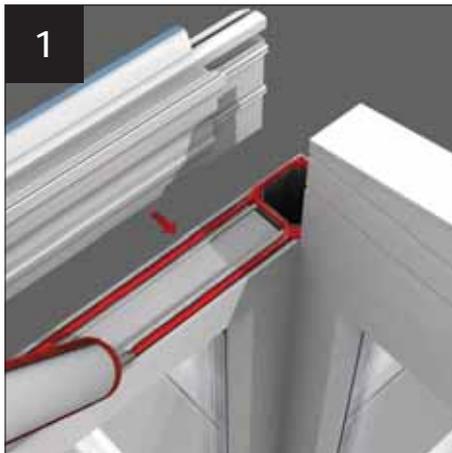
Glazing Retention clips

Whichever type of glazing material is selected, retention clips are automatically specified to ensure that the chance of glazing panel slip is eliminated.

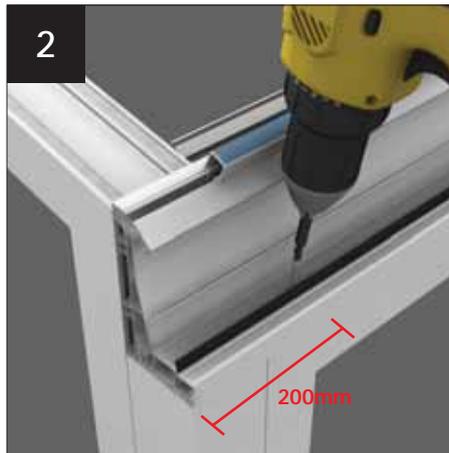


INSTALLATION - STANDARD LEAN-TO

If your roof features a bolster on the eaves beam see detail on p4



Apply a continuous bead of silicone to the head of the frames including cornerpost prior to fitting the eaves beam. Align the eaves beam with the inner face of the window frames.



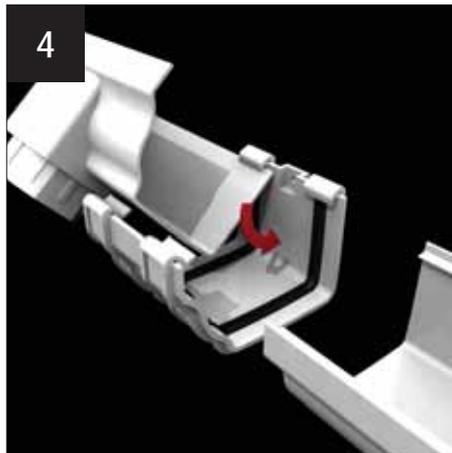
Securely fix eaves beam to the frames at 450mm centres and within 200mm of each corner. If joining the eaves beam, slot cleat into adjacent beam. Drill two Ø4.5mm holes through the pre drilled holes and secure with two M5 x 12mm screws supplied. **Please note: Ensure that the under gutter trim is fitted to the eaves beam and all bolts are in situ prior to fixing to the frames.**



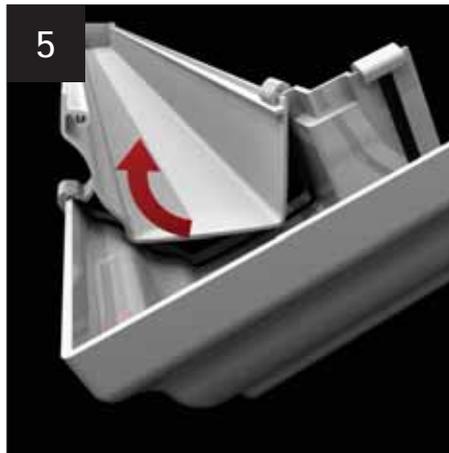
Accurately mark wallplate height (roof rise) on wall. Align wallplate and ensure level and central.

MARK OUT FOR FLASHING - LIFT WALLPLATE TO ONE SIDE AND GRIND OUT FOR FLASHING.

Secure to wall using suitable masonry anchors (not supplied) at 500mm centres.



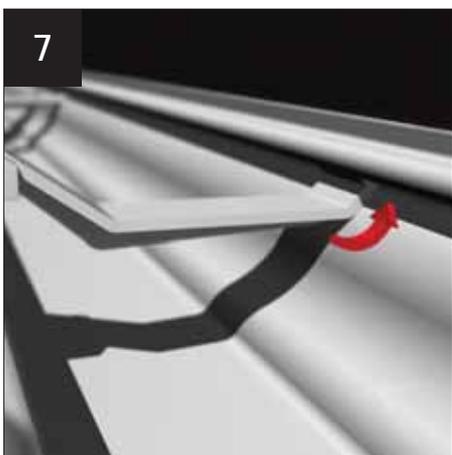
Build the gutter runs on the ground, by rolling items like the stopend under the back edge of a gutter bracket.



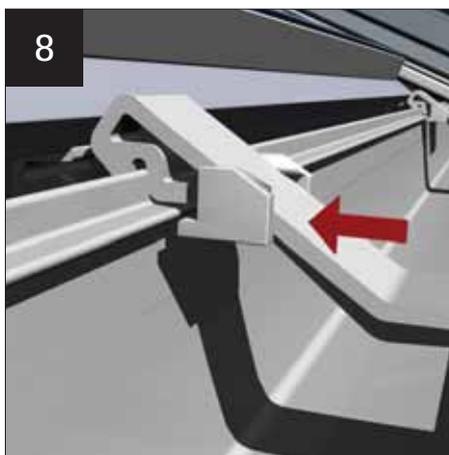
Snap the intergral clips on the adaptors over the gutter.



Fit all the gutter brackets supplied with the kit at a maximum of 750mm centres and a maximum of 200mm from each corner.



Locate the back edge of each section of gutter into the slot in the gutter bracket. Clip the front of the bracket into the lip on the gutter. PVCu components like the gutter are easier to manipulate when warm. In cold conditions more 'force' may be required.

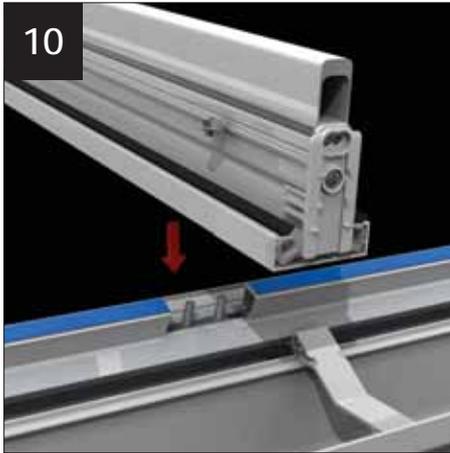


Push the sliding fixing block into place to lock out the gutter.

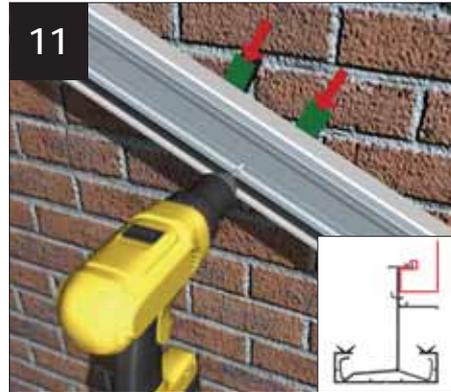


Fit glazing bars to wallplate, locating over twin bolts. Secure using the M6 nuts provided. At the wall bar or end bar use the single bolt.

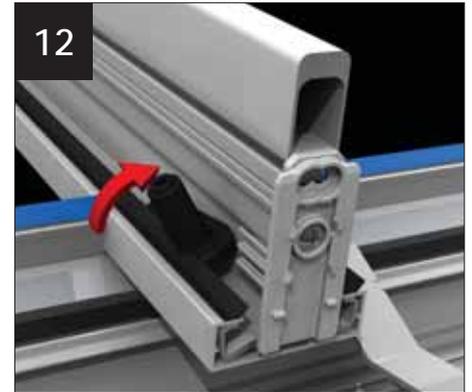
INSTALLATION - STANDARD LEAN-TO



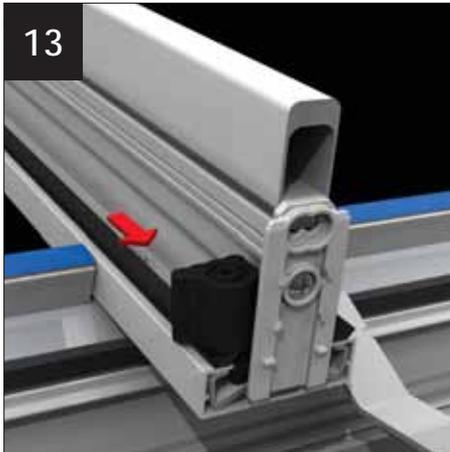
Fit glazing bars to the eaves, locating over twin bolts. Secure using the M6 nuts provided. At the wall bar or end bar use the single bolt.
NB. Ensure bar endcap fixing blocks have been fitted



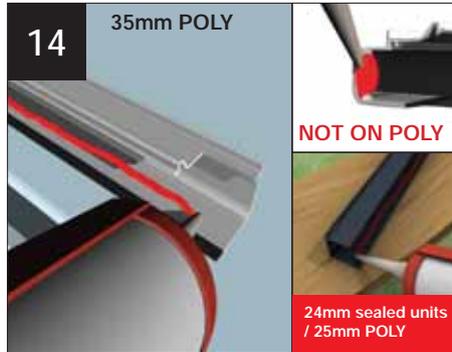
Drill the wall bar and masonry within 200mm of the ridge and eaves beam plus at least one more equidistant between the two. Pack out to support the starter bar behind each fixing before fitting the correct masonry anchors.
NB. Ensure soaker is clipped into starter bar.



Snap off appropriate handed glazing retention clip. Handing is marked on base of clip. Line up the rounded edge on base plate next to the central web of glazing bar, then tuck neatly under the gasket side of the bar. Rotate clip into position. Push the grommet over the post as shown. Repeat for the other side of the bar. At wall or end bars just fit appropriate side for glazing.



Slide the complete assembly down the glazing bar, using the fixing block as a 'stop'.



Now take the glazing end profile (PVC for 35mm poly and aluminium for 24mm glass / 25mm ply above (see inset) and run continuous bead of sealant (appropriate for glazing) immediately behind the co-extruded gasket (along the full length). Now seal the space between the glazing end profile and the sealed unit (see inset) at each end. **DO NOT DO THIS ON POLYCARBONATE**



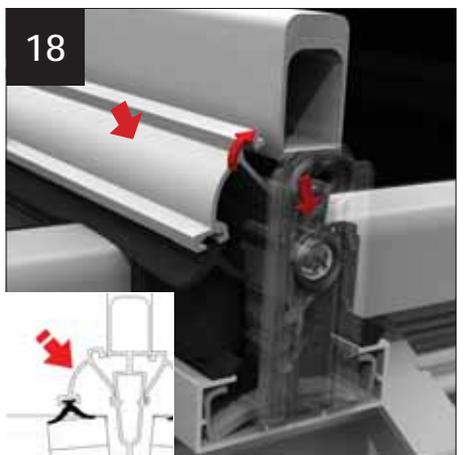
If using muntin bars to join sealed units see p8 step 1-5. Tease the 'tail' of the glazing support trim tape free (ready to be pulled away when the sealed unit is finally in position). This preparation should be done at both eaves and wallplate. **DO NOT FULLY REMOVE TAPE YET**



Centralise the glazing between the glazing bars. If necessary, pack it out on each side. Make sure a 'tail' of protective tape is peeled back from glazing support trim. Ensure glass panel sits snug behind the retention clip. Press down onto the support trim. Using the fixings provided, screw down the glass/poly clips into the bar as shown.



Fit square bead between glazing bars first. Engage lower leg into groove & work from one end to the other using thumb pressure to compress the gasket and engage the top clip of the bead. Apply constant pressure to the bead as you work along.



Fit ogee bead to the glazing bars. Engage lower leg into groove & work from one end to the other using thumb pressure (at an angle as shown) to compress the gasket and engage the top clip of the bead. Apply constant pressure to the bead as you work along. Butt up to square beads on the wallplate.

INSTALLATION - STANDARD LEAN-TO



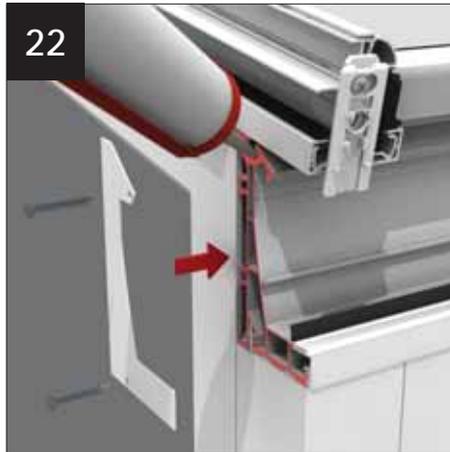
Place and centralise the wallplate cover over the wallplate. Seal as shown. **Remember - MS Polymer for self cleaning glass (p2)**



Compress cover and drill Ø3.5mm pilot holes through cover into the wallplate at 500mm centres. Compress cover and fix with screws. Ensure that flashing covers the screw heads.



Apply silicone to face of wallplate. Position wallplate endcap over the top of the wing endcap and fix using screws and snap cap bases through holes. Using self drill screw, fix into front face of square bead through hole in endcap tab. Silicone around end bar. Push screw cap cover over base to finish.



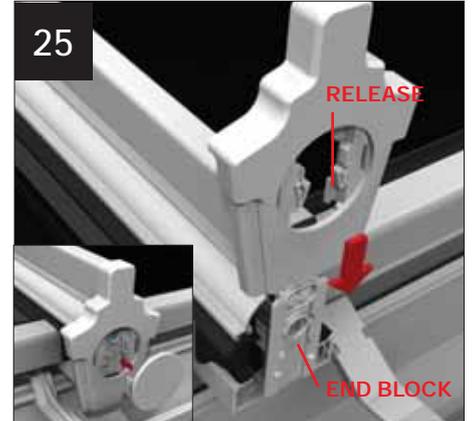
Apply silicone to face of eaves beam. Position cut endcap over eaves beam and fix using screws and snap cap bases provided through holes in endcap. Push screw cap cover over base to finish.



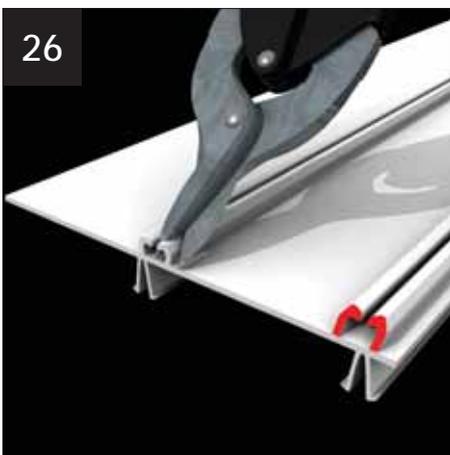
Hook gable cladding over the top lip of end bar (ensuring that cladding is pushed up against wallplate endcap tab) and clip into place along top of firring or raked frame. Work from wallplate down to eaves clipping in place.



Silicone joints between wallplate and endcap



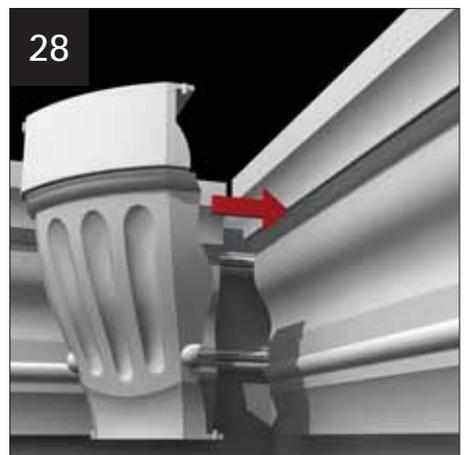
Ensure the end blocks are on tight. Slide endcaps down over the fixing block and clip into position as far down as possible. Use appropriate endcap to suit shape of bar. Push fit the insert into the endcap and clip into position. **NB. Ensure the roof is fully finished before fitting endcaps as they are a 'snug' fit and awkward to remove later.**



Now moving inside if the fascia is returning round a corner, snip back barbs as shown to ensure that carrier fits snugly into the corner. **NB. Ensure glazing support trim tape at eaves and ridge is fully removed.**

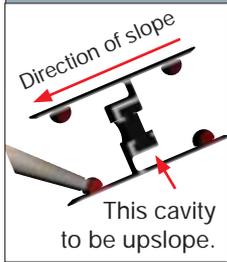
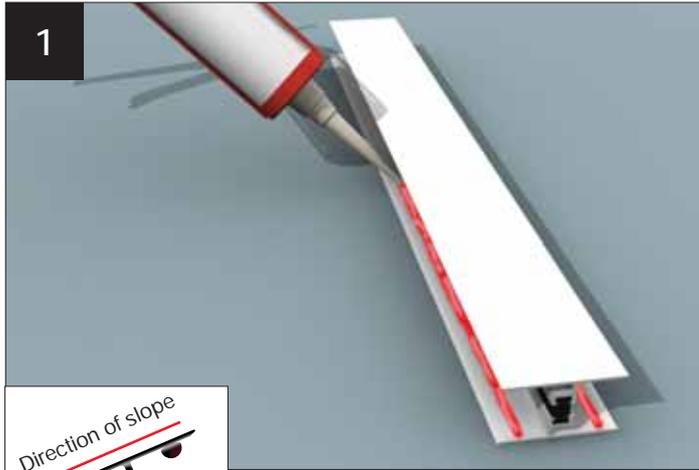


Gently tap carrier home using rubber mallet & timber block (bridging clips). Hold up Heritage cladding to assess correct height (approx 10mm gap under bars). If roof has boxgutter, fit heritage to boxgutter first & then to remainder of roof. Check height is equal around roof. Using rubber mallet & timber block, knock home the cladding.

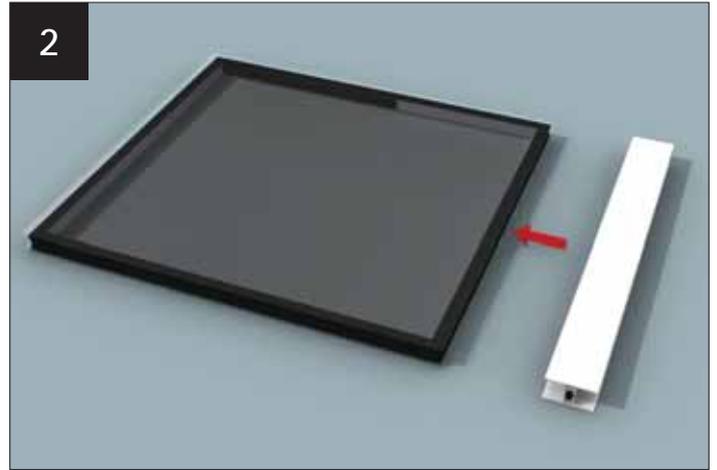


Clip corner trim in position by hooking over the top of Heritage cladding and clipping underneath.

MUNTIN (GLASS JOINTER)



Prepare the glass jointer using the appropriate sealant in the four positions shown.



Slide the glass jointer onto the upper glass unit. Fit assembled unit into the roof.

IMPORTANT NOTE - APPLIES TO STEPS 2 - 5. 'H' SECTION GLASS JOINTER TO BE POSITIONED AS INSET ILLUSTRATION ON INSET 1



Fit lower glass unit into glass jointer.



Install beads to bars. Point with appropriate sealant at the intersection between the glass jointer and bead gasket.



Using appropriate sealant run beads along the top and bottom of the glass jointer.

INSTALLATION STEPS - QUARTER RADIUS END



1. untrimmed
2. cut in half
3. cutout for wall bar

Cut weathering shield in half and remove section for wall bar (easier to cut after trial fitting to roof). See step 5.



Offer up wallplate as per lean to guide. Drill holes through quarter radius end back plate/masonry (avoid mortar joints) and drill holes in wallplate/masonry to suit appropriate fixing for substrate.

INSTALLATION - QUARTER RADIUS END



Secure in place using appropriate fixings. Fit wing (if variable).

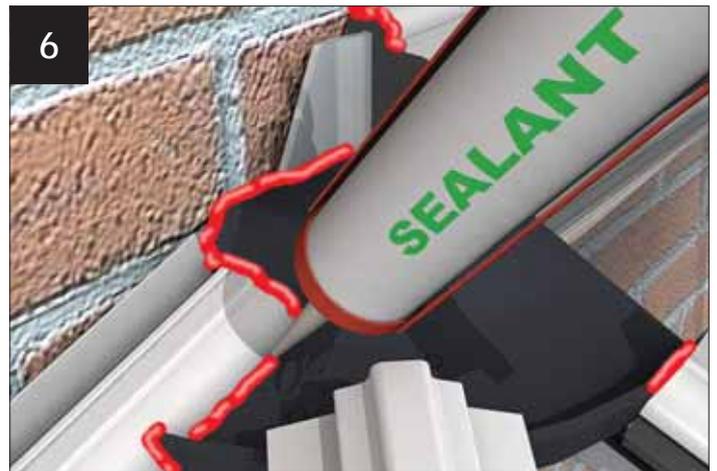
FITTER'S TIP: It may be easier for setout to fit wall bar first (step 4) to create an 'A' frame to accurately position wallplate.



Prior to attaching the wall bar to the bar bracket, remove the M6 taptite screw. Locate the bar on the bracket and bolt bottom of bar to the eaves beam using the single bolt. Re-insert the screw. Drill the starter bar/masonry within 200mm of the wallplate and eaves beam plus at least one more equidistant between the two. Pack out to support the starter bar behind each fixing before fitting the correct masonry anchor. Fit remaining bars as per roof plan.



Glaze the roof and fit beads. At this stage trial fit weathering shield and cut to suit wall bar (see step 1). Silicone underside as per Georgian installation guide (P19, step 27) and fit to glazing.



Silicone around all the bars and where the weathering shield meets the glazing. Silicone around where the weathering shield meets the wallplate.



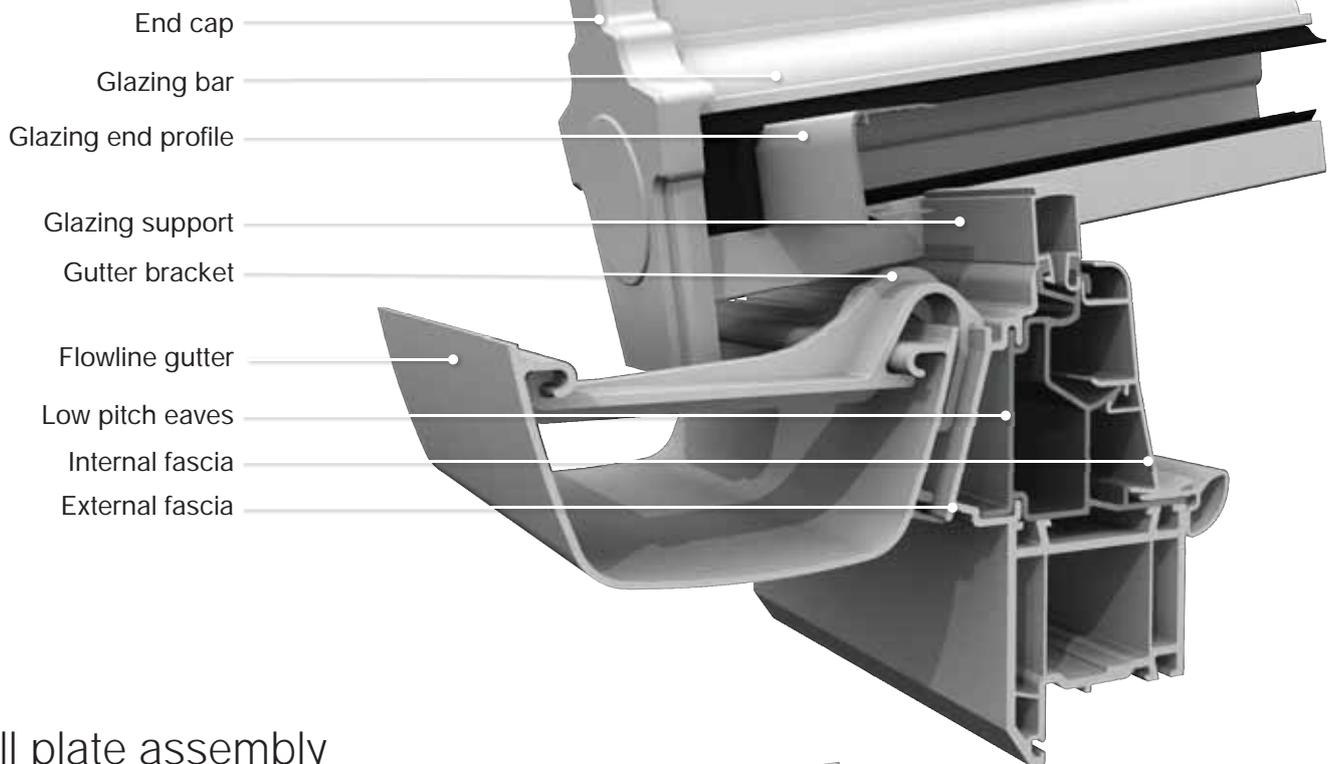
Fit front and rear screen to quarter radius end cap as per Georgian installation (apply silicone to perimeter groove, fit screens and leave to dry as per P19 step 30).



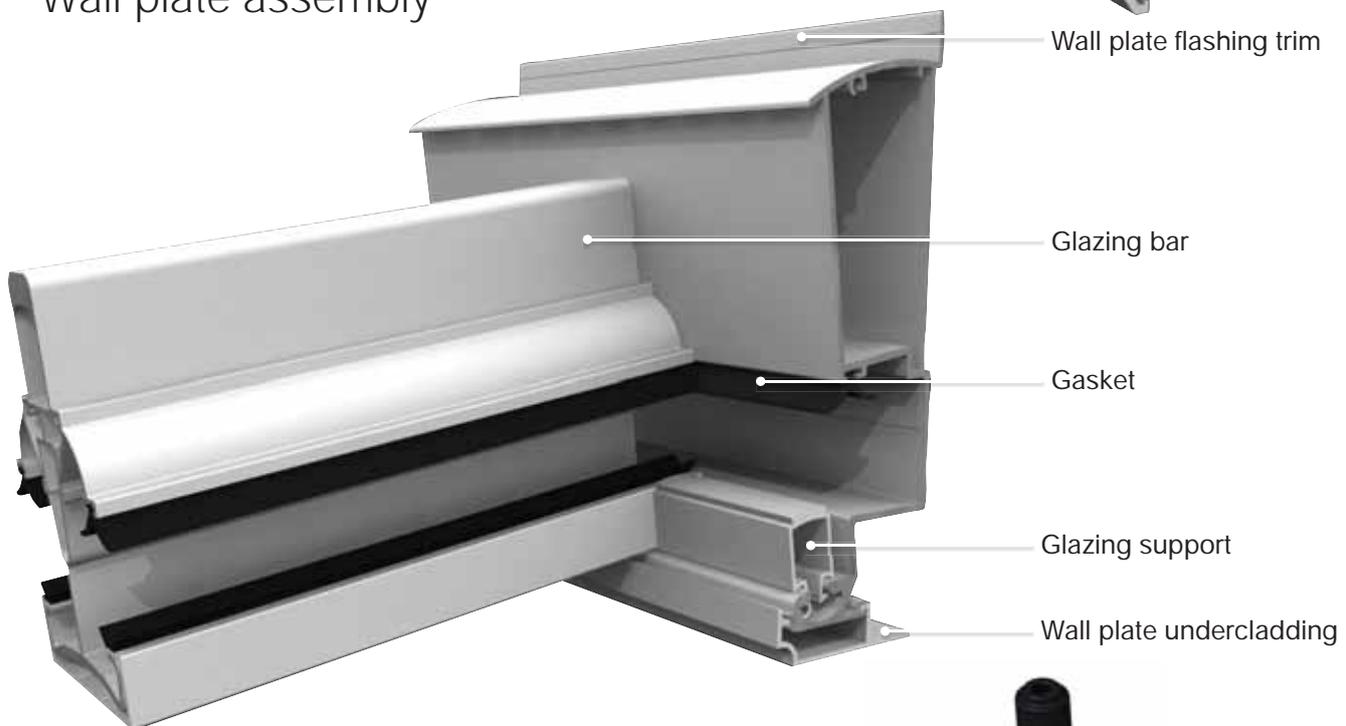
Offer up quarter radius end cap and screw fix into wall. Lead flash over top upstand. On roof pitches below 18° a rear upper screen is supplied on a variable wallplate. In this scenario screw fix in place with supplied screws and cover. Silicone seal joint between wallplate and radius end cover, see p 19. Fit pre cut internal cladding as per Georgian installation sequence p20.

PRODUCT IDENTIFICATION - LOW PITCH LEAN-TO

Eaves assembly

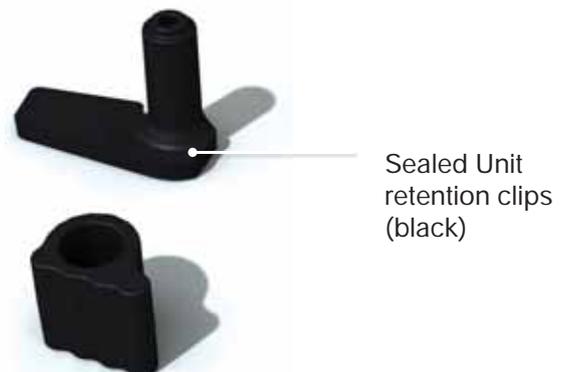


Wall plate assembly

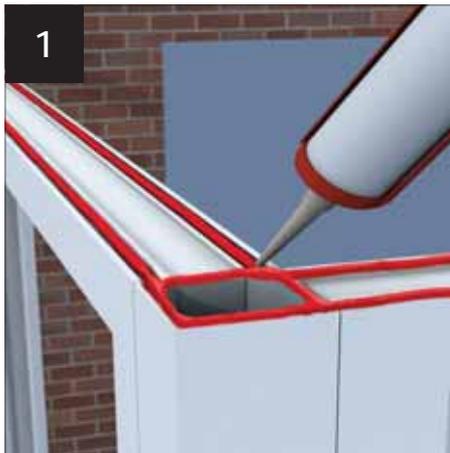


Glazing Retention clips

Whichever type of glazing material is selected, retention clips are automatically specified to ensure that the chance of glazing panel slip is eliminated.



INSTALLATION - LOW PITCH LEAN-TO WITH FIRRINGS



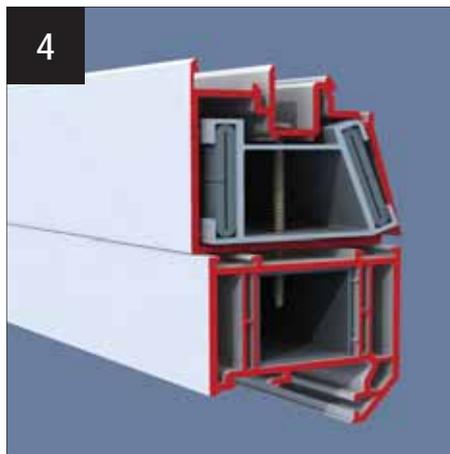
1
Silicone seal the head of the side frames including cornerpost.



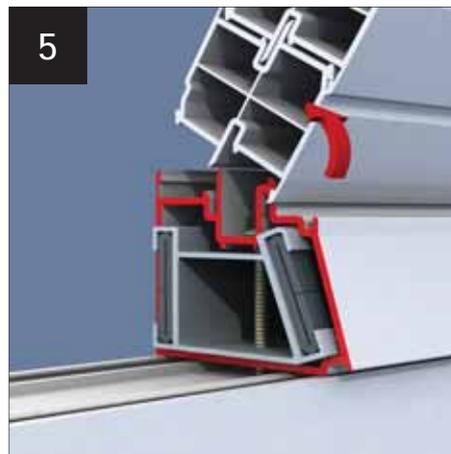
2
Each furring is 45mm longer than the internal frame projection. When cutting the furring, always do this at the back (rear) and ensure that all elements are in aligned.



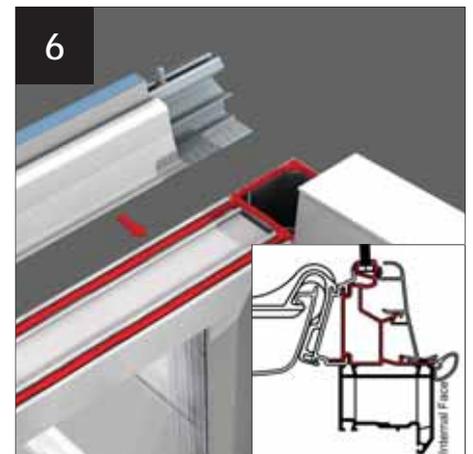
3
Unpack and slide in the aluminium box section (if ordered) and, the two pieces of steel re-inforcing (if ordered). If only one section of stage 1 re-inforcing is supplied it usually signifies that this should be used above doors in the side elevation.



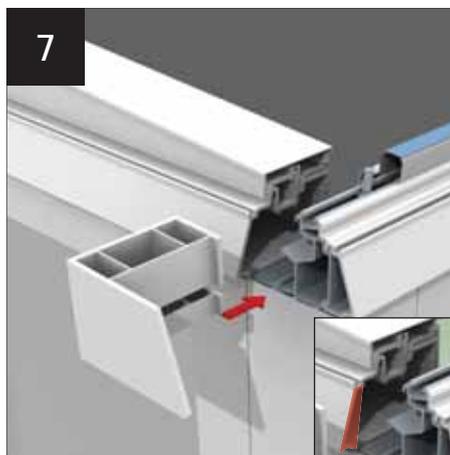
4
Ensure the inside face of the furring lines up with the internal face of the frame. Drill a 10mm hole through the pvc outer section, drill a 5mm hole through the furring and re-inforcement and secure with screws supplied.



5
Use the 4.8 diameter x 70mm fixing supplied at 450mm centres and within 200mm of the corners. Now, reassemble the furring by clipping in the bottom edge of the furring top section and roll into place.



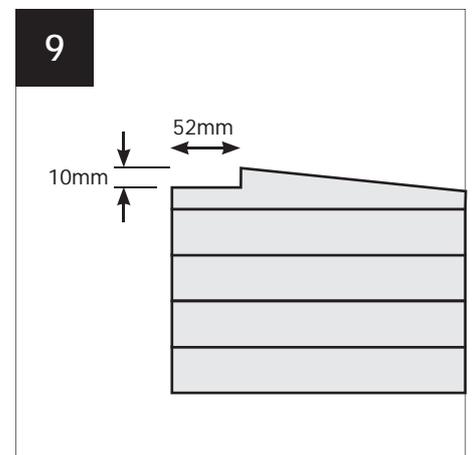
6
Align the eaves beam with the inner face of the window frames as shown. (See inset).



7
'Butter' with silicone then slide the eaves beam end cap block into place. It will be necessary to silicone seal the area highlighted in the inset image.



8
Drill a 5mm pilot hole in the eaves beam, fasten up or down using 4.8 x 32mm screws (not supplied) at 450mm centres. Refit internal claddings. If fastening up through the frames into the eaves beam use 4.8 x 55mm screws.



9
Notch out the top of the furring as shown to accommodate the wall plate.

INSTALLATION - LOW PITCH LEAN-TO



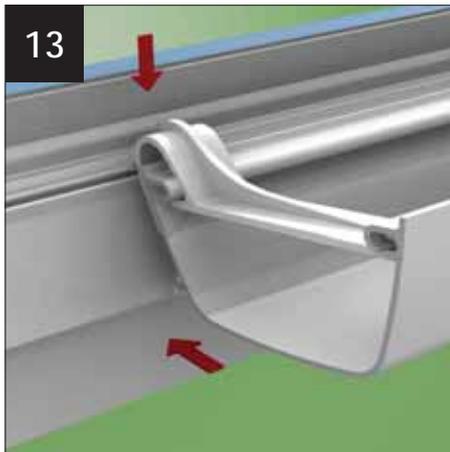
10 Offer the wallplate up to the wall and position it so that the top surface of the bolt slot is level with the top of the firrings.



11 Drill through the wallplate at 500mm centres and mark the position of each fixing on the house wall. Fix to host wall using suitable masonry anchors (not supplied).



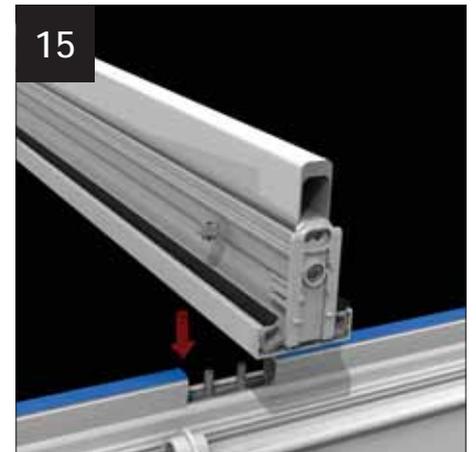
12 Systematically install the masonry anchors at 500mm centres



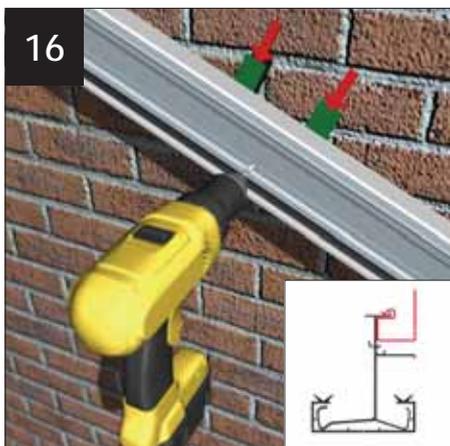
13 Locate the gutter brackets, stop end and stop end outlet and lift into position on the external fascia. Push down to locate the lower leg of the bracket. Assemble the rain water pipe, attach to the gutter and screw to the frame.



14 Fit glazing bars to wallplate, locating over twin bolts. Secure using the M6 nuts provided. At the wall bar or end bar use the single bolt.

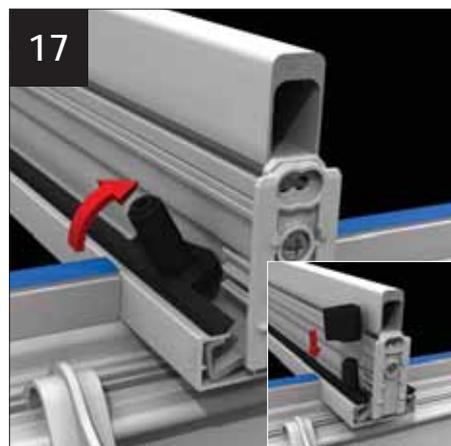


15 Fit glazing bars to the eaves, locating over twin bolts. Secure using the M6 nuts provided. At the wall bar or end bar use the single bolt. **NB. Ensure bar endcap fixing blocks have been fitted**

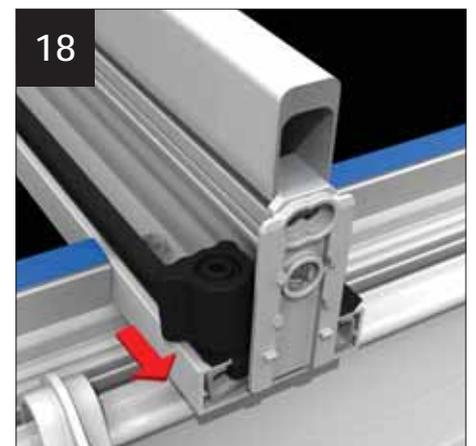


16 Drill the wall bar and masonry within 200mm of the ridge and eaves beam plus at least one more equidistant between the two. Pack out to support the starter bar behind each fixing before fitting the correct masonry anchors.

NB. If ordered, ensure soaker is clipped into starter bar.



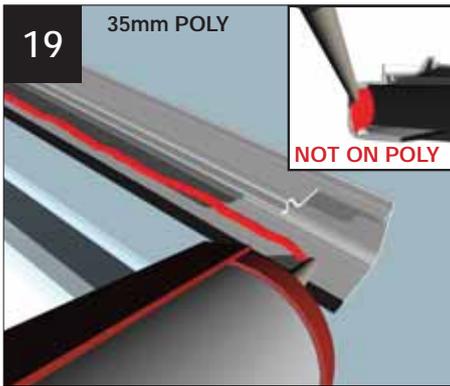
17 Snap off appropriate handed glazing retention clip. Handing is marked on base of clip. Line up the rounded edge on base plate next to the central web of glazing bar, then tuck neatly under the gasket side of the bar. Rotate clip into position. Push the grommet over the post as shown. Repeat for the other side of the bar. At wall or end bars just fit appropriate side for glazing.



18 Slide the complete assembly down the glazing bar, using the fixing block as a 'stop'.

NB. Glazing retention clips - coloured black for sealed units and white for polycarbonate

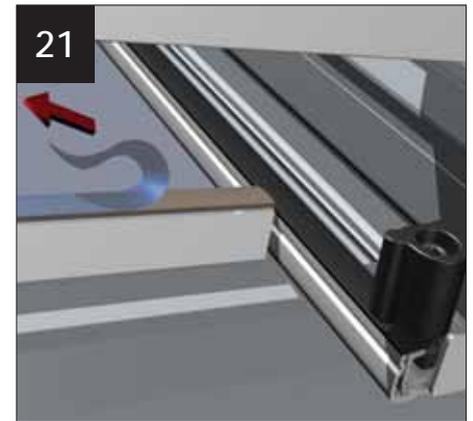
INSTALLATION - LOW PITCH LEAN-TO



Now take the glazing end profile (PVC for 35mm poly and aluminium for 24mm glass / 25mm ply above) and run continuous bead of sealant (appropriate for glazing) immediately behind the co-extruded gasket (along the full length). Now seal the space between the glazing end profile and the sealed unit (see inset) at each end. **DO NOT DO THIS ON POLYCARBONATE**



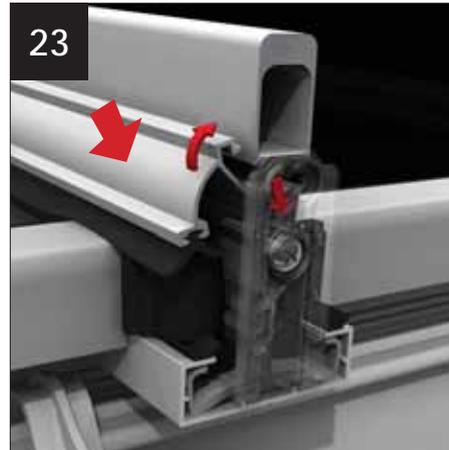
Take the painted aluminium profile and protect its surface. Apply a bead of relevant sealant (MS polymer on self cleaning glass). Slide into position on sealed unit, wipe clean any sealant from surface of glass.



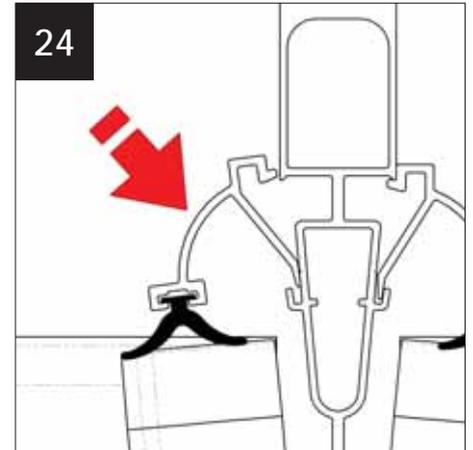
If using muntin bars to join sealed units see p8 step 1-5. Tease the 'tail' of the glazing support trim tape free (ready to be pulled away when the sealed unit is finally in position). This preparation should be done at both eaves and wallplate. **DO NOT FULLY REMOVE TAPE YET**



Centralise the glazing between the glazing bars. If necessary, pack it out on each side. Make sure a 'tail' of protective tape is peeled back from glazing support trim. Ensure glass panel sits snugly behind the retention clip. Press down onto the support trim. Using the fixings provided, screw down the glass/poly clips into the bar as shown.



Fit ogee bead to the glazing bars. Ensure that bead is pushed up against wallplate face.



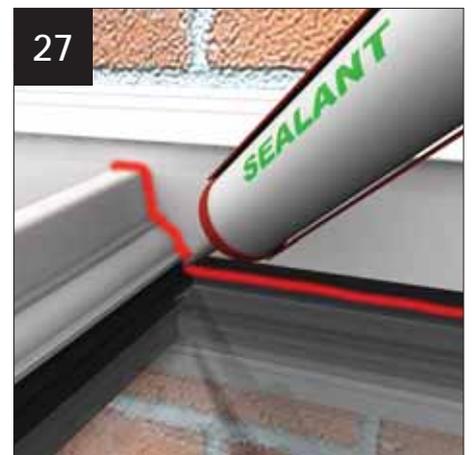
Engage lower leg into groove & work from one end to the other using thumb pressure (at an angle as shown) to compress the gasket and engage the top clip of the bead. Apply constant pressure to the bead as you work along.



Apply silicone to face of wallplate. Position endcap over wallplate and fix using screws and snap cap bases through holes. Silicone around end bar.

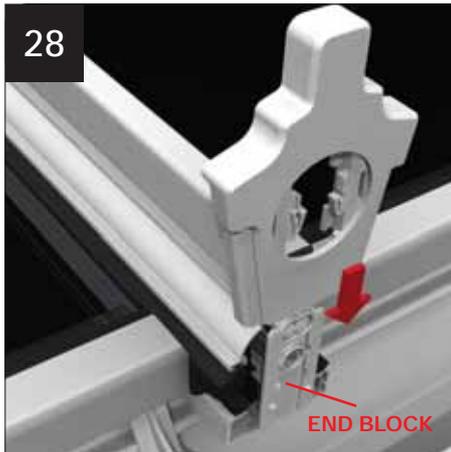


Hook gable cladding over the top lip of end bar (ensuring that cladding is pushed up against wallplate endcap tab) and clip into place along top of furring or raked frame. Work from wallplate down to eaves clipping in place.

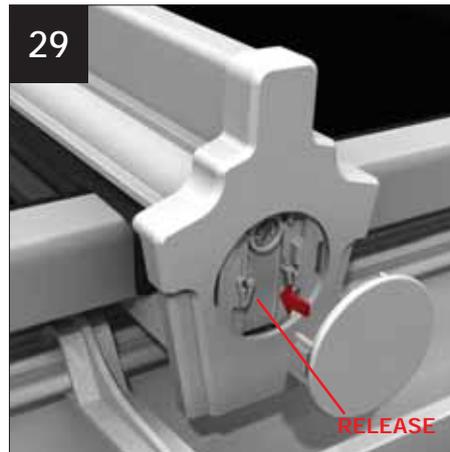


Seal where top caps abut and up to gasket. **Remember to use MS polymer if it is self cleaning glass.**

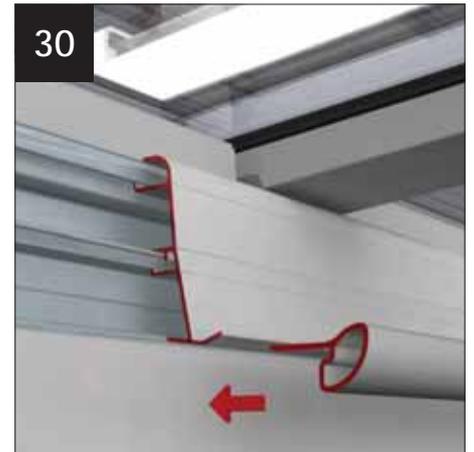
INSTALLATION - LOW PITCH LEAN-TO



Ensuring end blocks are on tight, slide endcaps down over the fixing block and clip into position as far down as possible. Use appropriate endcap to suit shape of bar.



Push fit the insert into the endcap and clip into position.



Push fit the internal fascia trim into position.

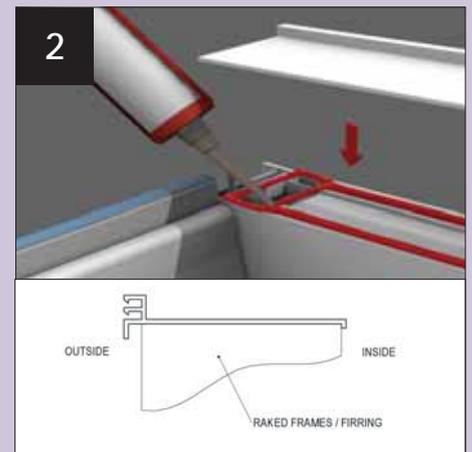
NB. Ensure the roof is fully finished before fitting endcaps as they are a 'snug' fit and awkward to remove later.

NB. Ensure glazing support trim tape at eaves and ridge is fully removed.

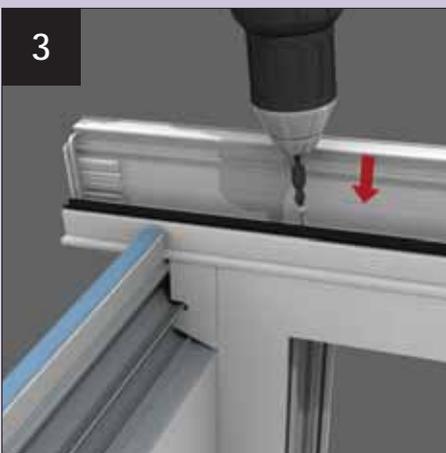
INSTALLATION USING RAKED FRAMES



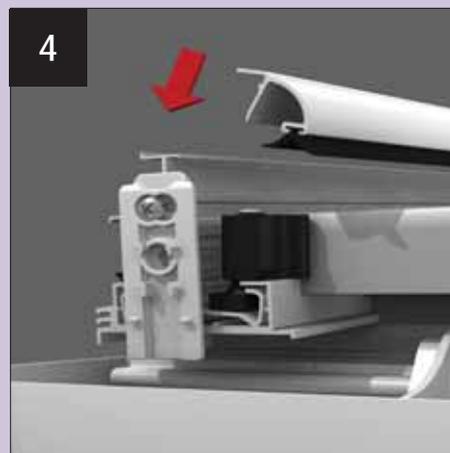
Offer the wallplate up to the wall and position it so that the top surface of the bolt slot is level with the top of the side frames.



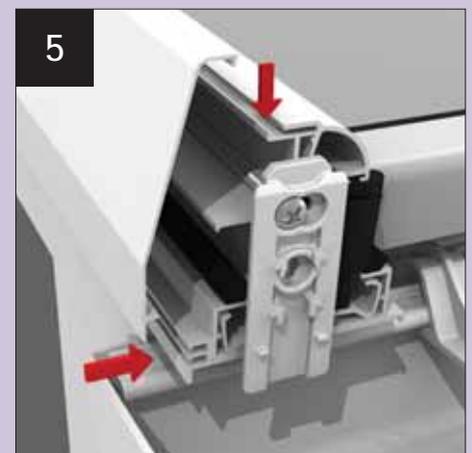
Run two beads of silicone along the head of the raked frame prior to fitting the top cap (supplied).



Screw fix the glazing bar down into the head of the raked frame at 500mm centres. Continue to fit the glazing as in steps 20-23 in main guide.



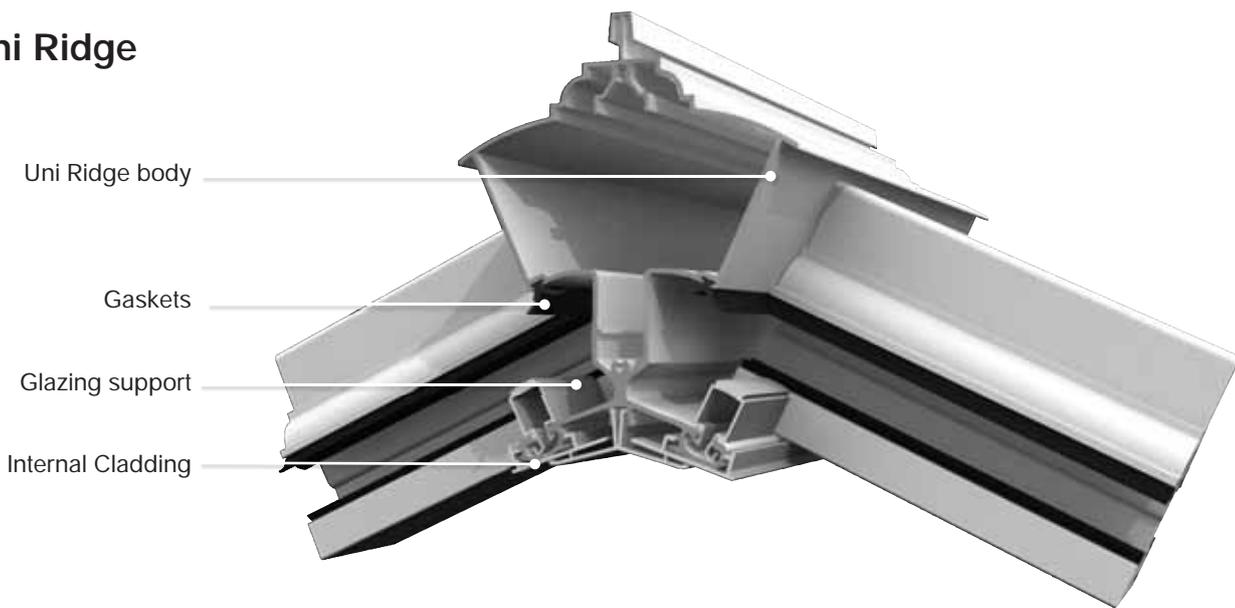
Fit jack bead to the glazing bars. Ensure that bead is pushed up against wallplate face. Engage lower leg into groove & work from one end to the other using thumb pressure to compress the gasket and engage the top clip of the bead. Apply constant pressure to the bead as you work along.



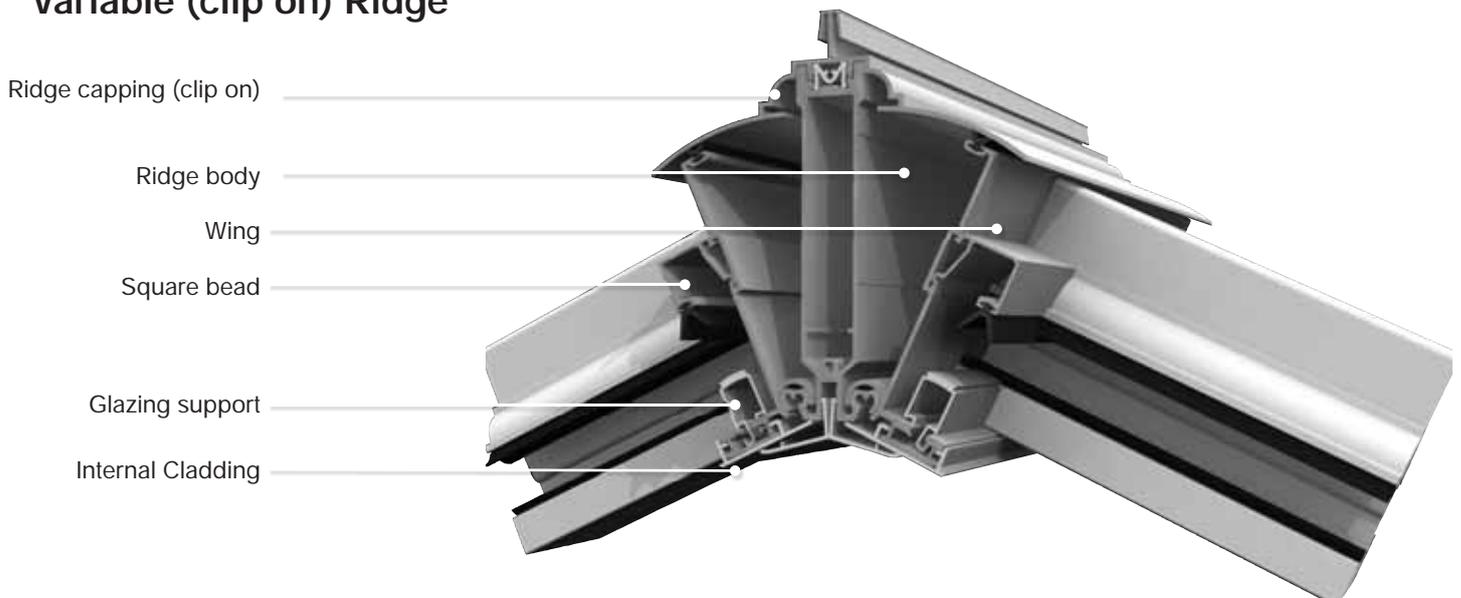
Hook gable cladding over the top lip of end bar (ensuring that cladding is pushed up against wallplate endcap tab) and clip into place along top of furring or raked frame. Work from wallplate down to eaves clipping in place.

PRODUCT IDENTIFICATION - GEORGIAN KIT ROOF

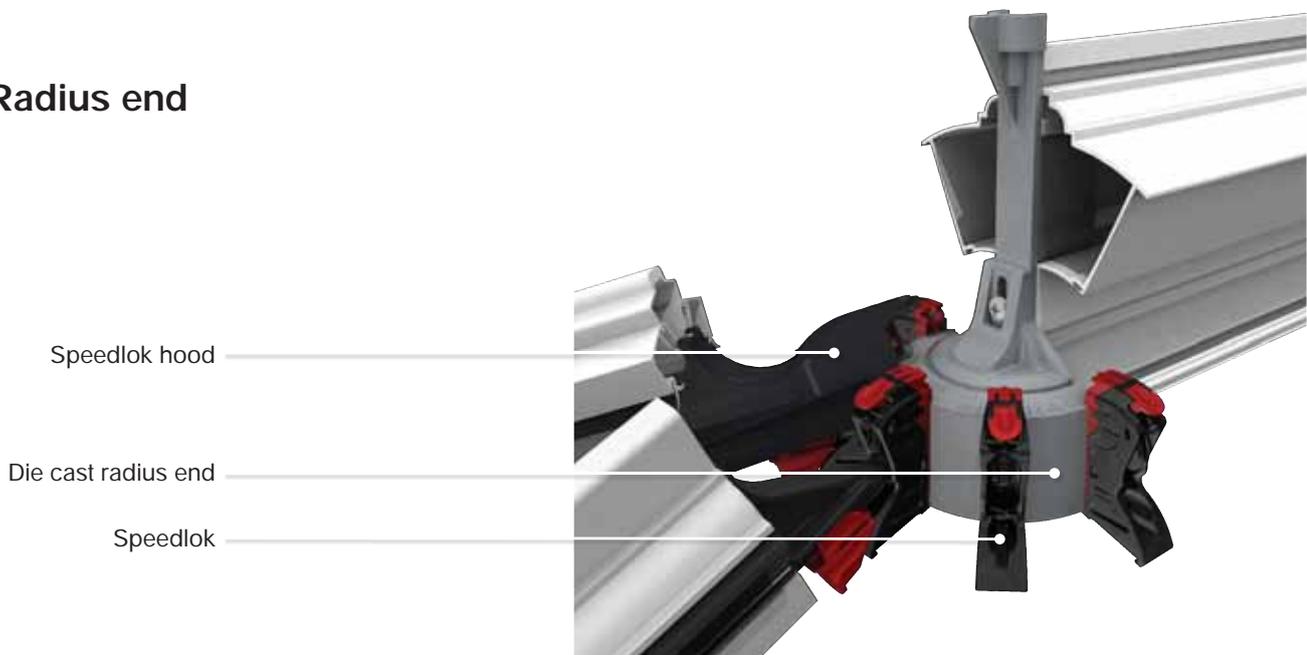
Uni Ridge



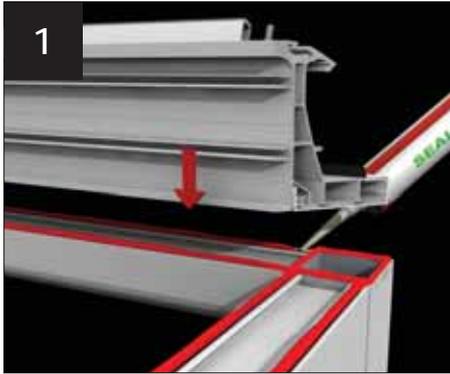
Variable (clip on) Ridge



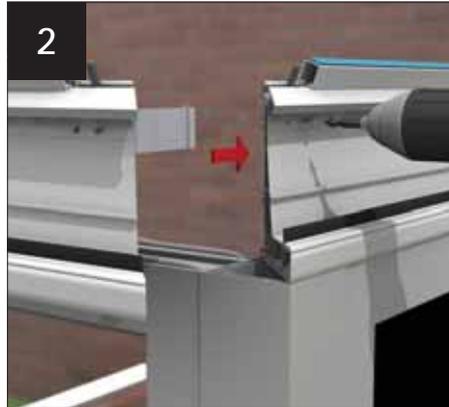
Radius end



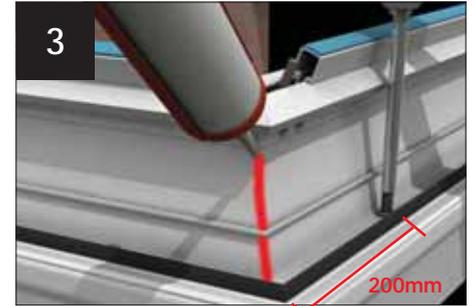
INSTALLATION - GEORGIAN KIT ROOF



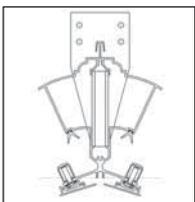
Apply a continuous bead of silicone to the front and rear inner legs of the window frames including cornerpost. Fit the initial piece of eaves beam ensuring that the inside face of the eaves beam is flush with the inside face of the window frame. **Please note: Ensure that the under gutter trim is fitted to the eaves beam and all bolts are in situ prior to fixing to the frames.**



Place the next section of eaves beam into position, by slotting the corner cleat on the adjacent piece of eaves beam into the first piece. Using the pre-drilled pilot holes, drill two 4.5mm holes through the corner cleats. Securely fit the two M5 x 12mm tapitite screws.



Securely fit the eaves beam to the frames using for example, 38mm x 4.8mm screws in the position shown. Fix down at 450 centres and within 200mm of each corner. For 60mm frames use the inner eaves extrusion line and outer line for 70mm frames. Always screw down. (Not supplied). Once the eaves beam is secure, run a bead of silicone down the joint where the eaves beam sections meet and where the eaves abuts the host wall. **YOU MAY AT THIS STAGE INSTALL THE GUTTERING PRIOR TO FITTING THE GLAZING BARS - see step 16 - 21**



Using roof rise height supplied set ridge and temporary fix through holes in ridge wall hanger bracket. Temporarily support the ridge



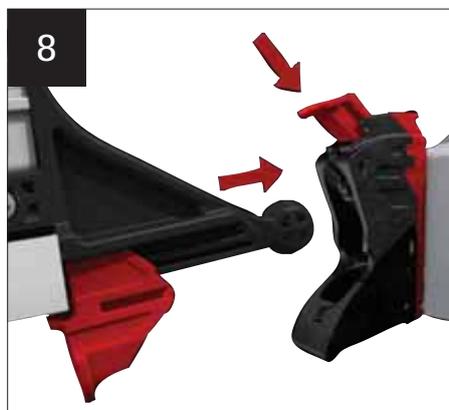
Fit the pre-formed soaker trim to each starter bar (if pre-ordered). Temporarily support the ridge and offer up the starter bars, attaching loosely using the roofing nuts and bolts supplied. **THE SOAKER ALLOWS CONSERVAFLASH OR CODE 4 LEAD TO BE DRESSED BEHIND THE STARTER BAR TOP CAPPING.**



Tighten the glazing bars first at the ridge and then at the bottom (i.e. eaves beam). It will be necessary to use eaves beam packers (supplied) when the roof pitch is below 15° (lean-to) and above 35°. **NB. Ensure bar endcap fixing blocks have been fitted**



Offer up the hip bars.

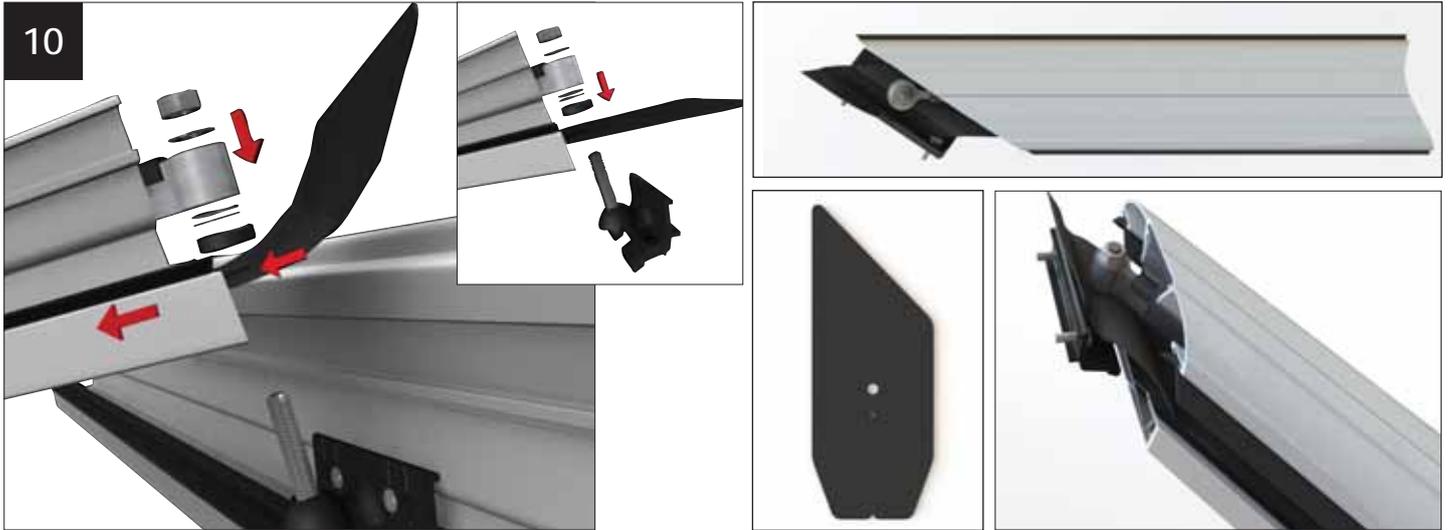


Using Speedlok on the glazing bar end, offer the 'ball' into the matching socket. Attach bar at eaves position. Using your thumb push down the upper dead lock so it's flush. **YOU MUST NOT PUSH UP THE LOWER WEDGE LOCK UNTIL STEP 14.** To remove the bar, lever up the dead lock using a flat blade screwdriver, then insert the screwdriver to release the socket latch.



Continue to attach the other glazing bars around the ridge end. Now start on the jack rafters. The two part jack rafter kit will already be fitted to the hip and jack rafter bars. Again refer to the location plan and corresponding labels attached to the parts.

INSTALLATION - GEORGIAN KIT ROOF



Slide back the jack rafter undercladding. Each jack rafter kit is supplied with a number of washers and a 'Jack Flash'. Fit Jack Flash then trial fit the jack rafter and check that the glazing platforms are level. Adjust if necessary by adding or removing washers between the two part connecting kit, then tighten the nut. Install 'Jack Flash' onto Jack bar lining hole with hole in tennon.



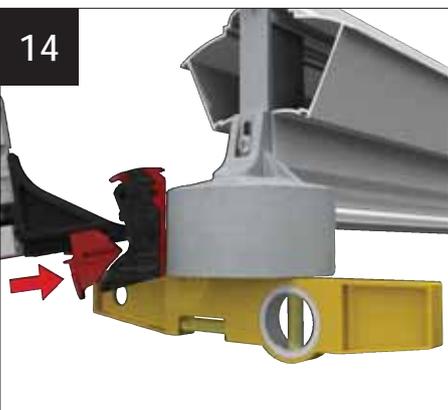
Continue to support the ridge and offer up the transom glazing bars (above), loosely attaching using the roofing nuts and bolts supplied.



Ensure the window frames are plumb. If required pack behind ridge and ensure it is level.



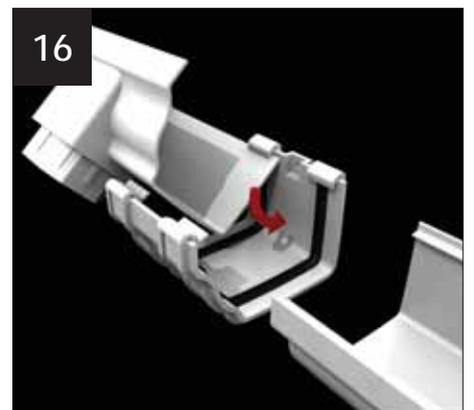
Drill the starter bars/masonry within 200mm of the ridge and eaves beam plus at least one more equidistant between the two. Pack out to support the starter bar behind each fixing before fitting the correct masonry anchor. If necessary pack behind the ridge too with aluminium shims.



Finally when all is level and plumb, use your thumb to push up all the lower wedge locks. The roof is now set. **Now return to fasten the frames to the host wall and the dwarf wall.**

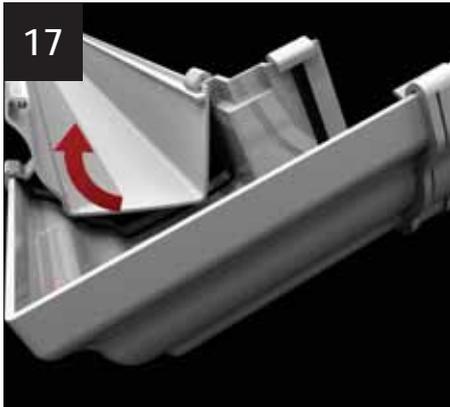


Fit weathering hoods to Speedloks and then push down to locate, with the final position abutting the front edge of the die cast end.



Next, build on the ground the gutter runs, by rolling items like a stopend under the back edge of a gutter jointer.

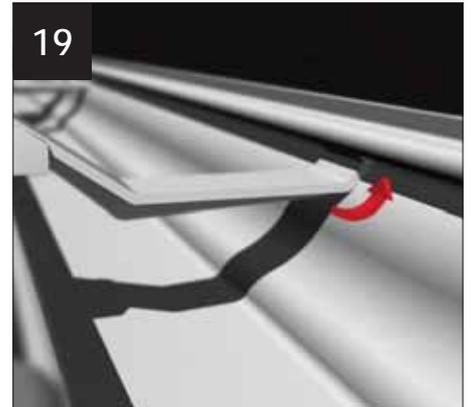
INSTALLATION - GEORGIAN KIT ROOF



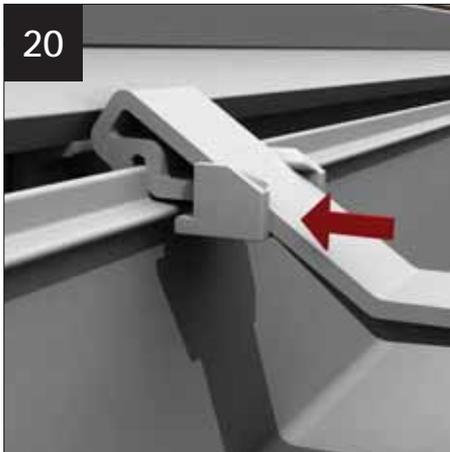
17 Snap the integral clips on the adaptors over the gutter.



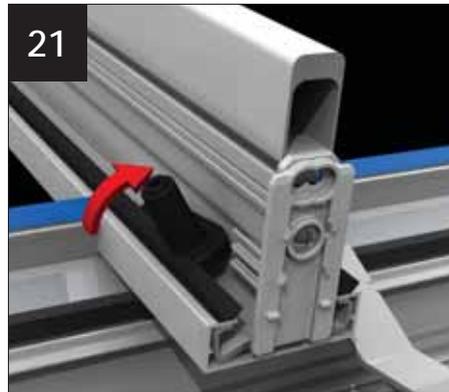
18 Fit all the gutter brackets supplied with the kit at maximum 750mm centres and maximum 200mm from each corner.



19 Locate the back edge of each section of gutter into the slot in the gutter bracket. Clip the front of the bracket into the lip on the gutter. PVCu components like the gutter are easier to manipulate when warm. In cold conditions more 'force' may be required.



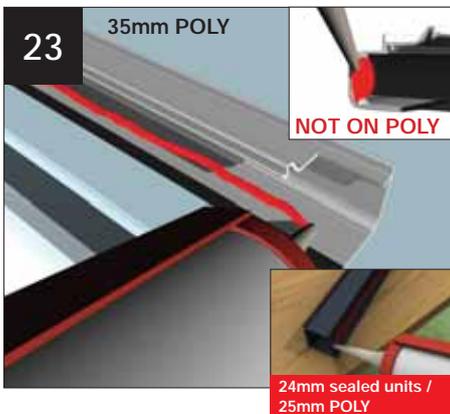
20 Push the sliding fixing block into place to lock out the gutter.



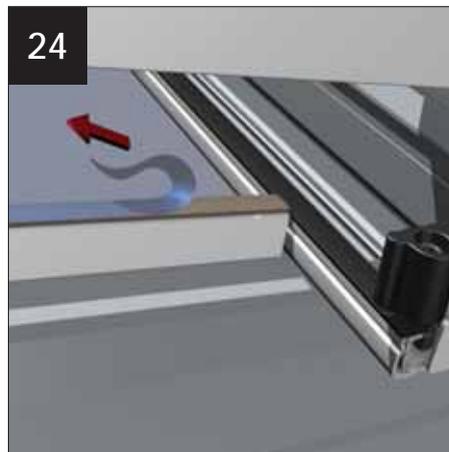
21 Snap off appropriate handed glazing retention clip. Handing is marked on base of clip. Line up the rounded edge on base plate next to the central web of glazing bar, then tuck neatly under the gasket side of the bar. Rotate clip into position. Push the grommet over the post as shown. Repeat for the other side of the bar. At wall or end bars just fit appropriate side for glazing.



22 Slide the complete assembly down the glazing bar, using the fixing block as a 'stop'.



23 Now take the glazing end profile (PVC for 35mm poly and aluminium for 24mm glass / 25mm ply (see inset) above and run continuous bead of sealant (appropriate for glazing) immediately behind the co-extruded gasket (along the full length). Now seal the space between the glazing end profile and the sealed unit (see inset) at each end. **DO NOT DO THIS ON POLYCARBONATE**

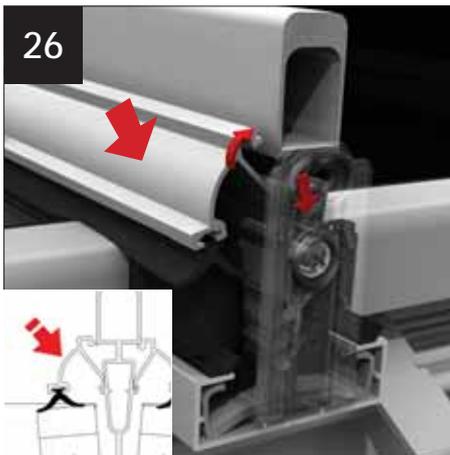


24 If using muntin bars to join sealed units see p8 step 1-5. Tease the 'tail' of the glazing support trim tape free (ready to be pulled away when the sealed unit is finally in position). This preparation should be done at both eaves and wallplate. **DO NOT FULLY REMOVE TAPE YET**

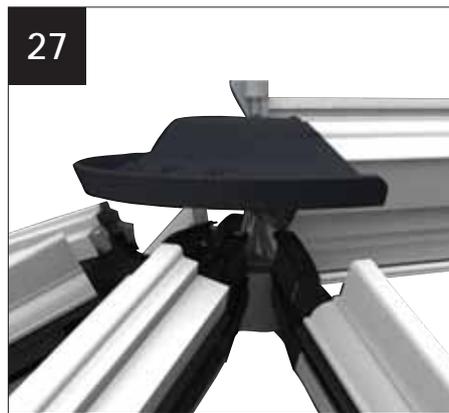


25 Centralise the glazing between the glazing bars. If necessary, pack it out on each side. Ensure glass panel sits snugly behind the retention clip. Peel back protective tape from glazing support. Press down onto the support trim. Using the fixings provided, screw down the glass/poly clips into the bar as shown.

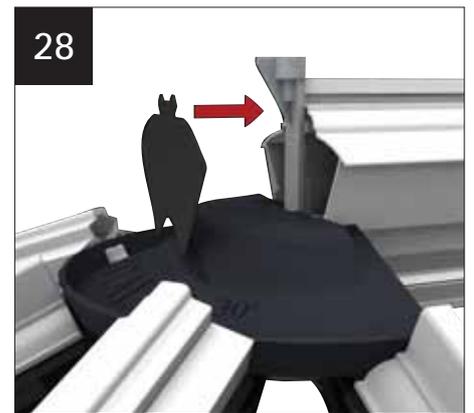
INSTALLATION - GEORGIAN KIT ROOF



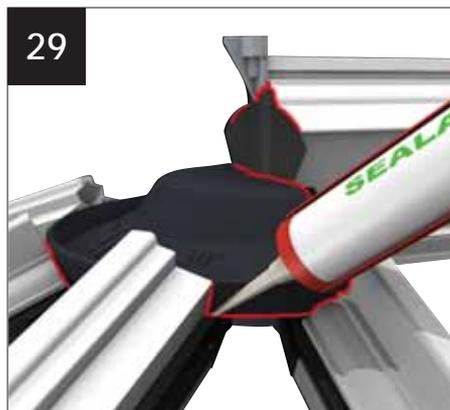
Fit ogee bead to the glazing bars. Engage lower leg into groove & work from one end to the other using thumb pressure (at an angle as shown) to compress the gasket and engage the top clip of the bead. Apply constant pressure to the bead as you work along. Butt up to square beads on the variable ridge wings or UNI ridge.



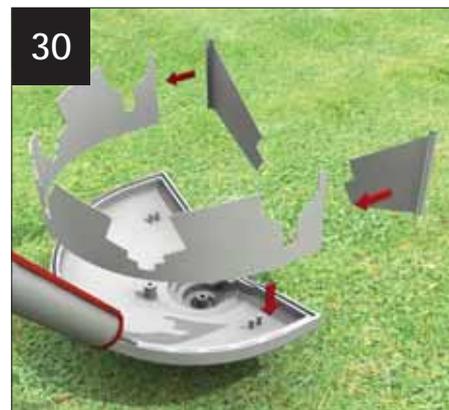
Apply silicone to weather seal as shown. Apply weather seal to glazing, locking wings around ridge - **remember, MS Polymer for self cleaning glass (see p2).**



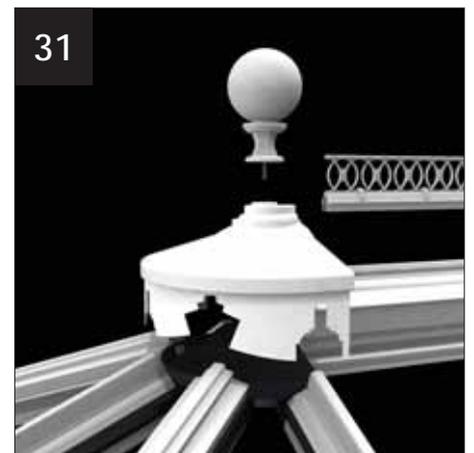
Apply ridge end seal to aluminium body (seal is self adhesive)



Silicone around tops of bars to weather seal around ridge - also seal around back of ridge end, seal to ridge body.
- **remember, MS Polymer for self cleaning glass (see p2).**



Apply silicone to perimeter groove on radius end top cap. Bend front screen and insert into groove. Apply silicone to channels in rear screens and insert into channels in radius end. Clean off excess silicone. Leave to dry



Fit radius end top cap by screwing finial through hole into radius end below. Push fit cresting in place along the ridge.



If no finial is specified, secure radius end top cap using the supplied bolt and cap cover. Apply a bead of sealant along the back of the top cap - **remember, MS Polymer for self cleaning glass (see p2).**



On roof pitches below 18° the radius end topcap is lifted slightly on a factory fitted spacer (see inset) to clear the tops of bars. In this scenario a rear upper screen is supplied. Fix in place using the supplied self drill screws and covers.



Apply a small bead of sealant along the ridge

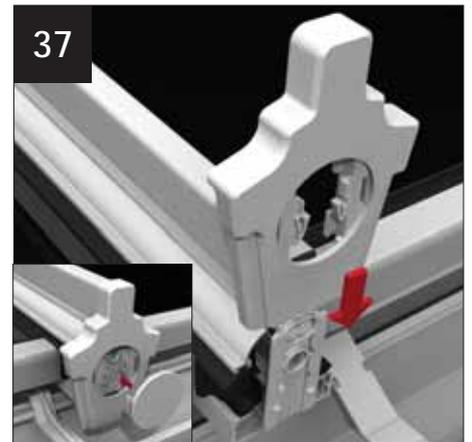
INSTALLATION - GEORGIAN KIT ROOF



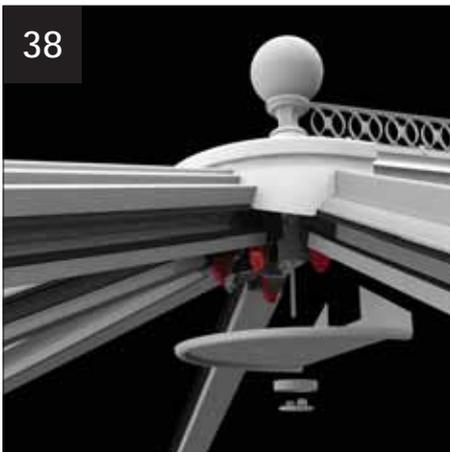
35 Take ridge wall flashing saddle and liberally apply sealant on to it.



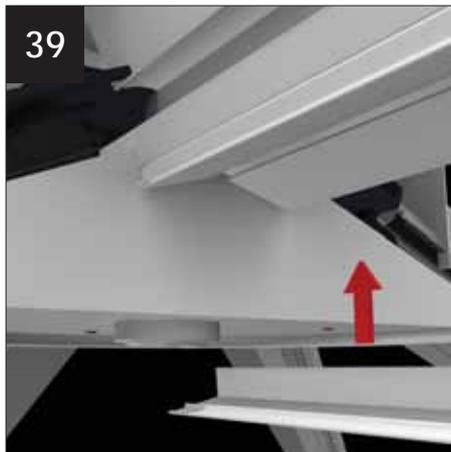
36 Place ridge wall flashing saddle over ridge body. Complete flashing installation



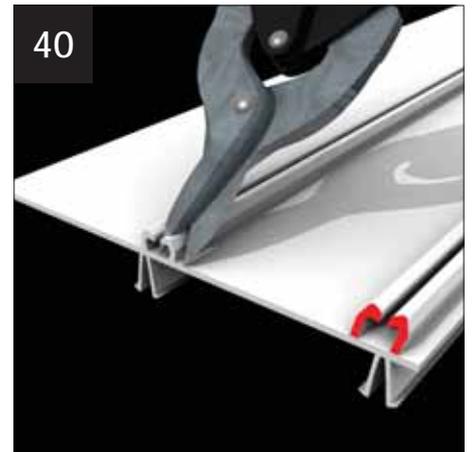
37 **Ensure the end blocks are on tight.** Slide endcaps down over the fixing block and clip into position as far down as possible. Use appropriate endcap to suit shape of bar. Push fit the insert into the endcap and clip into position. **NB. Ensure the roof is fully finished before fitting endcaps as they are a 'snug' fit and awkward to remove later.**



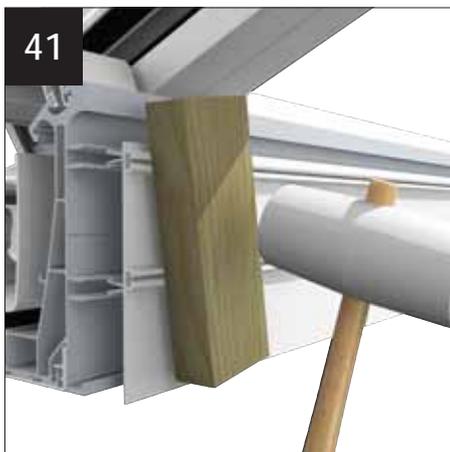
38 Take the ridge under cap and trim to size using template on back edge. Cut M10 nylon threaded bar to correct length (as shown on template). Screw into underside of radius end. Locate undercladding and screw on retaining boss. Push fit end cap.



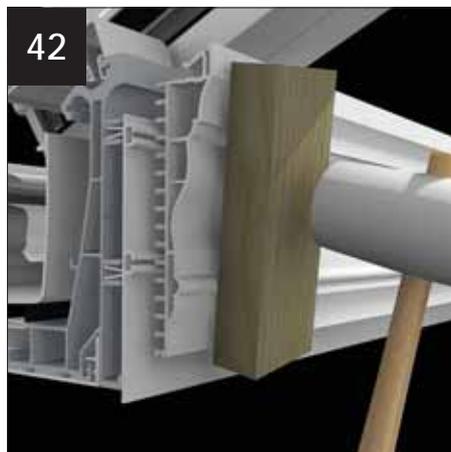
39 Push fit centre ridge undercladding to finish ridge assembly.



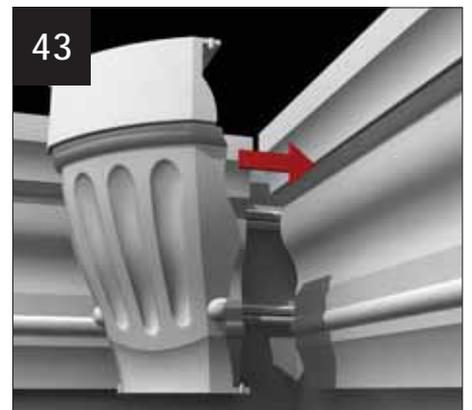
40 **IMPORTANT:** If eaves beam fascia is returning round a corner, carefully snip back barbs as shown to ensure that carrier fits snugly into the corner. Carrier is supplied over length to cut on site ensuring a neat joint in the corner.



41 Gently tap carrier home using rubber mallet & timber block (bridging clips). Hold up Heritage cladding to assess correct height (approx 10mm gap under bars). Check height is equal around roof.



42 Using rubber mallet & timber block, knock home the cladding.



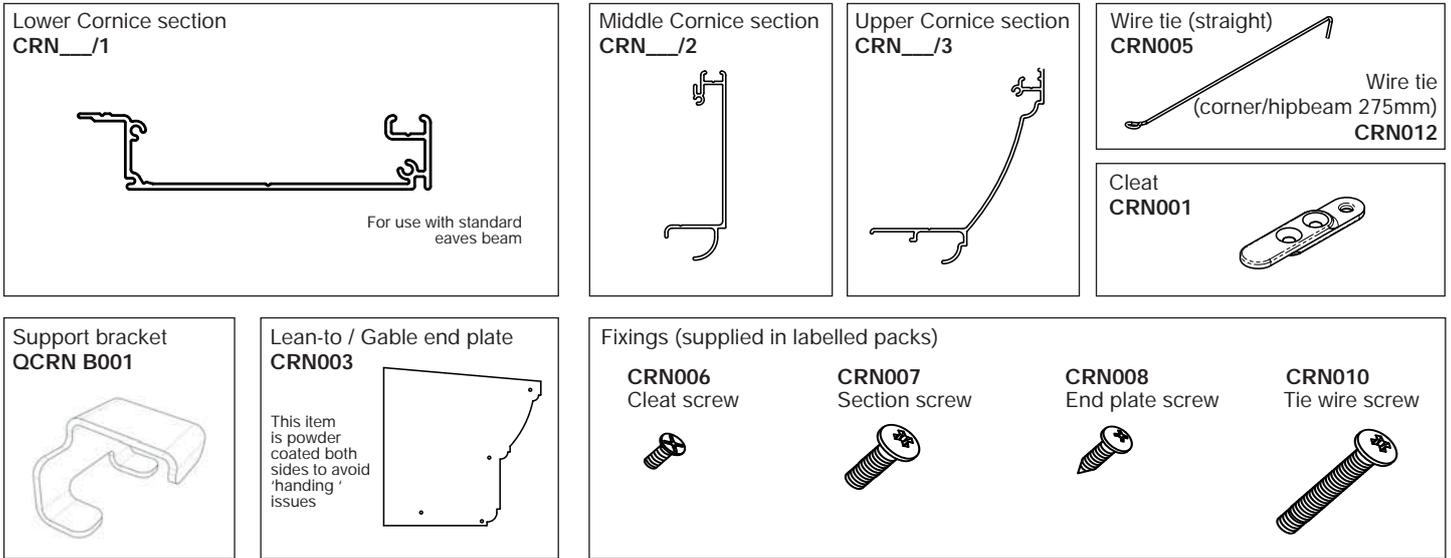
43 Clip corner trim in position by hooking over the top of Heritage cladding and clipping underneath.

TIP: It may be advisable to fit corner trim on a couple of 'spots' of sealant.

CORNICE PRODUCT IDENTIFICATION

- STANDARD PRODUCT

Recommended tools - Long reach magnetic bit, 73mm hole saw. Additional materials - Timber baton (treated) 49mm x 20mm and cut to length as required - only used when a gutter return and the host wall is required.



CORNICE PRE INSTALLATION INFORMATION

FILM - Peel back the protective film at each of the mitred corners, prior to fitting. Ensure all film is removed following installation. Failure to do so will damage the finish over time.

SEALING - After installation, do not seal around the down pipe hole (step 1). The gap will allow water to escape from Cornice in the event of extreme weather conditions.

LADDERS - Take care when using ladders as they could damage the Cornice gutter.

PLEASE PASS THIS INFORMATION ON TO THE HOMEOWNER

FITTERS TIPS

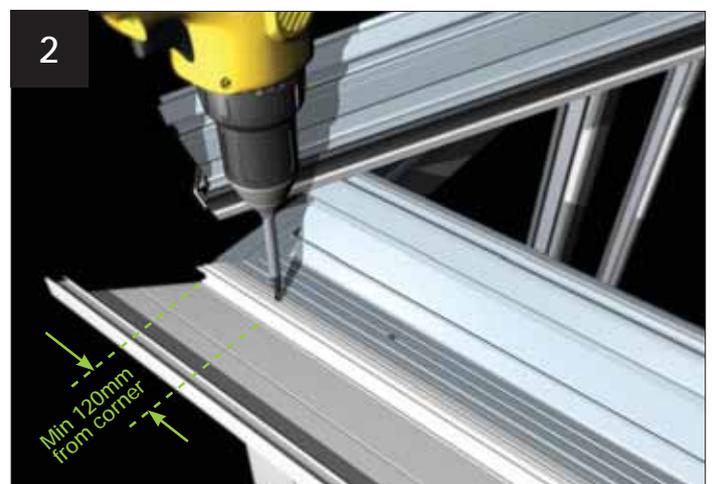
1. Remove under gutter trim from eaves.
2. Start the installation of Cornice when the basic roof structure is in place (bars and ridge) but before the glazing and guttering have been installed.
3. Prior to installation please ensure the eaves beam joints are tight. Any gaps could translate through to the Cornice mitres.
4. Try temporarily fixing the lower Cornice sections, position appropriately to obtain the best mitre fit. Remember the lower Cornice section is the datum!
5. Do not force the cleats during assembly. Cleats are used to position the mitre joints only!

CORNICE INSTALLATION

Ensure the eaves beam, glazing bars, ridge/wallplate are already installed



Decide the position of the gutter outlet by lining the extrusion 'v' groove up with the centre of the hole for the down pipe. Using a 73mm dia hole saw, cut the hole for the down pipe in the lower section.

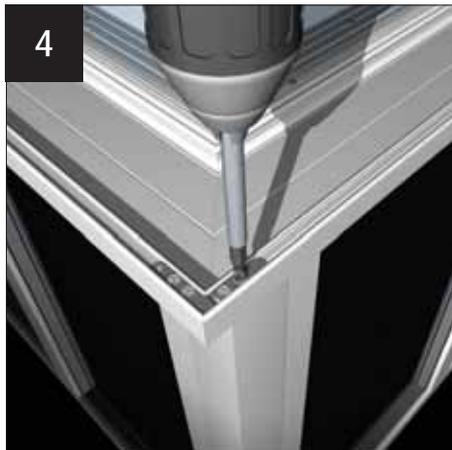


REMOVE THE UNDER GUTTER TRIM AND DISPOSE OF IT. Prior to fitting gutter offer up the lower Cornice section then secure into position using the fixings provided (CRN007). **Please note: Always start with the front face!**

CORNICE INSTALLATION

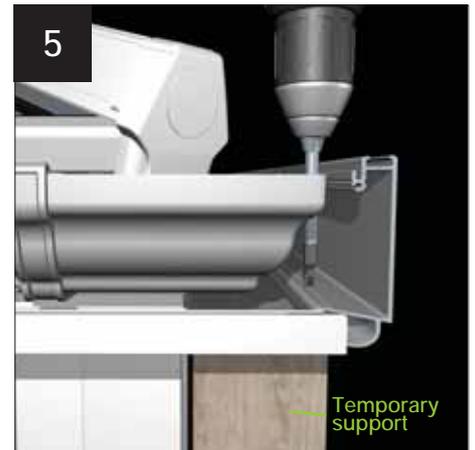


Fit the cleats (CRN001) to the desired side using the fixings provided (CRN006) as shown and assemble the remaining lower sections

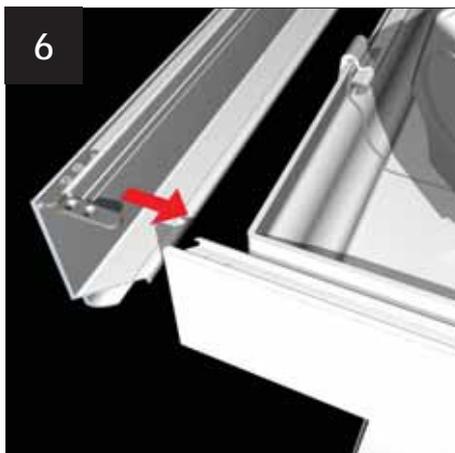


Secure each corner using the cleats (CRN001) and fixings provided (CRN006).

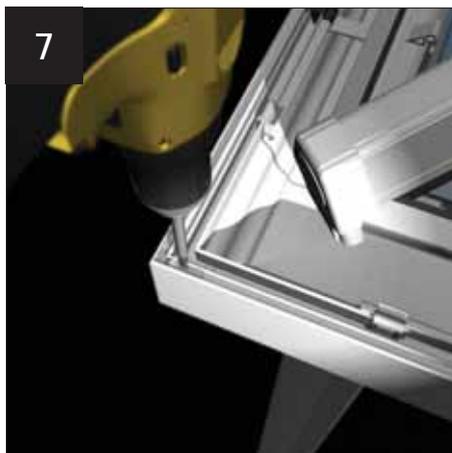
The gutter and glazing should now be fitted (see main guide). Check integrity of all gutter joints before proceeding further.



Offer up the middle Cornice section into position, (it may be advisable to temporarily support the lower Cornice section whilst fixing) secure using fixings provided (CRN007). (Long reach driver required).



Fit cleats as shown in step 3. Offer up the next middle Cornice section. Continue to support lower section as shown in step 5.



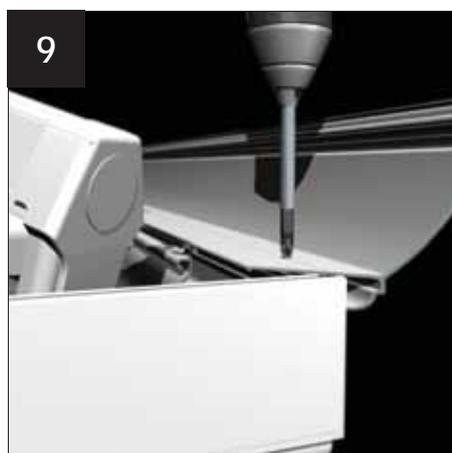
As shown in step 5 it may be advisable to temporarily support the Cornice whilst fixing. Secure corners using the cleats (CRN001) and fixings provided (CRN006).



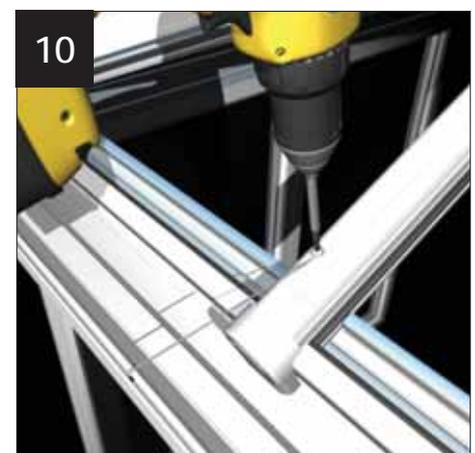
Clip fit the support brackets (QCRN3001), adjacent to every gutter bracket.



Clip in position.



Temporarily support and fit the upper Cornice section, using the fixings provided (CRN007). Secure the corners using the cleat (CRN001) and fixings (CRN006) as shown in step 3.



Secure the upper Cornice section using the wire ties at each glazing bar. Hook the wire tie into the pre-drilled hole in the upper Cornice section and screw fix into the glazing bar, ensuring the upper section remains parallel to the frames/roof line.

CORNICE CORNER JOINTER INSTALLATION

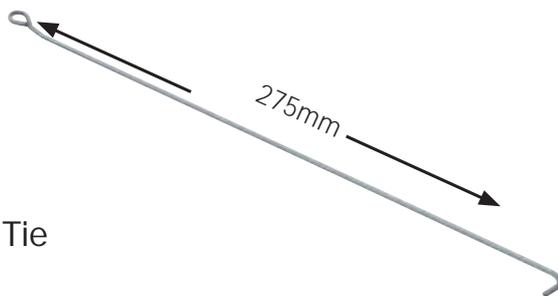
Cornice Corners

CRN090: 90° Corner.
CRN135: 135° Corner



Long Corner Wire Tie

CRN012



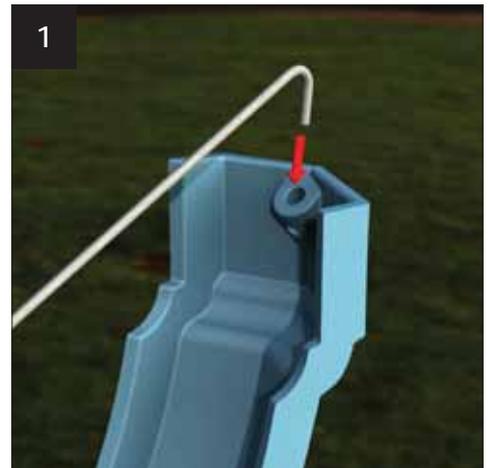
Fixing Screw

CRN007 (2 per corner)



Fixing Screw

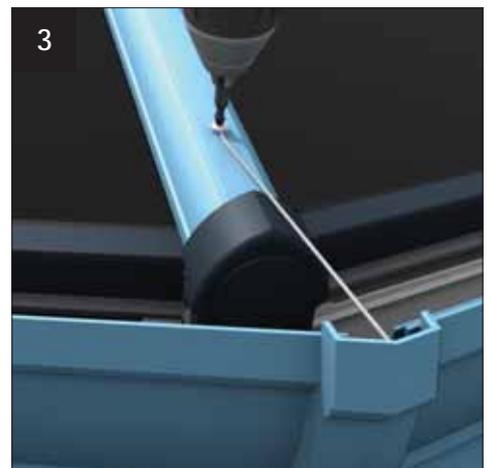
CRN010 (Wire tie to hip bar)



1. Prior to fitting the corner insert the special longer wire tie CRN012, into the corner as indicated



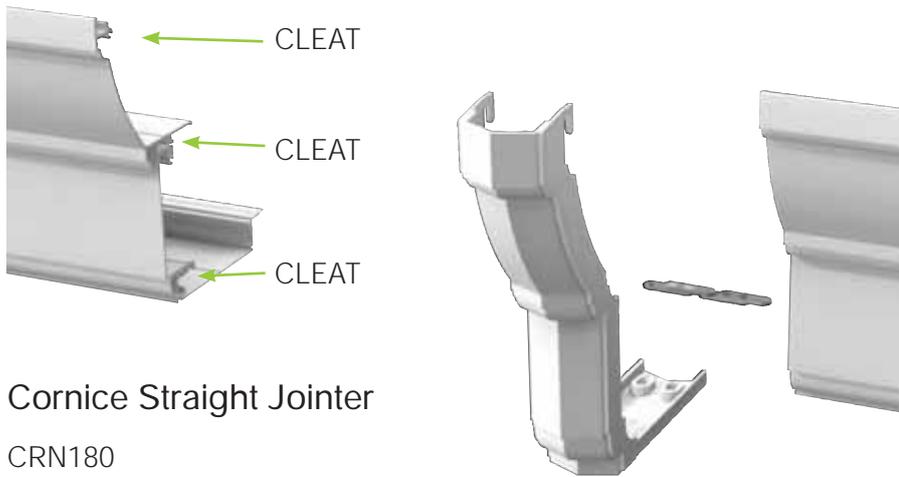
2. Whilst ensuring that the corner remains located in position, screw fix using self drilling screws CRN007



3. Finally secure the corner by screw fixing the wire tie to the glazing bar using self drilling screw CRN010

Please note that it is not compulsory to fit the corners. If a crisp sharp mitre is required the corners need not be fitted, provided due care has been taken during installation. If on the other hand the 'look' of the cast corner is preferred follow the instructions above for each relevant corner. Corners will be supplied for the 135° & 90° external corners.

CORNICE STRAIGHT JOINTER INSTALLATION

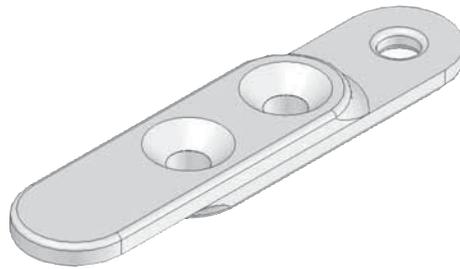


Cornice Straight Jointer

CRN180

Cleat

CRN001



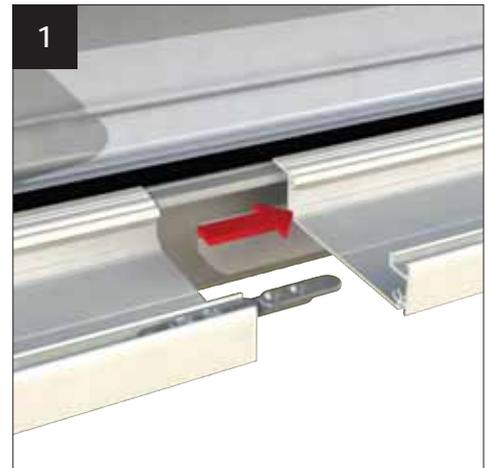
Cleat Fixing Screw

CRN006 (2 per jointer)

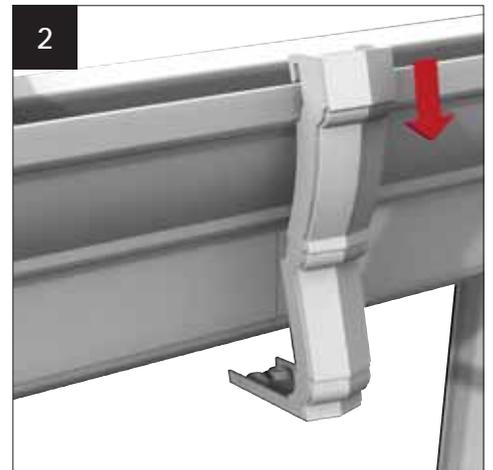


Fixing Screw

CRN007 (2 per jointer)



1. Attach the cleat CRN001 using 2 x CRN006 provided, on each side of the joint. Repeat for each of the Cornice 'layers'.



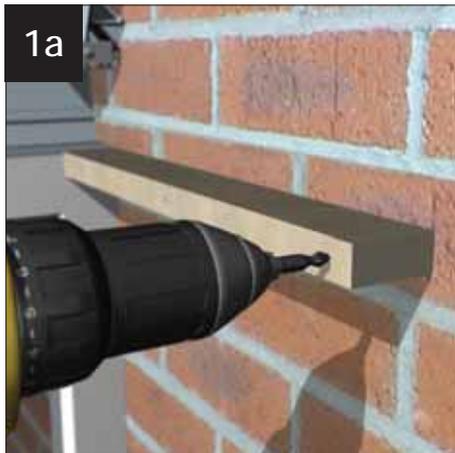
2. Offer up the CRN180 straight jointer, hook over the front lip of the Cornice



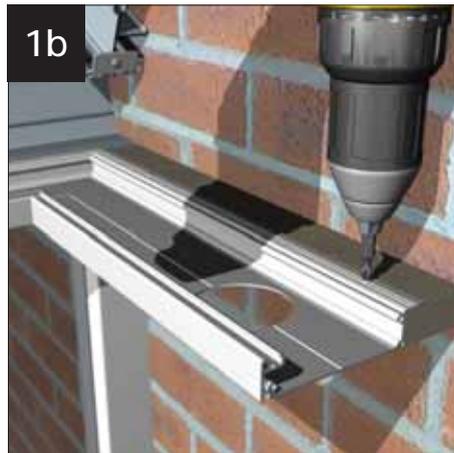
3. Whilst ensuring that the corner remains located in position, screw fix using self drilling screws CRN007

Please note that it is not compulsory to fit the jointers provided. If due care has been taken with the installation of the Cornice. If on the other hand the 'look' of the cast jointer is preferred follow the instructions above for each relevant jointer. Some companies MAY have ordered a 'dummy' joint at 'mid-run', if so just follow steps 2 + 3 . The die cast straight jointer can also be configured on site to be used at host wall position.

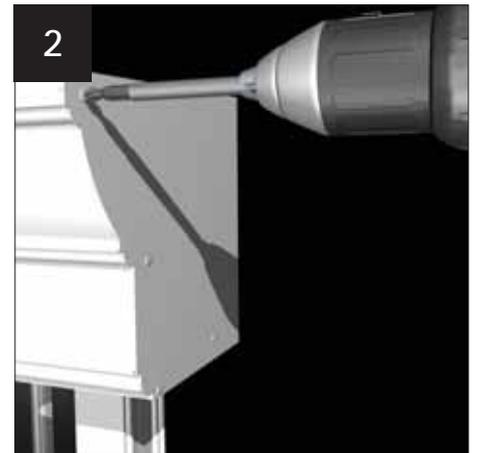
CORNICE INSTALLATION - ADDITIONAL DETAILS



1a
Gutter return detail - If the gutter returns along the host wall (shown below) complete steps A and B after step 4 of the main installation. Ensure the treated timber baton (49mm x 20mm) is level, then fix into position.



1b
 Secure lower section using fixings provided (CRN007)



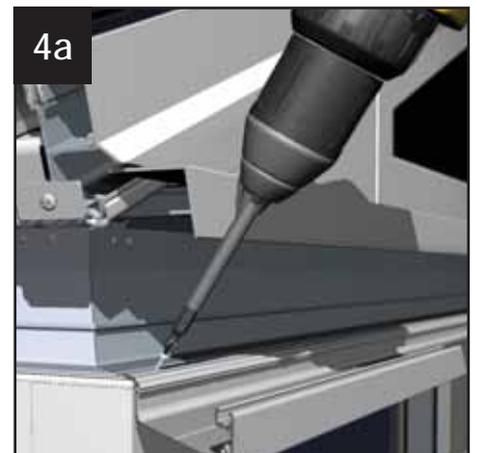
2
Gutter stop end detail - Used with lean-to roofs, gable roofs or when the gutter returns along the host wall. Secure the end plate into position using the fixings provided (CRN008).



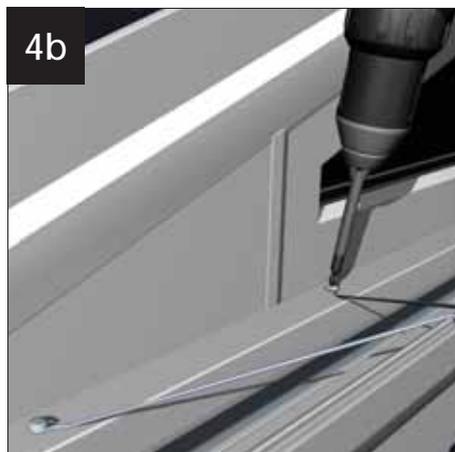
3a
Cornice & victorian boxgutter detail - For situations other than that shown, Cornice should be prepped by you on site to suit the wall condition you find.



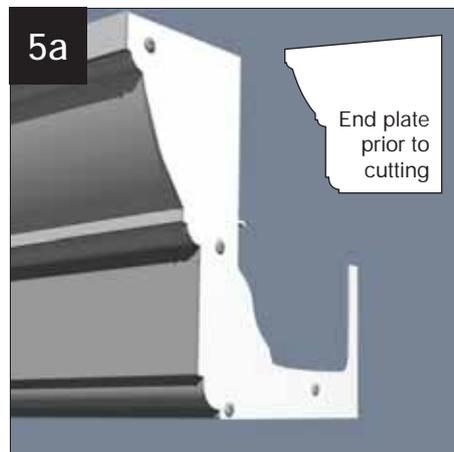
3b
Cornice & gable eaves beam detail - Used on lean-to styles with raked frames or duo-pitch gables that use the gable support beam. Fix lower section as shown - continue with the remainder



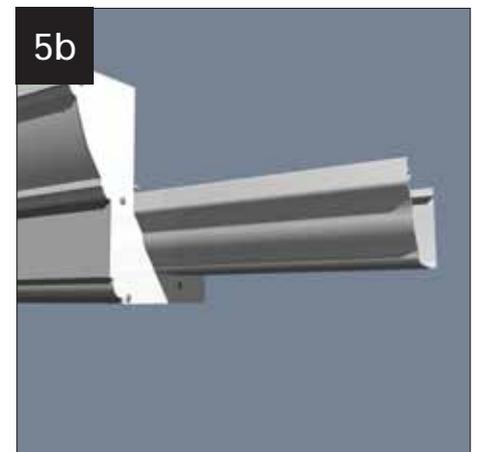
4a
Cornice & gable eaves beam detail - Used on lean-to styles with raked frames or duo-pitch gables that use the gable support beam. Fix lower section as shown - continue with the remainder



4b
 Fix wire ties at an angle as shown, ensure the Cornice is parallel to the frames/roof line.



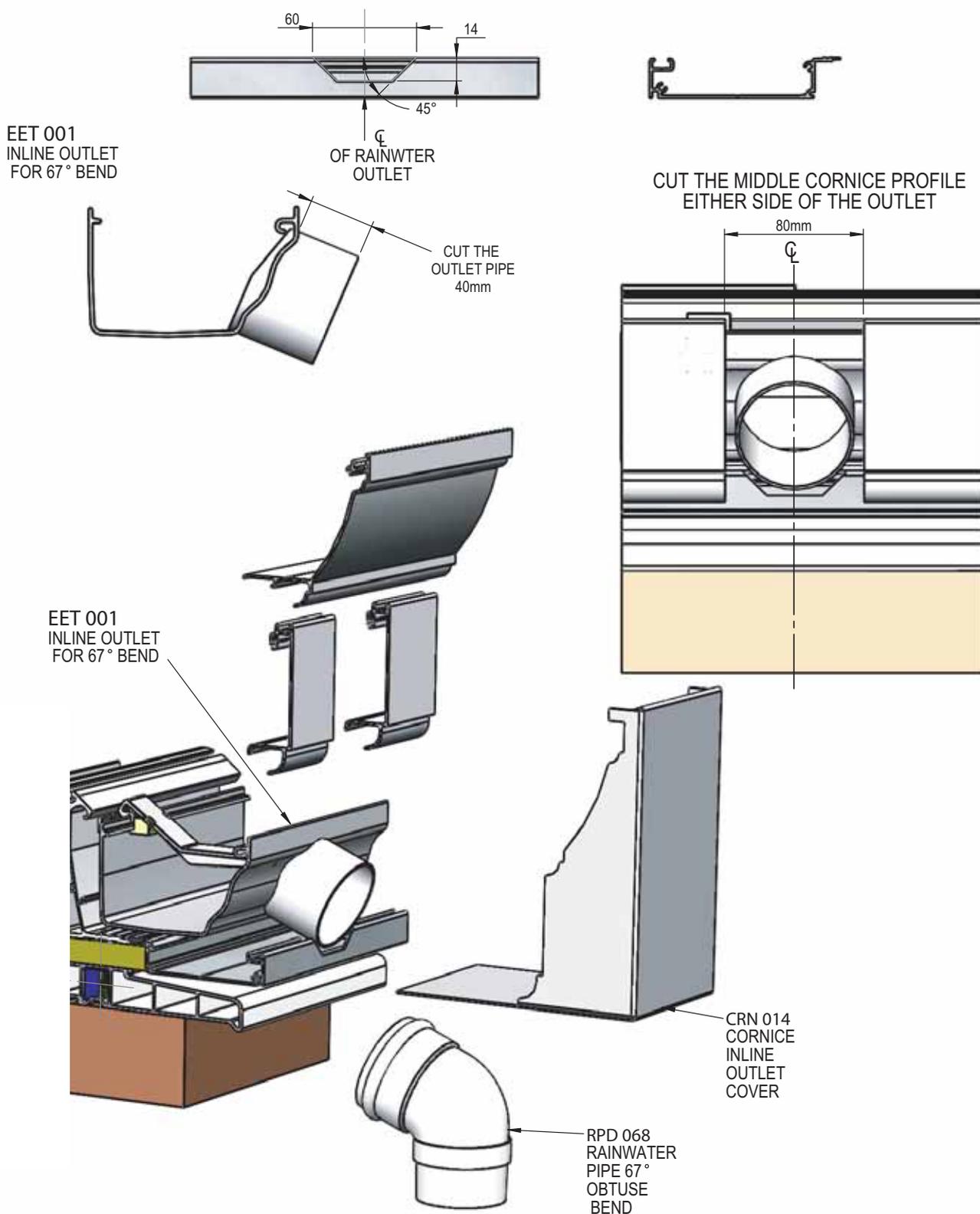
5a
Cornice & fly through gutter detail - Used when the gutter extends beyond the Cornice. Take the end plate (CRN003) and cut to the shape of the gutter that projects beyond the Cornice.



5b
 Typical finished detail.

CORNICE INSTALLATION - INLINE OUTLET COVER

IT IS IMPORTANT TO CONSIDER THE OUTLET POSITION PRIOR TO FITTING THE CORNICE.
WHEN THE OUTLET POSITION HAS BEEN DECIDED NOTCH THE CORNICE LOWER PROFILE AS SHOWN

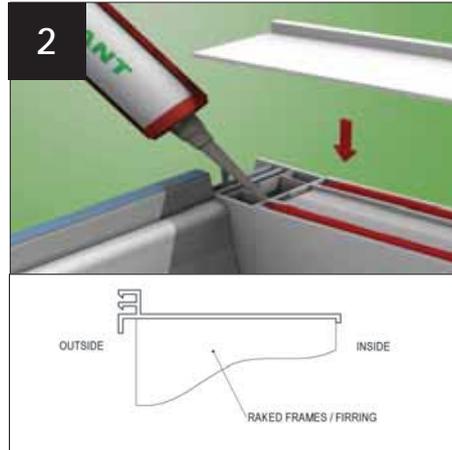


INSTALLATION - GABLE KIT ROOF



Place and support the ridge ensuring the ridge is central to the gable frame. Place the starter bar onto the furring top cap and secure to the ridge and eaves beam. Securely fix the starter bars to the gable window frame. Fit and glaze the roof in the normal manner.

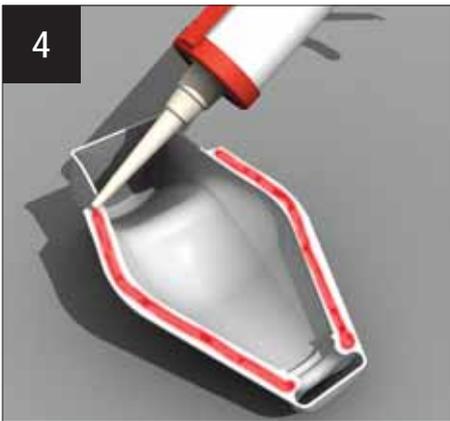
NOTE: Ensure the gable frame is vertically plumb.



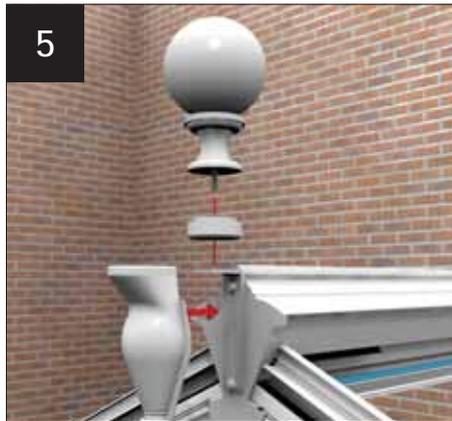
Run two beads of silicone along top edges of the raked frame prior to fitting the top cap (supplied).



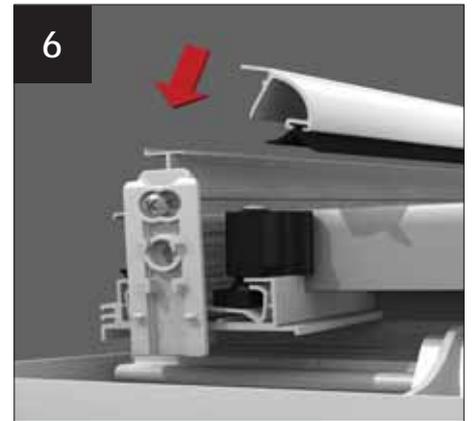
Silicone around the end of the ridge body. Screw 'L' shaped bracket end plate to end of ridge. (If finial has been specified)



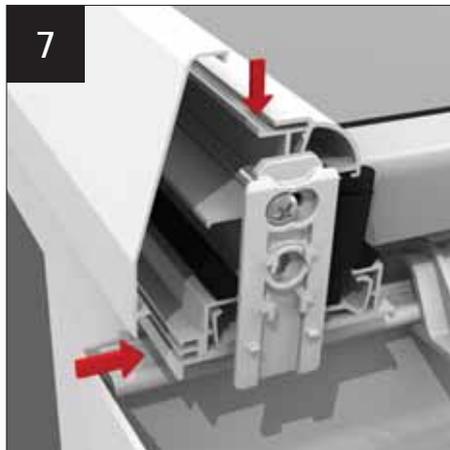
Silicone PVC outer cover.



Apply cover to ridge end and screw finial through spacer into 'L' bracket.

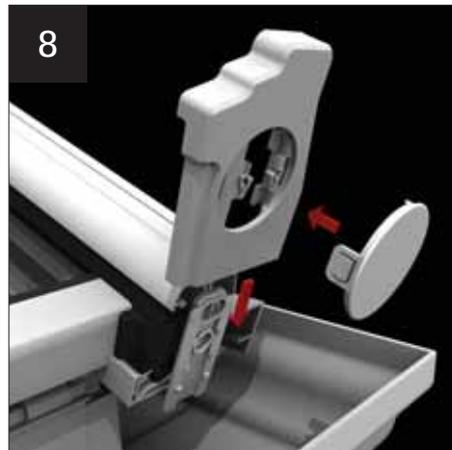


Fit jack bead to the glazing bars. Ensure that bead is pushed up against wallplate face. Engage lower leg into groove & work from one end to the other using thumb pressure to compress the gasket and engage the top clip of the bead. Apply constant pressure to the bead as you work along.



Hook gable cladding over the top lip of end bar (ensuring that cladding is pushed up against wallplate endcap tab) and clip into place along top of furring or raked frame. Work from wallplate down to eaves clipping in place.

NB. Ensure bar endcap fixing blocks have been fitted



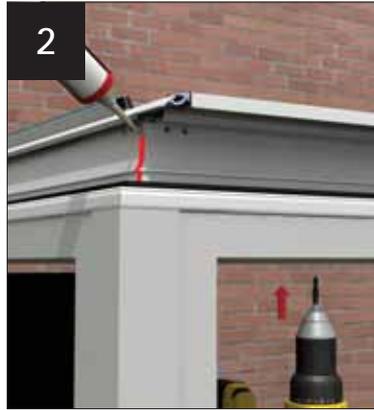
Push fit the insert into the endcap and clip into position.

NB. Ensure the roof is fully finished before fitting endcaps as they are a 'snug' fit and awkward to remove later. END CAP WILL NEED TRIMMING TO SUIT.

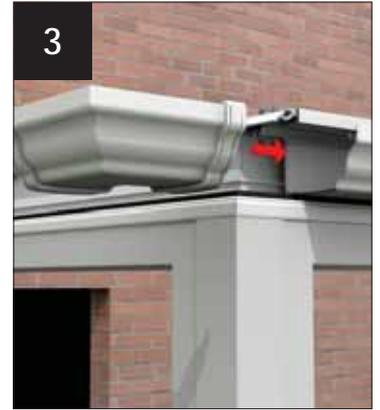
INSTALLATION - GABLE KIT ROOF



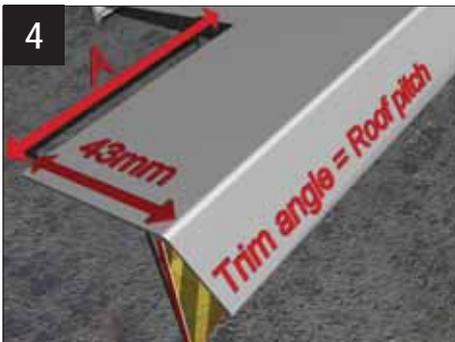
1 Trial fit the gable beam and the eaves beam ensuring the inside face is flush with the inside face of the window/door frames. Remove, then apply a continuous bead of silicone to both the front and rear edges of the window/door frames. Fit the under gutter trim to each section of eaves beam and gable beam, position the beams and slide the corner cleats (already attached to the eaves beam) into the gable beam. Drill through the holes already in the gable beam into the cleats and secure with the screws supplied.



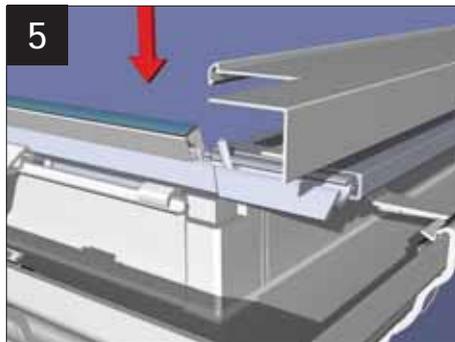
2 To secure the gable beam fix from underside of frames. Point the joints between eaves beam with silicone.



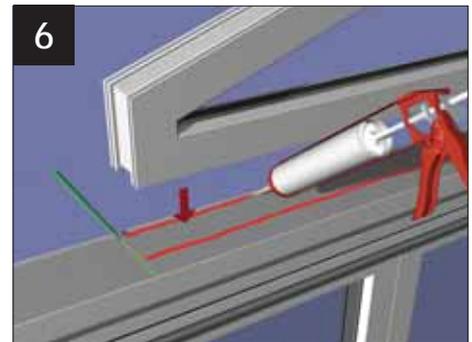
3 At this stage the guttering is installed. First attach the gutter brackets to the gable / eaves beam.



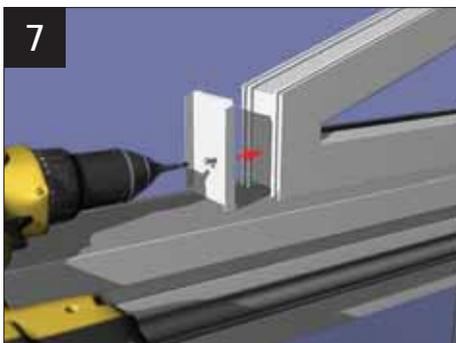
4 With the guttering in place, trim the gable beam top cladding. The cladding is supplied over length and cut to suit the roof pitch.



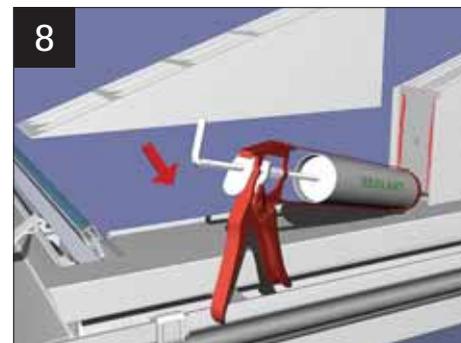
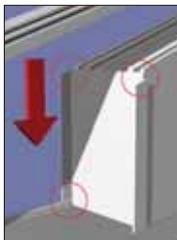
5 Next attach the notched gable beam top cladding on to the head of the gable beam.



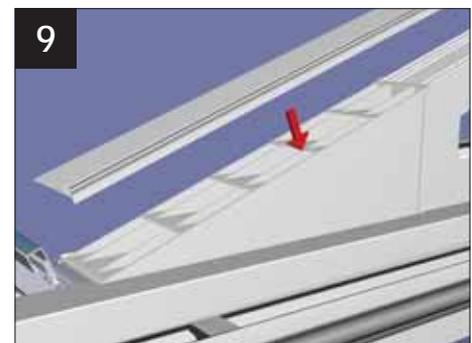
6 Position the gable window frame central to the gable beam, and mark the position. Remove the frame and again run two beads of silicone along the head of the gable beam top cladding (the width of the window frame only). Replace the frame centrally and back against the upstand of the gable beam top cladding. Fix securely through the frame into the head of the gable beam with self tapping screws (not supplied).



7 Mark and cut the gable infill end cap. Notch inner bottom edge to allow the end cap to sit flush and tight to the gable window frame. Trim top edge to suit pitch of roof and gable frame firing top cap which should be placed into position for marking purposes. First silicone and then screw the end cap to the gable frame.



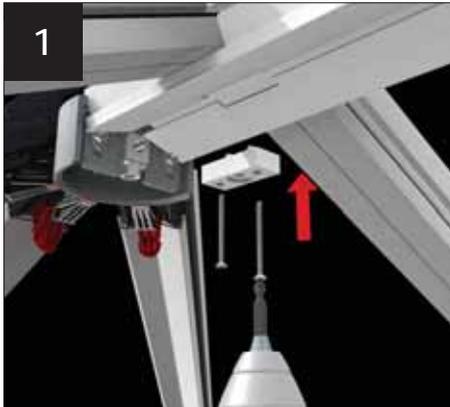
8 Trial fit the gable infill wedge. Remove, run two beads of silicone and place back in position, tight up against the infill wedge end cap.
NOTE: it will be necessary for non standard pitches to trim the infill wedge to suit the pitch, maintaining the 135mm height dimensions.



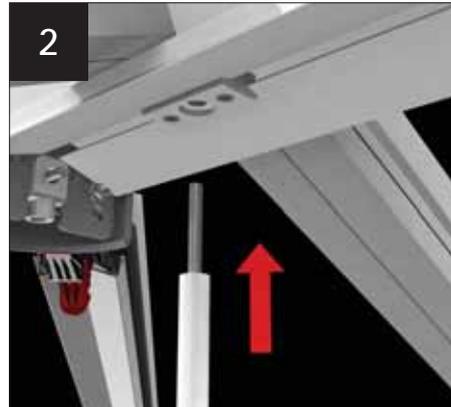
9 Position the gable frame firing top cap along the gable frame and over the infill wedge. The bottom edge of the gable frame firing top cap is cut to finish flush with the lower edge of the infill wedge and the end of the gable beam. The top edge is cut vertically to suit the roof pitch. Silicone in position.

INSTALLATION - TIE BARS

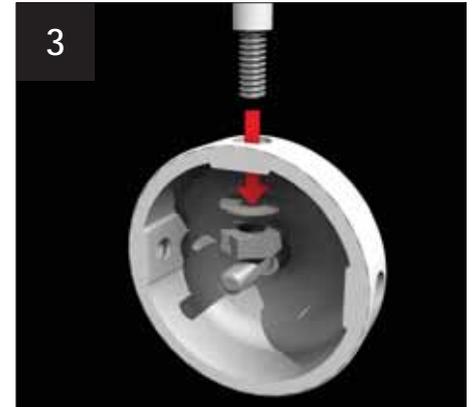
N.B. ROOF SHOULD BE PROPPED THROUGHOUT CONSTRUCTION AND ONLY REMOVED ONCE THE TIE BAR HAS BEEN FITTED.



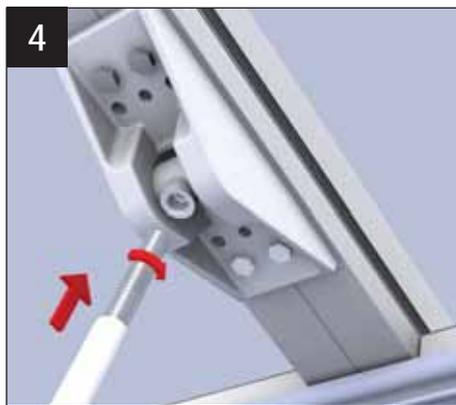
Fix tie bar ridge block to ridge using screws provided. Position by lining up with centre line of bar/brackets. **N.B. CLADDING WILL NEED TO BE REMOVED, MARKED AND CUT TO CLEAR BRACKET**



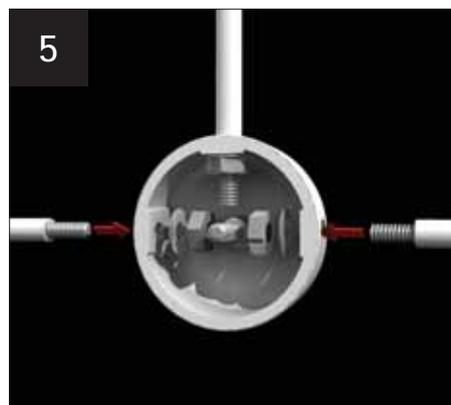
Screw tie bar rod into block. Slide tube over rod



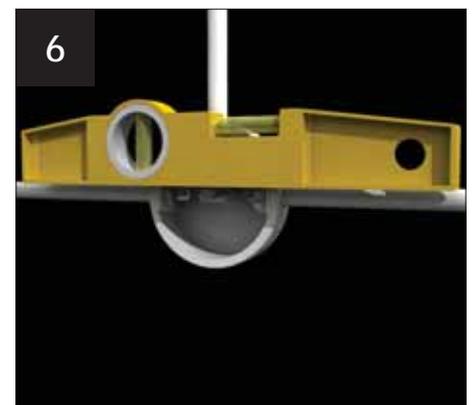
Slide boss over rod, secure in place with washer and nut.



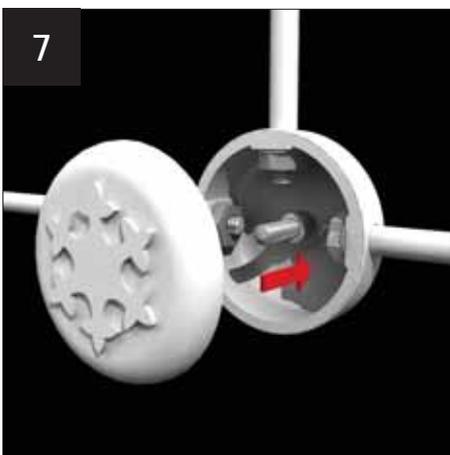
Measure, cut and attach the horizontal threaded bars (ensure sufficient engagement of the bar into the brackets) – it is essential that the tie bar boss is central. Take the boss ring, and loosely assemble the threaded bars to check they terminate inside the ring. Dis-assemble.



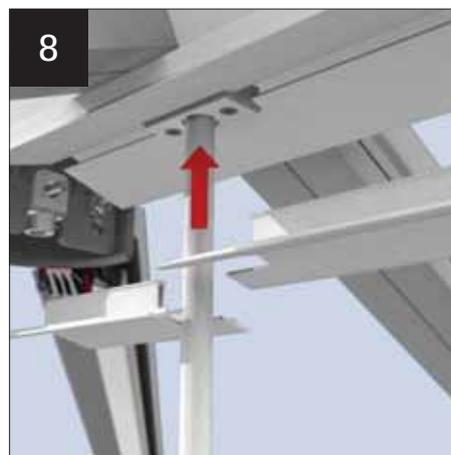
Push the tie bar rod through cover trim. Push rod through boss and finger tighten the washer and nut.



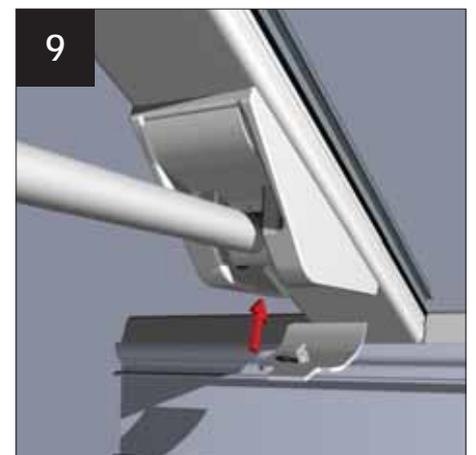
Now, finally check that the horizontal elements are level and the vertical element is plumb. **CHECK THAT THE SIDE FRAMES ARE STILL PLUMB.** Spanner tighten the boss nyloc nuts.



Screw boss cover to boss

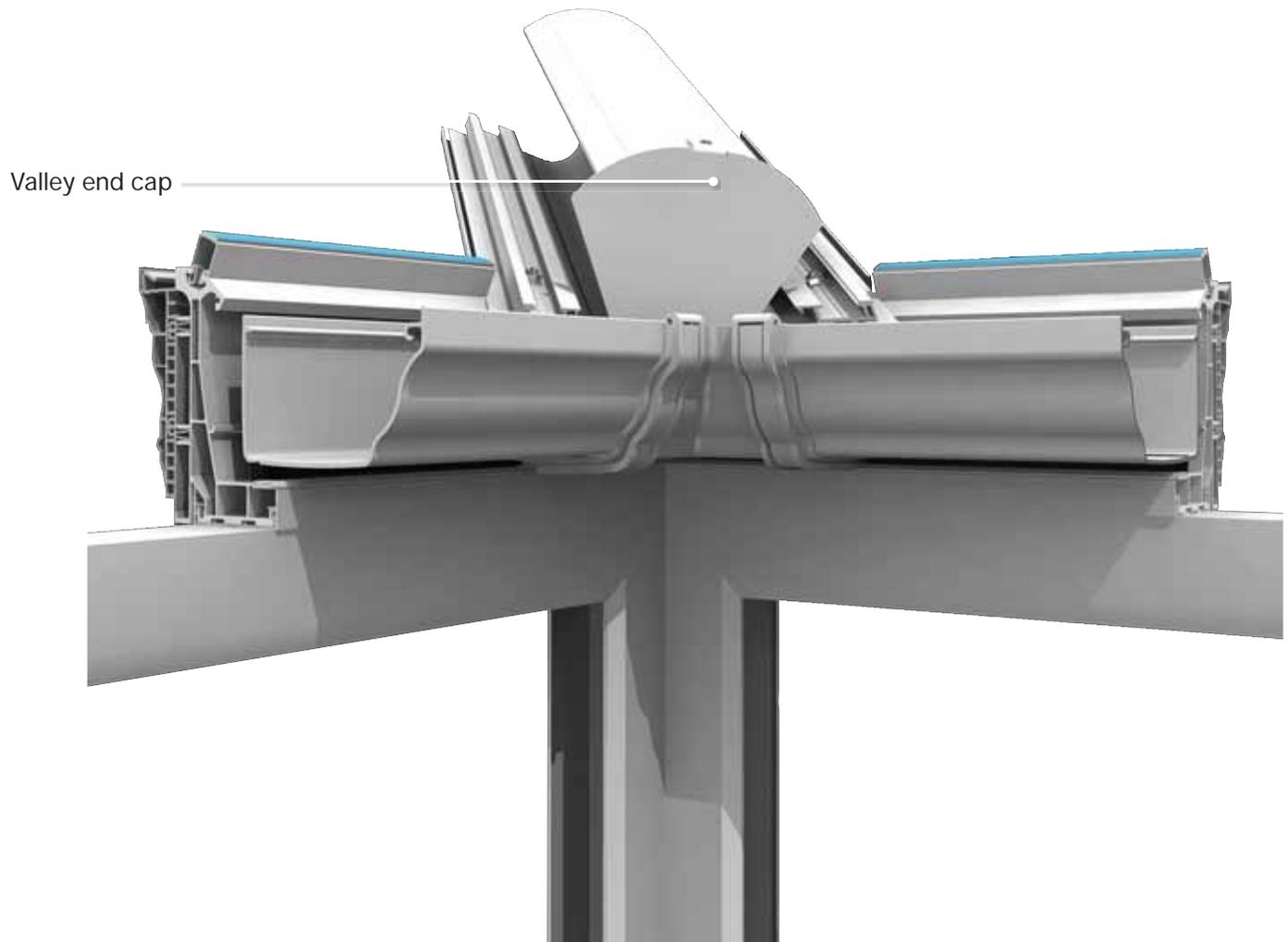
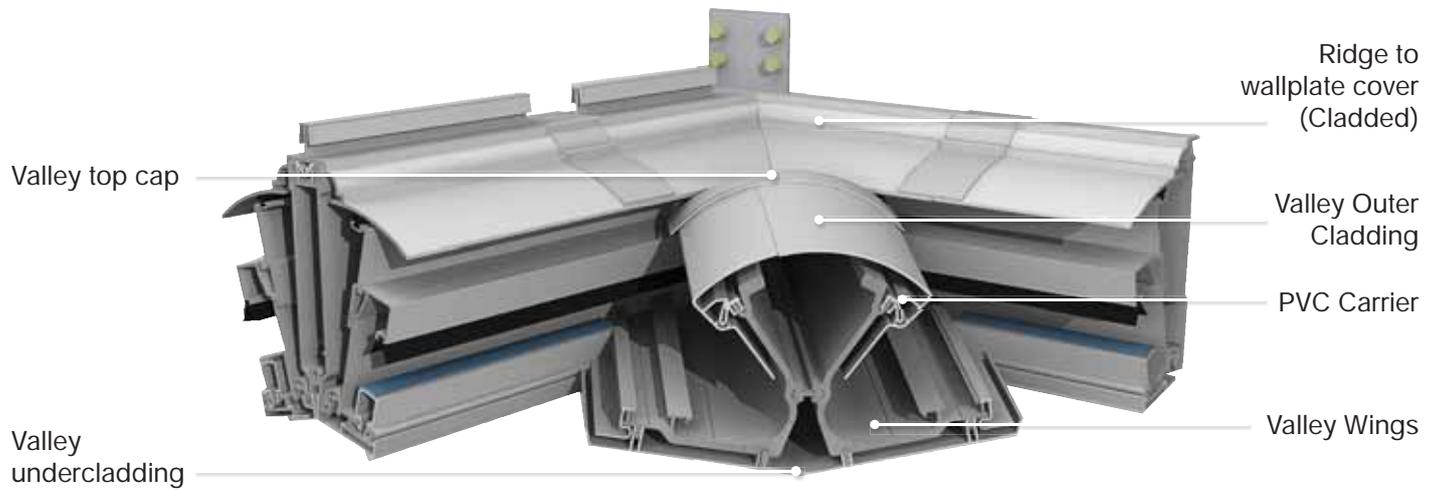


Measure to centre of the tie bar bracket from the wall. Cut the central ridge cladding into 2 sections. Notch each section of cladding around the tie bar bracket. Silicone point as required.

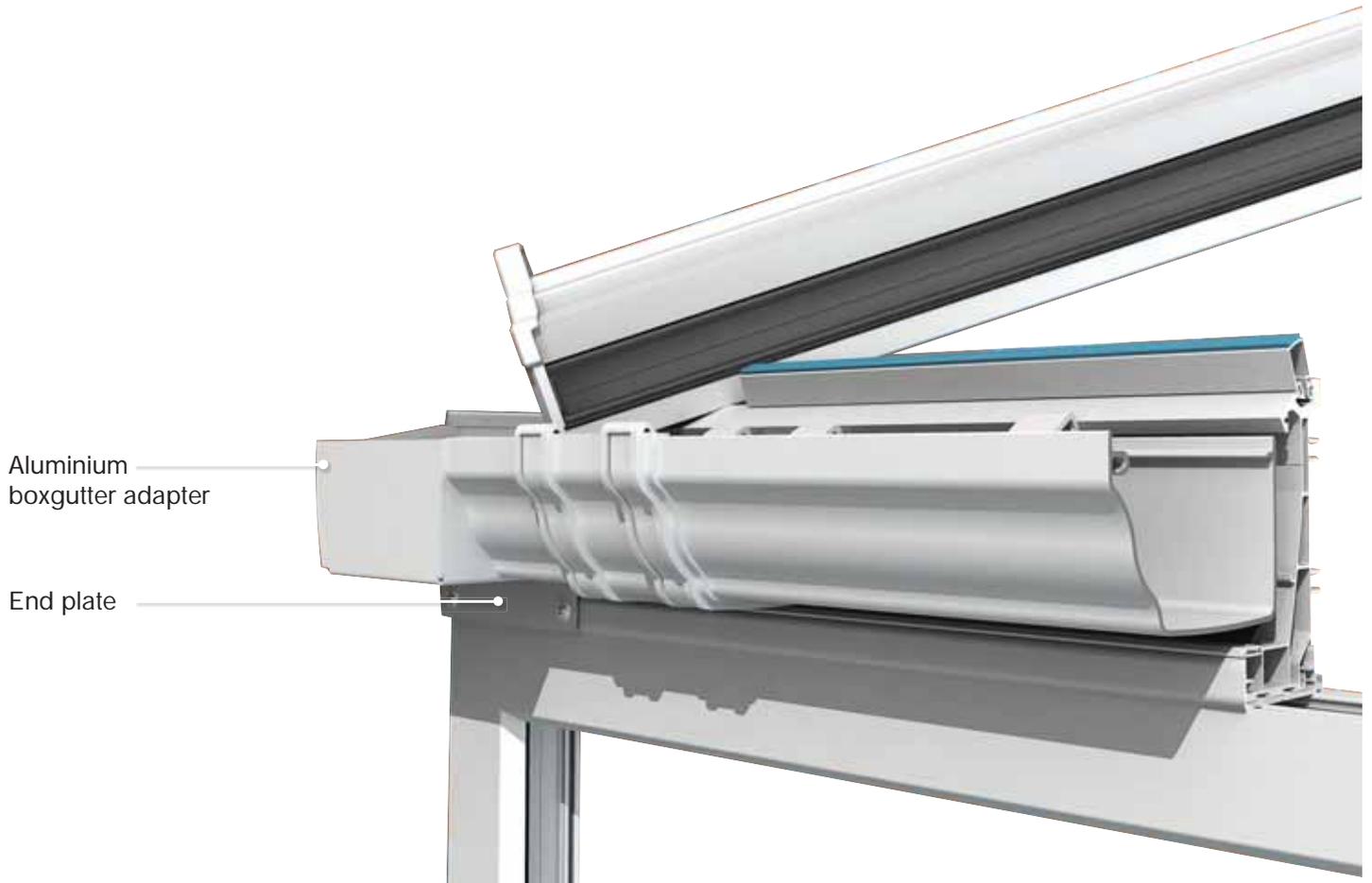


Attach the bracket cover plates that hide the bolts.

VALLEY AND BOXGUTTER MAIN ASSEMBLIES



VALLEY AND BOXGUTTER MAIN ASSEMBLIES



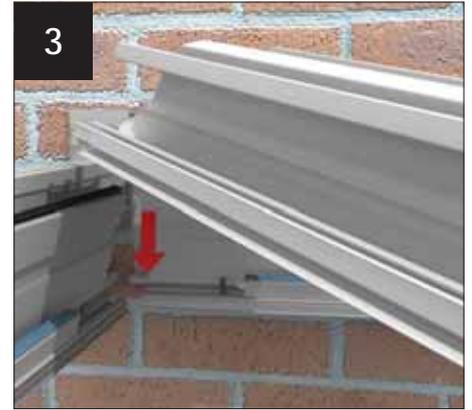
INSTALLATION - VALLEY



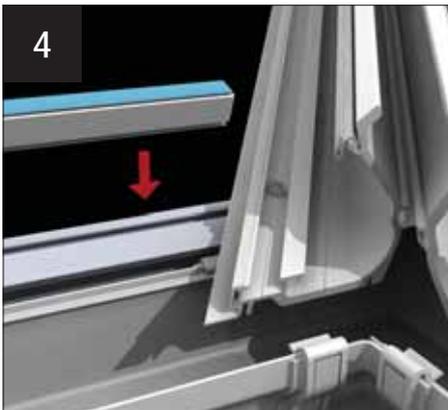
1
Assemble both the ridge and wallplate to the host wall, set at the given roof rise datum. Secure to the host wall with anchor bolts suitable for the substrate. The first anchor to be 50mm away from the full ridge, the second 250mm and then at max 600mm centres.



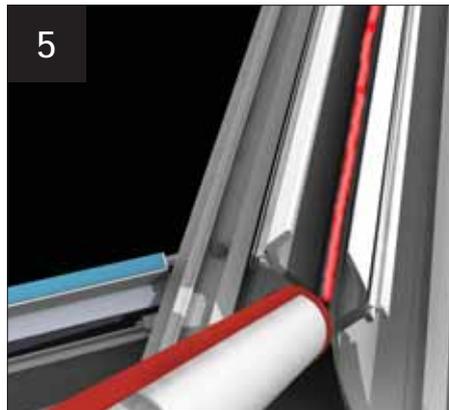
2
Fit both the ridge and wallplate wings assemble the bars onto the ridge bodies.



3
Next, pick up the aluminium valley section, ensuring the under cladding location barbs are slid into position. Then, offer the valley up to the roof and locate onto the captivated bolts in the ridge, wallplate and eaves beam. Tighten the four nuts holding the valley in place.



4
Re-fit the glazing support trim, where the valley meets the eaves beam.



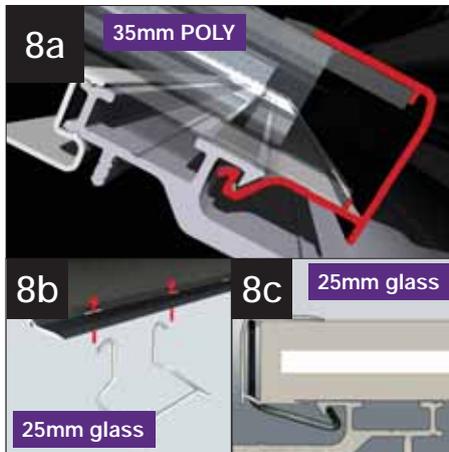
5
Now run a continuous bead of suitable silicone down the entire length of the aluminium valley profile, at the point of the hinged connector in the centre.



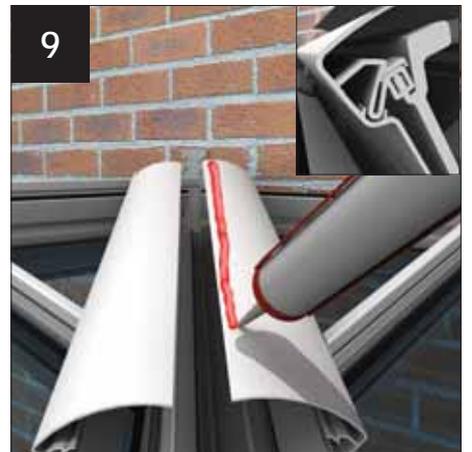
6
Using the location plan provided, assemble the various glazing bars onto the valley. Use the washers and nuts provided to ensure a robust joint is created. At this stage fit Jack Flash. (See page 17 step 10 for further details)



7
Fit the double sided sealing tape to each of the valley wings. Tease one end of the protective tape loose, crease it about 50mm in from the end and fold over ready to extract once the glazing panels are laid in position.



8a. Place the appropriate glazing panel (refer to the location plan if in doubt) into the rain baffle of the main ridge. Then push the panel in until the glazing panel end drip locates over the barb on the valley wing.
8b. Insert clips through pre cut slots.
8c. Pull panel up into rain baffle, clip 'springs' into position.

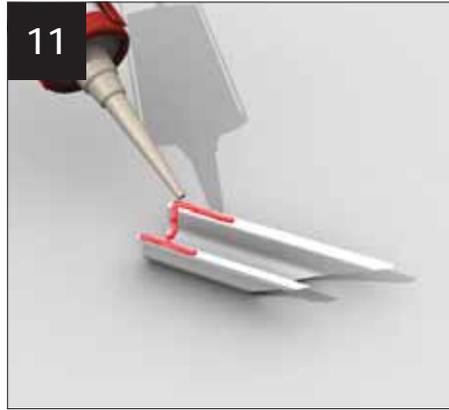


9
Fit one half of the valley cladding ensuring that clip locates over aluminium barb. Silicone down the length of fitted cladding

INSTALLATION - VALLEY



10 Locate second half of valley cladding over siliconed cladding. Ensure cladding pushed fully down.



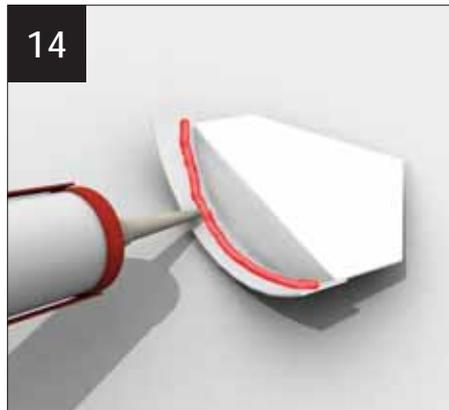
11 Trial fit valley rafter endcaps over valley rafter. Mark and cut into valley cladding. Apply silicone to outer edges



12 Fit valley rafter endcaps over valley rafters



13 Silicone top edges of valley body and the cut edges of valley cladding



14 Silicone curved underside of valley top cap



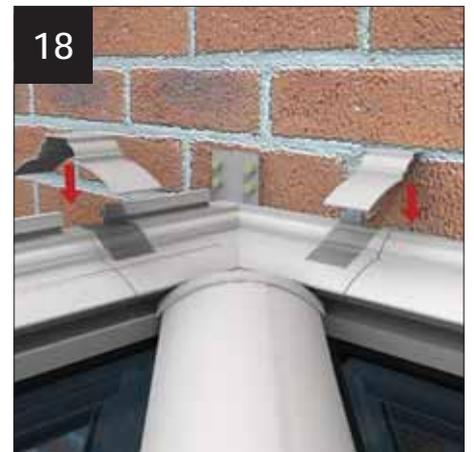
15 Fit Valley topcap in place over valley cladding



16 Silicone valley topcap against ridge wings

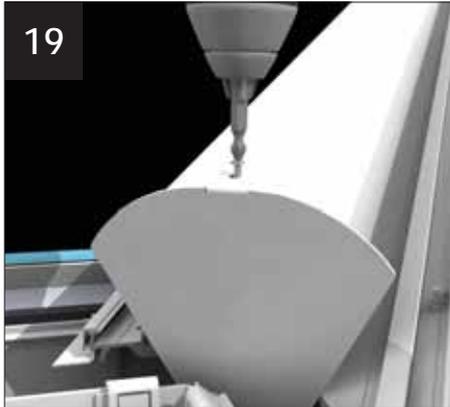


17 Clip fit valley ridge cladding corner in place. Install ridge and wallplate topcap as per standard and lean to guide.



18 Silicone jointing strips into place

INSTALLATION - VALLEY



19 Fit valley endcap. Position and drill hole through valley top cladding. Screw into position using provided screw and cover.



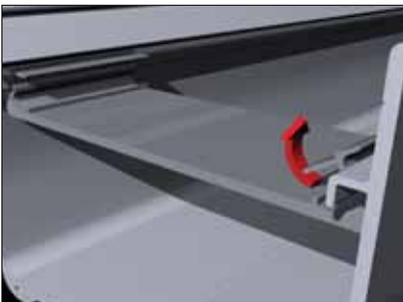
20 Cut two 200mm lengths of valley undercladding. These will act as templates for top and bottom scribes. Use a 'straight edge' placed tight to the eaves fascia board, then mark and cut.



21 Fit heritage cladding and corner moulding

BOX GUTTER SUPPORT

ALL box gutters (especially those with tie bars or joints) MUST BE SUPPORTED. Quantal recommends several types of support for box gutters including brick piers. Fitting a conservatory box gutter without adequate support will lead to structural failure. Please take the correct steps BEFORE installation.



BOX GUTTER STRAP

These are supplied loose and **MUST BE FITTED** – they are a structural requirement of the roof. The straps must be installed within 75mm of glazing bar centres (when measured from centre of the strap to the centre of the bar). To install these straps, simply 'nip up' as shown.



BOX GUTTER HANGER

If these have been specified by your company at the time of order they are supplied loose and must be fitted.

The structural requirement for the hanging brackets are 2 x hanging brackets (sat side by side) at a maximum span of 2300mm unless the roof has a tie bar or joint on the boxgutter which should then be positioned in the same area.

Drill through the head of the hanger into the centre of the masonry, avoiding the mortar joint if possible. Use a masonry anchor suitable for the substrate. Lead flashing should be dressed down over the hanger, and snipped around the sloped leg. To attach it to the box gutter, simply 'nip up' as shown.



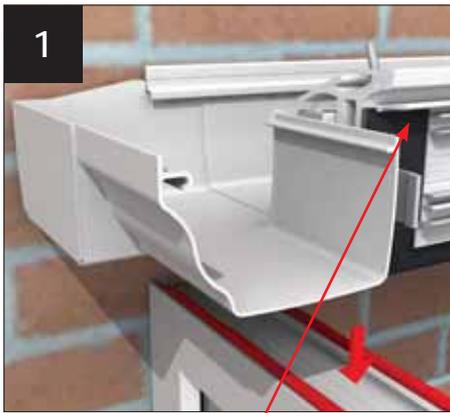
GALLOWS BRACKET

To install, notch out the insulation to ensure metal to metal contact between the extruded box gutter and gallows bracket. Offer up the gallows bracket and mark it ready to drill – always try to line up with the centre of a brick rather than a mortar joint. Drill the gallows bracket (the positions should be similar to the ones shown). Three masonry anchors should be used that are appropriate to the substrate.

Finally, notch out the undercladding, offer it into position and clip in.

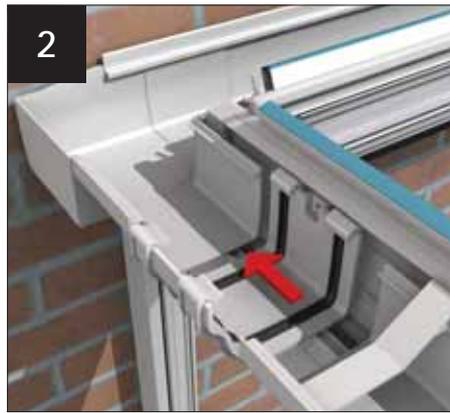
Maximum centres are 2300mm. If the roof has a tie bar installed or a joint within the box gutter, then a gallows gallows bracket should be installed directly underneath it.

INSTALLATION - BOXGUTTER

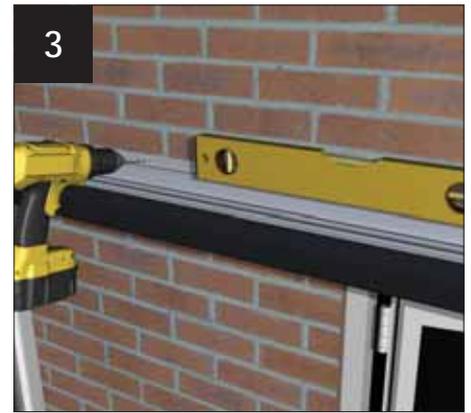


1 Box gutter foam to be cut back 70mm to enable the box gutter to sit flush on the frames.

Apply a continuous bead of appropriate sealant to the front and inner legs of the window frames. Lift insulated box gutter into position – ensure it has adequate support whilst fitting.



2 Place eaves beam section – with undergutter trim attached – onto the side frames. Seal the joint between the eaves beam and box gutter.



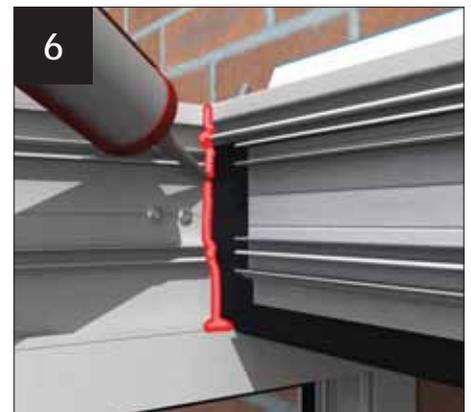
3 Whilst ensuring that its level, drill through the back edge of the aluminium at 600mm centres. Bolt to the house wall using masonry anchors that are suitable for the substrate.



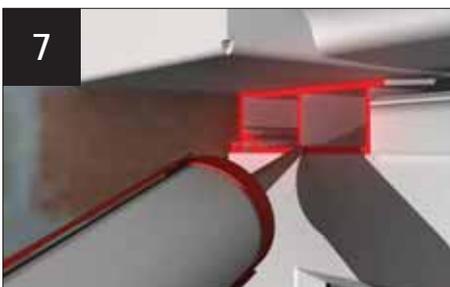
4 Drill 2 x Ø4.5mm holes through the eaves cleat and fix with the 2 x M5 tap screws provided.



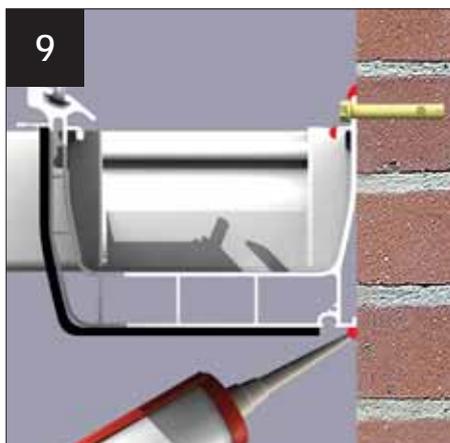
5 Mark out and grind a channel in the masonry for the flashing – blow out any dust in the channel.



6 Seal the internal joint between the eaves beam and boxgutter.



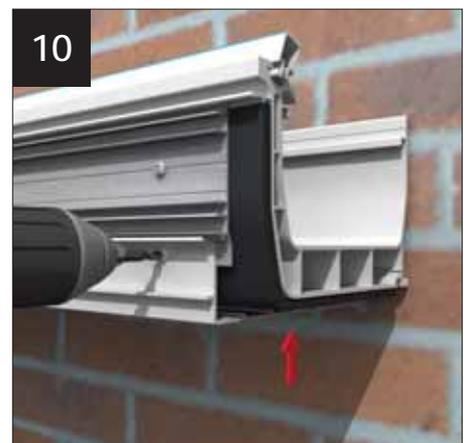
7 Apply silicone to end face of boxgutter and point back underneath adaptor up to the under gutter trim



9 Seal the top and bottom edges of the aluminium box gutter, where it abuts the house wall.



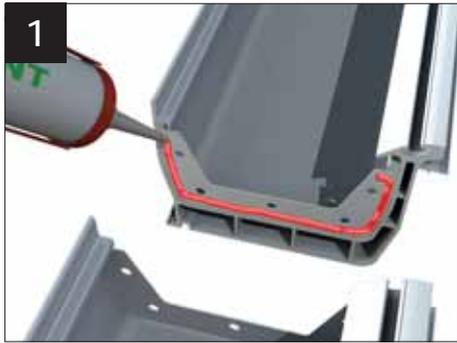
8 Fix endcap to boxgutter using screw and cap cover supplied.



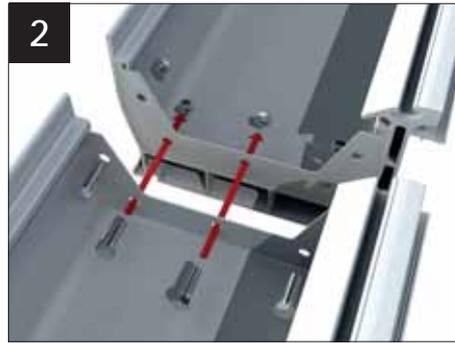
10 First clip boxgutter under cladding into channel against wall. Rock undercladding up until leg touches aluminium carrier. Using screws provided fix into carrier at 500mm centres.

Fit Heritage Cladding to boxgutter first (ensure screws are covered) and then work round remainder of roof.

INSTALLATION - BOX GUTTER JOINTING



1
Thoroughly clean the mating parts using wire wool. Surfaces must be clean and grease free. Apply a generous bead of gutterbond sealant (supplied).



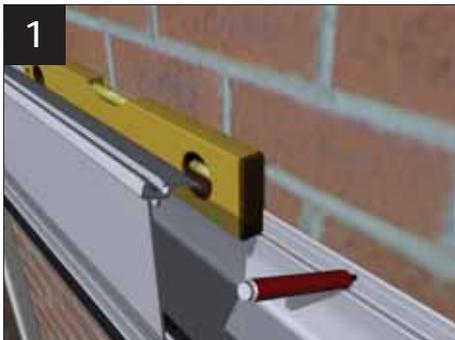
2
Fix using the bolts, nuts and washers provided.



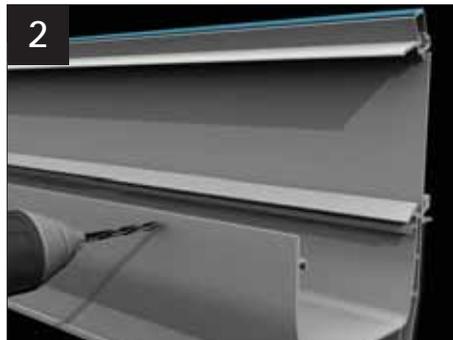
3
Lead flash over butt joint.

ALL box gutters (especially those with tie bars or joints) MUST BE SUPPORTED. Quantal recommends several types of support for box gutters including brick piers. Fitting a conservatory box gutter without adequate support will lead to structural failure. Please take the correct steps **BEFORE** installation.

RAISED BACK BOX GUTTERS

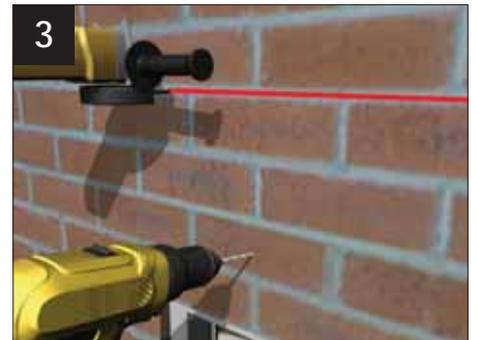


1
Offer the raised back or special box gutter into position. Carefully mark onto the aluminium leg against the host wall the position of each fixing – use 600mm maximum centres.



2
Lift the box gutter down to the ground and turn it around. Drill through the aluminium leg (that abuts the host wall) at the pre-marked positions. Whilst the box gutter is on the ground, seal along the front/rear face where the deep skirt sits inside the head of the extruded box gutter.

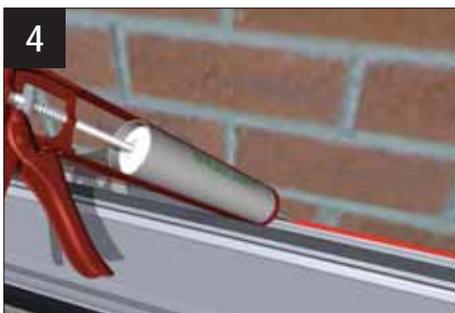
Lift the box gutter back into position, check levels, and then mark the wall (through the pre-drilled holes) ready to drill the host wall and grind out for the flashing.



3
Remove the box gutter and drill the host wall where marked. Grind out the course which is at least one course higher than the raised back height.



Offer the box gutter into position and insert the anchor fixings that are appropriate for the substrate and tighten up.



4
Seal the top and bottom edges of the box gutter and follow all other steps as per standard box gutters on page 35-36. When installing the lead flashing, ensure that the top of the flashing is higher than the point of rain water discharge from the glazing bars. Clad off the deep skirt of the raised back box gutter using multi-board (not supplied).



5
Following steps for the installation of box gutters on pages 35-36, check that the roofing bolts are in position (i.e top and bottom of the slope)

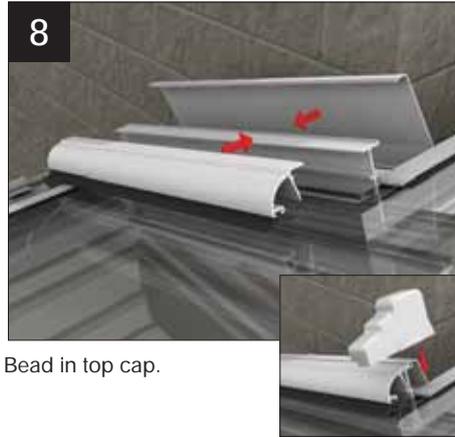


6
Place the short lengths of furring top cap and modified starter bar on to the two bolts. Please note that the bolts should be staggered, one each side of the bar.

RAISED BACK BOX GUTTERS



7
Lift the `L` shaped sealed unit into position (having followed steps 21-25) and carefully position. Your office may have not ordered an `L` shaped unit but may have split the unit into two, use a muntin bar to joint them (see page 8 for details of muntin bars).



8
Bead in top cap.

Two end caps are provided, one left hand and one right hand. Cut the end cap across its width so that it fits snugly to the face of the glass, remove it and then using the correct sealant, butter where cap sits on bar capping and fit.



9
Internally, cloak off the open end of the glazing bar by fabricating a small end closure – seal into place. Fit the lower fascia and boxgutter claddings in the usual way. Scribe and secure the upper claddings to the factory applied horizontal sticky tape strips. (For raised back box gutters beyond 300mm in height, vertical claddings must be fabricated from your own supplied multi board).

SPEEDLOCK REMOVAL



1
If you need to remove a glazing bar from the speedlok 2 socket assembly, remove the speedlok hood (if fitted) and release and lift the bar at the eaves end.



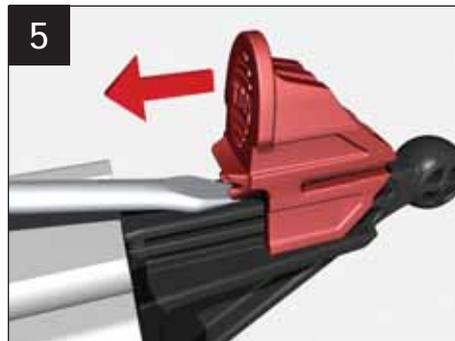
2
Gently lever up the upper deadlock.



3
Insert the 5mm wide flat blade screwdriver and gently push against the upper edge of the roller cam (marked yellow).



4
Gently pulling the bar away will automatically release the head of the speedlok.

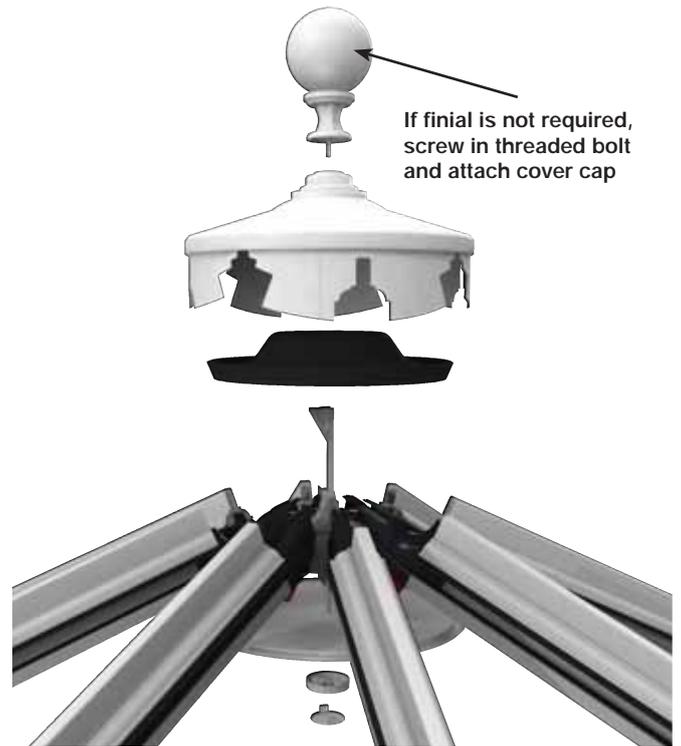


5
Turn the whole bar over, then insert the screwdriver blade under the lower wedge lock. Lift to allow the wedge to ride back over the serrations to its original position.

FULL WOK ASSEMBLY

Note to Fitters – carefully follow these notes but follow pages 16-20 simultaneously to get a perfect ‘right first time’ installation.

1. Support the die cast aluminium hub.
2. Offer up the glazing bars, starting in the four opposing corners to ensure the hub is supported.
3. Attach all the glazing bars.
4. Check the hub ‘wok’ is level and plumb – now use your thumb to push up all the lower wedge locks. The roof is now set.
5. Once the glazing is fitted and the beads inserted, now is the time to fit the hub weathering seal.
6. Seal around each glazing bar where it meets the wall of the weathering seal.
7. Prepare the wok top cap. Turn over the ‘wok’ and apply sealant to perimeter groove. Bend the notched ‘screen’ and insert into the groove - clean off excess sealant. Leave to dry. Screw the finial into position through the top cap.
8. Internally, offer up the pvc cover over the threaded bar and screw the rose cover onto it.



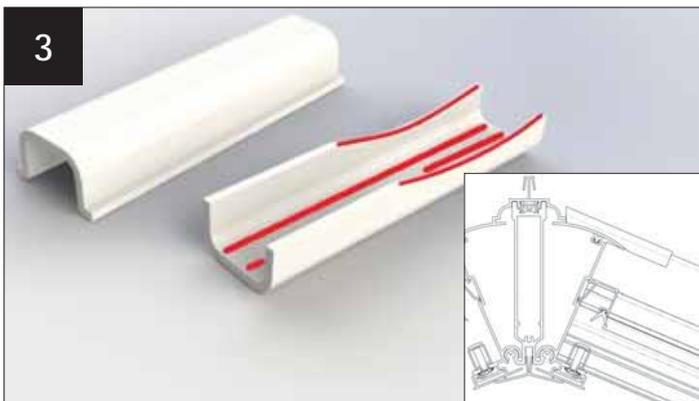
WIDESPAN BAR AS USED ON VARIABLE RIDGE/WALLPLATE



1
Install Widespan bar to ridge or wallplate. Bar will be pre ‘notched’ in the factory. Silicone the top edge where the bar meets the wing.



2
Fit ridge / wallplate topcap and silicone over top exposed edge of Widespan bar.



3
Using supplied covers, scribe into ridge / wallplate topcap and apply silicone to the underside.



4
Fit ‘scribed’ cover to top of Widespan bar and silicone top edge into ridge /wallplate topcap.

INSULATED INTERNAL PELMET CEILING

Insulated internal pelmet sat on loggia columns



Separate installation guide

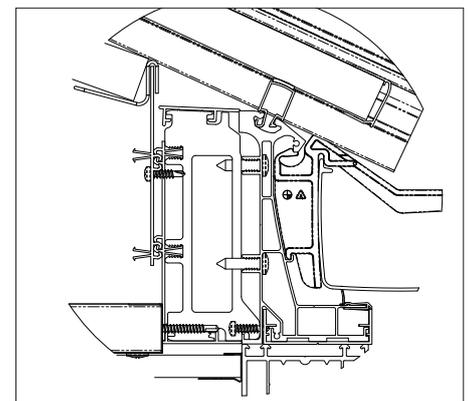


The Insulated internal pelmet engineered steelwork ladder system can be fitted to the Quantal roof. Before commencement of Insulated internal pelmet installation (separate guide provided) ensure eaves beam is prepared as below. If fitting 'on fascia' when using box gutter follow instructions bottom right.

When fitting Insulated internal pelmet to the Quantal roof your fascia should look like this (below) prior to commencing fitment



Livnroof with bolstered eaves beam

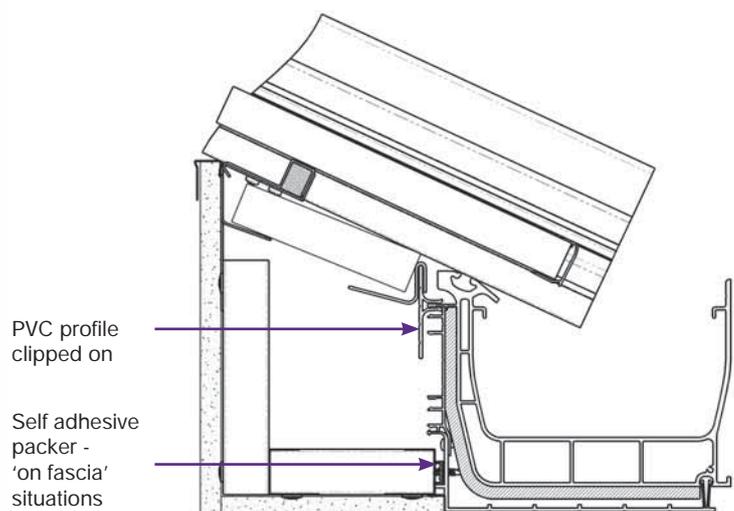


ATRIUM EAVES



Low profile eaves section previously known as 'rider rail or orangery eaves'. Sit on timber kerb (not supplied) - as shown.

INSULATED INTERNAL PELMET BOXGUTTER 'ON FASCIA'



Clip the small PVC profile on to the top barb of the aluminium box gutter and then commence installation of Insulated internal pelmet. When on fascia, insert self adhesive packer as shown @ 500mm centres

INSULATED INTERNAL PELMET HERITAGE CLADDING INSTALLATION



Fit Insulated internal pelmet following the installation guide provided separately.

Once plasterboarded, the heritage cladding can be installed. Ensure that supplied stop edge bead is fitted to the top of the plasterboard.



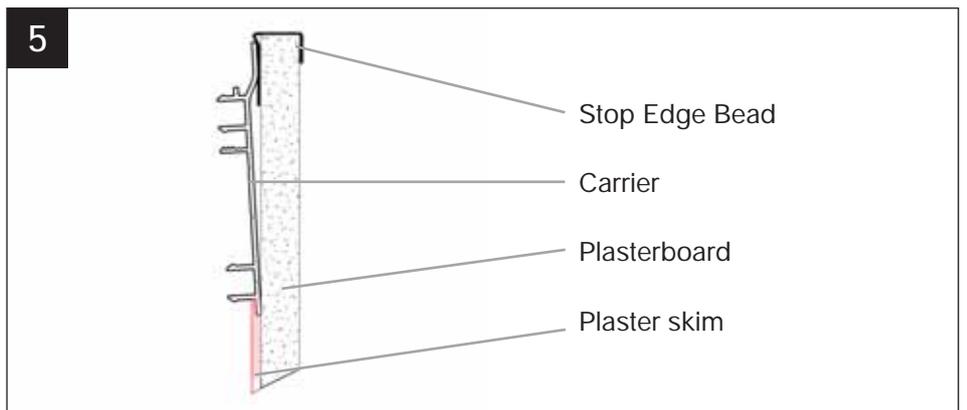
If required, cut Heritage carrier to length based on internal dimensions of Insulated internal pelmet plasterboard (deduct 20mm per side for the projection of the carrier). Drill carrier 100mm min from each end and approximately 400mm centres equally between.



Lift carrier into position on plasterboard with 'dogleg' pointing upwards. Align with top of plasterboard stop edge bead. (See step 5 for positioning)



Fix carrier into position through predrilled holes using plasterboard screws. See right for correct position of carrier on plasterboard.



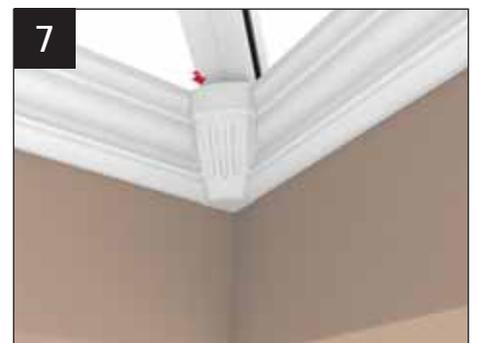
Skim plasterboard up to the lower clip leg on the aluminium carrier as shown. Alternatively, the heritage cladding can be fitted prior to skimming (see step 6b).



Push fit the Heritage cladding onto the carrier by pressing on from one end to the other.



Alternatively you can fit the Heritage cladding to the carrier first and then skim up to the heritage after fitting.



Clip fit the corner moulding by hooking over either the top or bottom and flexing the moulding over the opposite end to clip into position. Point as required with decorators calk prior to painting.

ROOF VENT

1

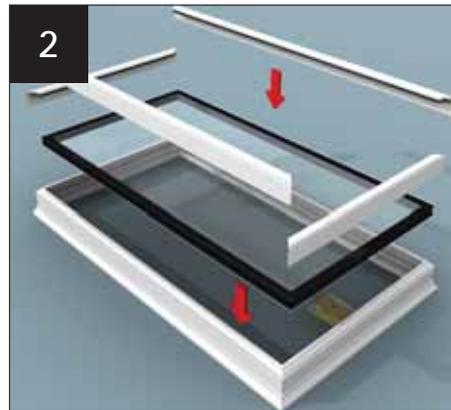
MS Polymer

- Self cleaning glass

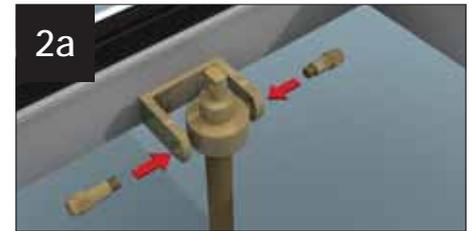
Low modulus neutral cure

- Polycarbonate glazing
- Standard sealed units

The vents are supplied unglazed – glazing wedges are cut to length. Dispose of all packaging safely and in an environmentally friendly way. Always use the correct sealant for the type of glazing material



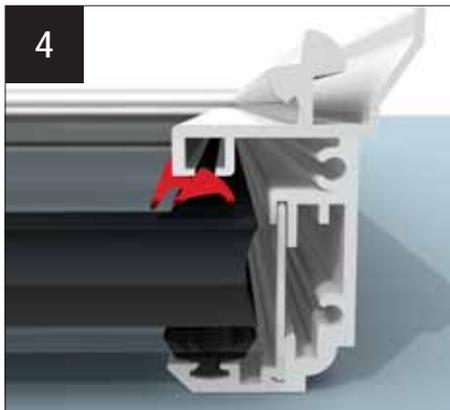
Remove vent 'lid' from the box and lay the correct way up on a protective clean surface. It may be easier to remove the winder mechanism. (See step 2a). Now fit glazing panel into place. Take the top and bottom un-mitred beads, run a bead of the appropriate sealant along both ends of the bead and clip into place. Now fit the mitre cut beads in the same manner.



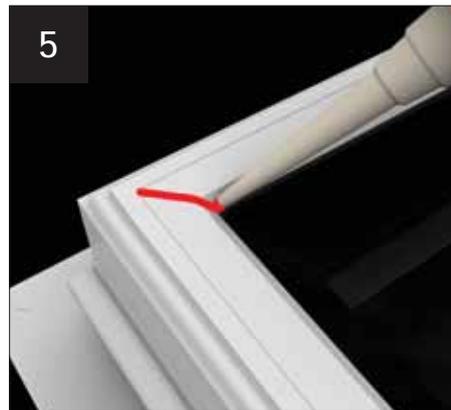
Remove the winder mechanism if pre-fitted – pull the spring loaded clip to release.



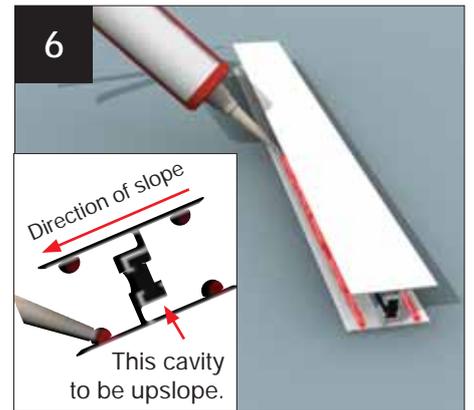
Now, invert the vent 'lid' (protecting the painted finish). Fit the wedge gasket, starting next to the manual vent bracket.



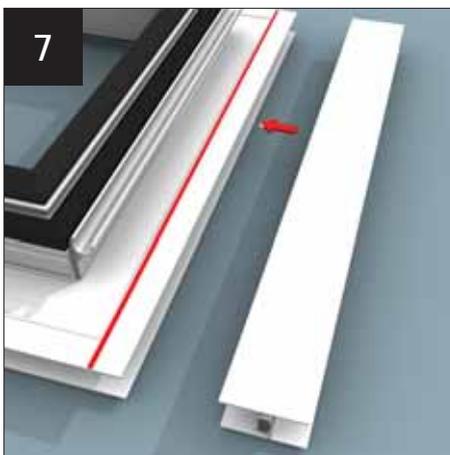
Insert gasket under vent under aluminium lip and work round the lid, cutting and notching in each corner and up to the vent bracket.



Turn back over and seal where the beads overlap. The lid is now ready.



Now is the time to glaze the vent body into the roof. The vent is glazed in using two H sections at top and bottom. Prepare the upper H section using appropriate sealant in the four positions shown.



Now is the time to glaze the vent body into the roof. The vent is glazed in using two H sections at top and bottom. Prepare the upper H section using appropriate sealant in the four positions shown. See inset (step 6) to determine correct way round for 'H' section.



Apply bead of appropriate sealant to top edge of vent body and then slide vent body into upper H section. Repeat process for lower glazing panel. H section and insert into trailing edge of vent body. Ensure glazing/vent body are central between the two glazing bars.

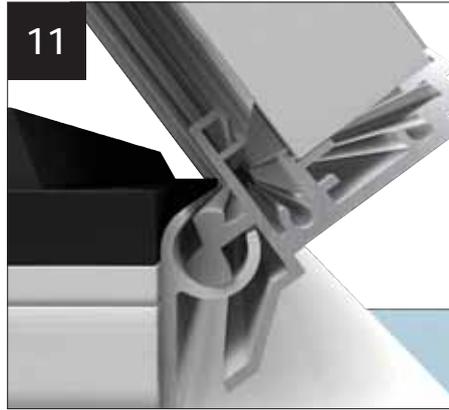


Using appropriate sealant (low modulus neutral cure for polycarbonate and MS Polymer for self cleaning glass), run beads along top and bottom edges of both H sections.

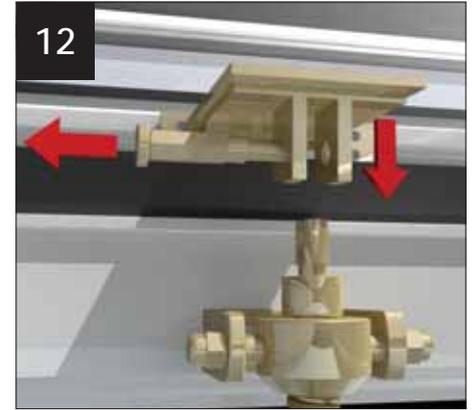
ROOF VENT



Now lift the pre-glazed lid into position and centralise –this may require two persons to safely handle it.



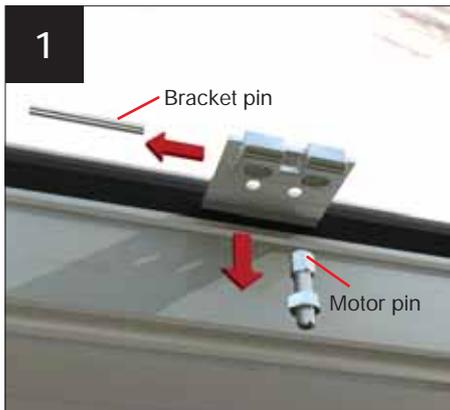
Lid knuckle will only engage with vent body hinge when lid is greater than 50 degrees. Once engaged, close lid



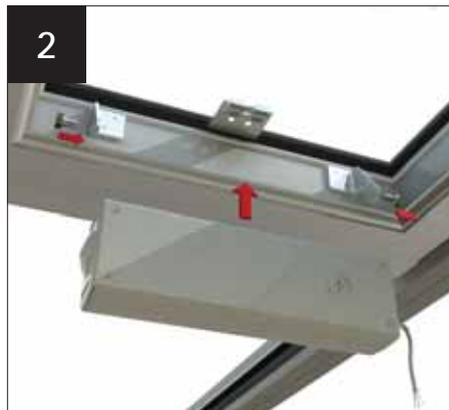
Now is the time to fit the spindle (if manually controlled). Remove spring pin if not already done. Attach spindle to lid. Now unscrew bolts in vent body, unwind spindle to correct height to align with bracket. Screw in bolts to secure spindle in position and re-attach spring pin.

VENT MOTOR

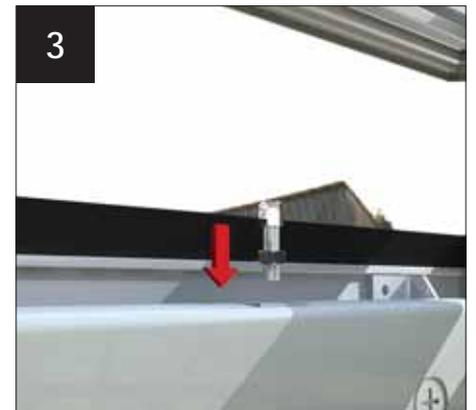
- CABLES CAN BE HIDDEN IN CLADDINGS & PRIOR TO ROOF BUILD



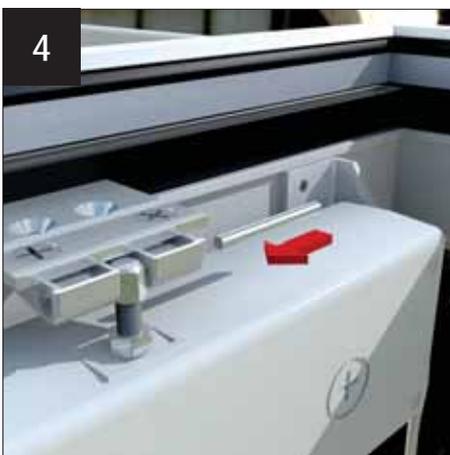
Pull out bracket pin to allow the vent motor pin to drop free.



Offer up the motor to the brackets on vent body and secure.



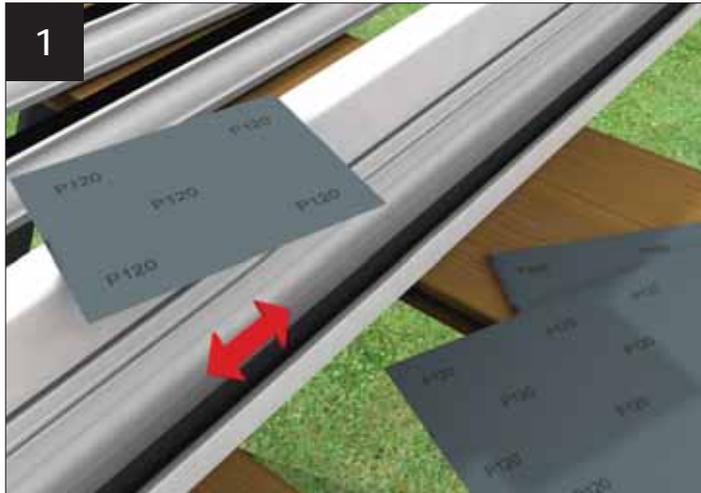
Screw motor pin into the top edge of the motor – adjust its height to fit with lid bracket.



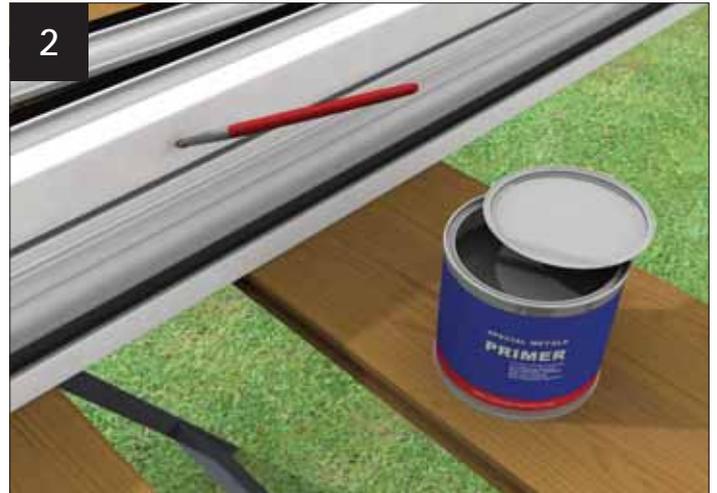
Refit lid bracket pin. Thread the motor pin nut downwards to secure.

NOTE If using a rain sensor, it can be mounted anywhere on the roof but in an exposed area. Ensure water cannot run down the cable and into the sensor. Thermostat and rain sensor electric pack comes complete with its own instructions.

CLEANING AND MAINTENANCE



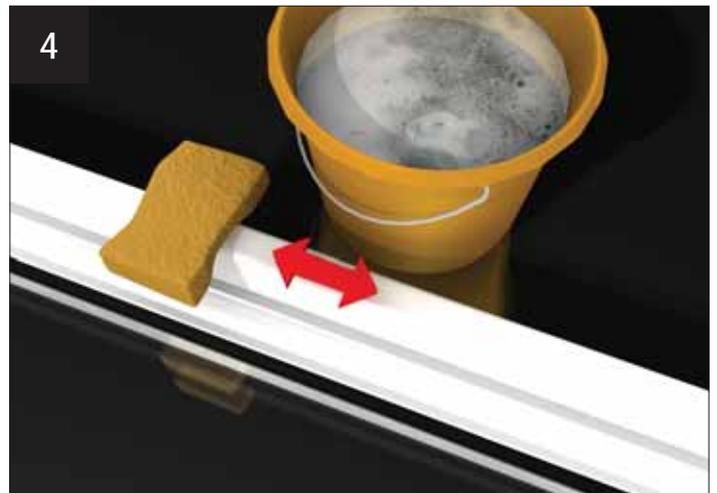
1 If surface damage is encountered, use 120-360 grit paper to prepare the surface. Wipe clean with white spirit.



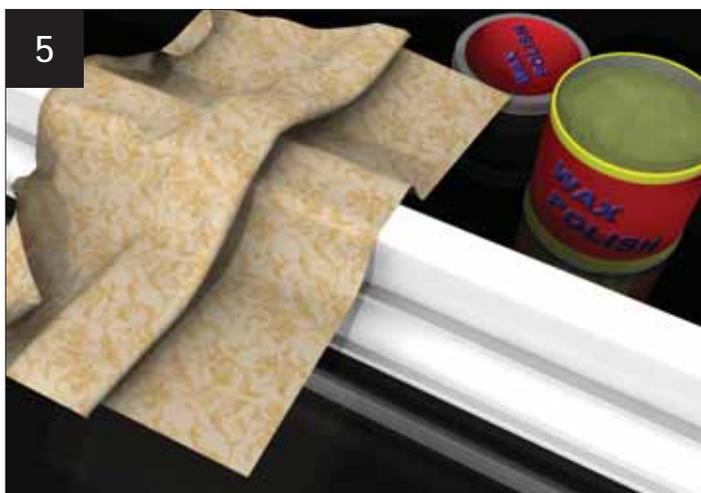
2 Ensure the surface is dry – apply a thin primer coat using a fine brush.



3 Finally, apply an air drying top coat with a fine brush.



4 General cleaning can be undertaken by a wash with warm soapy water.



5 For added protection, a wax polish can be applied up to twice per year – follow the polish manufacturer's instructions carefully.

PLEASE PASS TO HOMEOWNER

It should be noted that polyester powder coatings are not maintenance free – the extent of cleaning depends upon the local environment and on the attitude of the building owner. Think cars here...if the building owner wants a finish like that, more regular cleaning is needed. All paints will 'chalk' to some extent and there will be a reduction in gloss level over time – this can be restored.

Call: 01200 414604
Email: info@quantal.co.uk

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