ROOF MAKER

WORLD CLASS ROOFLIGHTS

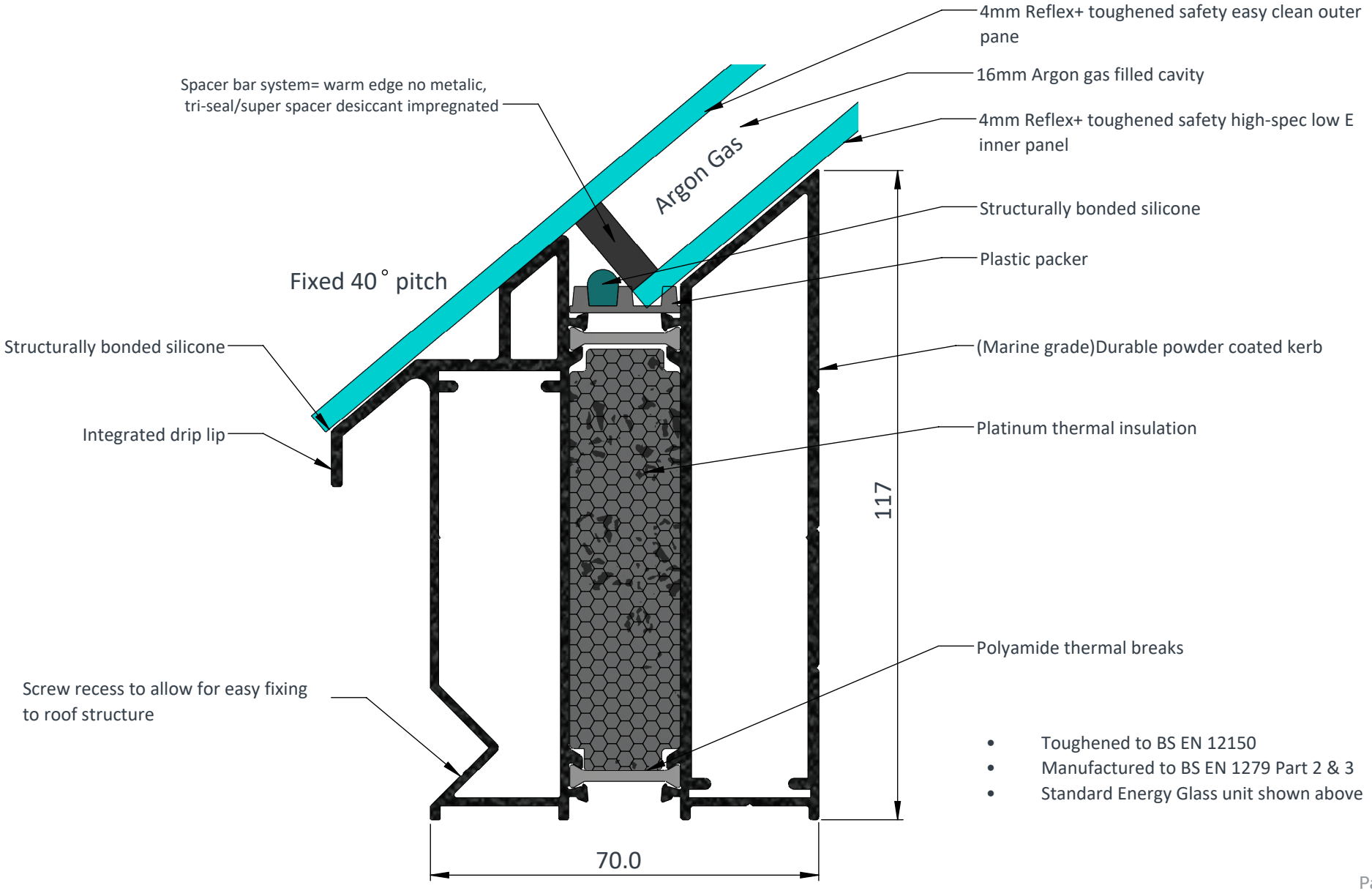
PRODUCT SPECIFCATION & INSTALLATION GUIDE

FULLY ASSEMBLED SLIMLINE® LANTERN

IG-029 - Slimline® Spec Install Fully Assembled - Updated 14/07/2021 - REV002

DOUBLE GLAZED SLIMLINE® LANTERN
STANDARD PRODUCT SPECIFICATION

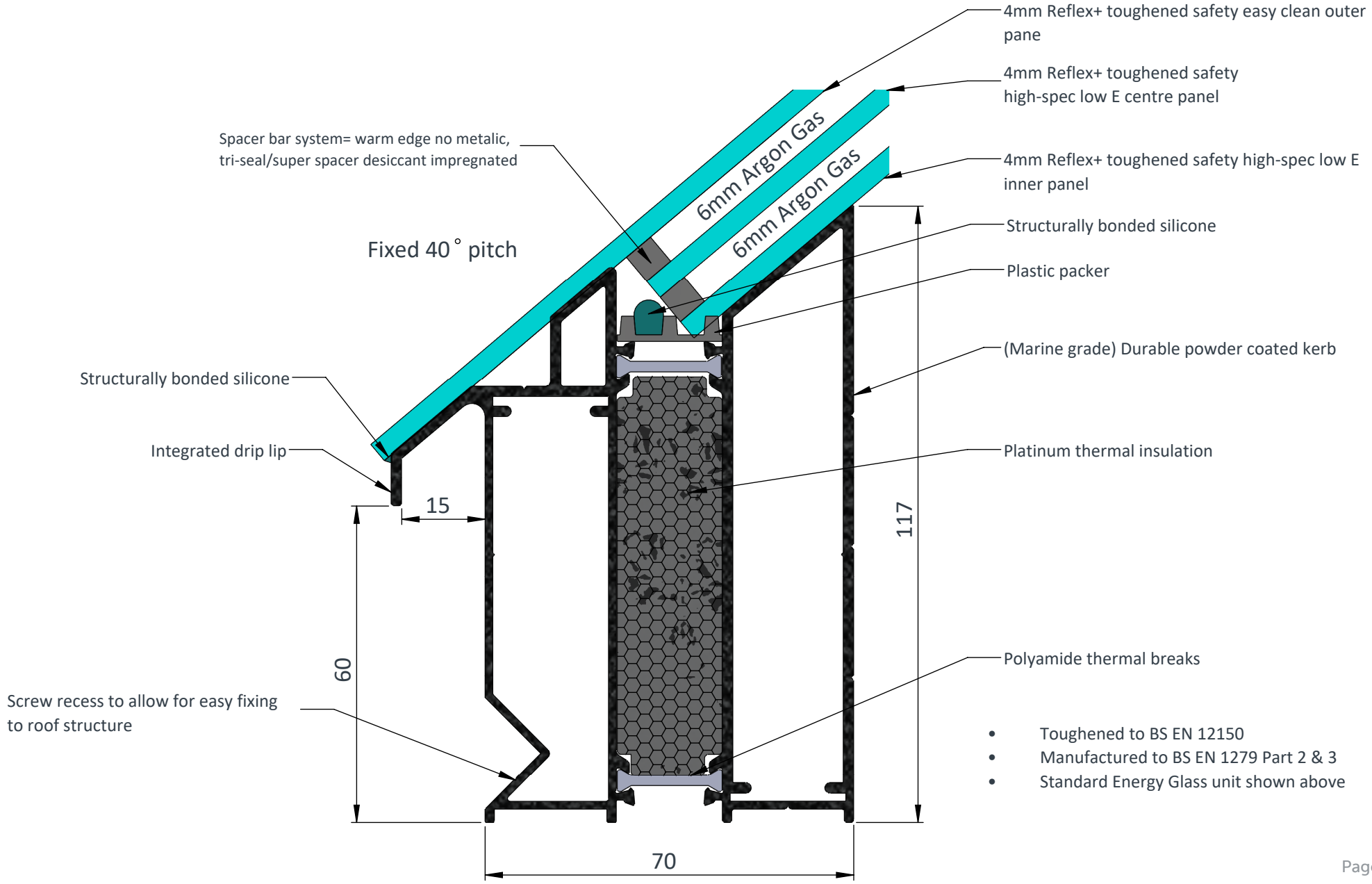
Call us: 0116 269 6297
Mon-Fri 9-5pm



- Toughened to BS EN 12150
- Manufactured to BS EN 1279 Part 2 & 3
- Standard Energy Glass unit shown above

TRIPLE GLAZED SLIMLINE® LANTERN
STANDARD PRODUCT SPECIFICATION

Call us: 0116 269 6297
Mon-Fri 9-5pm



- Toughened to BS EN 12150
- Manufactured to BS EN 1279 Part 2 & 3
- Standard Energy Glass unit shown above

FULLY ASSEMBLED SLIMLINE® LANTERN: INSTALLATION GUIDE

INTRODUCTION TO THE GUIDE

This guide covers the installation of a Slimline® roof lantern, where you have opted to receive it fully assembled.

If your Slimline® roof lantern also features opening vents, the wiring guide for both rocker switch controlled and climate controlled with rain sensor options can be found on pages 8-11.

PLEASE NOTE: For roof lanterns that feature blackout blinds, there is a blackout blind wiring guide available which we can provide, or is available to download in the technical section on our website. This also outlines the additional components that you will receive, such as the remote control and power pack.

IMPORTANT: For lanterns that have electronic opening vents and blackout blinds

Your electrician will need to prepare the upstand frame before you fix the lantern to the timber kerb. This involves drilling holes and inserting grommets so that the vent motor cable can be ran through the upstand frame and in to the property. This will need to be done to ensure the blackout blind can travel unobstructed, back and forth along the length of the rooflight. A cable location guide, which features instructions on how to prepare the upstand and what you will require, can be found on pages 12-16.

ON DELIVERY, YOU WILL RECEIVE;

- Your fully assembled Slimline® Roof Lantern

**If you have a manual opening vent, you will also receive a chrome winding pole.*

If you have a rocker switch controlled vent, you will also receive a rocker switch.

If you have a vent with climate control and rain sensor, you will also receive the wall mounted control unit and rain sensor.

IN ADDITION, YOU WILL NEED;

- Silicone sealant (recommended Dow Corning 791) for fixing the upstand frame to the Timber kerb
- Timber screws for fixing the upstand frame to the timber kerb *(min. 50mm length)*
- Drill with hss drill bit to pre-drill the aluminium upstand before screw fixing to timber kerb

Please adhere to the relevant Health and Safety guidelines when moving heavy objects and working at height. The weights provided below are for your guidance only.

SLIMLINE® ROOF LANTERN		
Size (mm)	Double glazed Weight (KG)	Triple glazed Weight (KG)
600 x 400	20	24
1000 x 700	42	53
1500 x 1000	76	99
2000 x 1000	97	128
2500 x 1000	118	156
3000 x 1000	139	185
3500 x 1000	160	214
4000 x 1000	181	243
5000 x 1000	223	300
1500 x 1200	87	115
2000 x 1200	112	149
2500 x 1200	136	182
6000 x 1200	390	538
3000 x 1500	193	262
3500 x 1500	222	303
4000 x 1600	266	364
5000 x 1600	328	451
3000 x 2000	247	339
4000 x 2000	322	445

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

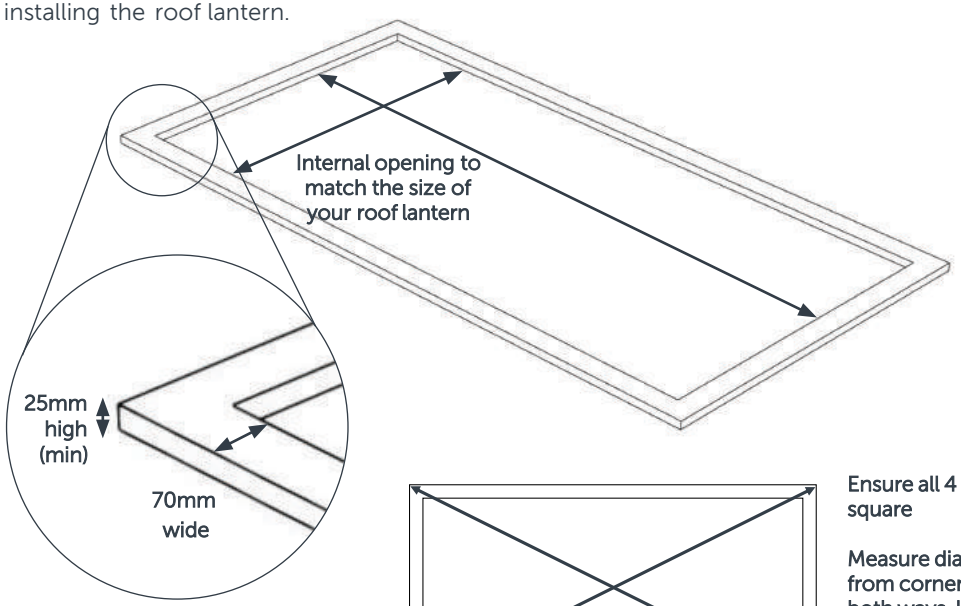
STEP 1:

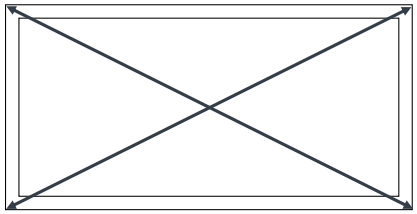
PREPARE THE TIMBER KERB

Before you begin the installation 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 frame. 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 diagonally from corner to corner before installing the roof lantern.





Ensure all 4 corners are square

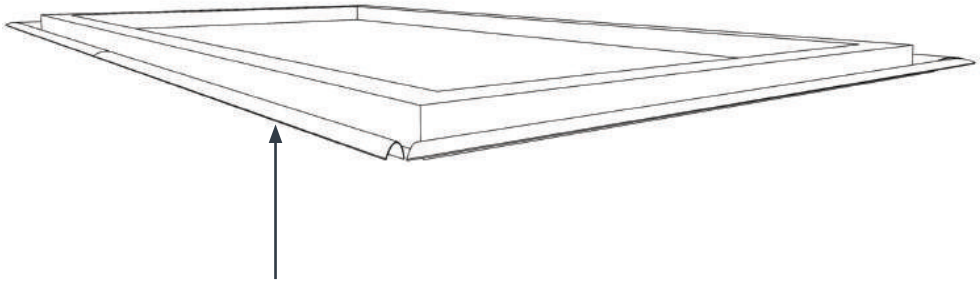
Measure diagonally from corner to corner both ways. If both dimensions match, your timber kerb should be square.

STEP 2:

PREPARE THE ROOF MEMBRANE

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.



Roof membrane folded back out of the way, leaving the timber upstand exposed for the installation of the roof lantern.

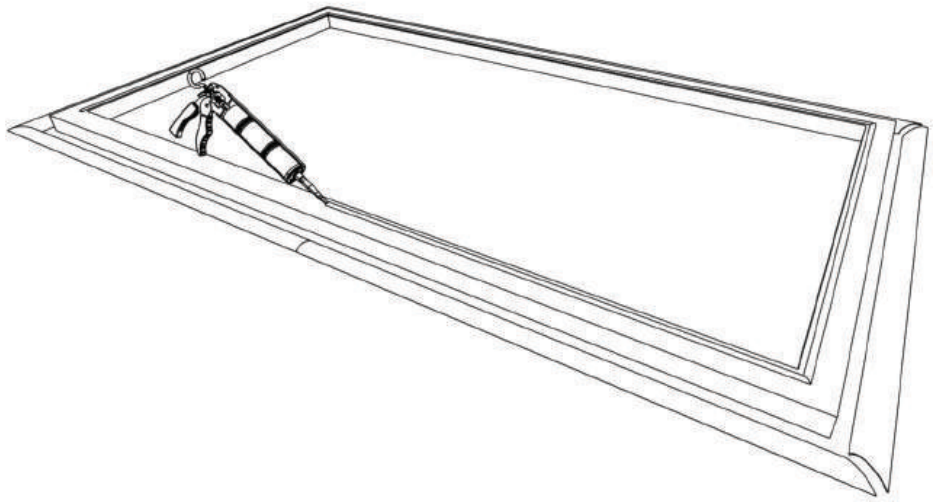
You are now ready to install your roof lantern.

STEP 3:

APPLY SILICONE TO THE TOP SURFACE OF THE TIMBER KERB

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.

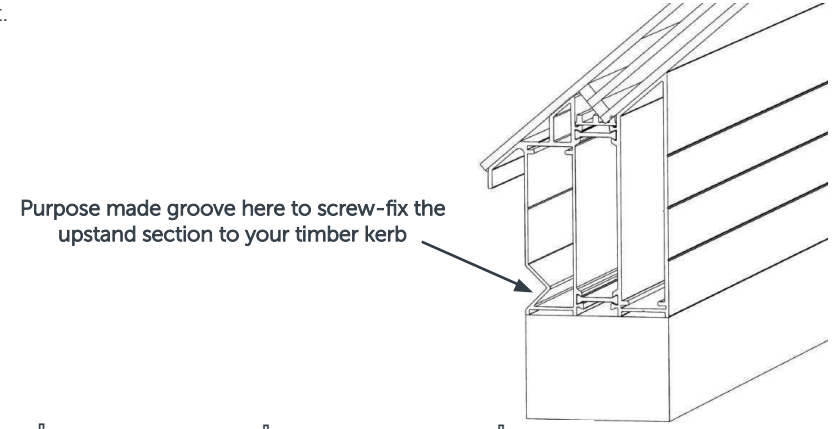
Following this, place the lantern on to the timber kerb and ensure it sits flush both externally and internally.

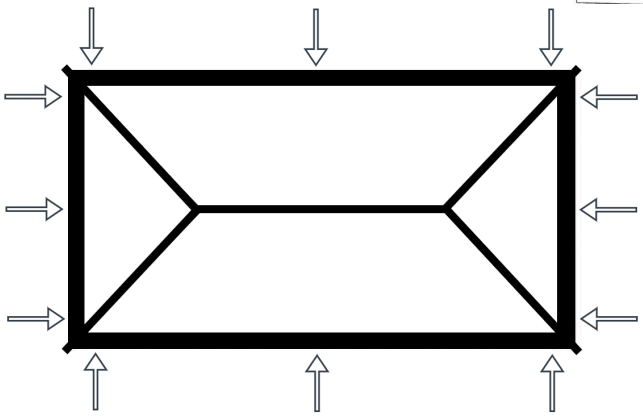


STEP 4:

SCREW FIX THE LANTERN TO THE TIMBER KERB

You now need to secure the upstand to the timber kerb by inserting screws into the purpose made groove that runs around the bottom of the frame externally, about 100mm from each corner, screwing through the upstand into the timber underneath. You will need to pre-drill your holes into the aluminium frame using a standard metal drill bit.





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

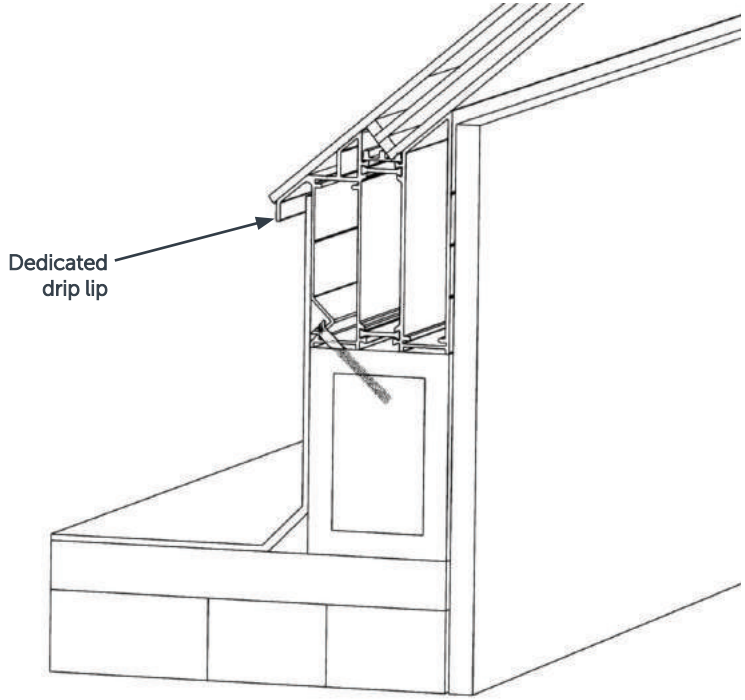
For larger lanterns, we recommend inserting additional screws at approx. 500mm intervals.

Now that your lantern is fixed to the timber kerb, you need to flash it in, which acts as the final stage of weatherproofing.

STEP 5.1:

FLASHING GUIDELINES (Sheet membrane)

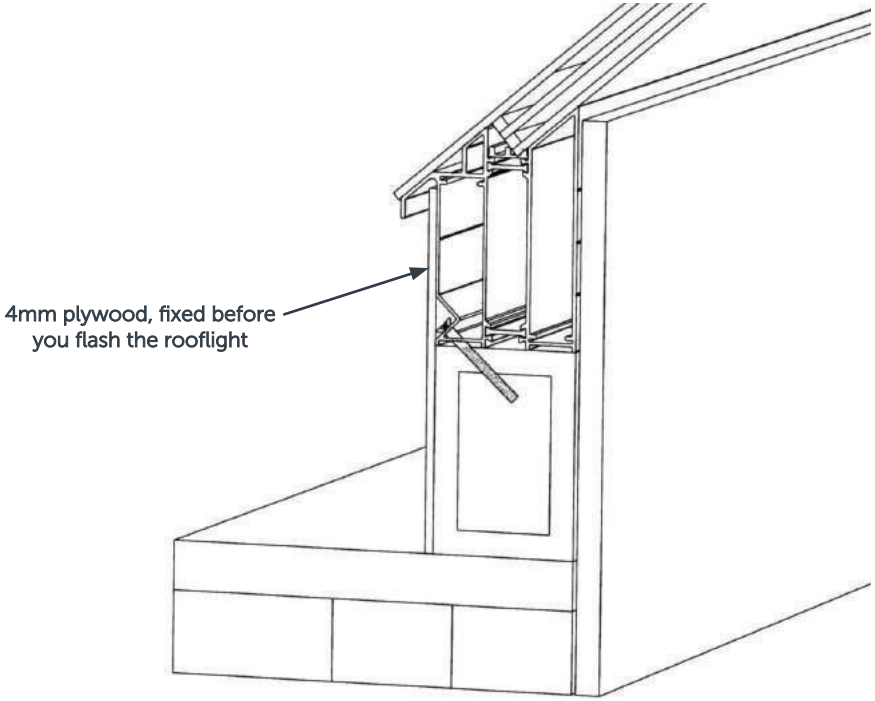
Ensure the roof membrane is tucked right under the dedicated drip lip that sits just under the glass. This is important as it acts as the final weathering stage to avoid water ingress in this area. Take a look at the diagram below which illustrates this detail. If using a torch on felt, we recommend 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 5.2:

FLASHING GUIDELINES (GRP membrane)

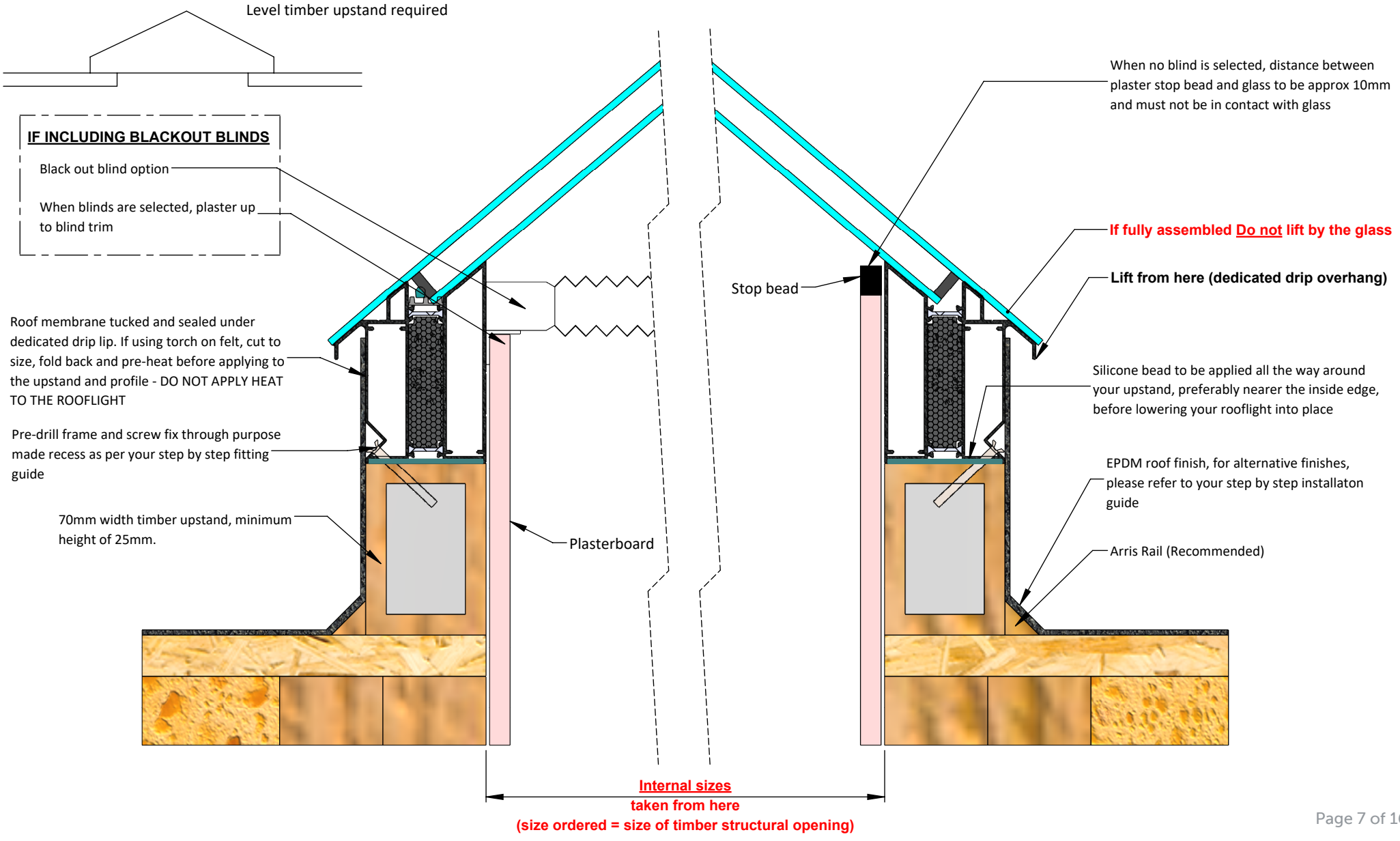
If using GRP to finish the roof, you should silicone bond a 4mm plywood border around the upstand and kerb. Screw fix this into the timber kerb if you wish to make it more secure. This will provide a more suitable surface for the GRP to adhere to. Ensure that this goes right up underneath the drip lip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



Your roof lantern installation is now finished.

For internal plaster finishing details please refer to the roof cross section fitting guide, located on page 7 of this guide.

ROOF SECTION FITTING GUIDE

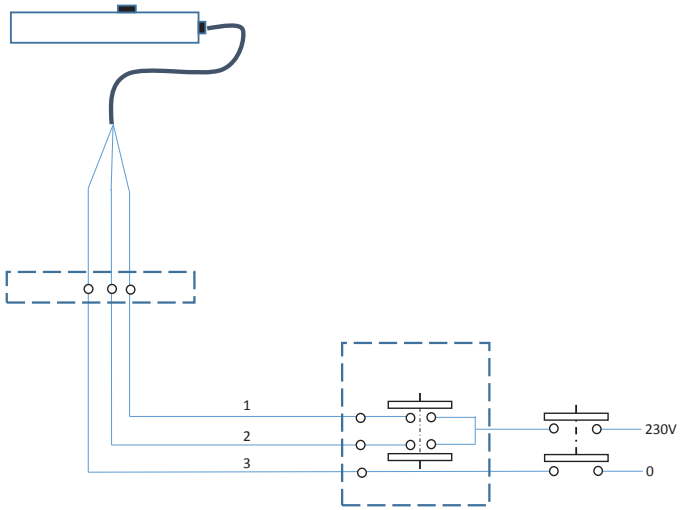


ROCKER SWITCH CONTROLLED OPENING VENT - WIRING GUIDE (3 CORE CABLE)

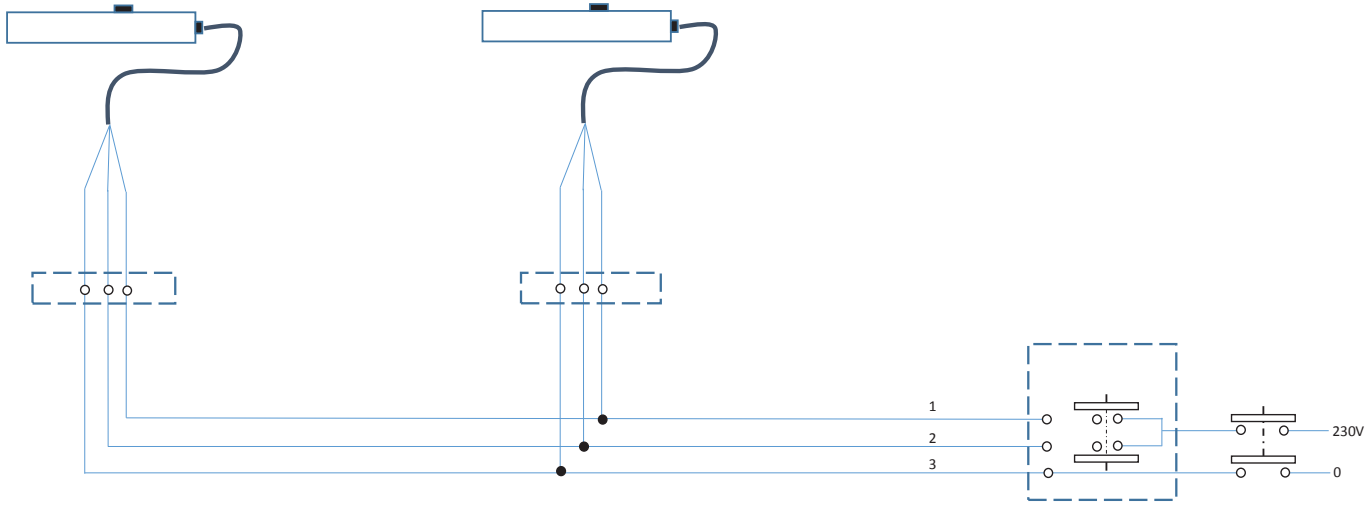
The diagram below illustrates how you need to wire in your opening vent to your switch, giving examples for both a single vent or when 2 vents have been included.

Please note - We provide a white plastic rocker switch when you have opted for a rocker switch controlled rooflight. If you would like to replace this for something that matches the remaining switches you have in the property, please ensure that it is a '2 way and off' retractive switch, that springs back to the central (off) position.

3 CORE - SINGLE MOTOR



3 CORE - MULTIPLE MOTORS



Colour	Number	Signal
Brown	1	Opens
Black	2	Closes
Blue/Grey	3	Common

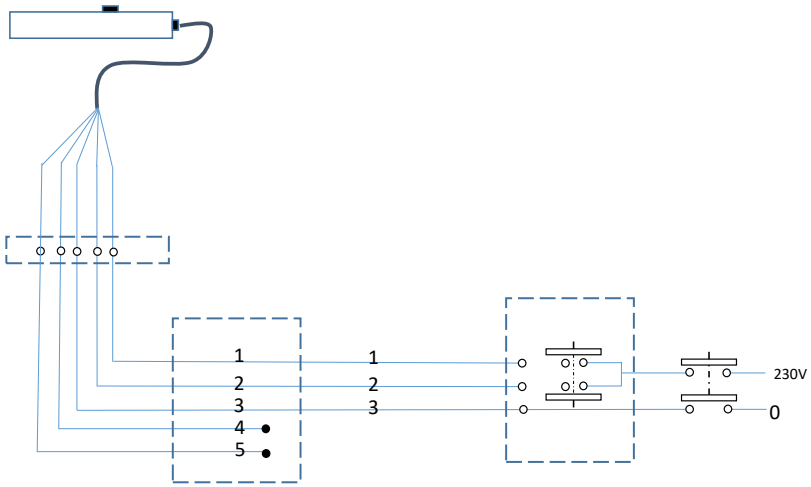
Refers to both single and multiple motors.

ROCKER SWITCH CONTROLLED OPENING VENT - WIRING GUIDE (5 CORE CABLE)

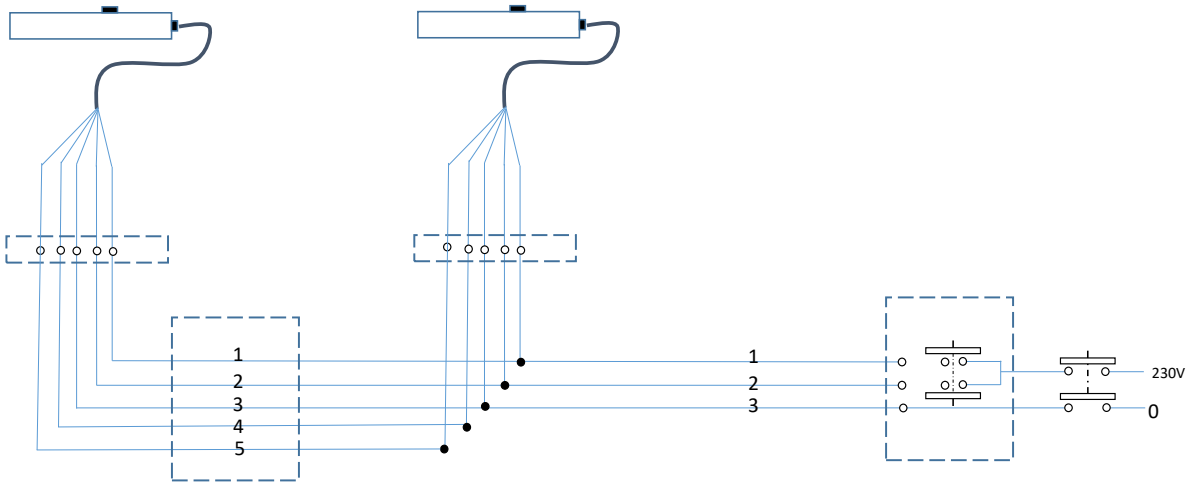
The diagram below illustrates how you need to wire in your opening vent to your switch, giving examples for both a single vent or when 2 vents have been included.

Please note - We provide a white plastic rocker switch when you have opted for a rocker switch controlled rooflight. If you would like to replace this for something that matches the remaining switches you have in the property, please ensure that it is a '2 way and off' retractive switch, that springs back to the central (off) position.

5 CORE - SINGLE MOTOR



5 CORE - MULTIPLE MOTORS



Colour	Number	Signal
Brown	1	Opens
Black	2	Closes
Blue	3	Common
Red	4	Sync
White	5	Sync

Refers to both single and multiple motors.

CLIMATE CONTROL AND RAIN SENSOR OPENING VENT - WIRING GUIDE

The below diagrams show the wiring in process for when you have chosen a climate-controlled operation with rain sensor.

ADVANCED OPERATIONS GUIDE

The default settings of our 100 series controller are suited to most user applications. However, if you need to make advanced alterations such as; Thermostat, Actuator and Lock Calibration, then please use the following guide.

To enter 'advanced' setup set your unit to "**AUTO**" mode then press and hold the **AUTO/MAN** plus **SET +/-** buttons simultaneously for 5 seconds.

Your screen should now read..

```
ADV
SETUP
```

After a moment the screen will change to display

```
To Advance
Press SET +/-
```

Using **SET+/-** is how you scroll through the available options and saves each stage of any alteration.

Now press "**SET +/-**". The screen will read..

```
To + a value
Press Open
```

The Open button is used to increase any value.

Press "**SET +/-**" again. The screen will read..

```
To - a value
Press Close
```

The Close button is used to decrease any value.

Press "**SET +/-**" again. The display will read..

```
Proceed to
ADV Setup
```

Now you can proceed to the advanced setup options.

Press "**SET +/-**" again. The display will read..

```
Room Temp
is now XXc
```

'XX' being the current temperature in your room.

By using **Open(+)** and **Close(-)** you can calibrate the display temperature.

Press "**SET +/-**" again. The display will read

```
Full open
Cycle 013sec
```

013sec is the amount of time for the motor to operate and fully open - in most cases this default setting is adequate. You can of course, alter this setting for your actuator by pressing the **Open(+)** and **Close(-)** buttons.

Press "**SET +/-**" again. The display will read..

```
Opening
Temp =22c
```

This relates to the temperature that the room must reach before the actuator will operate.

You can alter this setting by pressing the **Open(+)** and **Close(-)** buttons.

Press "**SET +/-**" again. The display will read..

```
Closing
Temp =18c
```

This relates to the temperature that the room must fall to before the actuator will operate.

You can alter this setting by pressing the **Open(+)** and **Close(-)** buttons.

Press "**SET +/-**" again. The display will read..

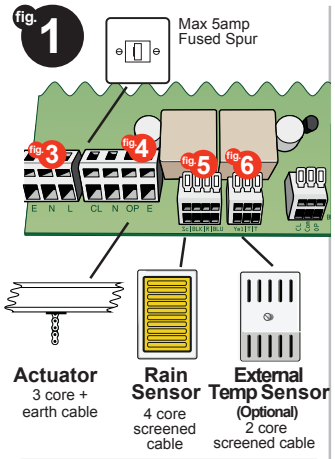
```
AUTO LOCK
MODE OFF
```

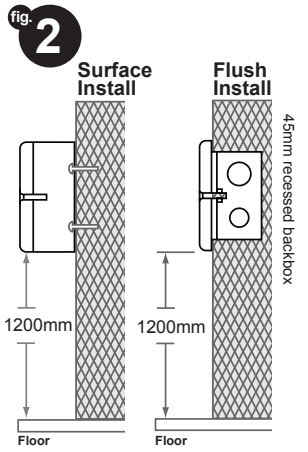
Using autolock is a security feature that prevents the unit from being used without entering a passcode first. You can turn this on or off by pressing the **Open(+)** and **Close(-)** buttons.

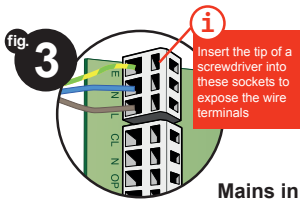
Press "**SET +/-**" again will take you back to **AUTO MODE**

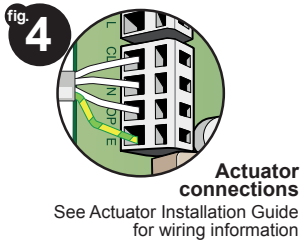
The unlock sequence is:
Button 2 [AUTO/MAN]
Button 1 [OPEN]
Button 3 [SET +/-]
Button 4 [CLOSE]

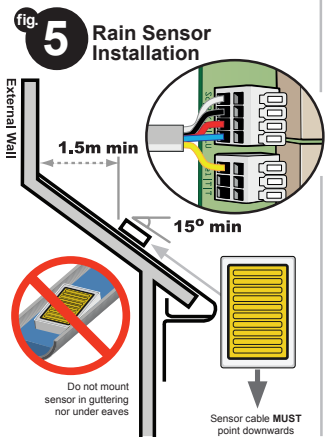
Continued on next page...

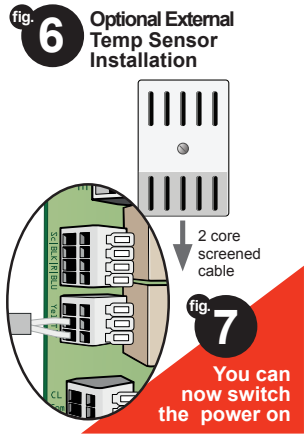












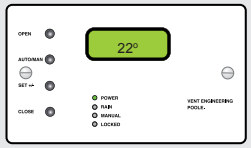
Finished.

Your unit will now be fully set up to work with its factory settings.

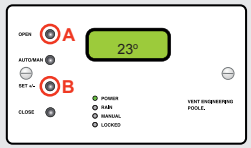
Please read the following steps to adjust basic optional settings.

Additional user settings

Preset Opening Temperature



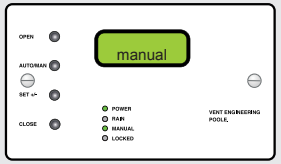
To adjust opening temperature



In Auto mode, hold 'A' & repeat press 'B'

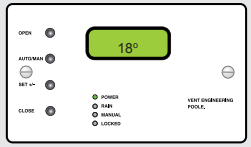
To manually open and close

Press and hold **AUTO/MAN** for 2 seconds until MANUAL light comes on then use the **OPEN** or **CLOSE** buttons to adjust the window position.

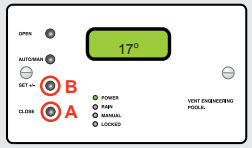


Press and hold **AUTO/MAN** for 2 seconds to return to automatic mode.

Preset Closing Temperature



To adjust closing temperature



In Auto mode, hold 'A' & repeat press 'B'

We advise a difference of at least 2° between the opening and closing temperature.

FREQUENTLY ASKED QUESTIONS

Q. Where is the temperature sensor?

A. The Ventec 100 Series comes with an internal temperature sensor.

Q. Where do I mount my temperature sensor?

A. If you have opted for the external temperature sensor, the location is entirely at your discretion. We would recommend a position that gives a good average reading of the desired location, ideally at least 1300mm from the floor. *You can choose to position the thermostat a maximum of 30m away from the control panel.*

Q. Only the set+/- button on my panel does anything?

A. This means your panel has been locked. To unlock your unit see the instructions on the back page.

Q. Can I change the default lock/unlock code?

A. No. The code has been preset to avoid the need for a complete system reset should the new code be forgotten.

Q. My rain sensor seems to have become less responsive?

A. Check the unit has not slipped or fallen into an undesired position and try cleaning the metallic head with a soft damp cloth. We recommend the rain sensor is cleaned on a quarterly basis.

Q. It has recently stopped raining but my windows have not opened again?

A. In Auto mode the 100 series controller has a built in time delay of 5 minutes between the rain sensor drying and the unit becoming fully operational. This will be indicated by the presence of the Rain LED on the front panel. For the unit to operate the current temperature will need to be higher than your desired opening temperature. In manual mode you should have full control of the unit.

Q. My display shows 0.0 - Is this correct?

A. This indicates a problem with the thermostat wiring. Check the wiring and that all connections have been correctly made.

Q. How many actuators will the 100 series operate?

A. The 100 series has a 5 amp capacity.

CABLE LOCATION GUIDE

SLIMLINE® ROOF LANTERNS WITH ELECTRONIC VENTS AND BLACKOUT BLINDS

INTRODUCTION AND TOOLS REQUIRED

When you have opted for a Slimline® roof lantern with electronic vent/s and a blackout blind, the electrician will need to drill through the lantern's built in upstand profile in order to run the vent motor cable through it. The requirements for this are outlined in this guide and will prevent the blind being obstructed by the vent actuator cabling, ensuring that the blind will open and close as intended.

Opening vents are always positioned on the longer sides of the lantern, so it will be the longer side of the built in upstand that you will need to prepare. If you have two vents, you will need to prepare both sides of the unit as you will have one vent positioned on each side. This preparation has to be done before the lantern is positioned and fixed to your timber kerb.

It is also necessary to notch a small groove into the inside/internal face of your kerb and reveal. This will allow the actuator cable to run into the property where it comes out of the underside of the lantern's built-in upstand. These grooves, however, can be created when the lantern is properly positioned and fixed onto the timber kerb (outlined in the guide). Tools and materials required for the preparation are as follows:

- Drill with 10mm HSS drill bit
- Tape measure and pencil
- 2x 10mm rubber grommets (per vent), suitable for a 2mm wall thickness – ensure the grommets have a large enough hole to comfortably run the motor cable through them
- Hammer and chisel or routing tool (to create the internal groove/s required in the timber structure, for the cabling to run into the property)
- Sturdy trestle supports suitable to support the weight of your lantern (we can advise on weights at the point of sale), which will allow approx. 1000mm of clearance below the unit
- Masking tape (optional)

CABLE LOCATION GUIDE

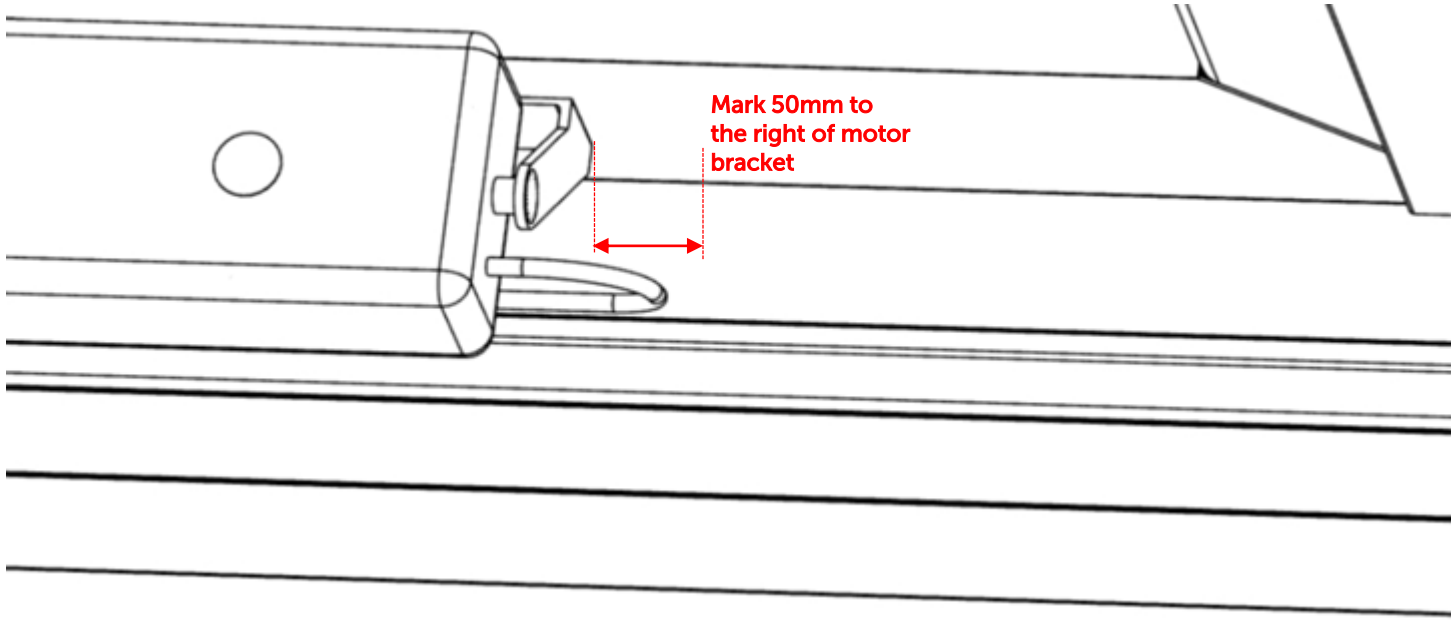
SLIMLINE® ROOF LANTERNS WITH ELECTRONIC VENTS AND BLACKOUT BLINDS

PREPARATION GUIDE FOR FULLY ASSEMBLED LANTERNS

When you have received a fully assembled Slimline® roof lantern, the upstand section will already house the blackout blind. The blind will be fully open and you will see that it sits along the width of the unit, at the side that it would retract to. Before starting, you will need to place the lantern onto trestles which will allow you to safely get to the underside and inside face of the lantern upstand, where the vent is positioned. We recommend that you use trestles that will give you at least 1000mm clearance below the rooflight. Ensure that the supporting trestles are strong and steady enough for the weight of the lantern you have.

STEP 1

Where the vent is positioned, close to the top edge of the upstand profile (above the white blind perimeter trim), make a mark around 50mm to the right side of the vent motor bracket, where the cable comes out of it.



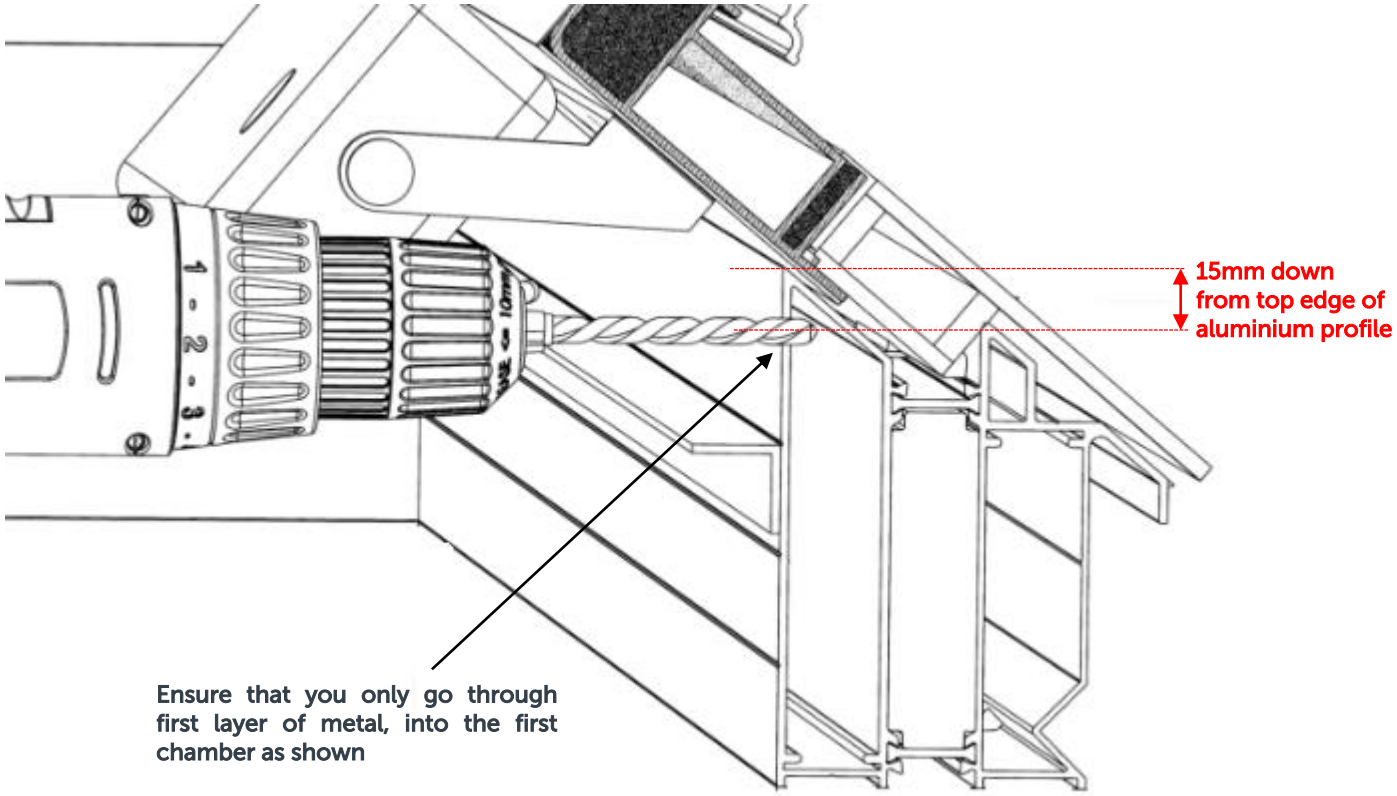
CABLE LOCATION GUIDE

SLIMLINE® ROOF LANTERNS WITH ELECTRONIC VENTS AND BLACKOUT BLINDS

STEP 2

In the same area, measure down from the top edge of the profile by 15mm and where the two marks meet, use your 10mm drill bit to drill a hole. Take your time and ensure that the hole is only made in this surface and doesn't go through any deeper.

Tip – you can place masking tape onto the frame where the hole needs to be drilled, which will stop the drill slipping and also prevent the powder coating from chipping in this area.

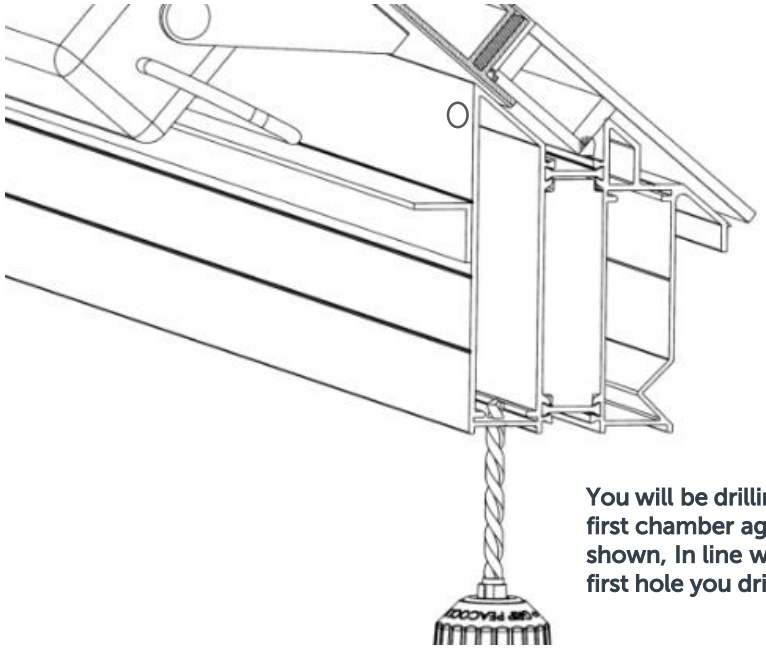


CABLE LOCATION GUIDE

SLIMLINE® ROOF LANTERNS WITH ELECTRONIC VENTS AND BLACKOUT BLINDS

STEP 3

You now need to drill a 10mm hole through the bottom of the upstand, vertically level with the first hole you made on the inside face, through to the inside chamber of the upstand. **You can also use the masking tape here to prevent the drill slipping, as mentioned in the previous step.**

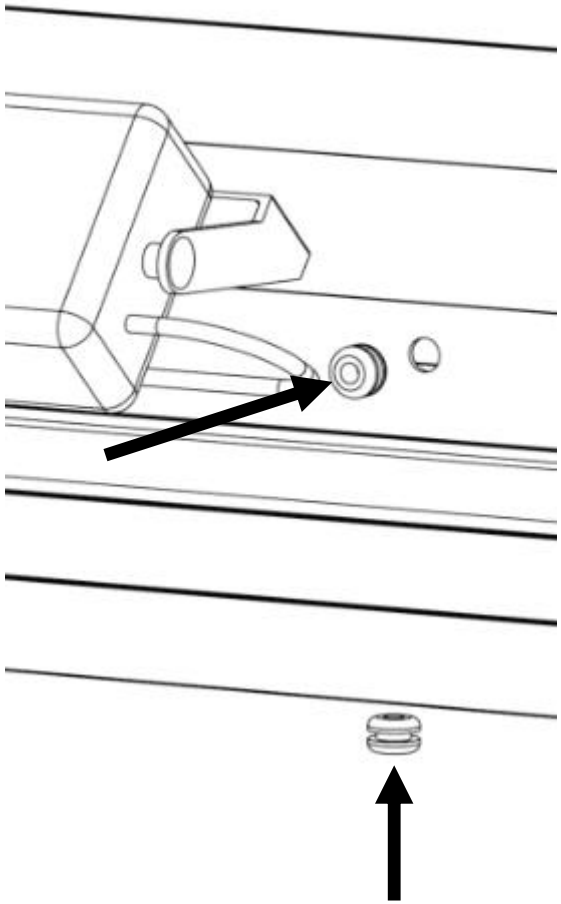


You will be drilling into the first chamber again, as shown, In line with the first hole you drilled.

STEP 4

Place the rubber grommets into both holes you have just drilled. If you have two vents, repeat this process on the opposite side of the roof lantern following the same instructions. The upstand section is now prepared.

The installer can now proceed to install the roof lantern as per our guidelines.

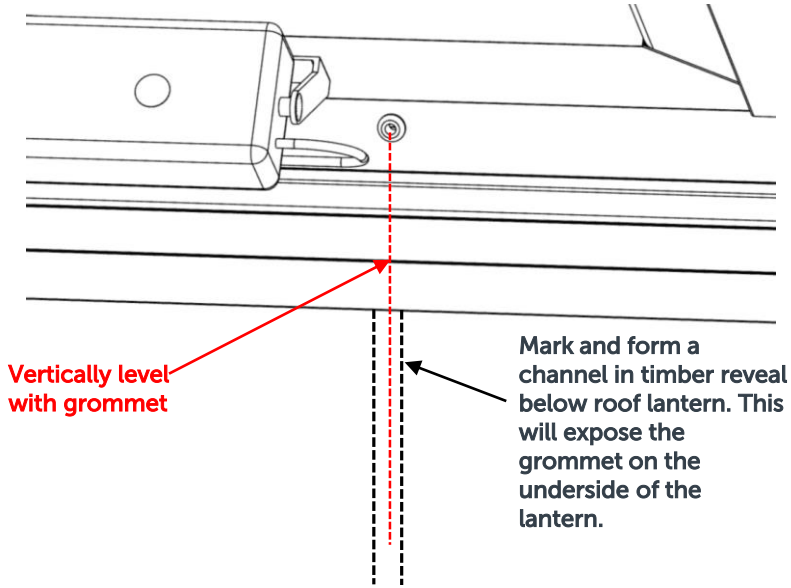


CABLE LOCATION GUIDE

SLIMLINE® ROOF LANTERNS WITH ELECTRONIC VENTS AND BLACKOUT BLINDS

STEP 5

Now the lantern is installed, you can create the groove/s required in the timber reveals, to house the vent actuator cabling. Mark a line down the timber reveal, vertically level with the grommet's position. Use the line as a guide to notch a groove into the timber structure. This will house the cabling when it is fed through the upstand, and allow it to run into the property. Ensure the groove is deep enough to expose the hole you have prepared in the bottom of the upstand and house the cable sufficiently, so it will not obstruct the plasterboard when applied to the reveals later on.



STEP 6

You can now run the cable that comes from the vent actuator through the hole in the upstand frame above the blind trim, out through the bottom of the unit and into the groove you have formed in the reveal. You will need to extend the cable to the chosen location of your rocker switch/climate control panel. Once the vent has been fully wired in and checked, the installer can then proceed to plaster the inside reveals, as per the finishing guidelines shown in the installation guide. **Be sure to instruct the installer not to put plasterboard fixings where the cabling is located in the reveal.**