

ROOF MAKER

WORLD CLASS ROOFLIGHTS



INSTALLATION GUIDE
SLIMLINE[®] ROOF LANTERN
WITH ADDITIONAL GLAZING SPLITS

ROOF MAKER

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SLIMLINE® STEP-BY-STEP INSTALLATION GUIDE

THANK YOU FOR CHOOSING ROOF MAKER, WE HOPE YOU ARE DELIGHTED WITH YOUR NEW ROOFLIGHT.

Our roof lanterns have been designed with speed and ease of construction in mind, so that you don't need to be a professional installer to build and fit them.

This guide will take you through an easy-to-follow process to ensure you build and install your roof lantern correctly, but if you do need advice or help, our technical support team are available to provide guidance.

GUIDE WEIGHTS FOR THE SLIMLINE® ROOF LANTERN*

GUIDE WEIGHTS		
Size (mm)	Double Glazed: Weight (kg)	Triple Glazed: Weight (kg)
1000x1500	70	100
1200x1500	80	115
1000x2000	85	125
1400x2000	115	165
1200x2400	120	170
1000x3000	125	180
1000x3500	175	250
1000x4000	230	315
1300x4000	250	330
1500x3000	175	250
1500x3500	200	290
1600x4000	240	350
2000x3000	220	320
1600x5000	300	N/A

**Please add 10kgs per vent, to the above weights if including an opening vent(s).*

THE GUIDE EXPLAINED

This guide covers the installation of a Slimline® roof lantern with additional panes and splits in the glazing, which are required to achieve larger roof lantern sizes.

If your Slimline® roof lantern has been specified with a standard 4 pane configuration, you will need to follow the 'Slimline® 4 Pane Configuration' installation guide instead. If you haven't received this, it is available to download from the Technical Document Hub on our website: <https://roof-maker.co.uk/help/technical-document-hub/>

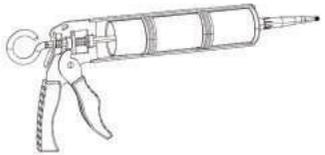
If you have an opening vent(s) specified in your lantern, you will need to follow the 'Slimline® With Vent(s)' installation guide instead. If you haven't received this, it is available to download from the Technical Document Hub on our website: <https://roof-maker.co.uk/help/technical-document-hub/>

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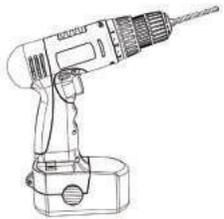
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WHAT DO I NEED TO CONSTRUCT MY ROOF LANTERN?

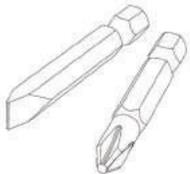
IN ADDITION TO YOUR SLIMLINE® ROOF LANTERN KIT, YOU WILL NEED:



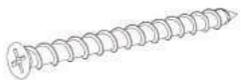
Silicone adhesive sealant (recommended Dow Corning 791 or similar)- Required for the fixation of your upstand to the prepared timber kerb. **Silicone required when glazing the unit will still be provided as part of your kit.**



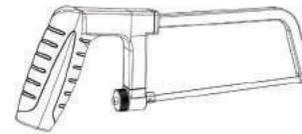
Drill with HSS drill bit – To pre-drill the aluminium upstand to form holes for your timber screws when fixing to your timber upstand.



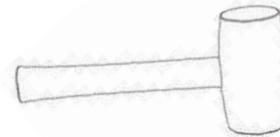
Posi drive and flathead drill bits – For fixing of screws and bolts throughout the assembly.



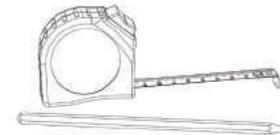
12 timber screws – Measuring at least 50mm in length. Required to fix the upstand to the prepared timber kerb.



Hacksaw - To trim the plastic cap carriers as advised in the fitting guide.



Rubber mallet – To carefully tap components into place such as carriers and cappings.



Tape measure and pencil



Stanley knife

Damp cloth – To wipe off any excess silicone as required.

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COMPONENT CHECKLIST

The images below show a component checklist that you will receive as part of your flat packed kit. This will be attached to the box which contains most of your components. Not all of the components listed will be applicable to your chosen specification. Your exact inventory will be outlined, along with quantities, as part of the list. This also includes imagery to help you locate the various components and familiarise yourself with what you will be working with.



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SUMMITRY LANTERN COMPONENT CHECKLIST			
JOB REF # NAME			
FRAME COLOUR			
NUMBER OF GLASS PANEES			
SIDE			
PACKED BY (print name)			
CHECKED BY (print name)			

COMPONENTS FOR STANDARD CONFIGURATION LANTERN (NO GLAZING SPLITS)			
IMAGE	COMPONENT	QTY	TICK
	Aluminum ridge body (with end blocks and fixings) - prepared with glazing tape		
	Pyramid apex hip attachment block (pyramid lanterns only)		
	Plastic ridge cap carrier		
	Aluminum ridge cap cover		
	Aluminum hip body - prepared with glazing tape		
	Plastic hip cap carrier		
	Aluminum hip cap cover		
	Pre-assembled upstand (prepared with nuts and bolts for hip body attachment)		
	Aluminum ridge end caps		
	Aluminum pyramid apex cap (pyramid lanterns only)		
	Plastic glazing spacers		
	Aluminum hip end caps		
	Black counter-sink screws		
	Allen key (in case adjustment of ridge is required)		
	Sealant tube		



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SUMMITRY LANTERN COMPONENT CHECKLIST			
JOB REF # NAME			

COMPONENTS FOR ADDITIONAL GLAZING SPLITS/VENT INSTALLATION (IF APPLICABLE)			
IMAGE	COMPONENT	QTY	TICK
	T-bar outer (longer than inner T-bar, with cut out) - prepared with glazing tape		
	T-bar inner - prepared with glazing tape		

COMPONENTS FOR LARGER LANTERN KITS (EXCEEDING 3000 X 1500 WITH UNASSEMBLED UPSTAND SECTIONS) (IF APPLICABLE)			
IMAGE	COMPONENT	QTY	TICK
	Upstand section (in lengths)		
	Nut and Bolt		
	Corner cleat type A		
	Corner cleat type B		
	Straight cleat (for large lanterns, joining upstand sections, end on end)		
	Self-drilling screws		

COMPONENTS FOR OPENING VENTS (IF APPLICABLE)			
IMAGE	COMPONENT	QTY	TICK
	Vent housing (includes winding mechanism or motor)		
	Pre-glazed vent lid		
	Chrome winding pole (for manual vents)		
	Rocker switch (if applicable)		
	Climate control (rain sensor unit, if applicable)		

Make sure to read through all steps and understand the requirements before beginning assembly.

Please take precaution when moving heavy objects and working at height - be sure to use suitable equipment.

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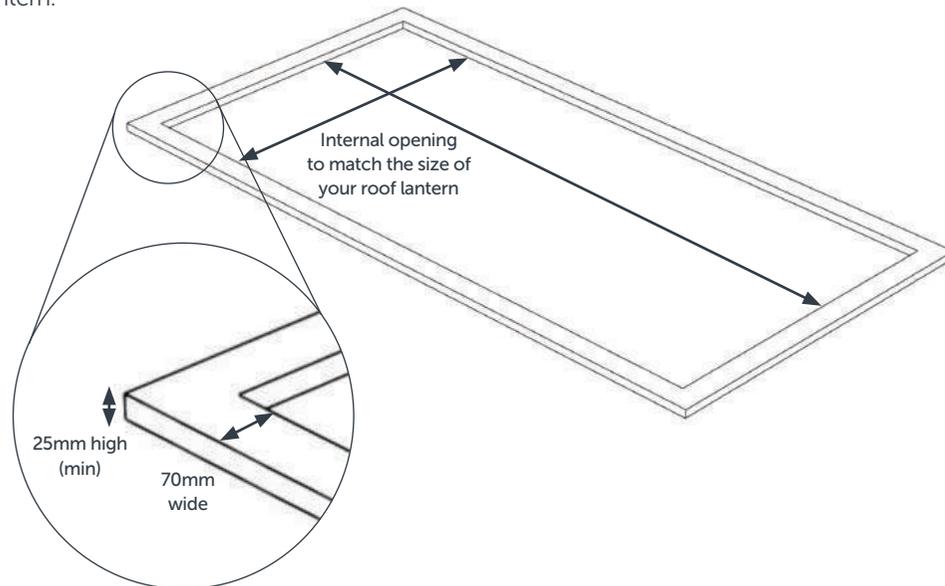
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STEP 1 - PREPARE THE TIMBER KERB

i) Before you begin the construction of your new roof lantern, you will have installed the timber kerb. The size of the internal opening should reflect the exact size of the roof lantern you have ordered. For example, the roof opening should measure exactly 2m x 1m for a unit that measures 2m x 1m.

Your timber kerb should measure 70mm in width, to match the width of the built-in upstand that you are going to assemble. We recommend a minimum height of 25mm from roof level, but this can be increased if required.

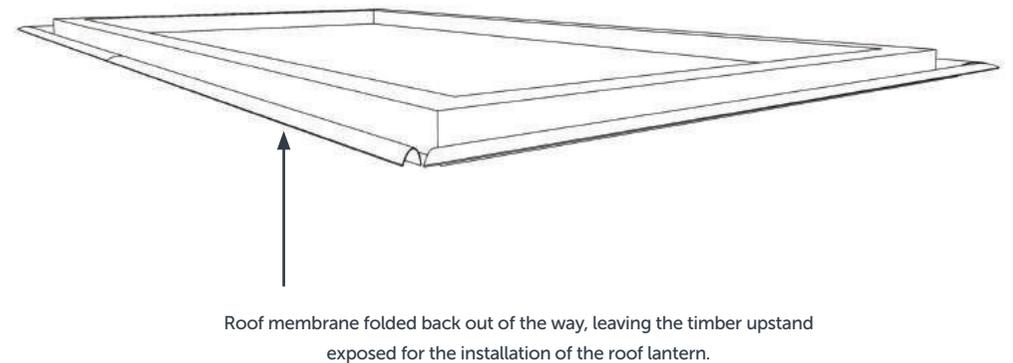
The upstand should be perfectly level and we also recommend that you check the corners have a 90° angle, by measuring it corner to corner before starting the assembly of the roof lantern.



STEP 2 - PREPARE THE ROOF MEMBRANE

i) We recommend that you apply your roof membrane after installing your roof lantern, to avoid damaging or piercing it during the installation.

If you have added your roof membrane on top of your plywood deck already, please ensure that you leave enough excess material around the timber kerb to flash the roof lantern upstand. This can be folded back out of the way until your roof lantern is installed.



You are now ready to begin the construction of your new roof lantern.

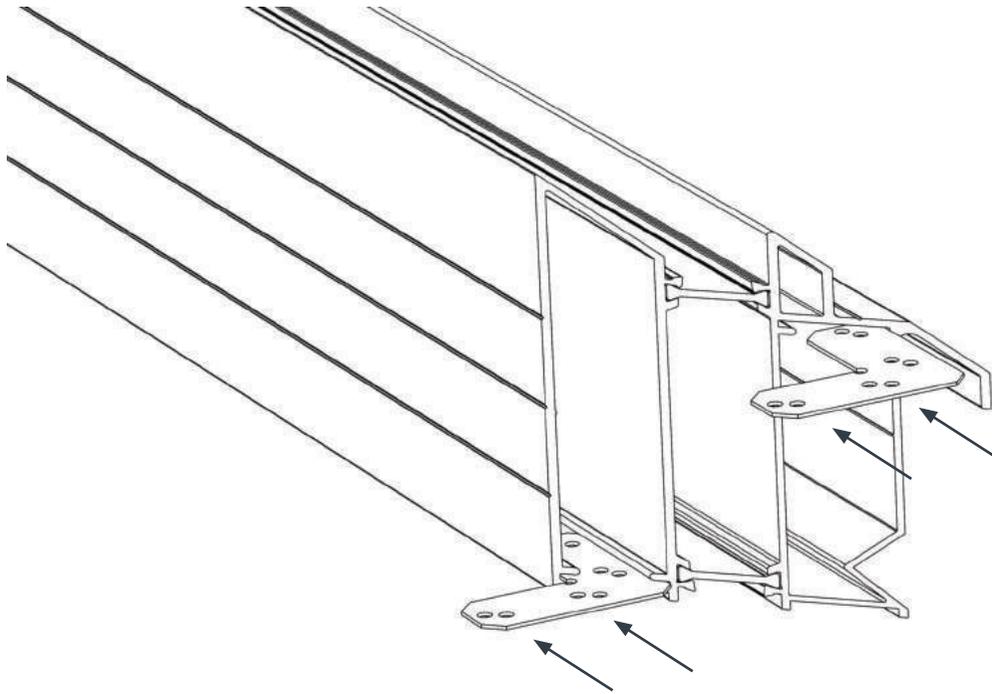
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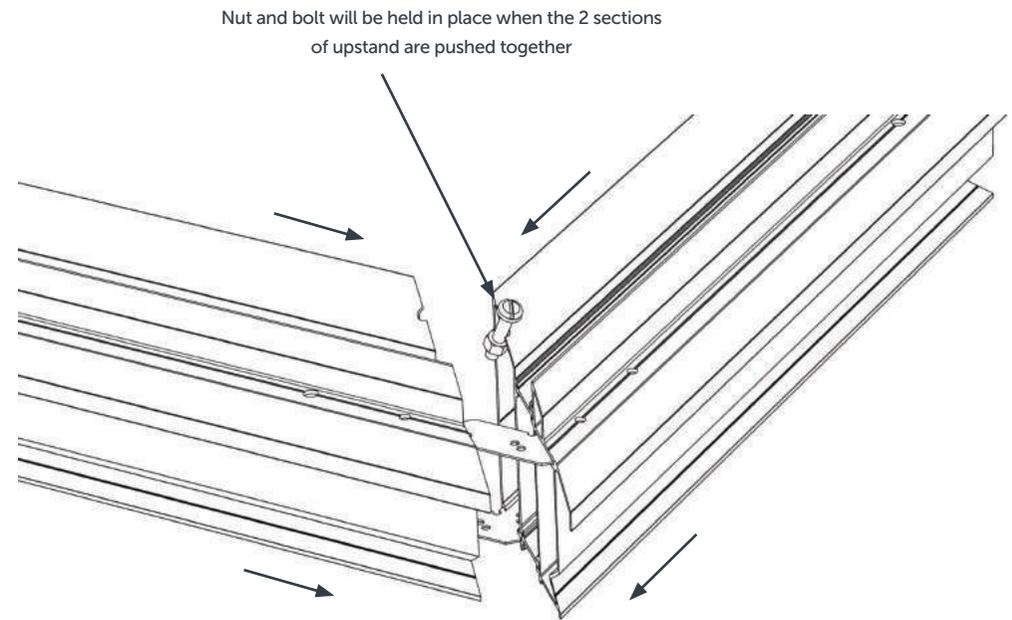
STEP 3 - UPSTAND ASSEMBLY

For most sizes, the built-in, insulated upstand will come ready assembled. But if your roof lantern is larger than 3m x 1.5m you will need to assemble the frame yourself. If your upstand is pre-assembled, proceed to step 4.

i) Take two of the corner cleats and insert them into the slots in the frame as shown.



ii) Then take the other ends of the cleats and insert them into the slots of the corresponding piece of the frame. Before you push the two pieces of frame together, make sure that the nut and bolt are placed into the pre-cut hole as shown below.

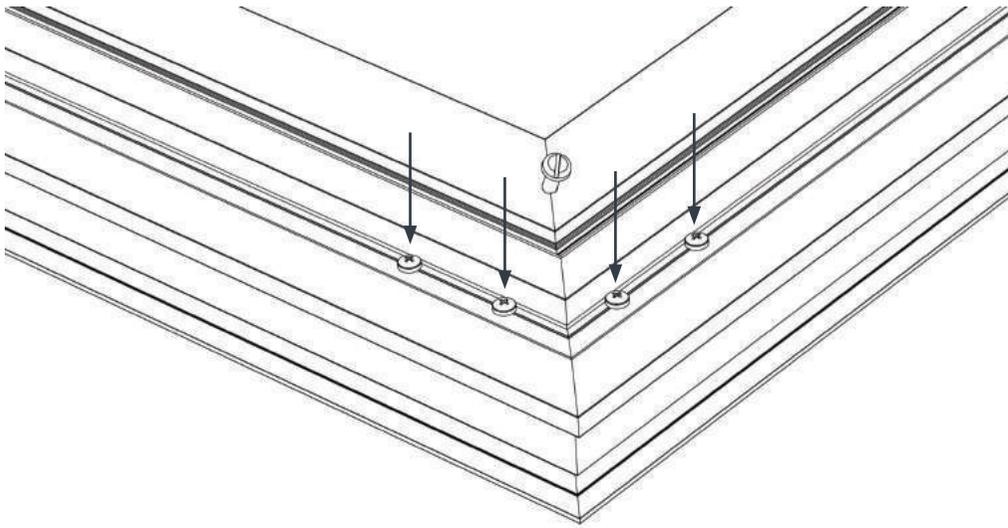


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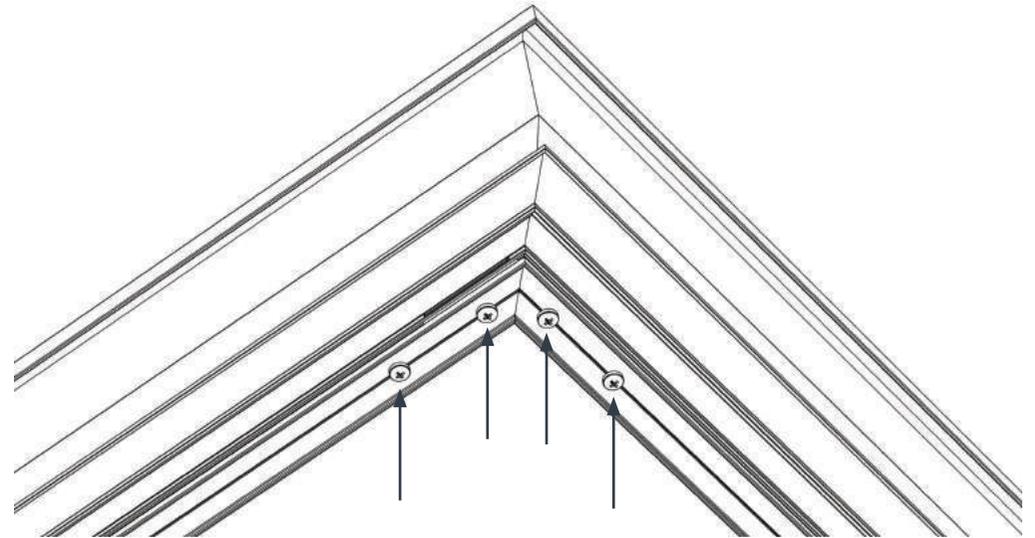
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STEP 3 - UPSTAND ASSEMBLY - CONTINUED

iii) Next fasten the frame section together securely using the screws provided through the top of the upstand, through the 4 pre-formed holes. Repeat for all corners.



iv) Turn the upstand over and repeat the same process for each corner on the underside of the unit. Fixing the screws through each pre-formed hole. Once complete, the frame should be securely fastened together.



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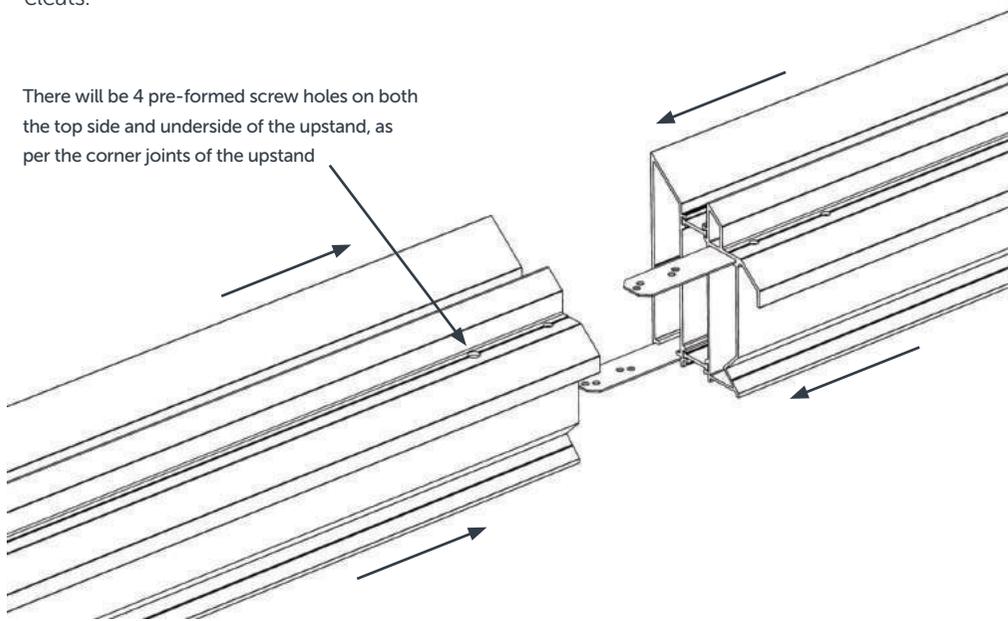
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STEP 3.1 - UPSTAND ASSEMBLY FOR UNITS LONGER THAN 3.2M

i) If your roof lantern exceeds 3.2m in length, the upstand section running the length of the unit will come in 2 parts. You will also receive straight cleats, which are used to join these upstand sections together, end on end.

You will just need to insert the cleats into the slots of the upstand sections as you did with the corner cleats. Following the same process, apply the fixings into the topside of the upstand before turning it over to fix the underside. The below diagram illustrates the use of the straight cleats.

There will be 4 pre-formed screw holes on both the top side and underside of the upstand, as per the corner joints of the upstand



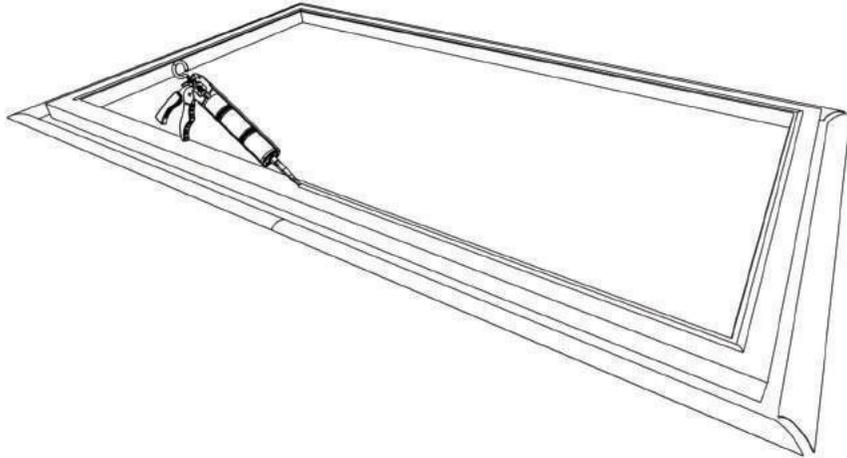
The upstand is now ready to be fixed to your timber kerb.

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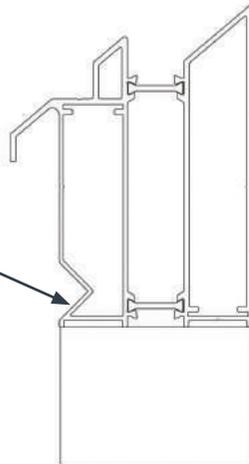
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STEP 4 - FIXING YOUR UPSTAND TO THE TIMBER KERB

i) Apply a thick bead of silicone all the way around the timber kerb about 20mm from the internal edge. Only use a professional quality silicone adhesive sealant such as Dow Corning 791.

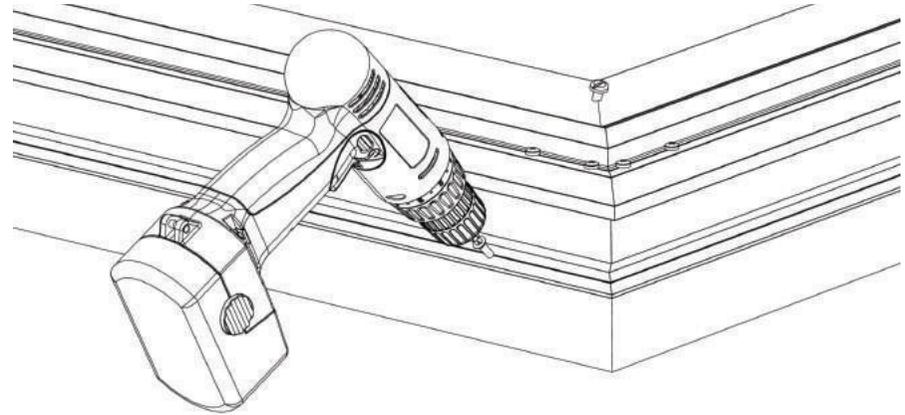


ii) Then carefully place the assembled upstand on to the kerb, ensuring it sits flush with the inner and outer edge of the kerb.

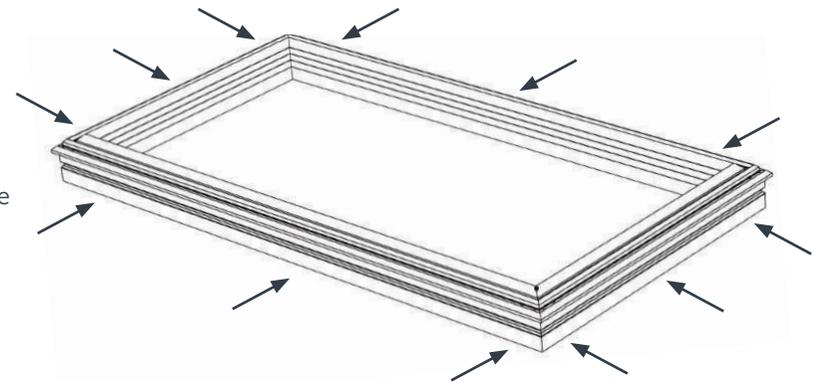


(Section view of your timber kerb with upstand section sitting flush on both sides)

iii) You now need to secure the upstand to the timber kerb by inserting screws into the purpose made groove as shown, about 100mm from each corner, screwing through the upstand into the timber underneath. You will need to predrill your holes into the aluminium frame using a standard metal drill bit.



We recommend 12 screws in total, two at each corner, with a further screw in the middle of each side.



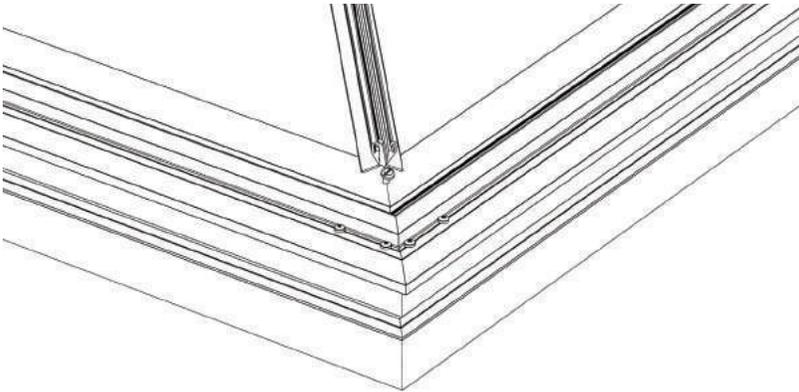
You are now ready to attach the 4 provided hip bodies to the upstand .

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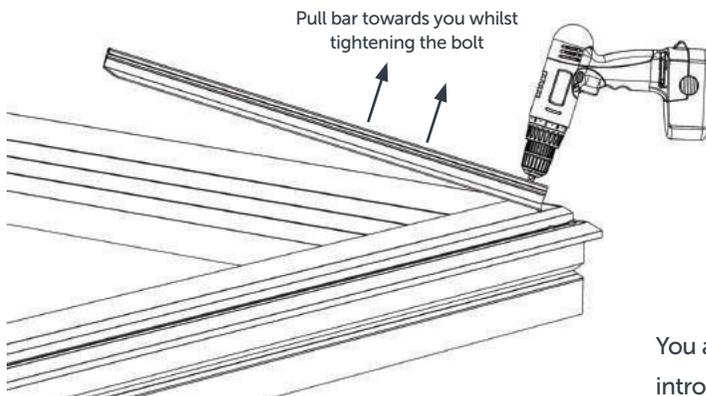
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STEP 5 - FIXING THE HIP BODIES

- i) Bring one of the hip bars into position over the upstand and slide the head of the bolt into the slot of the hip. Please note that the end of the hip bars that have angled corners need to be positioned at the top of the lantern.



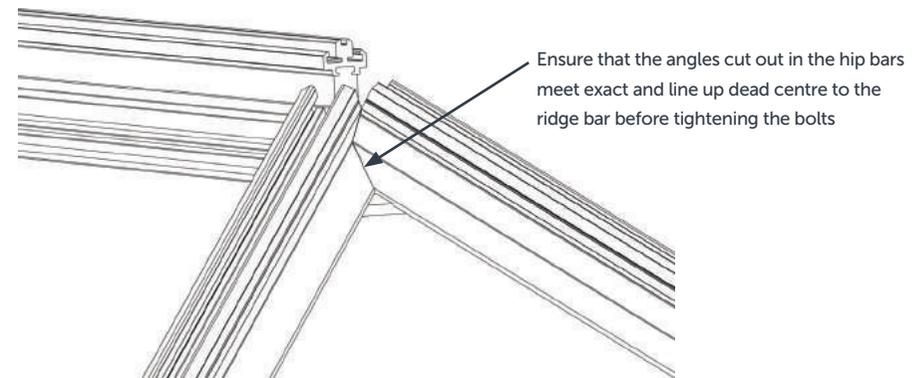
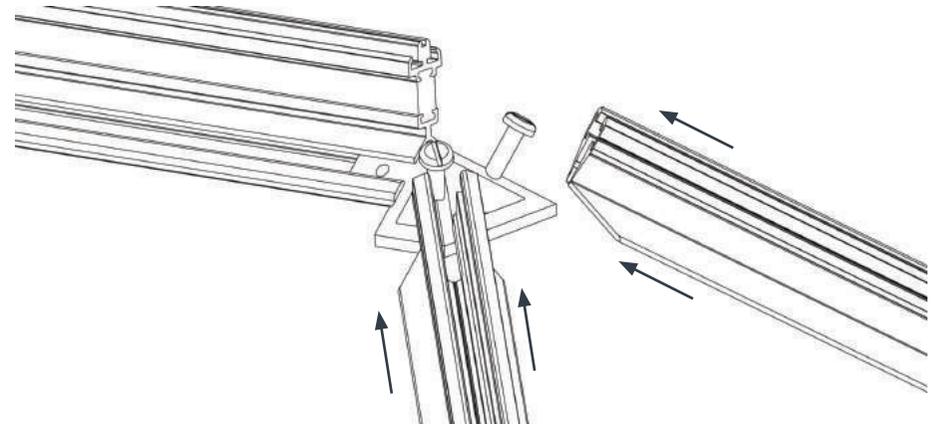
- ii) Now pull the hip body toward you whilst tightening the bolt. This will ensure that the internal nut stays in place whilst tightening. Repeat for all 4 corners.



You are now ready to introduce the ridge body.

STEP 6 - FIXING THE RIDGE BODY

- i) The ridge body has blocks located at either end which already house the bolts that will connect to your hip bars. Slide the slotted end of the hip bars over the bolts in the ridge end block. Position the hip bars so they connect with each other in line with the centre of the ridge bar as shown. Tighten the bolts, then repeat at the other end.



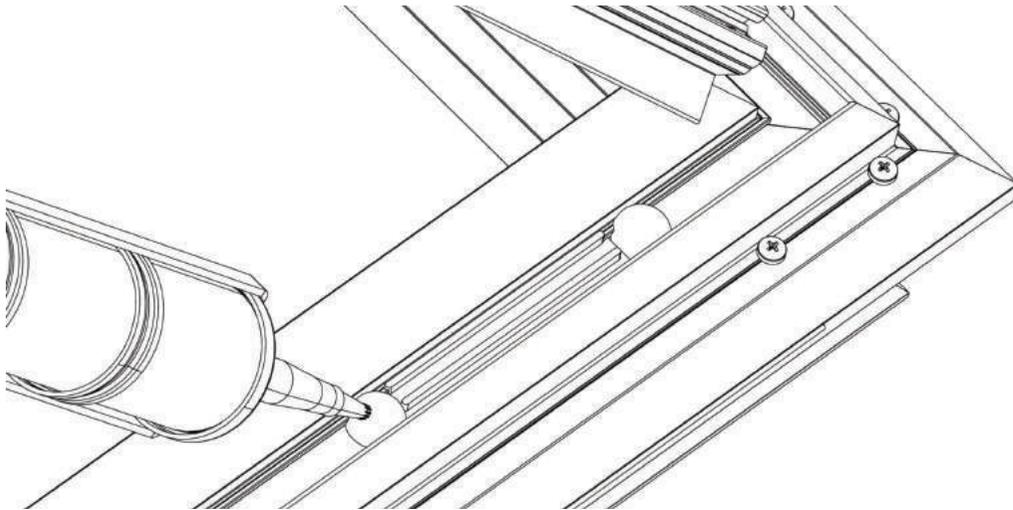
- ii) Now remove the blue protective film from each side of the ridge and hip profiles.

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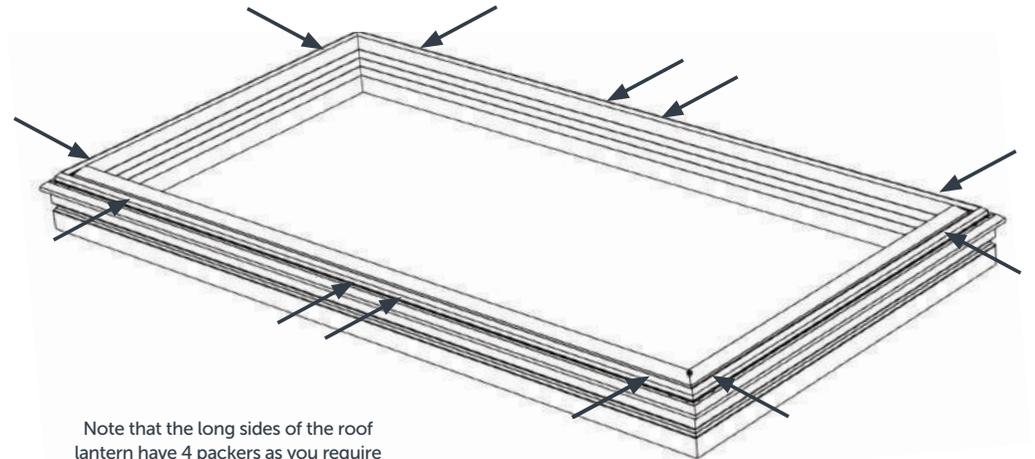
STEP 7 - POSITIONING YOUR GLAZING PACKERS

- i) Fit the packers at each corner of the upstand, into the groove as shown below. Apply a small spot of silicone either side of the packer to stop them from sliding from side to side.



STEP 7.1 - POSITIONING YOUR GLAZING PACKERS - FOR DOUBLE AND TRIPLE GLAZED LANTERNS WITH A WIDTH BELOW 1800MM

- i) You will require 2 packers per pane of glass. These will be provided as part of your kit. Position these as per the image below, remembering to put a spot of silicone on either side to stop them sliding when you position the glass.



Note that the long sides of the roof lantern have 4 packers as you require 2 packers for each pane of glass

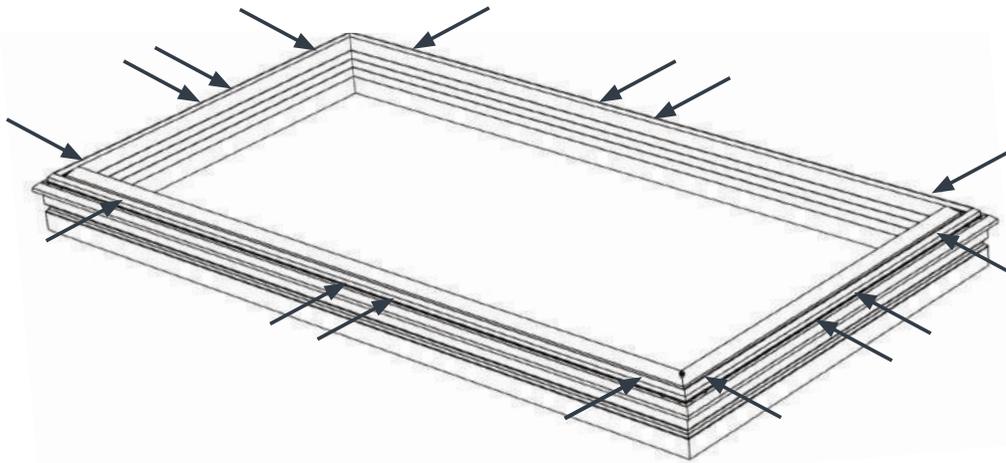
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STEP 7.2 - POSITIONING YOUR GLAZING PACKERS – FOR TRIPLE GLAZED LANTERNS WITH A WIDTH BETWEEN 1800MM-2000MM

i) If your lantern is triple glazed and the width measures between 1800mm and 2000mm, the end 'triangular' panes of glass on your lantern will also have a split down the centre.

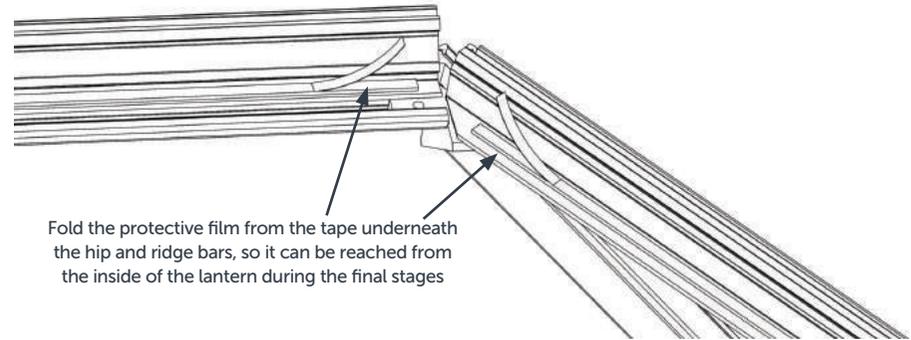
In this scenario, you will also need to use 2 packers per pane of glass across the width of the lantern on both sides, as the below arrows indicate on the upstand diagram.



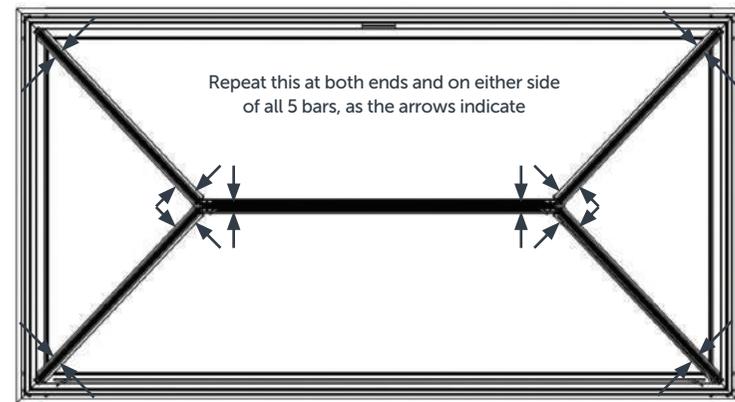
The next stage is to insert the glass sections. The frame is designed so these will fit easily and neatly into place, but care needs to be taken as these are the heaviest components of your roof lantern.

STEP 8 - PEELING BACK THE PROTECTIVE FILM

i) Before you introduce the glass panels to the unit, peel back the first approx. 5cm of the green protective film from the glazing tape that has been pre-applied to your ridge and hip bars. Do this at both ends of the hips and ridge bar as shown. Ensure that this excess film will be accessible from the inside of the roof lantern when the glass is positioned.



Fold the protective film from the tape underneath the hip and ridge bars, so it can be reached from the inside of the lantern during the final stages



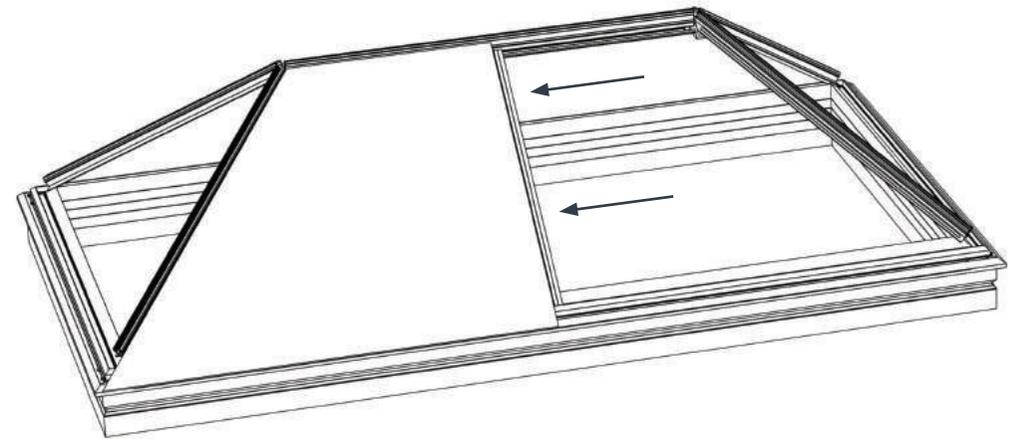
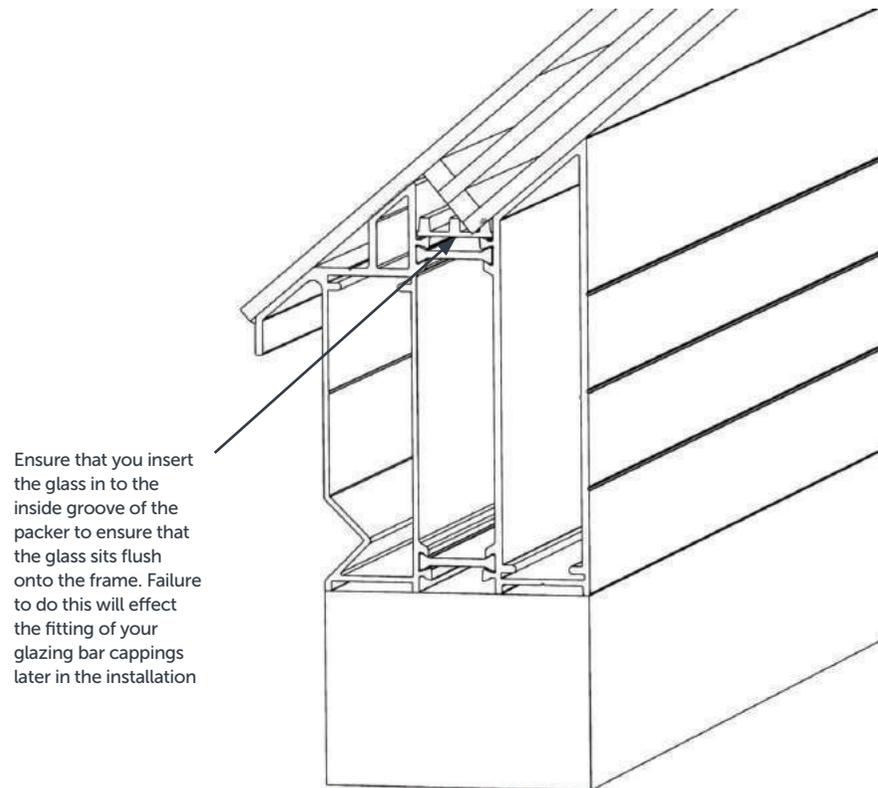
Repeat this at both ends and on either side of all 5 bars, as the arrows indicate

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STEP 9 - INTRODUCE THE FIRST PANEL OF GLASS ON THE LONGER SIDE OF THE LANTERN

i) Position the glass, sitting it into the inside groove of the packer, making sure it is pushed up against the hip bar on the same side as much as possible.



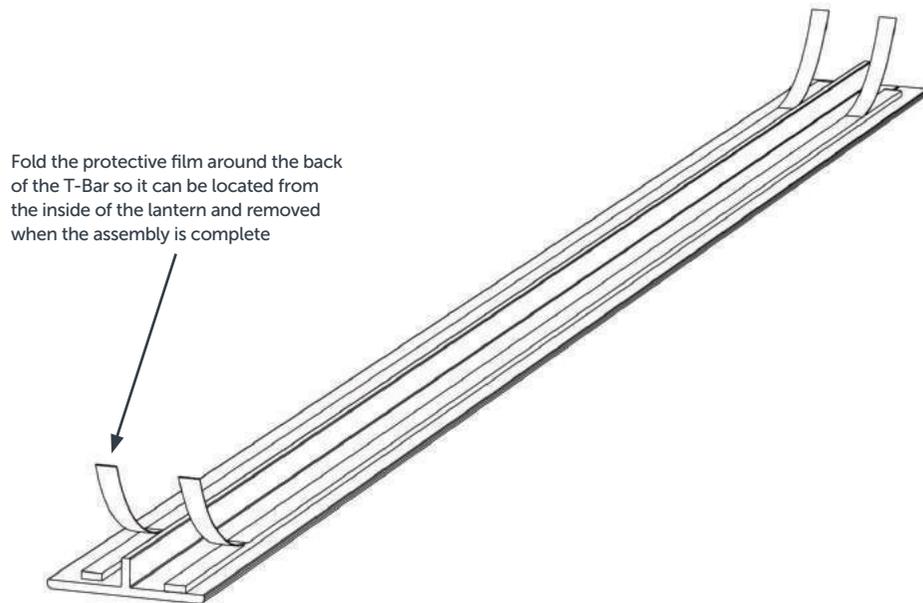
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STEP 10 - PREPARING THE INSIDE T-BAR – FOR LANTERNS THAT ONLY HAVE A SPLIT ON THE LONGER PANELS OF GLASS

i) You will have a minimum of 4 T-Bars in total, in 2 different sizes. The 2 shorter T-Bars are what you require at this stage.

The T-bars will be readily prepared with glazing tape, on both sides of the central spine. Before positioning the T-bar, ensure that approximately 5cm of the green protective film has been peeled back from both sides of the spine. Fold this excess film around the back of the bar, so it can be reached from the inside of the lantern when the construction is complete.

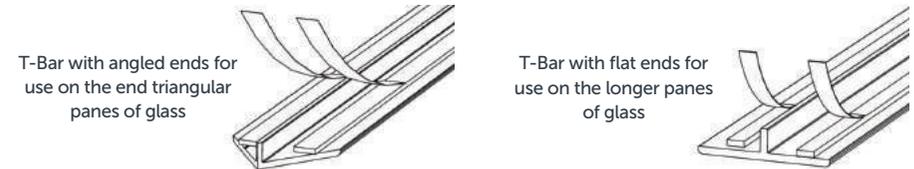


You are now ready to position your T-Bar

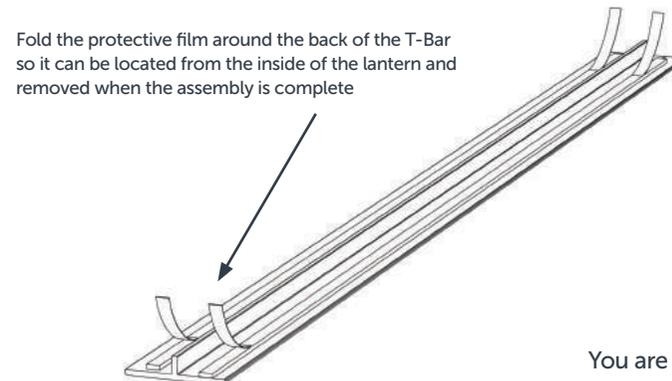
STEP 10.1 - PREPARING THE INSIDE T-BAR– FOR TRIPLE GLAZED LANTERNS WITH A WIDTH BETWEEN 1800MM-2000MM WITH SPLIT TRIANGULAR PANELS OF GLASS

i) You will have a minimum of 8 T-Bars in total, in 2 different sizes. The 4 shorter T-Bars are what you require at this stage.

Out of the 4 shorter bars, 2 will be prepared flat at both ends, which are designed for the longer panes of glass. The other 2 shorter bars will have an angled cut at one end, designed for the split in the triangular end panes of glass.



ii) The T-bars will be readily prepared with glazing tape, on both sides of the central spine. Before positioning the T-bars, ensure that approximately 5cm of the green protective film has been peeled back from both sides of the spine. Fold this excess film around the back of the bar, so it can be reached from the inside of the lantern when the construction is complete.



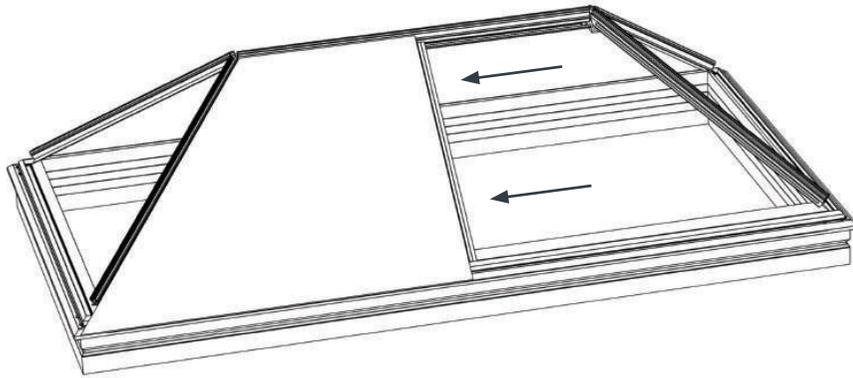
You are now ready to position your T-Bar

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STEP 11 - INTRODUCING THE INSIDE T-BAR

i) Position the T-Bar onto the frame to the side of the glass. This will rest flush on the ridge bar at the top and on the angled face of the upstand at the bottom. Carefully feed the bar behind your set panel of glass, but do not allow the glass to touch the central spine of your T-Bar.

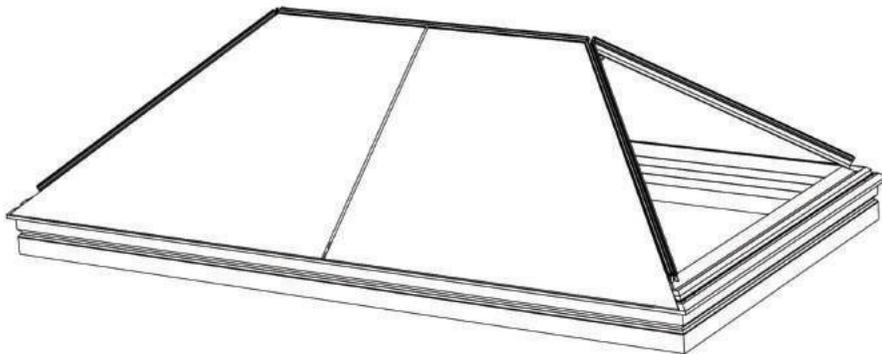


If you also have a split in the triangular end pane of glazing, repeat the same process, ensuring that you use the T-bars with the angled cut at one end. The angled end is to be fitted into the area where the 2 hip bars meet the T-bars.

If the triangular end pane of glass does not have a split, proceed to glaze the unit across the width, not forgetting to insert the glass into the inside groove of the packers.

When you are confident that the glass is positioned correctly, you are ready to apply silicone as per the next step.

ii) You are now ready to drop in the next panel of glass onto the inside groove of the packers, gently positioning the glass into the frame. Lastly, ensure the T-Bar is positioned exactly in the centre between the 2 panels of glass.



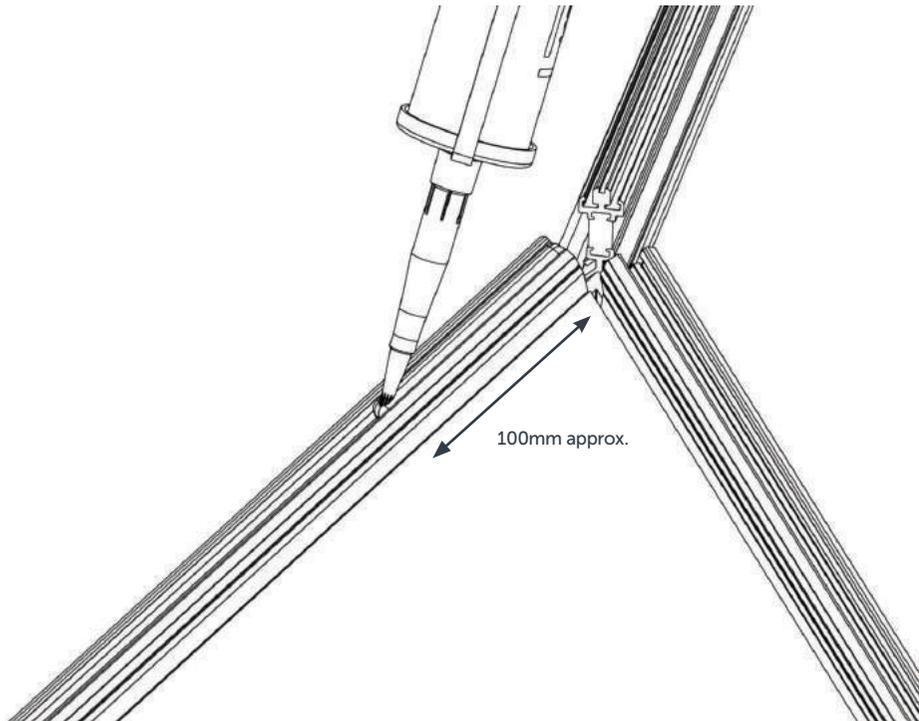
Follow this same principal for the other side of the lantern.

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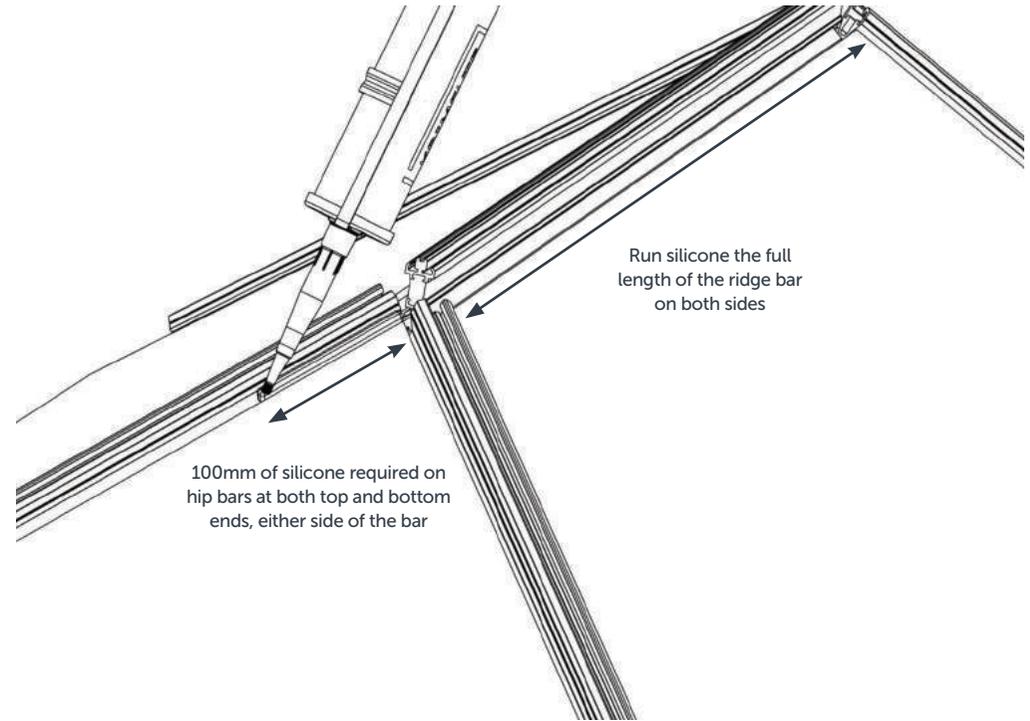
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STEP 12 - APPLYING SILICONE

i) Ensuring that you use the provided Dow Corning 791 silicone, apply a generous amount of silicone into the central groove at the top and bottom of each of the hip profiles, running about 100mm from each end of the bars.



ii) Next run silicone between all the glass panels and frames, on either side of the hip and ridge bars. Only 100mm of silicone is required running from each end of the hip bars. For the ridge bar, run silicone the full length on both sides.

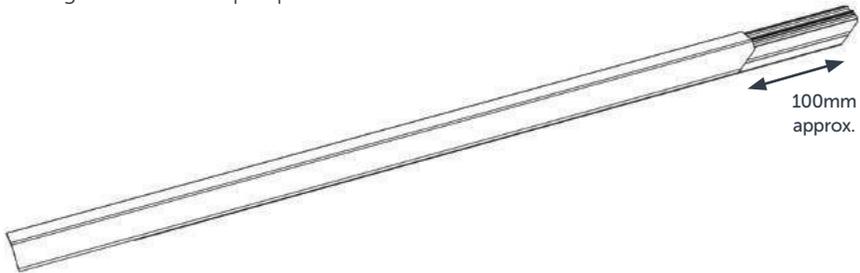


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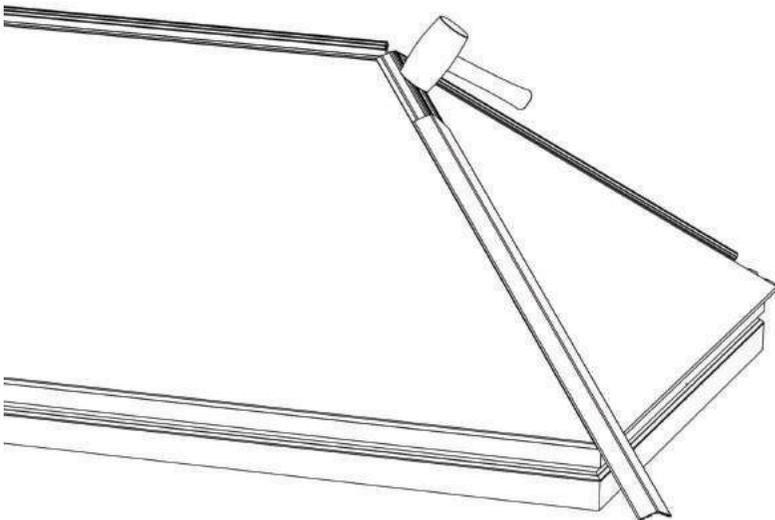
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STEP 13 - INTRODUCING THE HIP CARRIERS AND HIP TOP CAPS

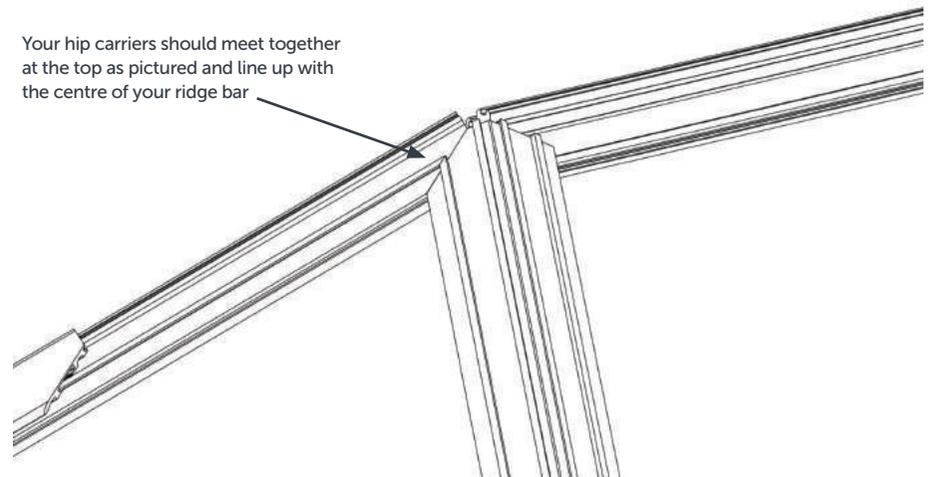
i) Prepare your hip carriers and aluminium top caps by sliding them together with the angled part of both pieces being positioned at the same end. These pieces are angled where they will meet at the ridge bar when applied. Stagger the hip carrier so that 100mm is sticking out at the top, as you cannot slide the hip caps up into position until the ridge carrier and top cap is fitted.



ii) Gently tap the hip carriers and top caps onto the hip bars with your rubber mallet.



iii) Slide the hip carriers up the hip bar, ensuring that the angled cut-outs line up perfectly and are positioned dead centre to the ridge bar.



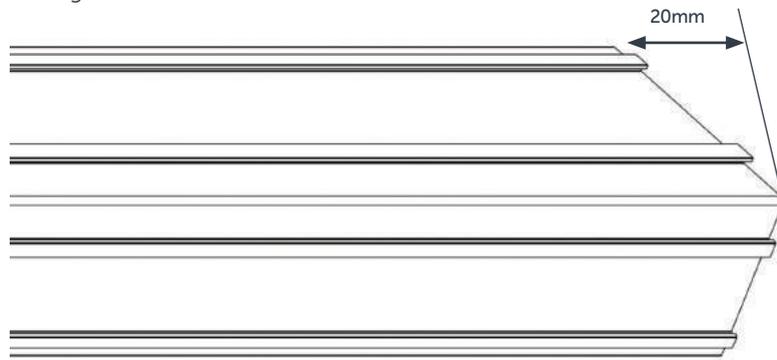
iv) Repeat this process on the other end of the roof lantern.

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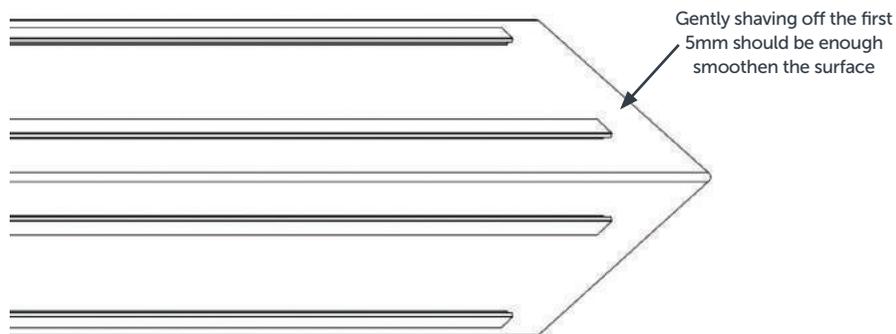
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STEP 14 - PREPARING YOUR PLASTIC RIDGE CARRIER

- i) Prepare your ridge carrier by cutting off the corners with a hacksaw, set in from the ends of your ridge carrier by approx. 20mm as the diagram shows. Do this at both ends, making 4 small cuts.



- ii) The ends of the ridge carrier might be slightly rough or frayed after doing this, which will effect the ease of sliding your ridge top cap into place during the next step. If this is the case, we advise that you gently shave the ends with a stanley knife, to create a smoother surface.

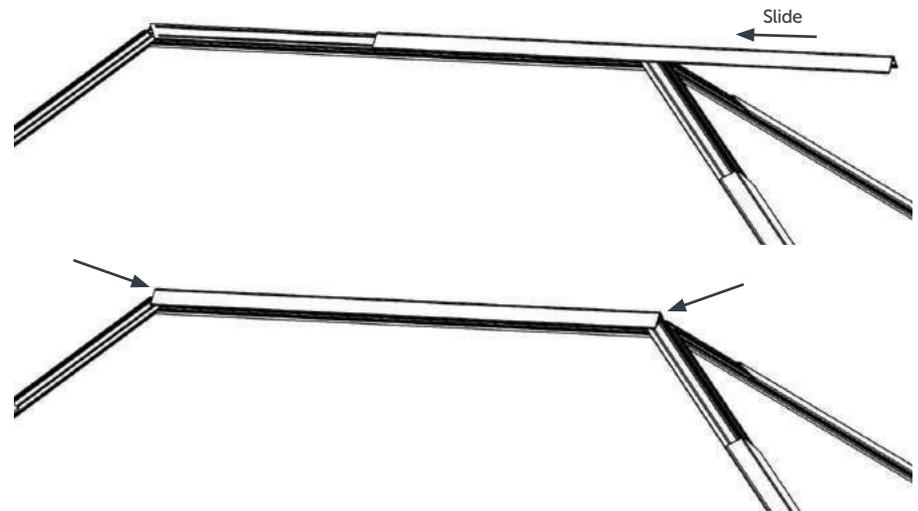


STEP 15 - INTRODUCING THE RIDGE CARRIER AND RIDGE TOP CAP

- i) When prepared, bring in your ridge carrier, gently tapping it into place carefully by hand or with your rubber mallet. Ensure it is centred perfectly by checking both ends.



- ii) Then slide your ridge top cap in from one end onto the ridge carrier, again, ensuring that it is perfectly centred by checking both ends as shown.

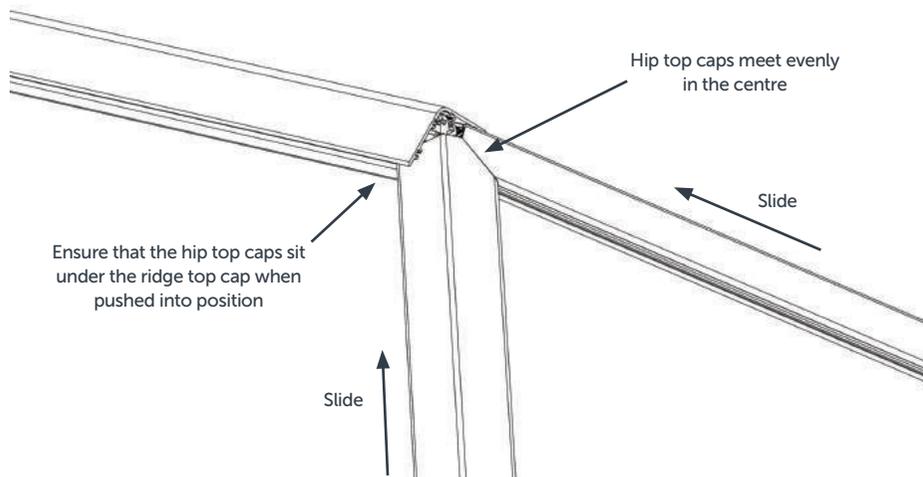


ROOF MAKER

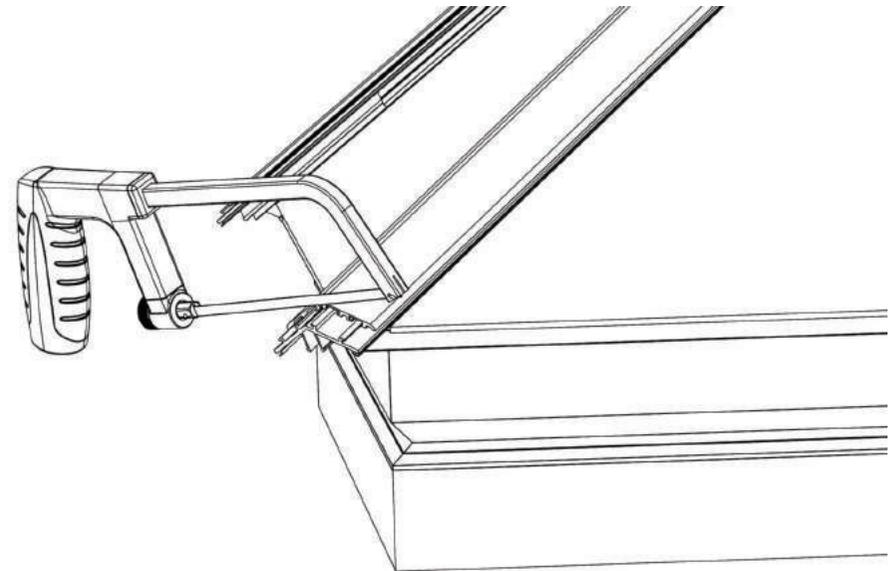
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STEP 16 - POSITION THE HIP TOP CAPS

i) You can now slide the hip top caps into position so they meet evenly at the top centre, as you did with the hip carriers. You must ensure that the hips sit underneath the ridge top cap as shown. Repeat on the other side of the roof lantern.



ii) If the plastic hip carrier is protruding from the bottom of the hip bars, use a hacksaw to carefully remove the excess, being careful not to damage the aluminium hip caps. Repeat at each corner if necessary.



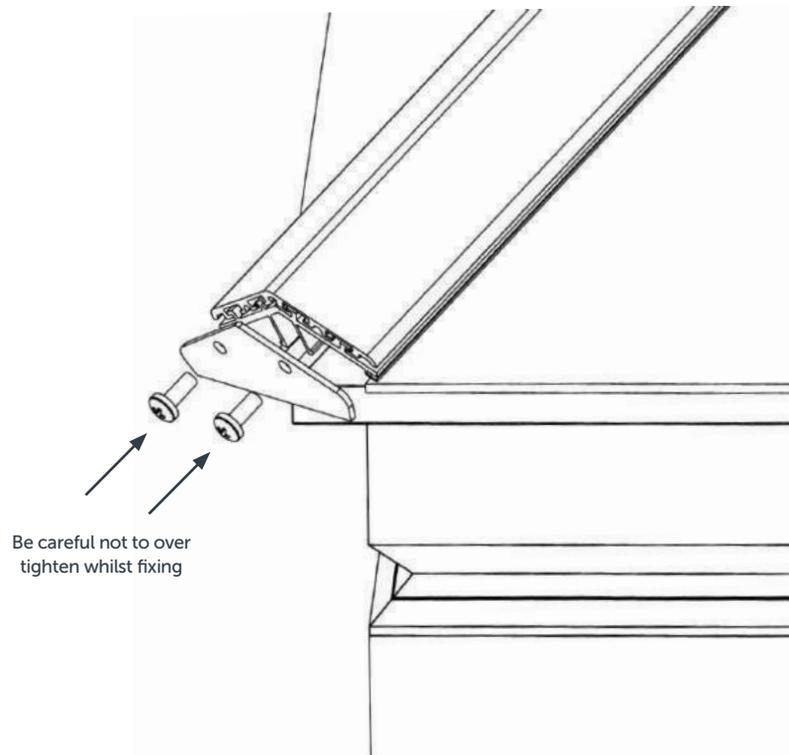
Next, you are ready to fix the 4 provided hip end caps to the bottom of your hip bars.

ROOF MAKER

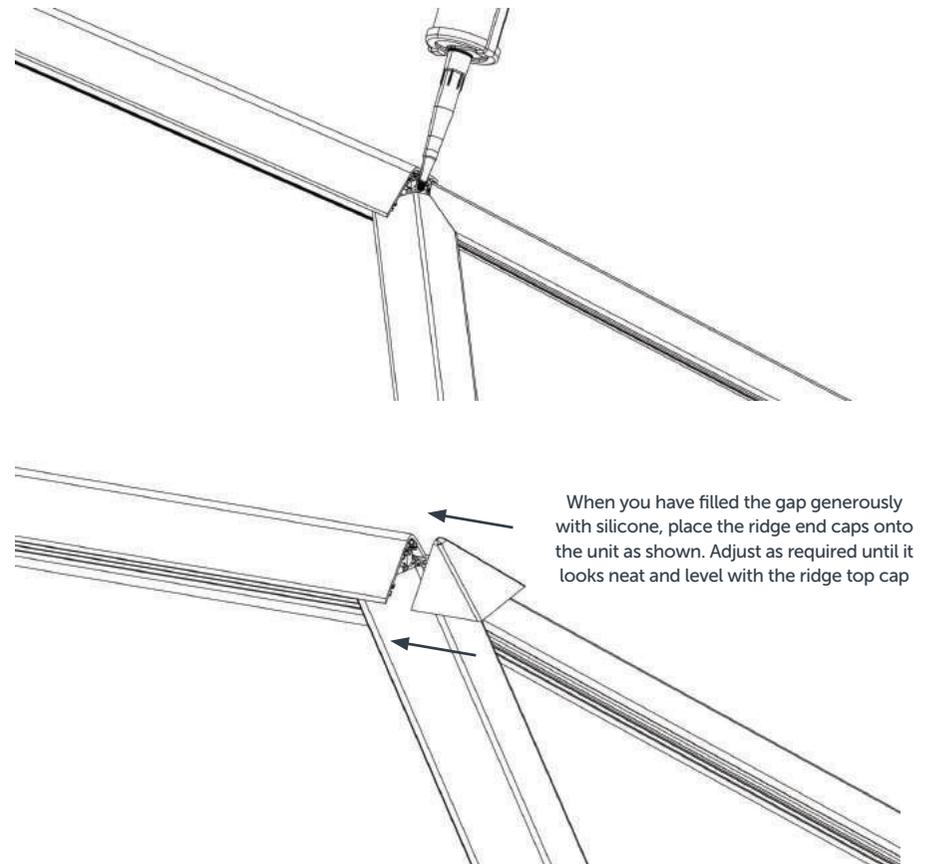
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STEP 17 - FITTING THE HIP AND RIDGE END CAPS

i) Using a screw gun set at a low gear, attach the end caps as shown, being careful not to overtighten them. Repeat at all 4 corners of the lantern.



ii) It is now time to fit the two ridge end caps. Fill the space between the end of the ridge cover and the hip caps generously with silicone as shown and apply the two end caps.



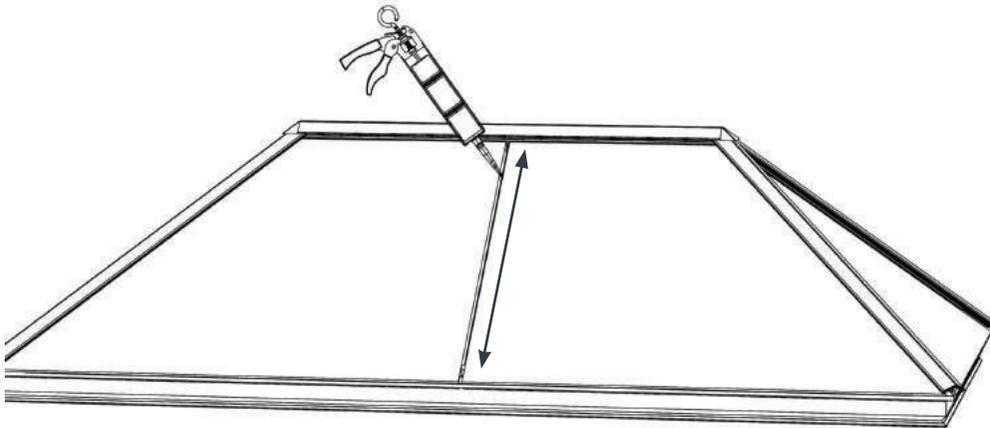
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STEP 18 - FIXING OF THE OUTER T-BAR SECTIONS

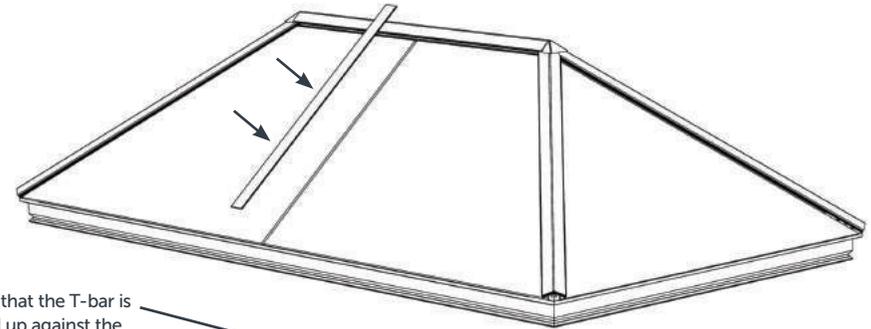
Now you are ready to complete the split in the glass, by adding the longer, outer T-Bars.

i) Generously fill the gap between the 2 glazing panels as shown with the silicone provided.

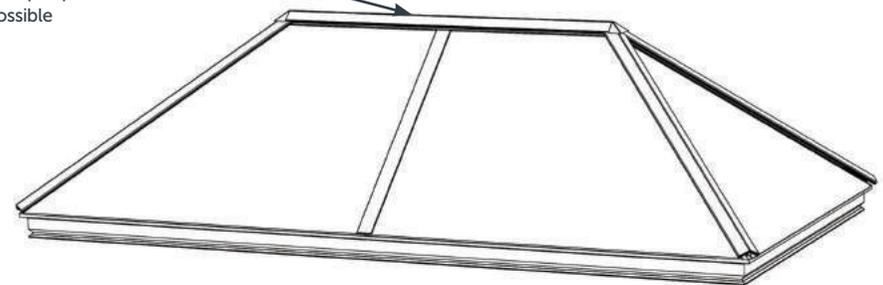


ii) Take one of the longer outer T-bars and remove the entire green protective coverings off the glazing tape, both sides of the central spine. The end of the T-Bar that has the central spine notched out will be positioned at the bottom. Push the T-bar into the silicon to complete the seal, ensuring the top of the T-bar is butted up tightly to the ridge top cap. Press down firmly to ensure the glazing tape sticks to the surface of the glass all the way down.

If the triangle end pane of glass has a split also, ensure that you use the outer sections of T-bar that have a triangle section cut out of the top end.



Ensure that the T-bar is pushed up against the ridge top cap as much as possible



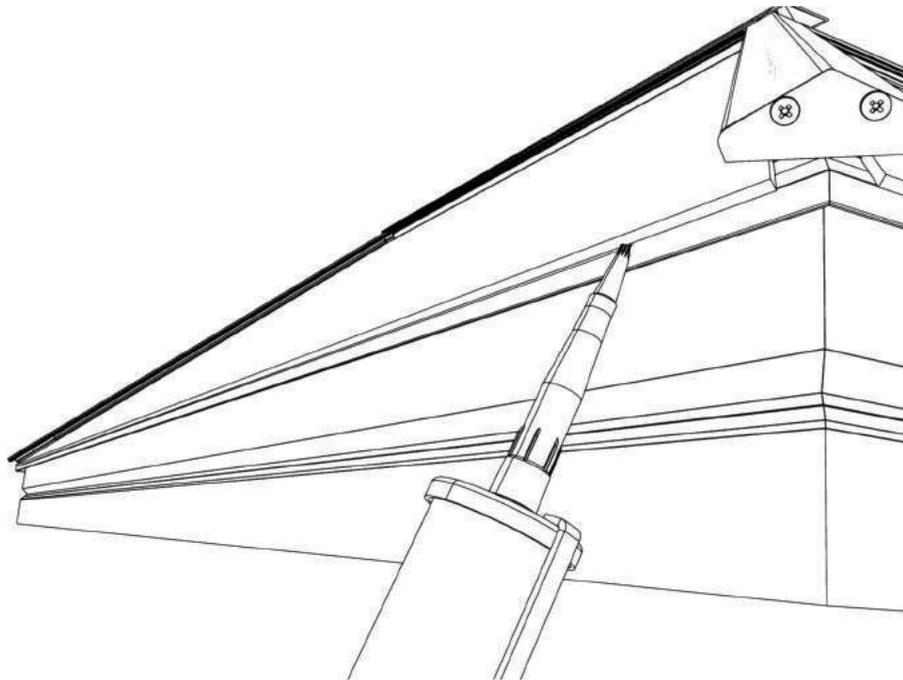
Repeat this on the other side of the lantern. For split triangle end panels (if applicable), ensure that you use the outer T-Bars that have the angled ends and ensure that they are pushed up tight against the hip bars.

ROOF MAKER

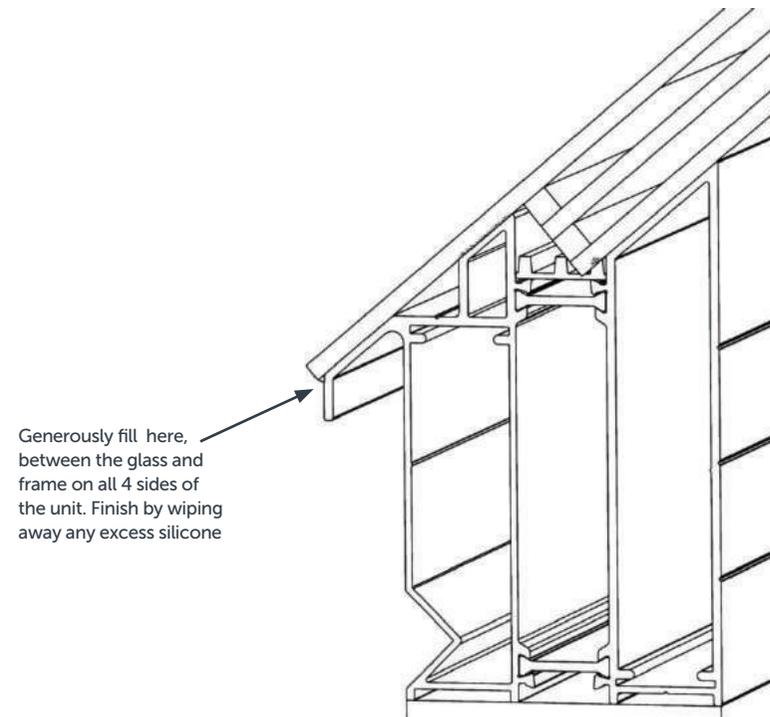
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STEP 19 - FINAL STAGE OF ASSEMBLY – SEALING THE UNDERSIDE OF THE GLASS PANELS

i) Your Slimline® roof lantern assembly is now nearly complete. All that remains is to seal the underside of the bottom edge of the glass with silicone, ensuring that the bottom edge of the glass is sealed to the drip lip of the upstand. Repeat this on all 4 sides. Wipe away any excess silicone with a damp cloth.



ii) From the inside of the lantern, gently remove all of the protective film from the glazing tape on the hip and ridge bars.



The assembly of your Slimline® lantern is now complete! You are now ready to flash the upstand with your chosen roof membrane.

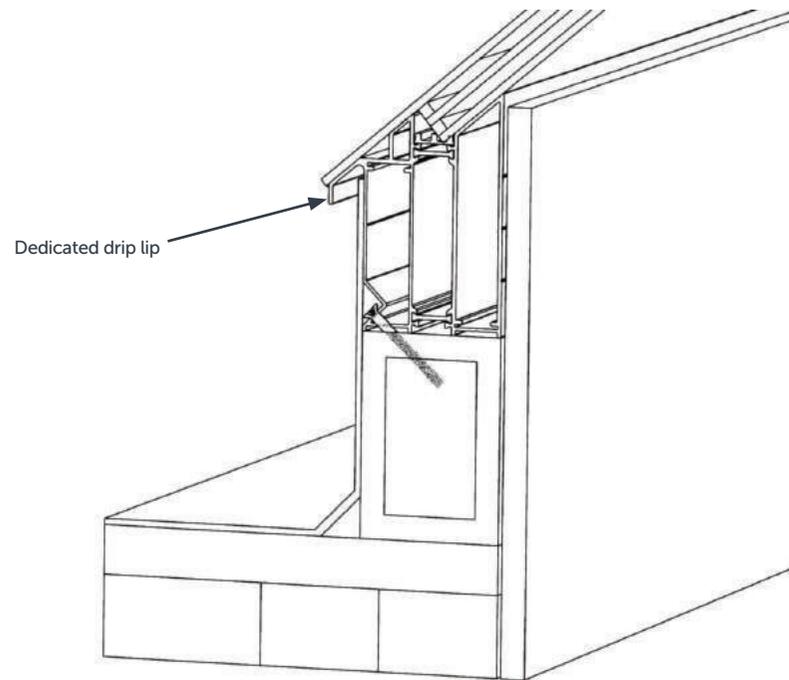
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STEP 20.1 - FLASHING GUIDELINES - (sheet membrane)

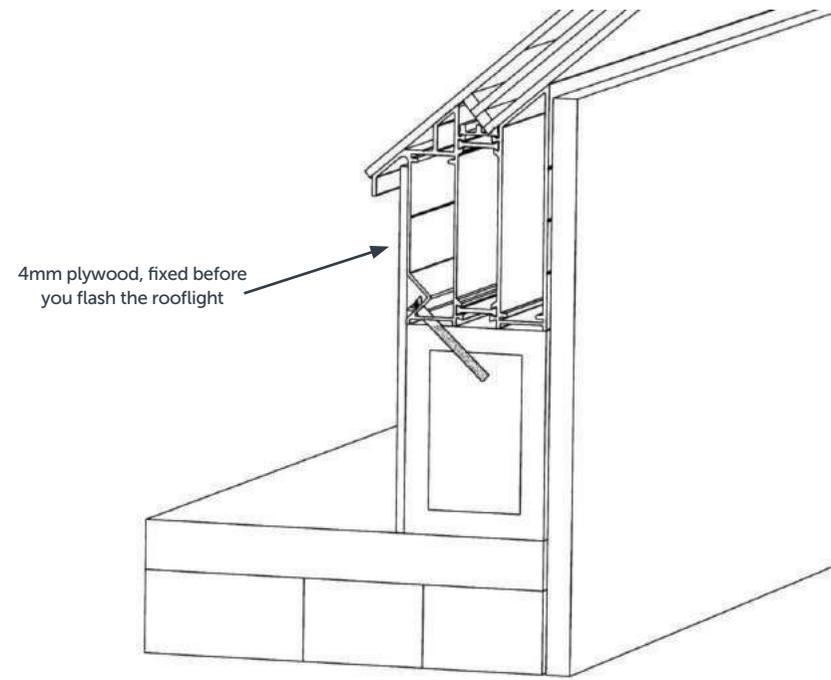
i) Ensure the roof membrane is tucked right under the dedicated drip lip that sits just under the glass. This is important as it acts as the final weathering stage to avoid water ingress in this area. Take a look at the diagram below which illustrates this detail.

If using a torch on felt, we recommend that you cut your membrane to the correct size, fold back and pre-heat with your heat gun. Only then should you apply it to the side of the unit. This will prevent you from damaging the unit by applying heat directly.



STEP 20.2 - FLASHING GUIDELINES - (GRP membrane)

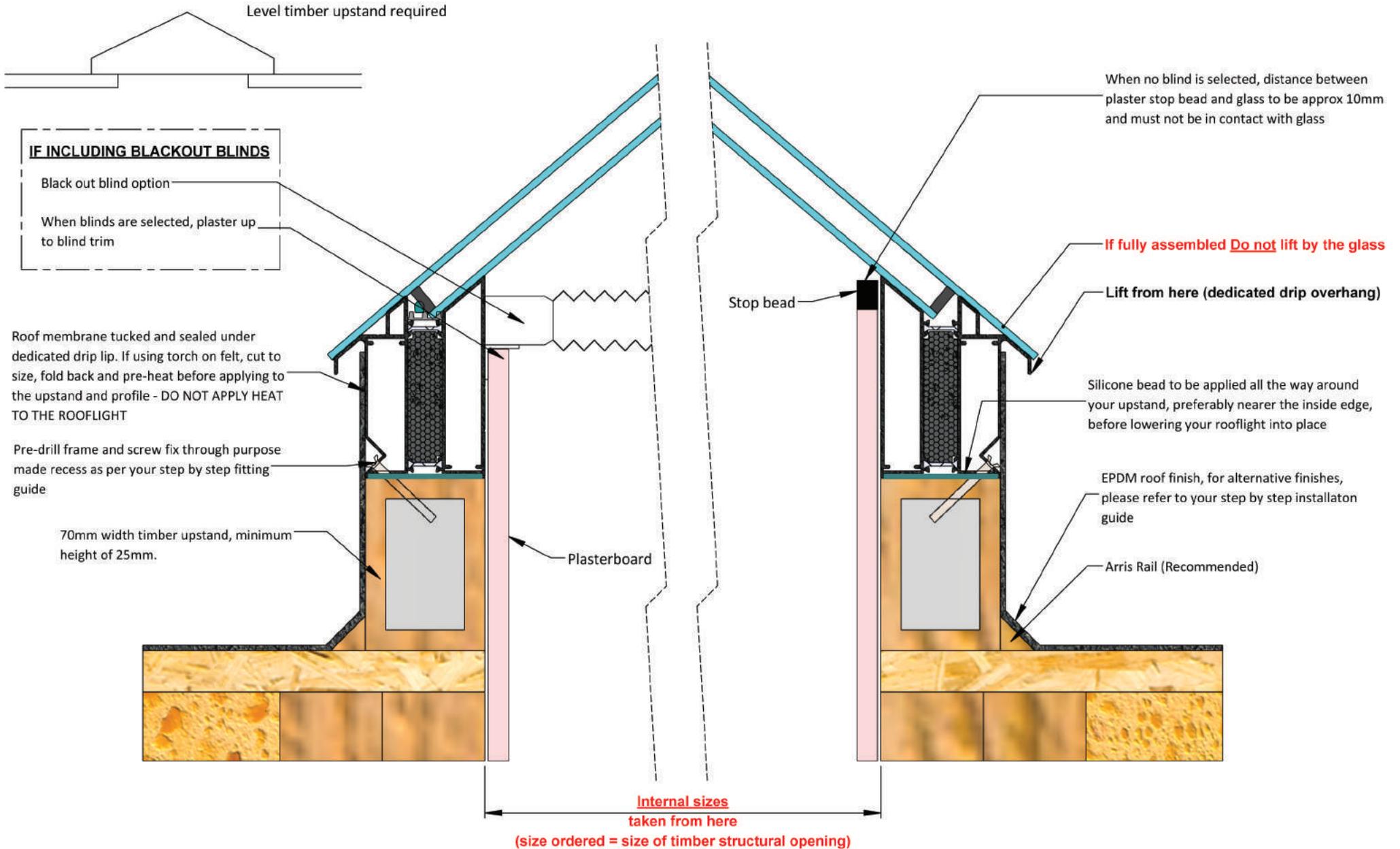
i) If using GRP to finish the roof, you should silicone bond a 4mm plywood border around the upstand and kerb. Screw fix this into the timber kerb if you wish to make it more secure. This will provide a more suitable surface for the GRP to adhere to. Ensure that this goes right up underneath the drip lip as the below image shows. Also, ensure that the GRP layer is applied right up to and underneath the drip lip.



Your roof lantern assembly is now finished! For internal plaster finishing details please refer to the cross-section fitting guide, located at the end of this guide.

DOUBLE GLAZED LANTERN - CROSS SECTION FITTING GUIDE

The below cross section diagram illustrates how you need to finish your plastering, for double glazed units both with and without blackout blinds.



TRIPLE GLAZED LANTERN - CROSS SECTION FITTING GUIDE

The below cross section diagram illustrates how you need to finish your internal plastering, for triple glazed units both with and without blackout blinds.

