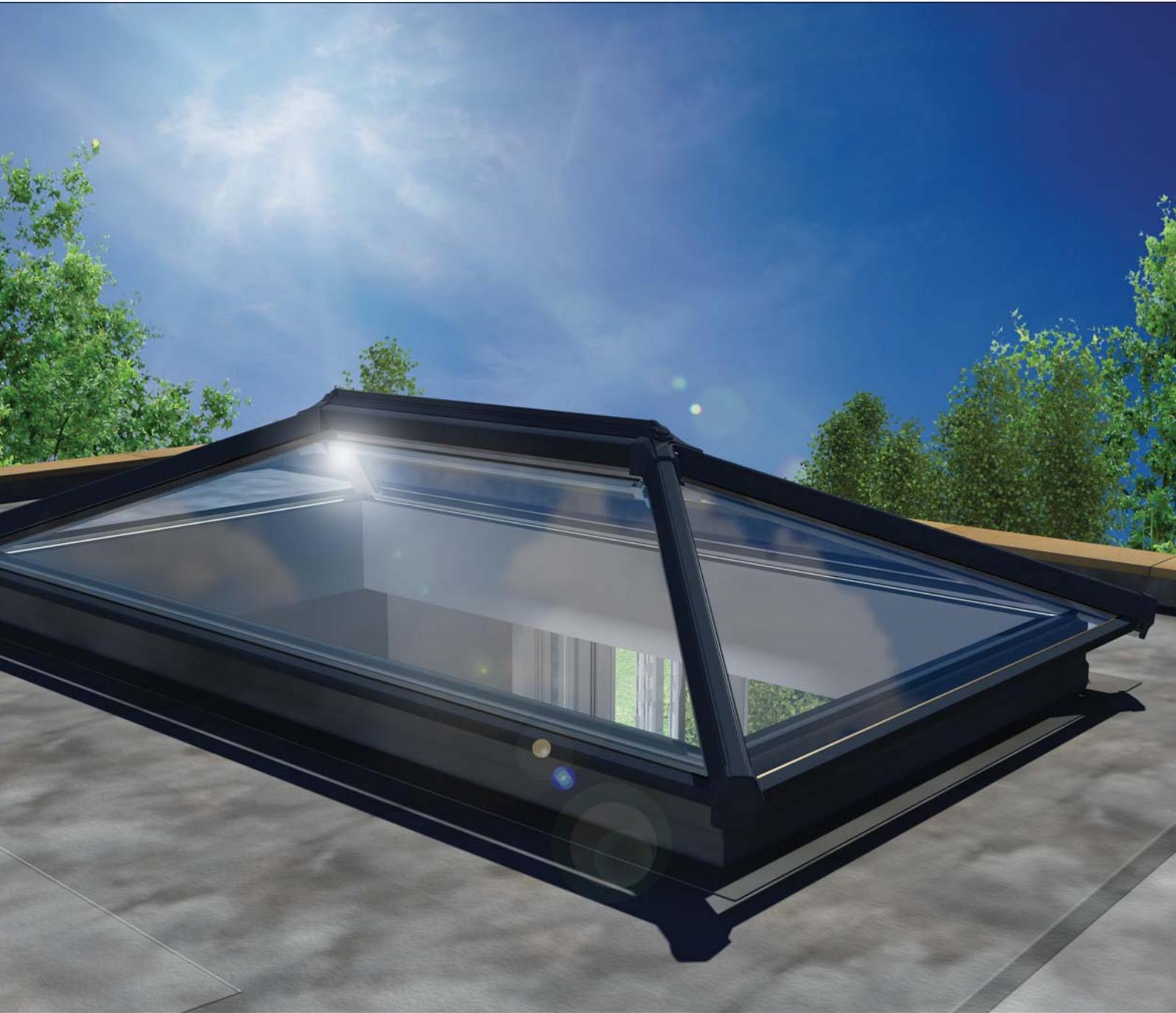


# ultraframe

Transforming light and space



**ultraSky**  
by ultraframe

Rooflight  
Installation Guide  
January 2015 | V1

**Thank you for choosing the Ultrasky rooflight product.  
This guide is designed to make fitting as straightforward as possible.**

Before you commence installation of the rooflight, please take a moment to read the rest of this guide.

This guide is written on the basis that the surveyor has undertaken correct checks for the capability / structural performance of any existing flatroof to verify it is fit for purpose. A timber kerb and weatherproofing materials for the deck/kerb interface are not provided.

Any feedback - positive or negative - is welcomed so we can make our systems even better.

**Please contact the Tech Support Team  
on 0843 208 6953 or email  
techsupport@ultraframe.co.uk**

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## CONTENTS

Overview / Tools / Materials handling	p2-3
UltraSky assemblies	p4-5
Component identity list	p6
Installation sequence	p7-10
PVC roof vent installation	p10-11
Cleaning and maintenance - aluminium	p12

### 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 particularly important. 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.

Careful consideration should be given to the safe disposal of all packaging which can be readily recycled.

### Product

The rooflight kit is supplied with a location plan. The location plan is used to match individual components to their respective position on the roof.

The majority of aluminium and PVCu components contain identification codes, usually by inkjetting or labelling – should you need to re-order a part this should help. (See component list on p6)

### Sealing

It is important to use the correct sealant when sealing the roof. Always use MS Polymer sealant such as Rotabond 2000 on self cleaning glass.

### The flat roof structure

Check the existing structure is sound and structurally fit for purpose. Check the opening is 'square' and the flat roof deck is level. A timber kerb of 150 x 70mm width should be used onto which is attached the rooflight.

### Technical Support

Tel: 0843 208 6953

Email: techsupport@ultraframe.co.uk

## TOOLS REQUIRED



8, 10, 13mm Socket Spanner



Deadblow Hammer or White Rubber Mallet



No. 2 Pozidrive Bit



Drill/Screwdriver



Gasket Shears/Snips



4.5mm Drill Bit  
10mm Drill Bit



Sealant Gun



Spirit Level (magnetic useful for internals)



Tape Measure



Box cutter or Stanley knife



Support Prop

**THERE ARE SOME MATERIALS YOU NEED TO SUPPLY: EG. PLASTERBOARD, 150 X 70 TIMBER KERB, FIXINGS TO HOLD ALUMINIUM EAVES BEAM TO TIMBER KERB**



**MS Polymer**

- Self cleaning glass
- Use the correct sealant on glazing

## HANDLING ALUMINIUM PRODUCTS

### PAINTED ALUMINIUM PRODUCTS - PLEASE NOTE

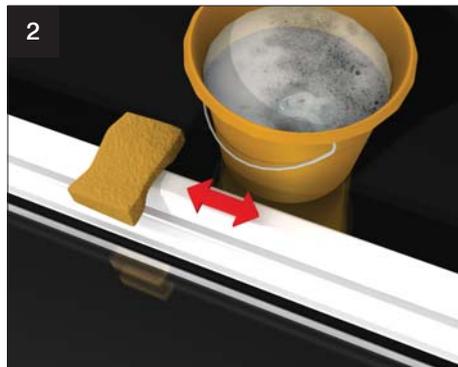
All paints will 'chalk' to some extent and there will be a reduction in gloss level over time. (See Cleaning and Maintenance guidelines p12)

### QUALITY EXPECTATIONS ON INSTALLATION.

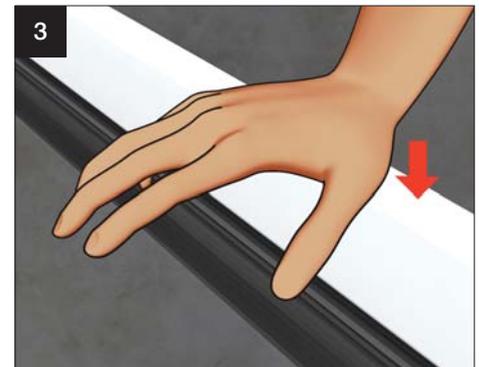
**Appearance:** This is assessed based on the selection of the 'significant' (primary) surface. From a distance of 3m, stand at an oblique angle of 60degree and then defects such as blisters, runs, pin holes etc should NOT be seen. **Colour and gloss:** Viewed from 5m, the coating must be of even colour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



1  
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.



2  
Grease marks, dirt and mastic spillage may be removed using soapy water.

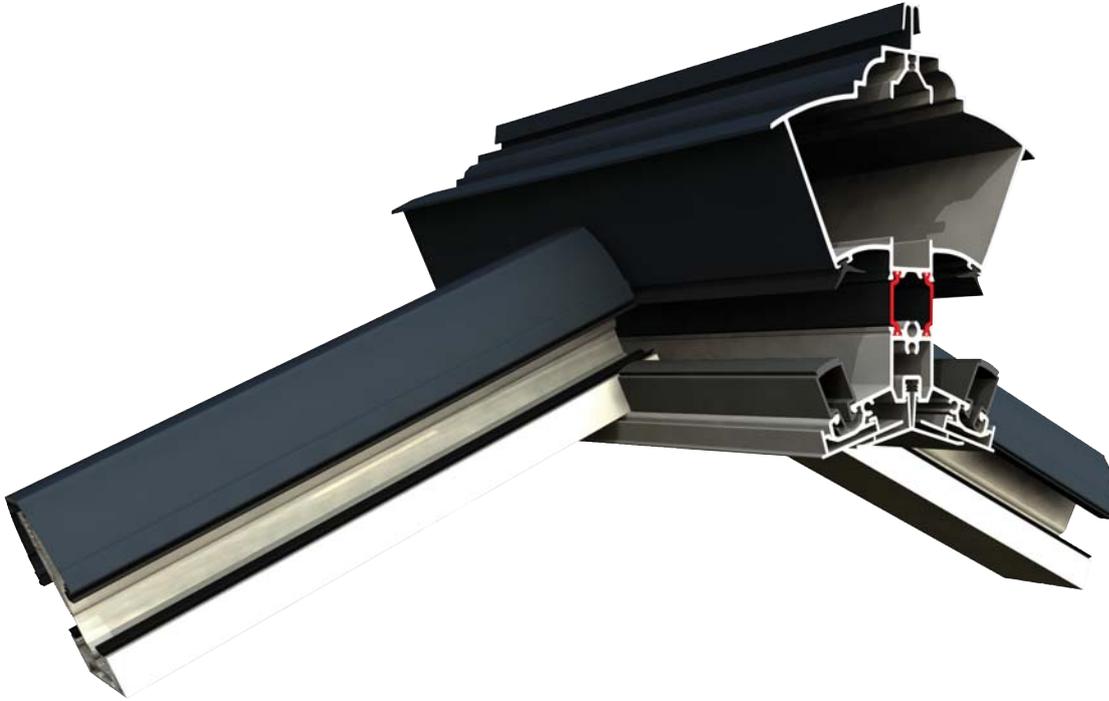


3  
Take care when fitting aluminium products to not use excessive force.

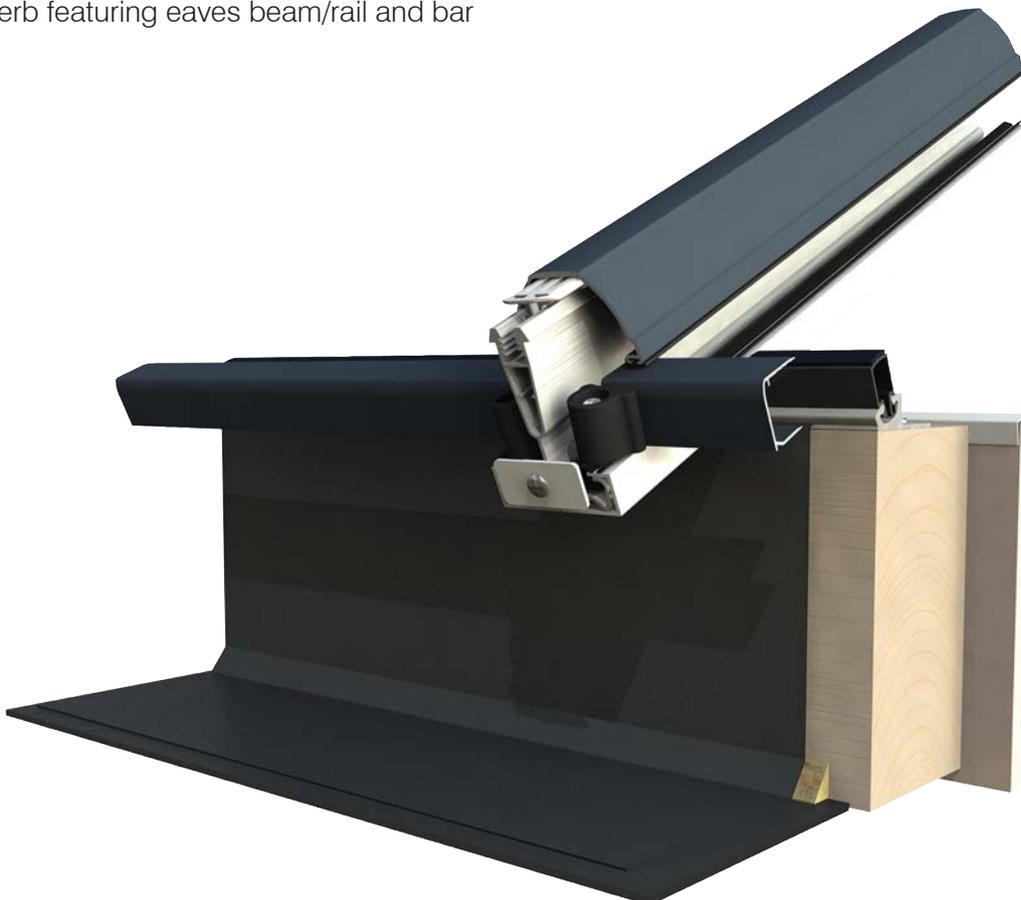
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## SYSTEM OVERVIEW

Thermally broken Ridge and Classic bar (with pvc top cap)



Timber kerb featuring eaves beam/rail and bar

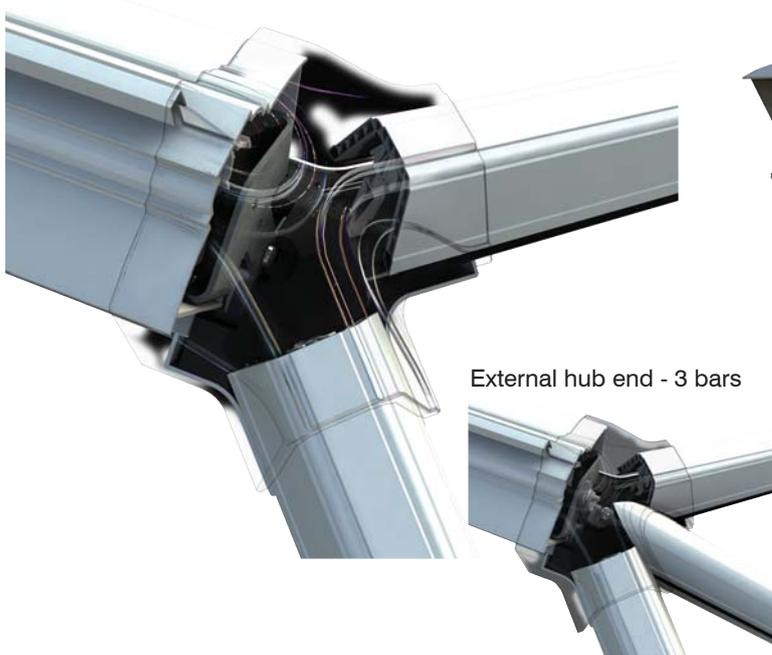


# SYSTEM OVERVIEW

Radius end - externally

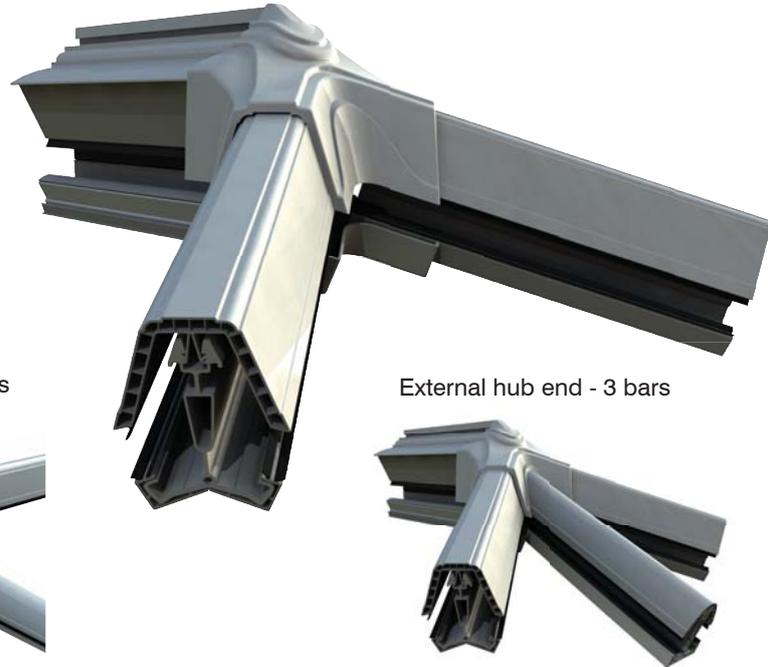
1. Aluminium externally

External hub end - 2 bars

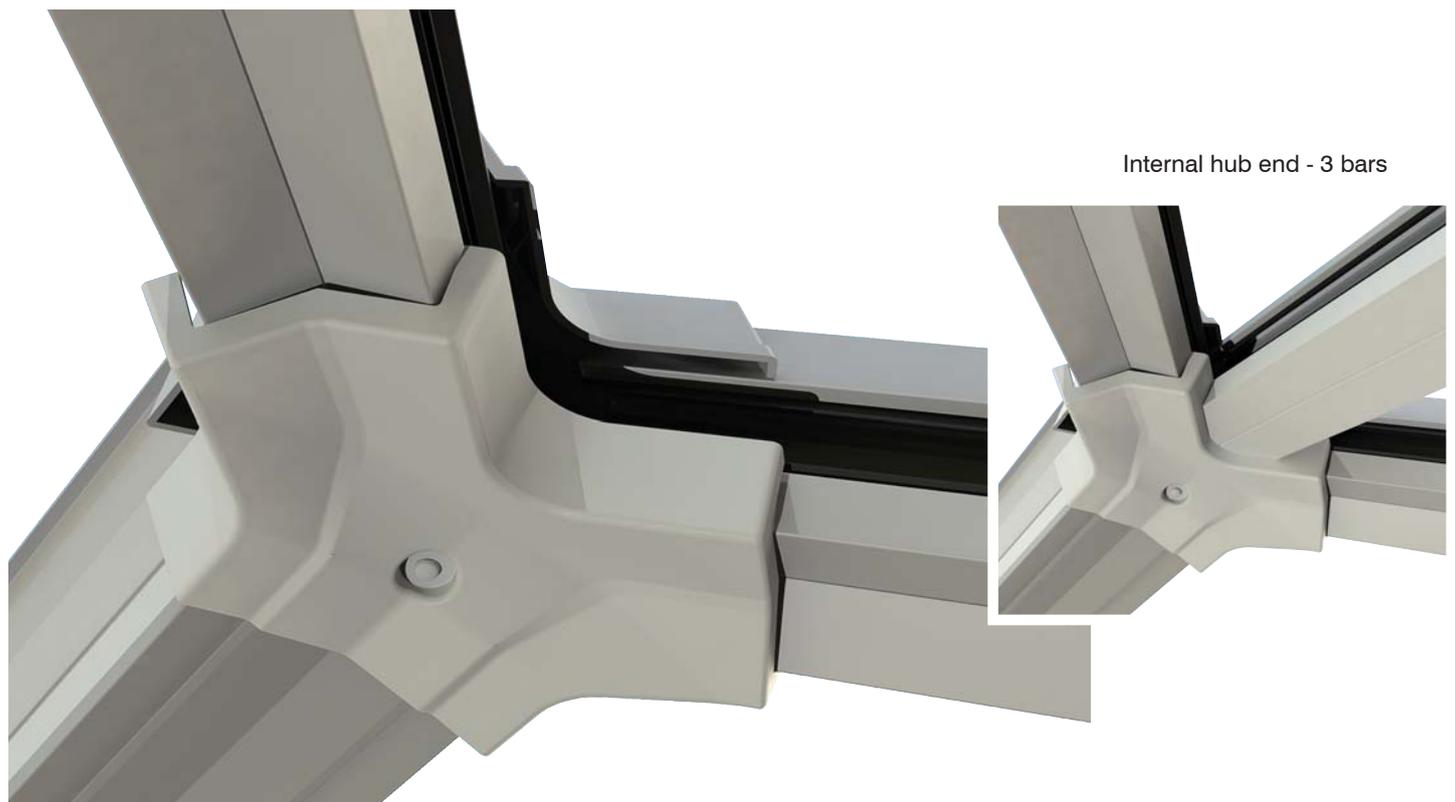


2. PVC externally

External hub end - 2 bars



Radius end - internally

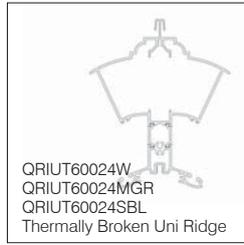


Internal hub end - 2 bars

# COMPONENT IDENTITY LIST



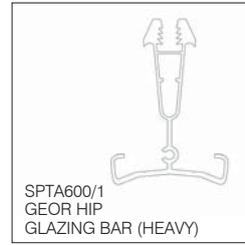
QORER600M  
Orangery Eaves Rail 6m Mill



QRIUT60024W  
QRIUT60024MGR  
QRIUT60024SBL  
Thermally Broken Uni Ridge



SPGC600/1  
TRANSMOM/VIC  
GLAZING BAR (78MM)



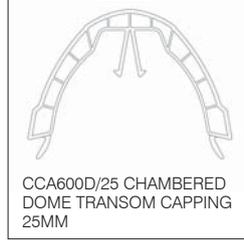
SPTA600/1  
GEOR HIP  
GLAZING BAR (HEAVY)



ATC600W/25  
ATC600MGR/25  
ATC600SBL/25 ALI CLIP FIT  
BAR CAP TRAN STD 25mm



AGC600W/25  
AGC600MGR/25  
AGC600SBL/25 ALUMINIUM  
CLIP FIT BAR CAP GEOR  
25mm



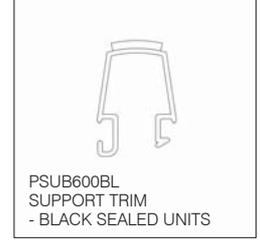
CCA600D/25 CHAMBERED  
DOME TRANSMOM CAPPING  
25MM



CCG600D/25  
CHAMBERED GEORGIAN  
CAPPING 25MM



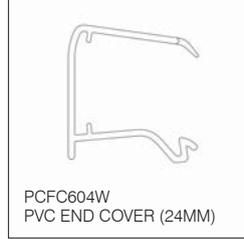
GBCB600C  
GLAZING BAR CLADDING  
6M WHITE



PSUB600BL  
SUPPORT TRIM  
- BLACK SEALED UNITS



AGP400/25W  
AGP400/25GR  
AGP400/25SBL  
25mm ALUMINIUM GLAZED  
END PROFILE



PCFC604W  
PVC END COVER (24MM)



Q8159/6  
WING CLADDING



Q8053/6  
RIDGE CLADDING



AGS305  
Q-LON GASKET SEAL T SLOT  
QEZ376



Q8201  
Retain Bead Gasket 150M



LAN001LW  
LAN001LMGR  
LAN001LSBL  
Ridge End Cover Infill LH



LAN001RW  
LAN001RMGR  
LAN001RSBL  
Ridge End Cover Infill RH



LAN002  
Lantern Fab End



LAN003  
Lantern Transom bracket



LAN004D/1 Lantern External  
Cover PVC 2 Bar



LAN004D/2 Lantern External  
Cover PVC 3 Bar



LAN005W/1  
LAN005MGR/1  
LAN005SBL/1  
External Rad End Cover Ali  
2 Bar



LAN005W/2  
LAN005MGR/2  
LAN005SBL/2  
External Rad End Cover Ali  
3 Bar



LAN006/1 Internal Rad End  
Cover 2 Bar



LAN006/2  
Internal Rad End Cover 3 Bar



LAN007 Foam Weathering  
Shield - glazing



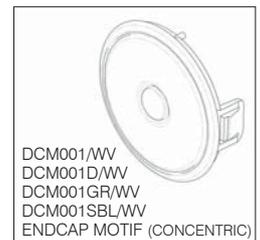
Q8825 Foam Weathering  
Shield - ridge closure



CCT001W  
CCT001D  
CCT001GR  
CCT001SBL  
CHAMB DOME ENDCAP



CCG001W  
CCG001D  
CCG001GR  
CCG001SBL  
CHAMB GEORG ENDCAP



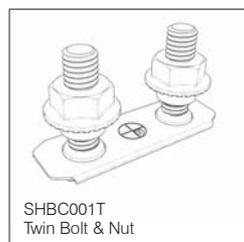
DCM001/WV  
DCM001D/WV  
DCM001GR/WV  
DCM001SBL/WV  
ENDCAP MOTIF (CONCENTRIC)



KDS001 4.8x25 PZ PAN SLF  
TAP BS 4174 Z&C



JRKA004/1 M4 x 12 PZ PAN  
TRI-LOBAL Z&C



SHBC001T  
Twin Bolt & Nut



SHBC001S  
M6 Single Bolt and Nut



VSR001  
VSR001BL Snap Rivets



EBT001  
M5 x 12 PZ PAN TRI-LOBAL  
SCR Z&C



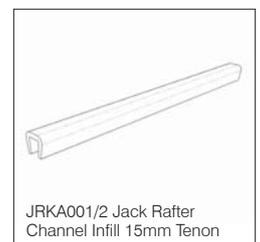
QREF001 R/End M6 x 25 Pozzi  
Pan head TAPTITEscrow



LVCC001 LivinRoof Top Cap  
Clip - Alu Top Caps

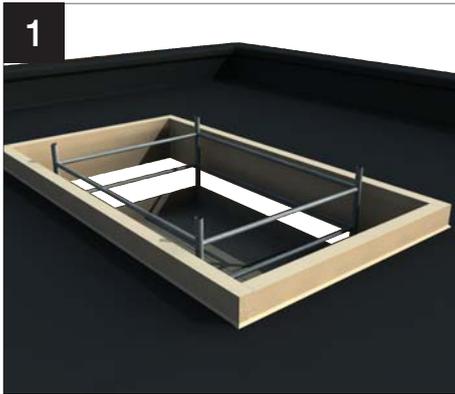


JRT015  
Jack Rafter Tenon

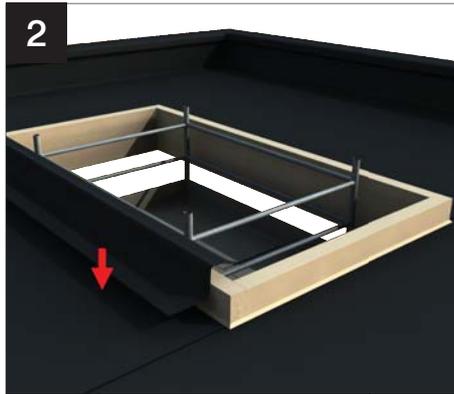


JRKA001/2 Jack Rafter  
Channel Infill 15mm Tenon

# INSTALLATION

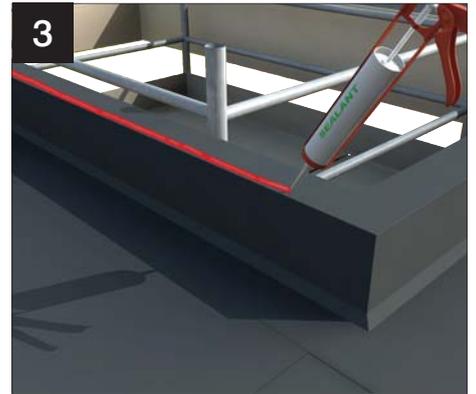


Construct the upstand to the flat roof with minimum of 150mm tall kerb (minimum of 70mm wide). Check that kerb is square by measuring diagonals. Apply membrane as per manufacturers guidelines.



Wrap the membrane up the kerb and lap over the top of the kerb ensuring that a watertight finish is achieved.

This is general guidance only - depends upon proprietary system being used.

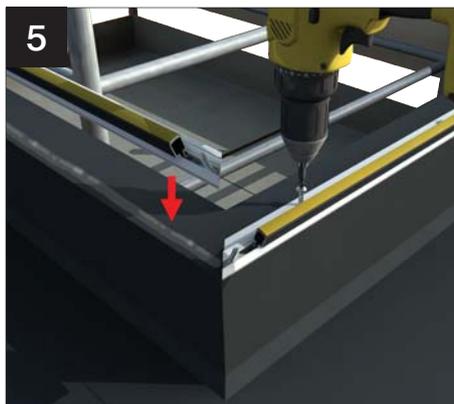


Apply a generous, continuous bead of silicone to the outer perimeter of the top surface of the kerb.

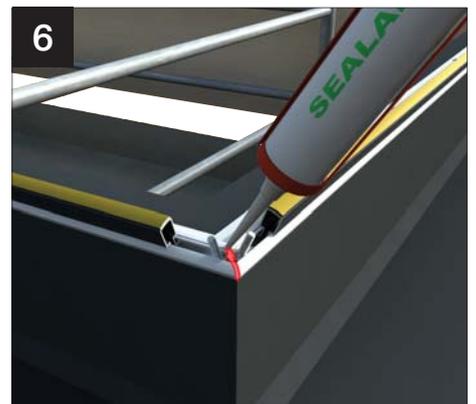


Pre drill 100mm from each end and drill a minimum of 4 holes at a max of 400mm centres using appropriate clearance drill. Now take the eaves beam/rail and ensure correct number of bolts are slotted into eaves beam/rail.

Minimum of at least 4 screws per eaves beam/rail length.



Seal cut ends of eaves. Line up eaves along outer edge of kerb and screw down using appropriate 5-6mm fixings (not supplied) ensuring good engagement.



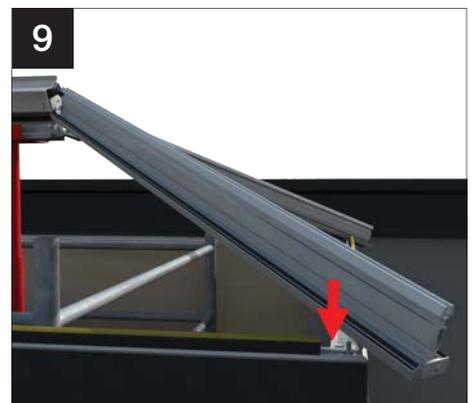
Once eaves beam/rail is fitted, silicone corner joints



Prop ridge in position using suitable supports, centralising between eaves beam sections.

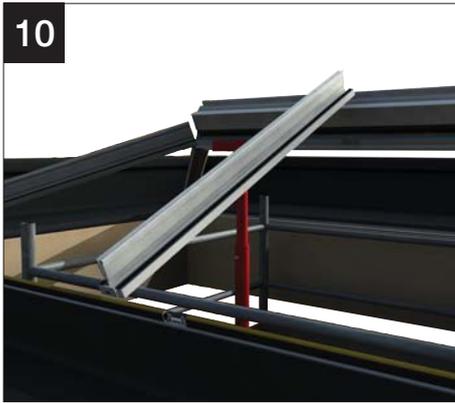


Remove nuts and bolts at ridge end, locate each hip bars and secure by hand tightening nuts.

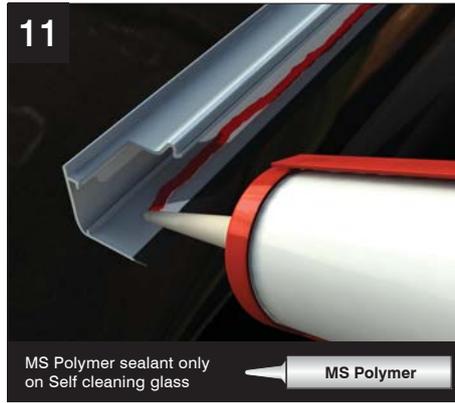


Remove nuts on eaves beam. Fit hip bars onto bolts and hand tighten nuts.

# INSTALLATION



If specified on the job, remove nuts from bolts in transom position and fit transom bar over bolts. Re fit nuts and hand tighten. Check that ridge is level and fully tighten nuts on all bars.



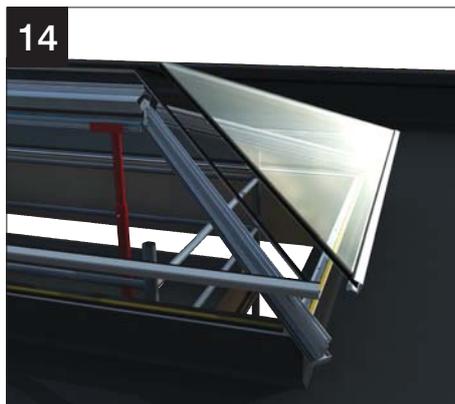
Now move to the glazing stage. Seal underside of top face of glazing end profile as shown (PVC version of end profile is shown).



Snap off appropriate handed clip (LH shown). Handing marked at base of clip. Line up the rounded edge on base plate next to central web of glazing bar and tuck under gasket side of bar. Rotate clip into position. Push the grommet over the post. Slide assembly down to end of bar.



Peel back a small tab of the protective film on the glazing support from the eaves and the ridge. (ready to be pulled away when the sealed units are finally in position). **DO NOT FULLY REMOVE TAPE YET.**



Fit glass units into place. When fitting units along the ridge, lift the unit slightly and push into the ridge, then lower onto the eaves against the glazing end stops.



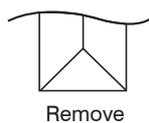
Centralise the glazing between the glazing bars. If necessary, pack out on each side. Peel away protective film from glazing support at eaves and ridge and press glazing down firmly. Ensure that glazing end profile sits snugly behind grommet, on the glazing end stop. Using fixing provided, screw down into the glazing bar (as shown).



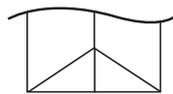
Now move on to finishing the ridge weather proofing. Screw rear infill panels into position using 2 x M4 fixings supplied through pre drilled holes. The panels are handed and should be fitted as shown.



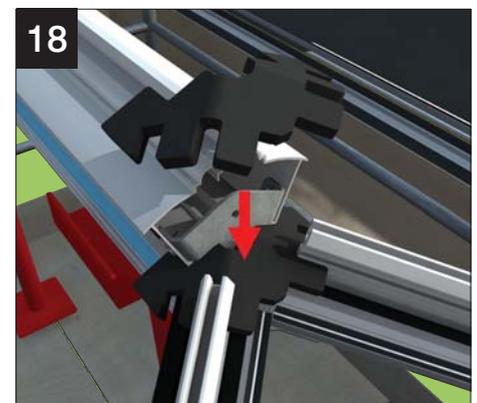
If 2 bar option, remove triangular section of weathering shield. Do not remove if 3 bar option.



Remove

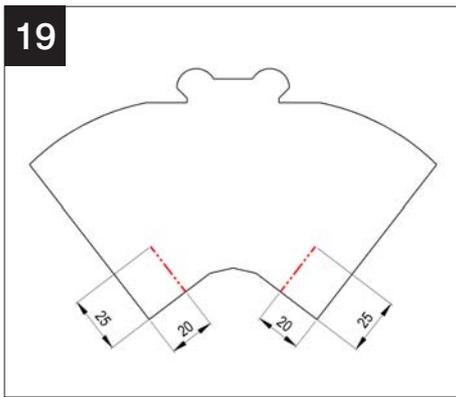


Keep

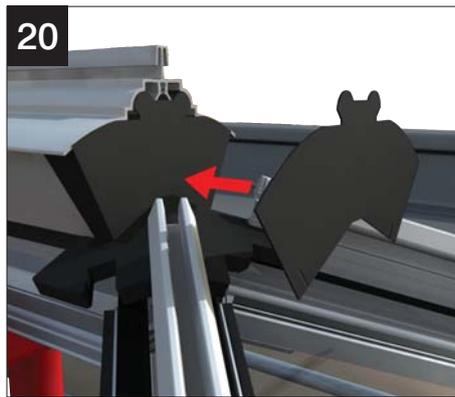


**ENSURE THE GLASS IS CLEAN AND DRY BEFORE FITTING.** Peel back protective film from weathering shield and position (adhesive face down) on glass, locating around the ridge and the hip bars. Press down firmly.

# INSTALLATION



19 Cut 2 slits into ridge end weathering shield approximately 20mm in from each end and approximately 25mm deep and remove protective film.



20 Apply to end of ridge, bending centre cut over top of glazing weathering shield and wrapping around sides of ridge and lapping over the top of the glazing weathering shield.



21 Apply sealant as shown to the weathering shield. Seal around the joint between the weathering shield and the glass and ridge.



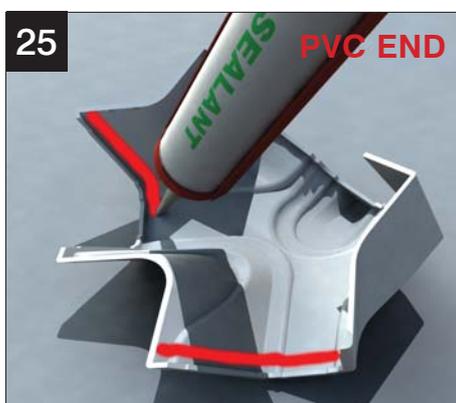
22 Work your way around the roof and fit PVC glazing bar topcaps.



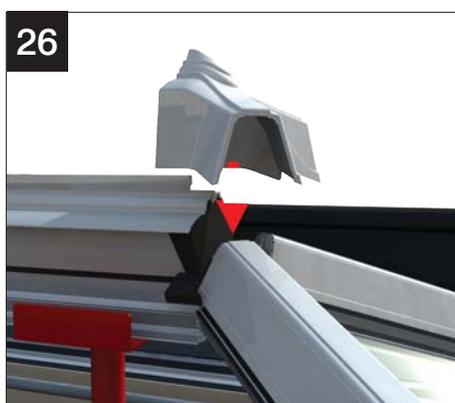
23 This stage should have been prepped in the factory. If not take the aluminium top caps and lay them onto a protected surface. Slide clips into each bar - position down from ridge / eaves at a max centre of 100mm and then at 500 centres (max) inbetween. **N.B. AT RADIUS END, IT MAY BE NECESSARY TO SLIDE CLIP FURTHER DOWN TOP CAP TO ENSURE ENGAGEMENT WITH GLAZING BAR**



24 Using the heel of your hand, push down on the top cap to engage the clips, working from ridge to eaves. Ensure the rubber gaskets are full compressed for a watertight seal. NOTE: on longer bars it may be necessary to use a soft mallet and timber block.



25 Apply generous bead of silicone to underside of ridge end cap as shown.

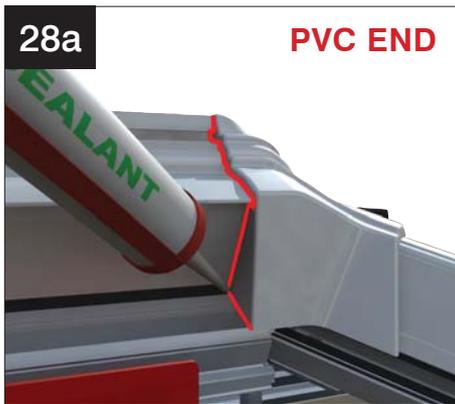


26 Fit PVC ridge end cap over the ridge by flexing rear side panels until it clips over ridge. For the aluminium end, slide down over previously fitted infills. (See step 16)



27 Seal around joint between hips caps and ridge end cover.

# INSTALLATION



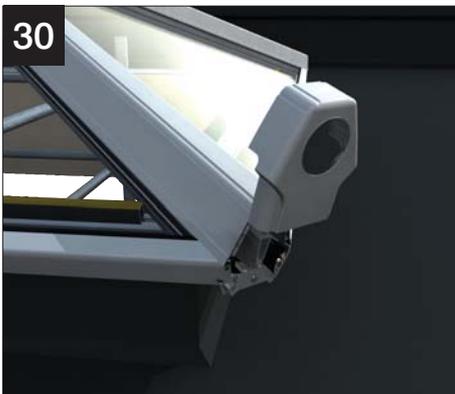
Seal around the rear of the ridge end cap where it meets the ridge. For the aluminium product see step 28b along side.



Seal along the ridge baffle where it meets the glazing and over any bar where it meets the ridge.



Seal along the ridge baffle where it meets the glazing and over any bar where it meets the ridge.



Fit end caps to bars and push in circular cover disk to finish.



Fit internal ridge claddings. Fit internal ridge hub end cover by flexing rear around ridge.



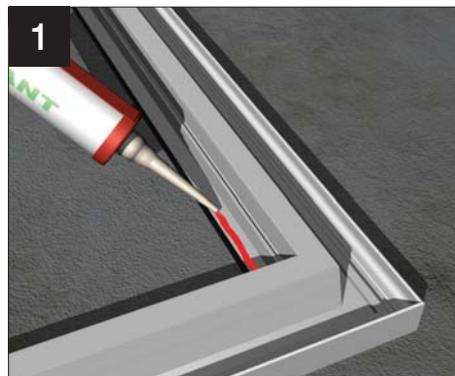
Using supplied plastic rivet, push through the hole in the hub under cladding and then into the hole in ridge end to secure.

## PVC ROOF VENT INSTALLATION - SASH

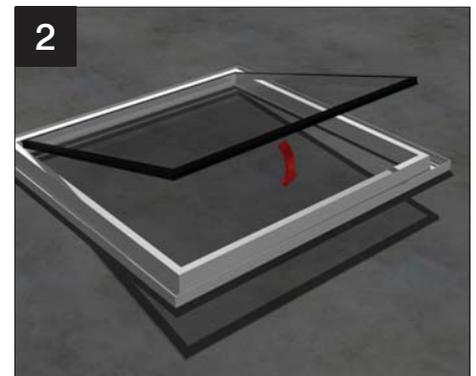
### IMPORTANT

The roof vent opening sash must be glazed prior to fitting the vent to the conservatory roof. Leaving the recommended time (dependent on outside air temperature) for the sealant to cure.

Sealant curing time will vary depending upon the time of year and outside temperature prevailing, This could take up to 8 hours in cold conditions. This is critical when the sash is to be glazed with a sealed unit.



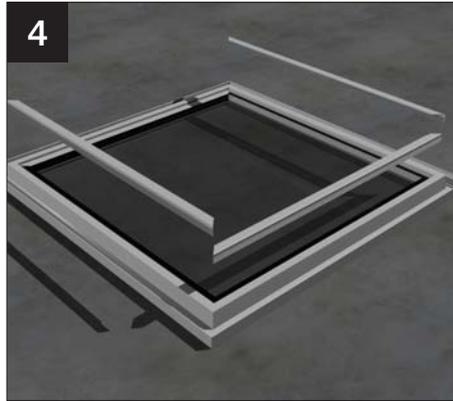
Remove the opening vent sash from the vent mainframe and lay the opening sash upside down on a flat surface. (Protect the surface to prevent damage to the sash). Run a continuous bead of appropriate sealant immediately behind the black co-extruded gasket, taking care to ensure a continuous run around the perimeter of the opening sash.



Remove all handling tape around the perimeter of the unit. When inserting the glazing ensure it is the correct way round and the external face is face down onto the continuous bead of sealant.



Seal the area around the full perimeter of the glazing.

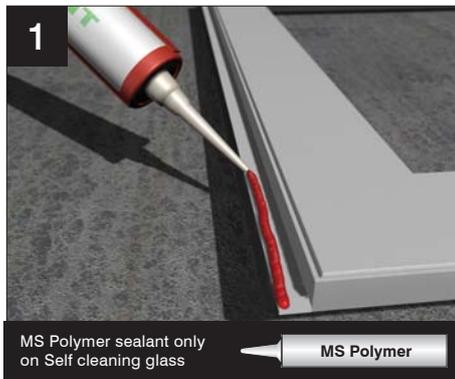


Re-fit the 'L' shaped serrated glazing beads to the opening sash. A small block of timber is useful to carefully knock in the beads.

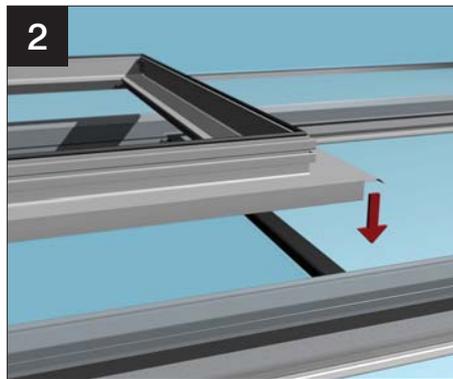


Centrally screw fix the sash bracket into the position shown above using the fixings provided. **Leave the sash to cure before fitting.**

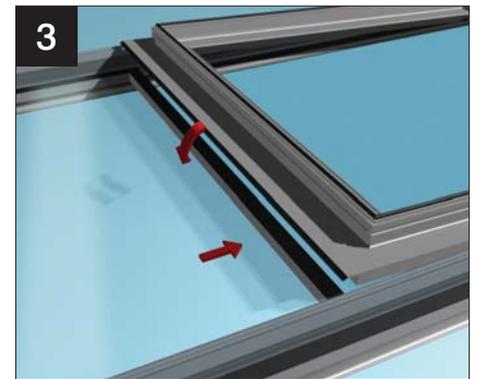
## PVC ROOF VENT INSTALLATION - MAINFRAME



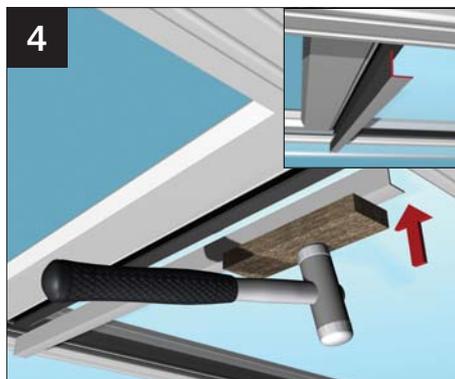
With the opening sash removed, lay the mainframe upside down on a smooth clean surface (protect the surface to prevent damage). Run a continuous bead of sealant (appropriate to the glass type) immediately behind the co-extruded gasket on the upper and lower legs.



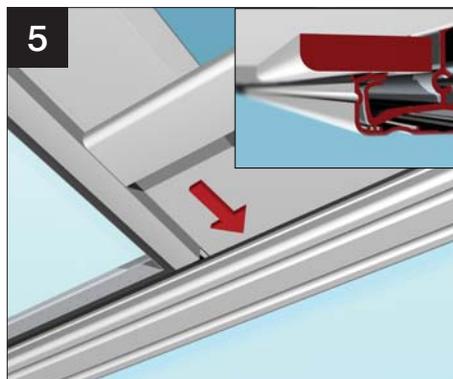
Carefully lower the frame into position on to the upper double glazed unit, making sure that any glazing tape has been removed from the edges of the sealed unit).



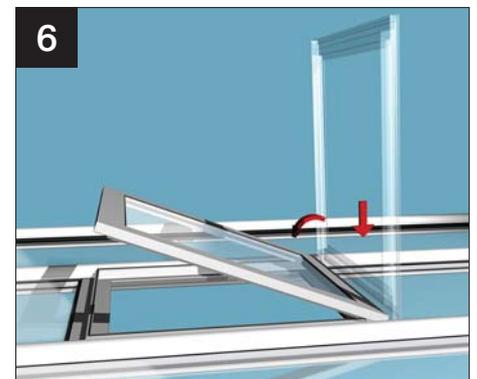
Lift the lower mainframe leg and offer into position the lower double glazed unit. Press down the mainframe firmly into position.



From inside, knock in the 'L' shaped serrated glazing beads to the top and bottom edges of the mainframe. NOTE: We recommend a second person to support the mainframe on the outside whilst carrying out this procedure.

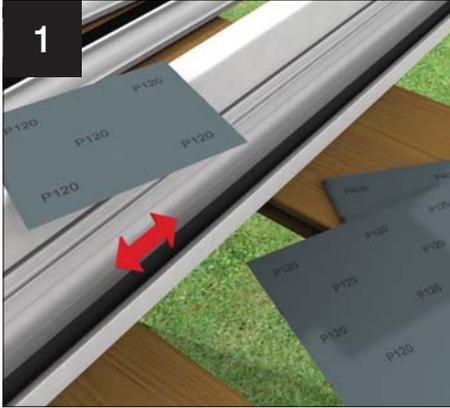


Down each side of the roof vent mainframe an 8mm thick PVC architrave type packer is provided to suit the glazing thickness. Position as shown above.

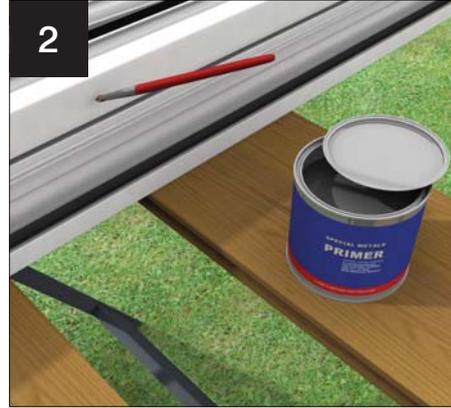


When the sealant on the mainframe has cured, re-fit the outer sash by holding vertically and re-engage on to the 'S' shaped hinge, before lowering into position. Refer to vent installation guide for further information about attaching the opening mechanism etc.

# CLEANING AND MAINTENANCE - ALUMINIUM EXTERNAL



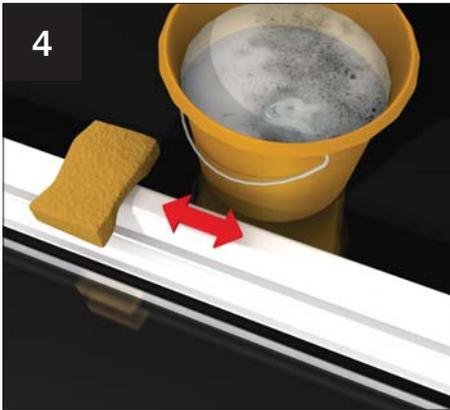
1  
If surface damage is encountered, use 120-360 grit paper to prepare the surface. Wipe clean with white spirit.



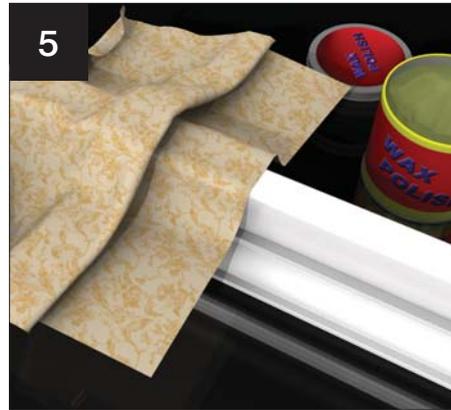
2  
Ensure the surface is dry – apply a thin primer coat using a fine brush.



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.

Only access roofs safely and using appropriate access equipment

## 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.