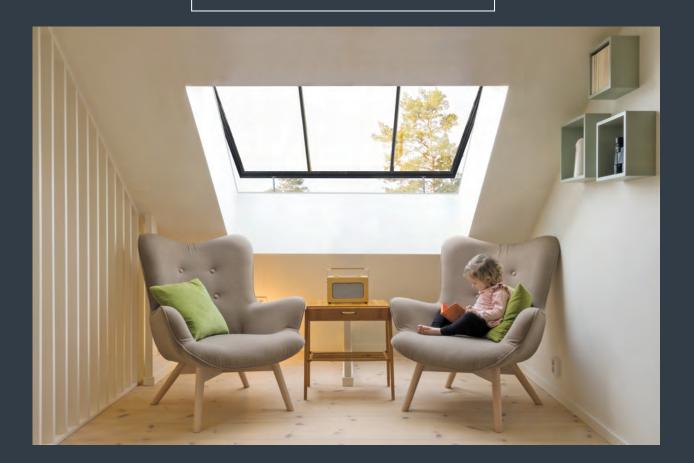
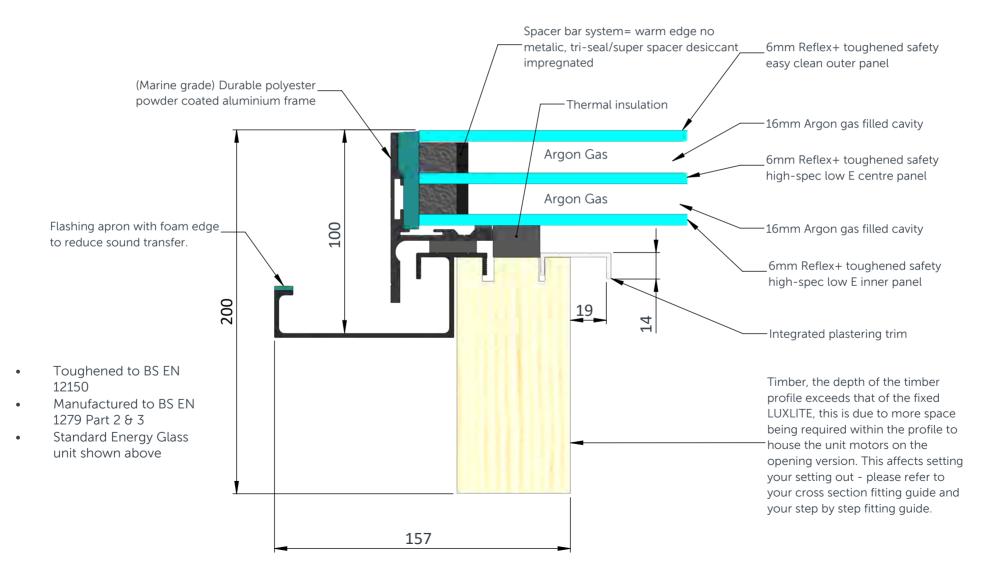
WORLD CLASS ROOFLIGHTS



PRODUCT SPECIFICATION AND INSTALLATION GUIDE OPENING CONSERVATION LUXLITETM

WORLD CLASS ROOFLIGHTS

OPENING CONSERVATION LUXLITETM: STANDARD PRODUCT SPECIFICATION





CONSERVATION LUXLITETM: SPLIT BAR CONFIGURATION GUIDE

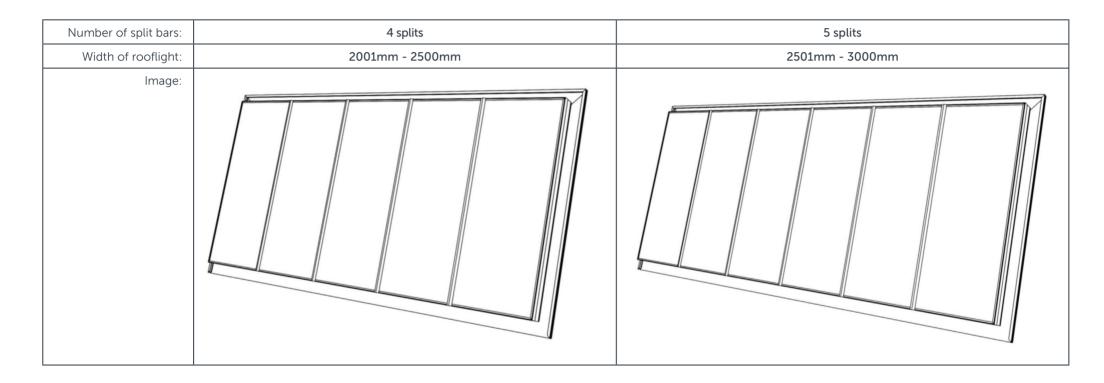
This guide shows the number of split bars that will be structurally bonded to the surface of the glass as standard, which is dependent on the width of your Conservation Luxlite[™]. This will be the same for both fixed and opening variations. However, the number of split bars can be increased or decreased based on your specific requirements, which can be discussed with a member of the sales team when you make an enquiry.

Number of split bars:	1 split	2 splits	3 splits
Width of rooflight:	400mm - 1000mm	1001mm - 1500mm	1501mm - 2000mm
Image:			

Continued overleaf...



CONSERVATION LUXLITETM: SPLIT BAR CONFIGURATION GUIDE



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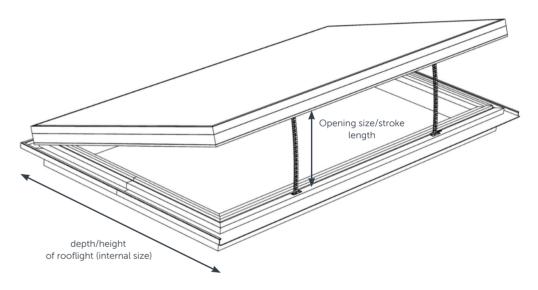
OPENING SIZE GUIDE FOR THE HINGED OPENING LUXLITETM

The maximum opening capacity of your Hinged Opening Luxlite[™] will depend on the size of the rooflight you have ordered. The potential opening size ranges from 200mm to 400mm.

The chart below illustrates the maximum achievable opening size dependent on the height (or depth) of your rooflight.

LuxliteTM rooflights will be top hung with the hinges located along the top of the rooflight, and the opening located at the bottom of the rooflight. It is the distance running from top to bottom of the rooflight which we refer to as the internal height or depth. The stroke length refers to the length of the chain and in turn, the size of the opening that will be achieved when fully open.

Internal height of rooflight (depth)	Stroke length (opening size at widest point)
700mm +	400mm
699mm - 600mm	300mm
599mm - 500mm	250mm
499mm - 400mm	200mm



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OPENING CONSERVATION LUXLITE[™]: INSTALLATION INSTRUCTIONS



ON DELIVERY OF YOUR NEW OPENING CONSERVATION LUXLITE[™],YOU WILL RECIEVE;

*IF REMOTE CONTROLLED WITH A RAIN SENSOR...

- Control box (200mm x 120mm x 75mm) with 3 pin power flex
- Remote control and key fob remote
- Long Screws for fixing the rooflight to the rafters and trimmers
- Rain sensor with mounting bracket

*IF ROCKER SWITCH CONTROLLED...

- Rocker switch
- Long Screws for fixing the rooflight to the rafters and trimmers

*All additional accessories and components will come with your rooflight delivery and be packaged in a cardboard box.

IN ADDITION, YOU WILL NEED;

- Silicone Adhesive Sealant (high quality; Dow Corning 791 recommended)
- Drill, bits and screws as required
- Materials to prepare a wedge (as outlined in the guide)
- Lead flashing code 4 recommended or suitable alternative (as outlined in the guide)

INSTALLATION GUIDE

Please make sure you read through all steps and understand all requirements before beginning assembly.

Please ensure you adhere to the correct guidelines for moving heavy objects and working at height. Be sure to use correct lifting equipment.

PLEASE NOTE: You <u>must not</u> use glass suction pads to lift the unit on to the roof, as this can compromise the glazing seal. The unit will come with timber feet attached to the four corners, which we suggest should be used to handle the unit. If the use of a crane is required, either securely place the unit on to a pallet or attach additional timber to the existing timber feet, so the crane straps can be looped around securely. Avoid putting pressure on the built in flashing apron.

GUIDE WEIGHTS			
Size (mm)	Landscape Weight (kg)	Portrait Weight (kg)	
400x400	37	37	
600x600	56	56	
900x700	78	78	
1400x700	108	108	
1000×1000	107	107	
1500×1000	143	143	
2000x1000	180	180	
2400x1000	215	168	
3000x1000	258	201	
1500x1200	164	164	
2000x1200	211	211	
2400x1200	243	243	

PLEASE NOTE - weights stated can vary and work to a +/- 10% tolerance. We can provide weights for sizes not listed. In some cases, lightweight glazing is used dependant on rooflight size and orientation. This explains why some weights vary on the chart above, when comparing portrait and landscape rooflights of the same size.



STEP ONE

FIT TRIMMERS TO YOUR JOISTS

The internal dimensions of the aperture created by your trimmers and joists should be 130mm wider than the Luxlite[™] you ordered. (e.g. for 2000x1000mm Luxlite[™], the internal dimensions of your aperture should be 2130x1130mm). Fit trimmers across the joists adjacent to the aperture, and a beam across the trimmers, as shown. These additional structural members will support the tile battens around the rooflight.

STEP TWO

FIT UNDERFELT TO YOUR ROOF

Fit underfelt to your roof. This should extend to the rim of the aperture where your Luxlite[™] will be installed. Seal the underfelt to the timber around the aperture.



STEP THREE

PREPARE AND FIT A TIMBER WEDGE BELOW THE APERTURE

The bottom of the wedge should meet level with the tiles that will be installed later. This can be determined by trial fitting the Luxlite[™] assembly. The wedge should be at least as wide as the Luxlite[™] apron. The position and angle of the wedge is dependent on the roof type set out.

STEP FOUR

COVER THE WEDGE WITH FLASHING

Cover the wedge installed in the previous step with flashing (flashing and wedge not provided). The flashing width should be at least 100mm (either side) greater than the LuxliteTM apron. It is also important that the highlighted edge of the flashing (left) is tucked underneath the LuxliteTM apron.

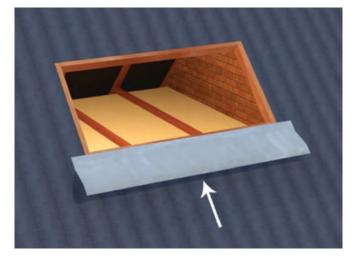
STEP FIVE

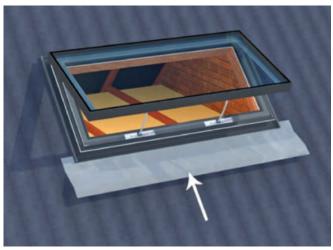
BRING YOUR LUXLITE[™] INTO POSITION

Bring your Luxlite[™] into position and align it so that it is centred on your aperture.

Seal the interface between the Luxlite[™] and the aperture with silicone.









STEP SIX

FIX YOUR LUXLITE[™] TO THE ROOF

Fix your Luxlite[™] to your roof with the long screws provided. You should have enough screws to fix the rooflight at approx. 500mm centres around the internal perimeter.

STEP SEVEN

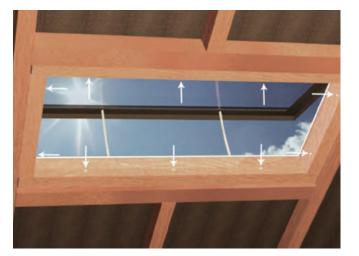
FIT BATTENS TO THE ROOF

Tile battens can now be fitted to your roof. The battens should be flush with the edge of the Luxlite[™] aluminium apron.

STEP EIGHT

FIT FLASHING TO COVER THE BATTENS

Seal the flashing beneath the lip of the apron and drape over battens. Tiles will sit over this flashing.









STEP NINE

FIT TILES TO THE ROOF

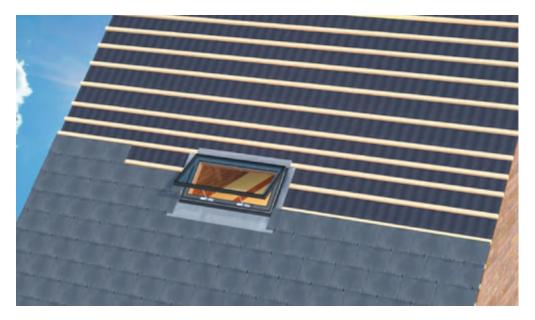
You are now free to fit tiles to your roof. The Luxlite[™] has been designed so that your roof tiles can overlap the apron, leaving little aluminium exposed for a minimalistic aesthetic.

STEP TEN

PLASTERBOARD TO FINISH ASSEMBLY

Apply plasterboard to the internal faces of your aperture. The plasterboard is to be applied up to the internal trim of the LuxliteTM (for plastering finish guidelines, please follow the roof section fitting guide on page 10).

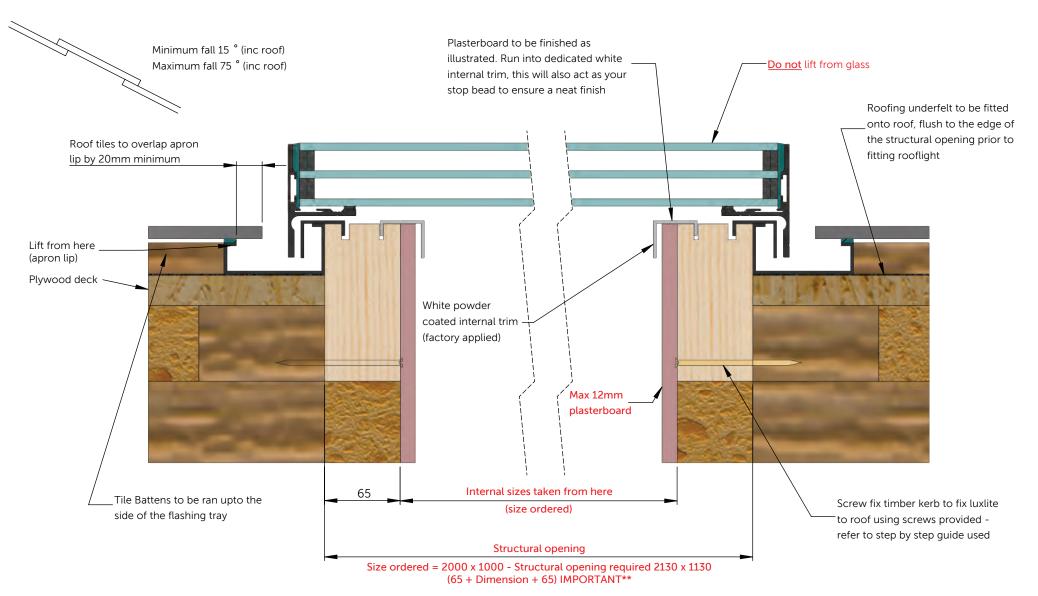
Your Opening Conservation Luxlite ${}^{\rm TM}$ is now fully installed.







ROOF SECTION FITTING GUIDE



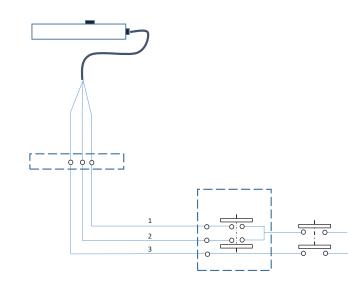


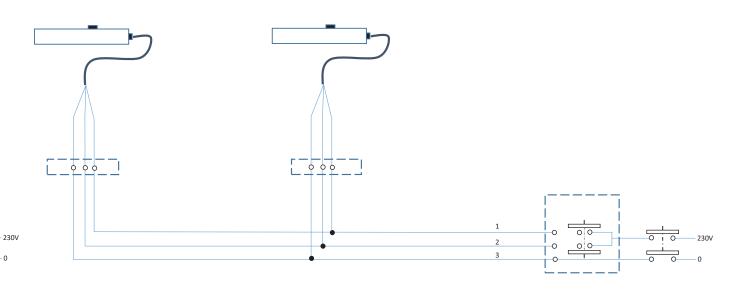
ROCKER SWITCH WIRING DIAGRAMS (3 CORE)

NOTE: THE TYPE OF MOTOR YOU RECEIVE IS JUSTIFIED BY THE SIZE OF THE ROOFLIGHT ORDERED.

3 core - single motor

3 core - multiple motors





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

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.

Refers to both single and multiple motors.

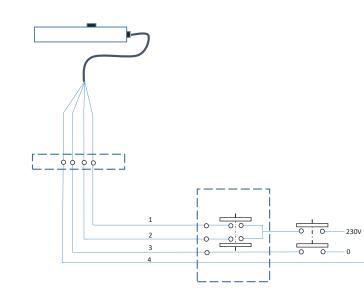


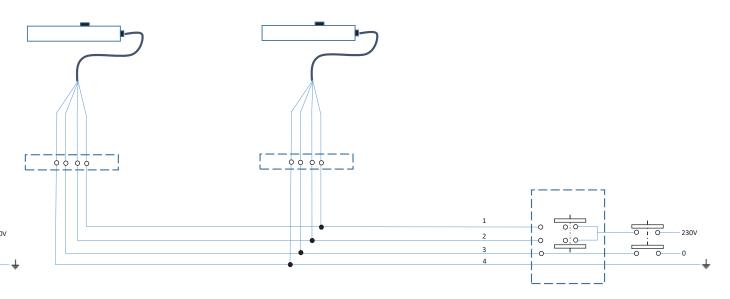
ROCKER SWITCH WIRING DIAGRAMS (4 CORE)

NOTE: THE TYPE OF MOTOR YOU RECEIVE IS JUSTIFIED BY THE SIZE OF THE ROOFLIGHT ORDERED.

4 core - single motor

4 core - multiple motors





Colour	Number	Signal
Brown	1	Opens
Black	2	Closes
Blue	3	Common
Yellow/Green	4	Ground

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.

Refers to both single and multiple motors.

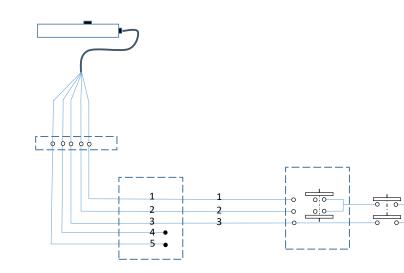


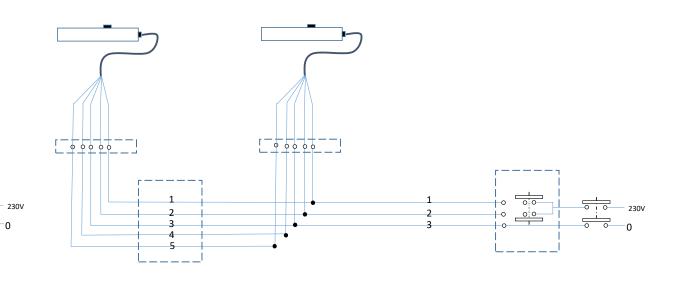
ROCKER SWITCH WIRING DIAGRAMS (5 CORE)

NOTE: THE TYPE OF MOTOR YOU RECEIVE IS JUSTIFIED BY THE SIZE OF THE ROOFLIGHT ORDERED.

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

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.

Refers to both single and multiple motors.

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Rafters

Trimmers

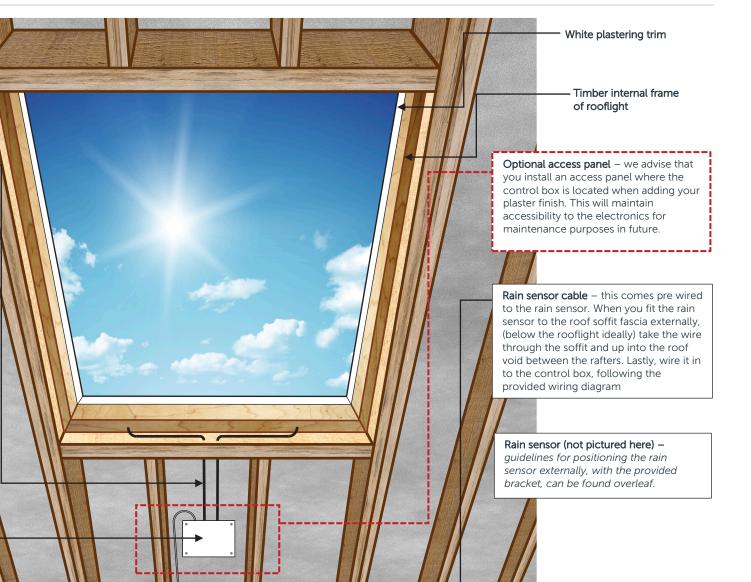
Underfelt -

REMOTE CONTROLLED HINGED OPENING LUXLITETM – CABLE LOCATION GUIDELINES (not to scale)

Actuator cables* (shown as 2) which come through the bottom of the unit in the centre of the timber frame as shown. The exact part of the frame (across the width) that the cables come through vary dependant on rooflight size, which affects where the motors are located. Drill appropriate holes through the bottom trimmer and feed the cables through to where your control box is located. Wire in the actuator cables following the instructions on the

provided wiring diagram.

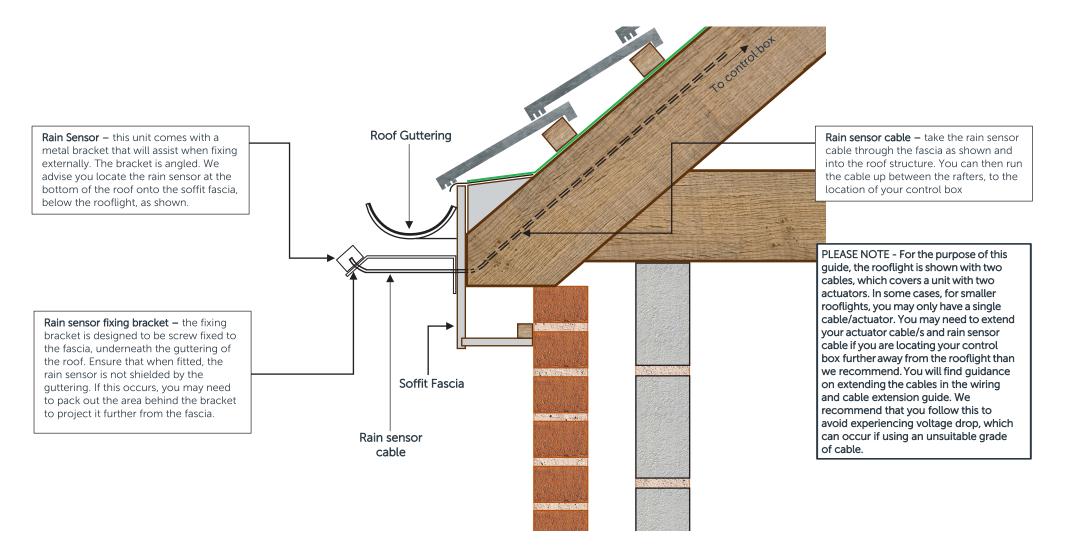
Control Box (200mm x 120mm x 75mm) – install this in the void of the roof, between the rafters. This is where your actuator cables and rain sensor cable will be wired in to. This is powered by a standard 3 pin plug socket (3 pin plug flex provided), which you will need to install into this area in advance, positioning within 400mm of the control box location. The control box also acts as the remote-control receiver.



WORLD CLASS ROOFLIGHTS

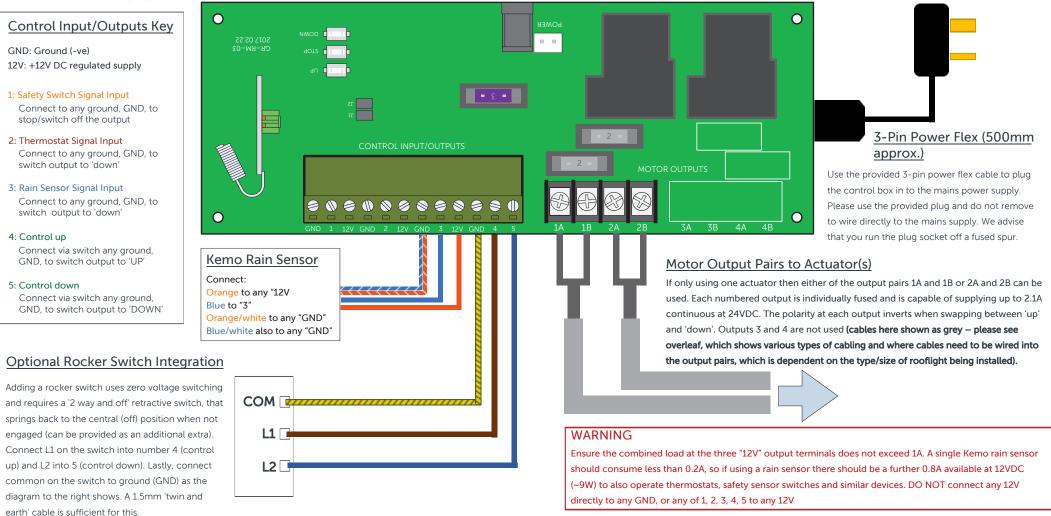
REMOTE CONTROLLED HINGED OPENING LUXLITETM – CABLE LOCATION GUIDELINES (not to scale)

The below diagram shows a roof section of the roof Soffit Fascia, which is the location that you should position the rain sensor for your Luxlite[™]



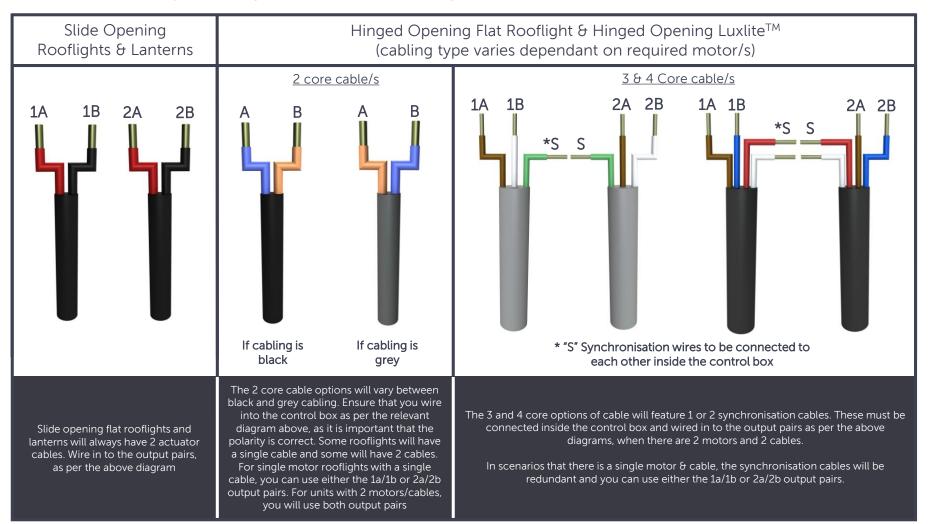
Wiring Guide - Control Box

The diagram below shows the PCB located inside the control box. The dimensions of the control box are 200mm x 120mm x 75mm and we advise this to be consealed but kept accessible, as explained in the seperate cable location guide. The diagram below explains how to connect the power supply, the rooflight actuator/s, rain sensor and also covers the wiring for an optional rocker switch, should this be required. There are various different types of actuator cabling, which will vary dependant on the type and size of the rooflight. These options can be found overleaf along with guidelines on how to wire them in to the motor output pairs.



Wiring Guide - Actuator Cable Types

The table below shows the different types of actuator cabling provided when you have a remote controlled rooflight with a rain sensor. The cable type will vary dependant on the type and size of rooflight motor that is fitted. The table below has been broken down by rooflight type and provides advice on where to wire in to the motor output pairs inside the control box. If you need to extend either the actuator cables or rain sensor cable, we have instructions on how this can be done overleaf. We advise you follow these instructions to avoid experiencing voltage drop. You will need to extend the cables if you want to locate the control box further away from the rooflight than we advise in the cable location guide.

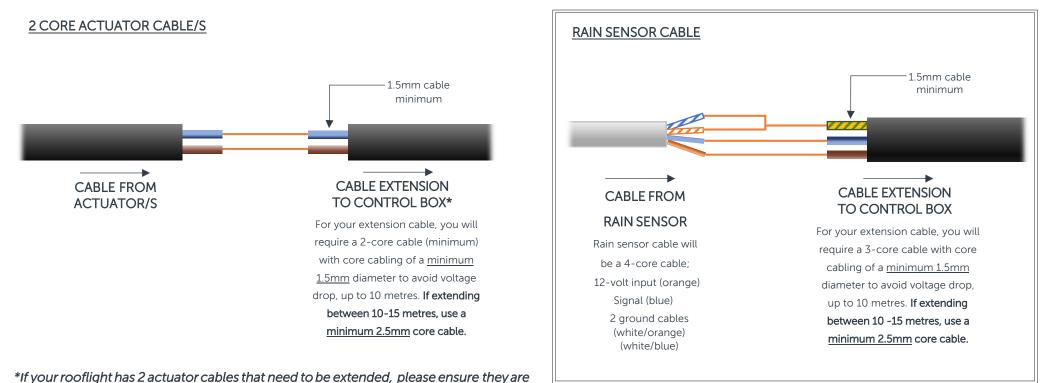


Cable Extension Guide

This guide explains how to extend the cabling for opening rooflights, which feature remote controlled operation and rain sensors. In some scenarios, dependant on where your rooflight is located and where you wish to place the control box, extending the cables might be a requirement. Your electrician must ensure that a suitable cable is used to avoid voltage drop occurring. This guide covers the **Slide Opening Rooflight and Lantern** and the remote-controlled versions of the **Hinged Opening Flat Rooflight** and **Hinged Opening LuxliteTM**.

Here you will find guidance for extending cables up to a length of 15 metres. If you do need to extend further than 15 metres, please contact our technical department for advice.

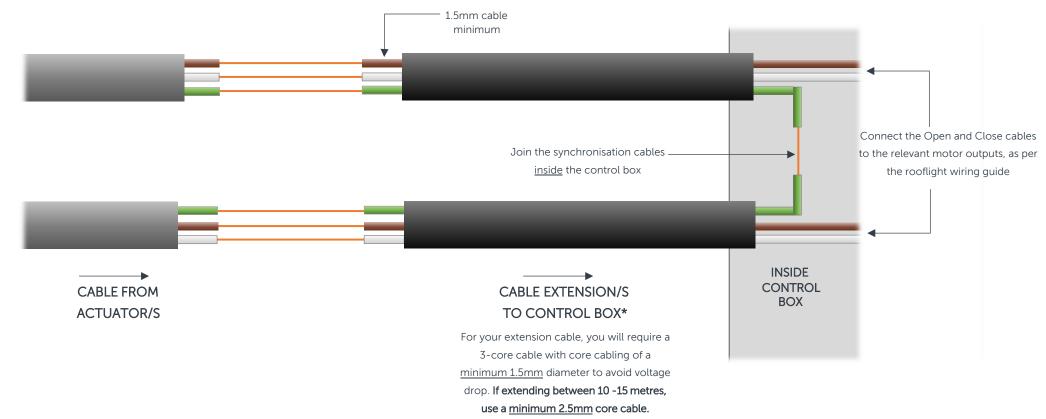
The cable extension requirements for the rain sensor cable are outlined below and remain the same for all rooflights covered in this guide.



extended to exactly the same length to avoid the motors operating at different speeds.

3 CORE ACTUATOR CABLE/S

This is shown below as 2 cables to illustrate how the synchronisation cables are joined together inside the control box, when the rooflight has 2 actuators. Should you have a rooflight with just a single '3 core' cable from the actuator, the synchronisation (green) cable will be redundant

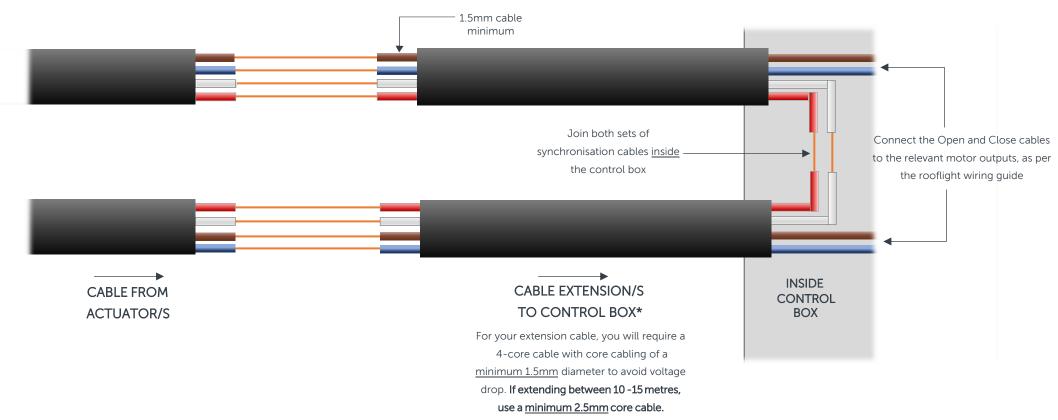


*If your rooflight has 2 actuator cables that need to be extended, please ensure they are

extended to exactly the same length to avoid the motors operating at different speeds.

4 CORE ACTUATOR CABLE/S

This is shown below as 2 cables to illustrate how both pairs of synchronisation cables are joined together inside the control box (when the rooflight has 2 actuators). Should you have a rooflight with just a single '4 core' cable from the actuator, the synchronisation (red and white) cables will be redundant.



*If your rooflight has 2 actuator cables that need to be extended, please ensure they are

extended to exactly the same length to avoid the motors operating at different speeds.