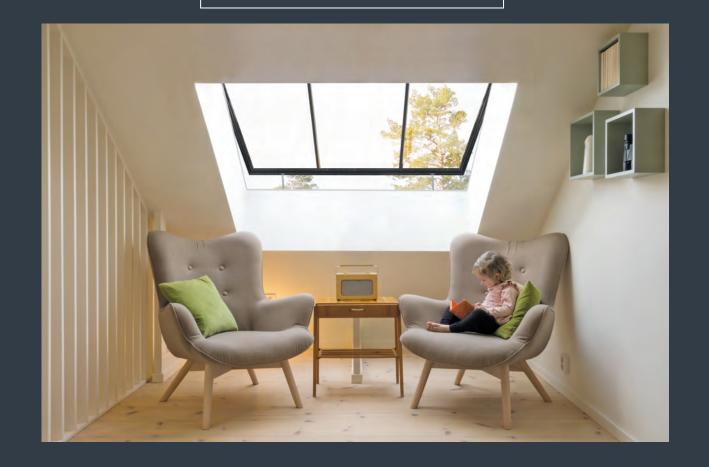
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PRODUCT SPECIFICATION AND INSTALLATION GUIDE

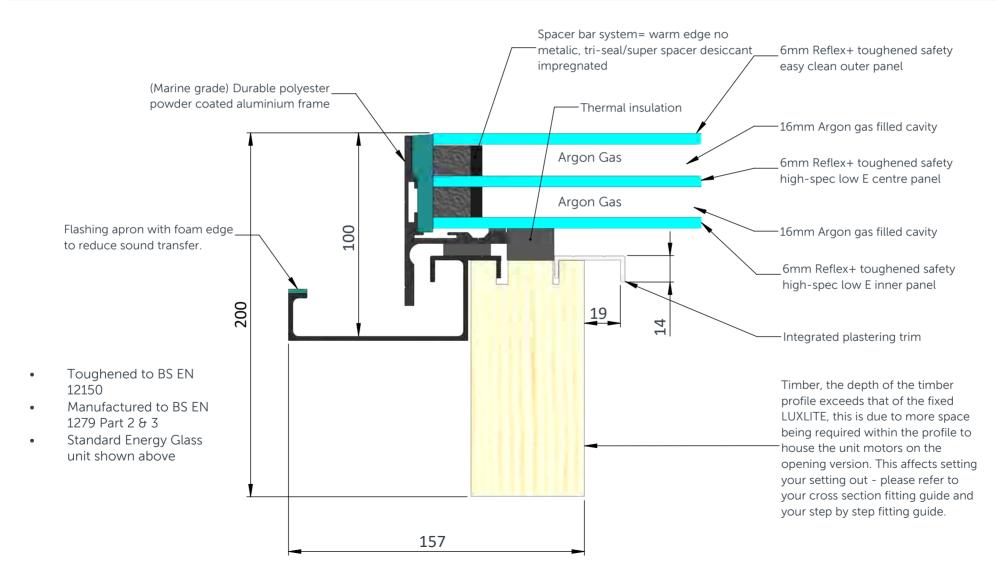
OPENING CONSERVATION LUXLITETM (WITH BLACKOUT BLINDS)

OPENING CONSERVATION LUXLITETM WITH BLACKOUT BLINDS: PRODUCT SPECIFICATION AND INSTALLATION GUIDE

CONTENTS

- PAGE 2 PRODUCT SPECIFICATION CROSS SECTION DRAWING
- PAGES 3-4 SPLIT BAR CONFIGURATION GUIDE (shows the amount of split bars your rooflight will have, based on the rooflight width)
- PAGE 5 OPENING SIZE GUIDE (guidelines on how far your Luxlite™ will open, dependant on the height/depth of the rooflight)
- PAGES 6-10 STEP BY STEP INSTALLATION GUIDE
- PAGE 11 ROOF CROSS SECTION FITTING GUIDE
- PAGES 12-14 ROOFLIGHT WIRING GUIDE-CONTROL SWITCH OPERATION (3,4 and 5 core cabling)
- PAGES 15-16 CABLE LOCATION GUIDE FOR REMOTE CONTROLLED ROOFLIGHTS WITH RAIN SENSOR (guidelines on where to store the control box and where to fix the rain sensor externally with the provided bracket)
- PAGES 17-21 ROOFLIGHT WIRING AND CABLE EXTENSION GUIDE-REMOTE CONTROL OPERATION WITH RAIN SENSOR
- PAGE 22 BLACKOUT BLIND CORD CONFIGURATION GUIDE (outlines how many support cords will be visible on your blackout blinds)
- PAGES 23-28 CONNECTING YOUR REMOTE-CONTROLLED BLACKOUT BLIND (wiring guide for your blackout blinds)

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 LuxliteTM. 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

Number of split bars:	4 splits	5 splits
Width of rooflight:	2001mm - 2500mm	2501mm - 3000mm
lmage:		

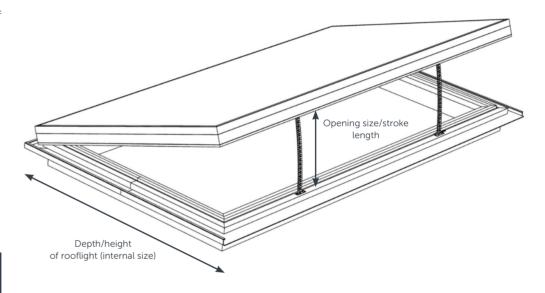
OPENING SIZE GUIDE FOR THE HINGED OPENING LUXLITETM

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.

Luxlite[™] 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 LUXLITETM: INSTALLATION INSTRUCTIONS



ON DELIVERY OF YOUR NEW OPENING CONSERVATION LUXLITETM, YOU WILL RECIEVE:

*IF REMOTE CONTROLLED WITH ARAIN 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 CONTROL SWITCH CONTROLLED...

- Control switch
- Long Screws for fixing the rooflight to the rafters and trimmers
- *All additional accessories and componentswill come with your rooflight delivery andbe packaged in a cardboard box.
- *When fixing the rooflight down with screws, it is highly recommended to pilot a hole first.

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 the correct lifting equipment.

PLEASE NOTE: You must not 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 LuxliteTM you ordered. (e.g. for 2000x1000mm LuxliteTM, 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 $^{\text{TM}}$ will be installed. Seal the underfelt to the timber around the aperture.

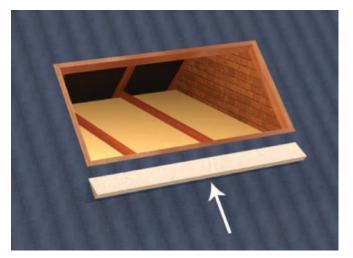




STEP THREE

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 $^{\text{TM}}$ assembly. The wedge should be at least as wide as the Luxlite $^{\text{TM}}$ apron. The position and angle of the wedge is dependent on the roof type set out.



STEP FOUR

COVER THE WEDGE WITH FLASHING

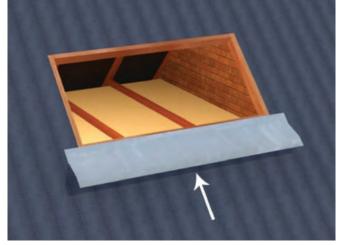
Cover the wedge installed in the previous step with flashing (flashing and wedge not provided).

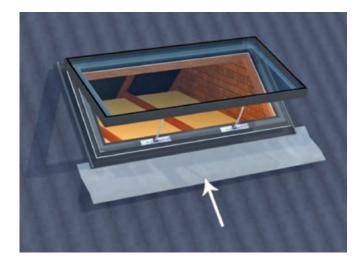
STEP FIVE

BRING YOUR LUXLITE™ INTO POSITION

Bring your LuxliteTM into position and align it so that it is centred on your aperture.

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

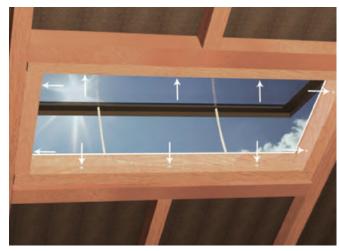




STEP SIX

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 TM 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.



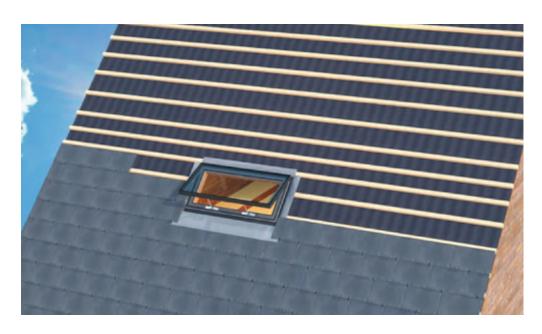
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STEP NINE

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.

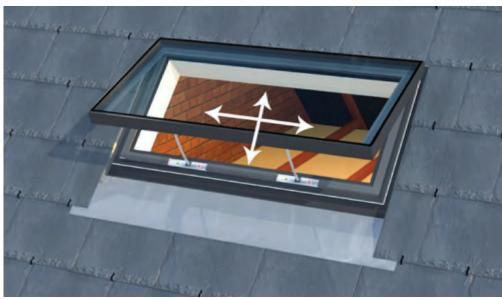


STEP TEN

PLASTERBOARD TO FINISH ASSEMBLY

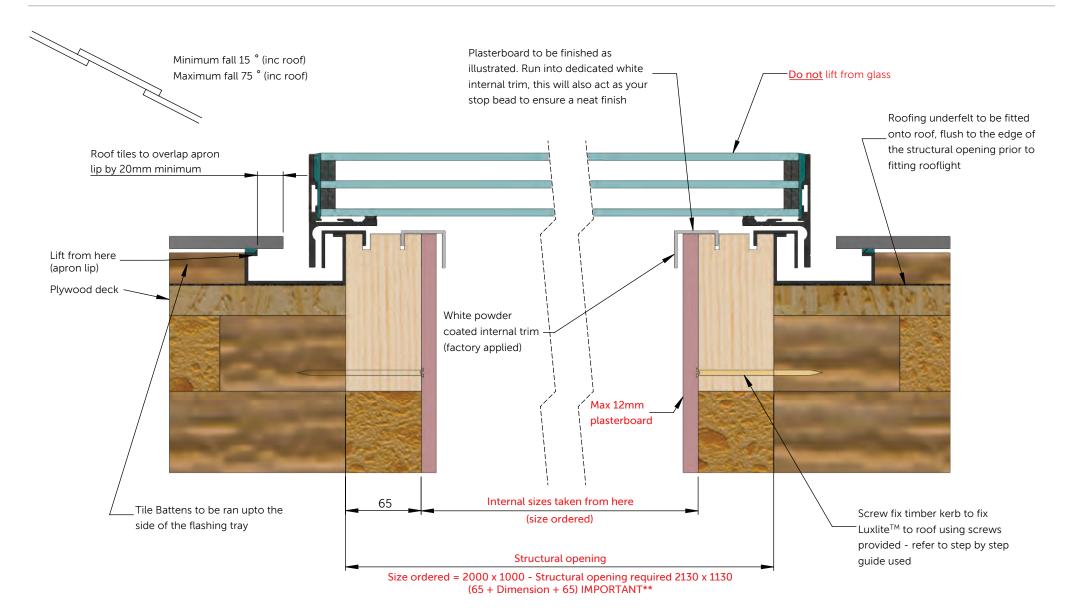
Apply plasterboard to the internal faces of your aperture. The plasterboard is to be applied up to the internal trim of the LuxliteTM (for plastering finish guidelines, please follow the roof section fitting guide on page 11).

Your Opening Conservation Luxlite™ is now fully installed.



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ROOF SECTION FITTING GUIDE

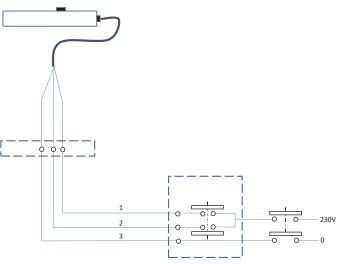




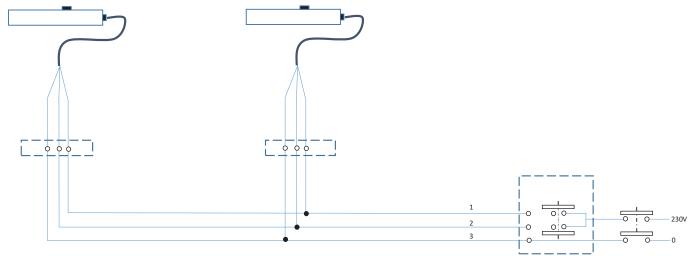
CONTROL SWITCH WIRING DIAGRAMS (3 CORE)

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





3 core - multiple motors



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

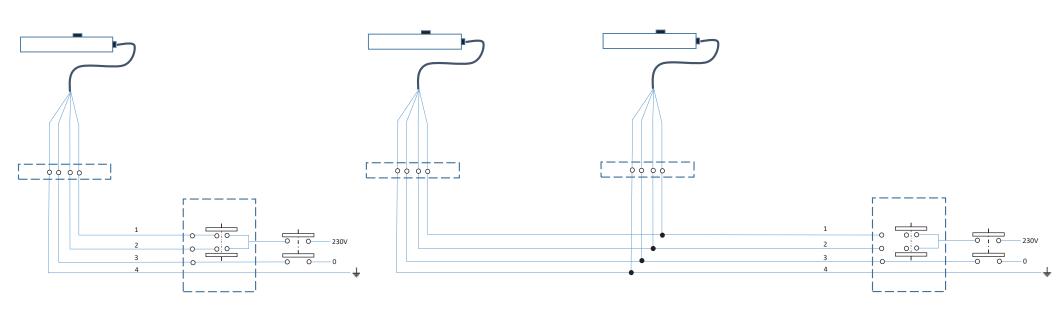
Refers to both single and multiple motors.

CONTROL SWITCH WIRING DIAGRAMS (4 CORE)

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



4 core - multiple motors



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

Refers to both single and multiple motors.

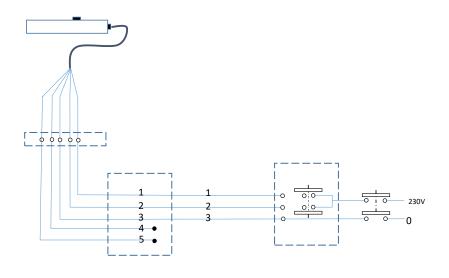


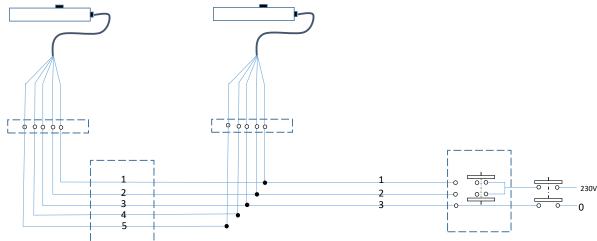
CONTROL SWITCH WIRING DIAGRAMS (5 CORE)

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

5 core - single motor

5 core - multiple motors





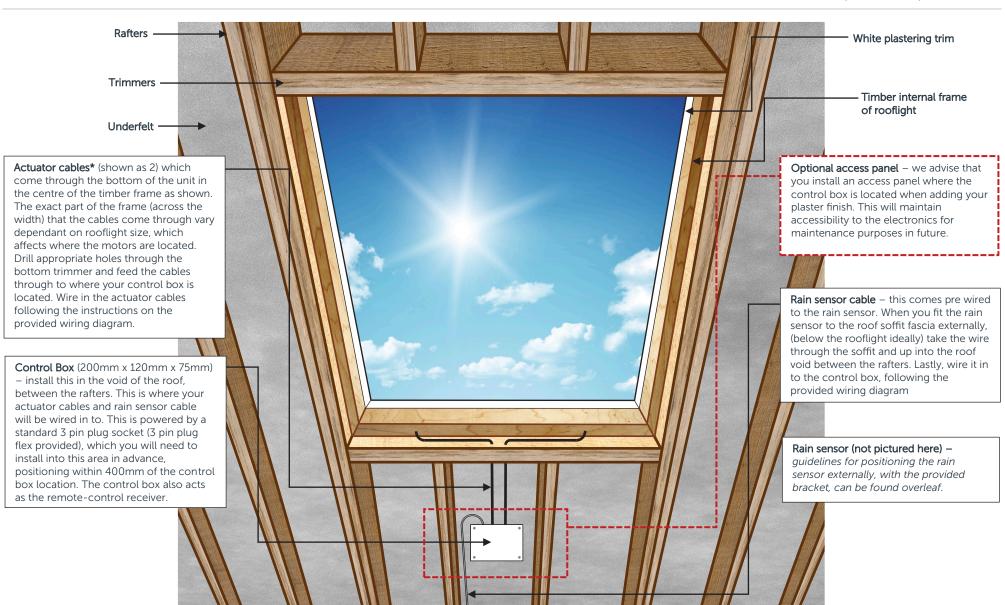
Colour	Number	Signal
Brown	1	Opens
Black	2	Closes
Blue	3	Common
Red	4	Sync
White	5	Sync

Refers to both single and multiple motors.

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

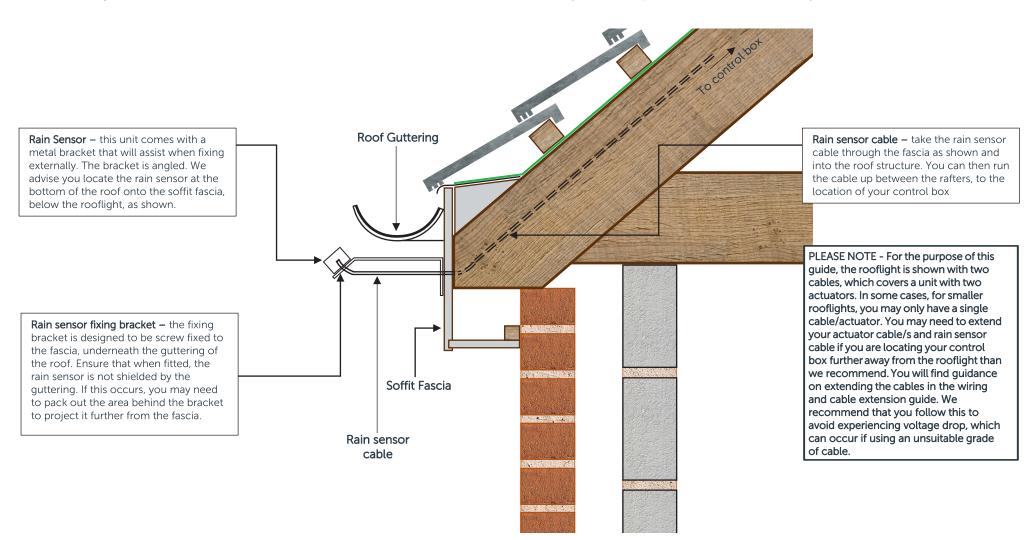


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REMOTE CONTROLLED HINGED OPENING LUXLITETM – CABLE LOCATION GUIDELINES (not to scale)

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 LuxliteTM

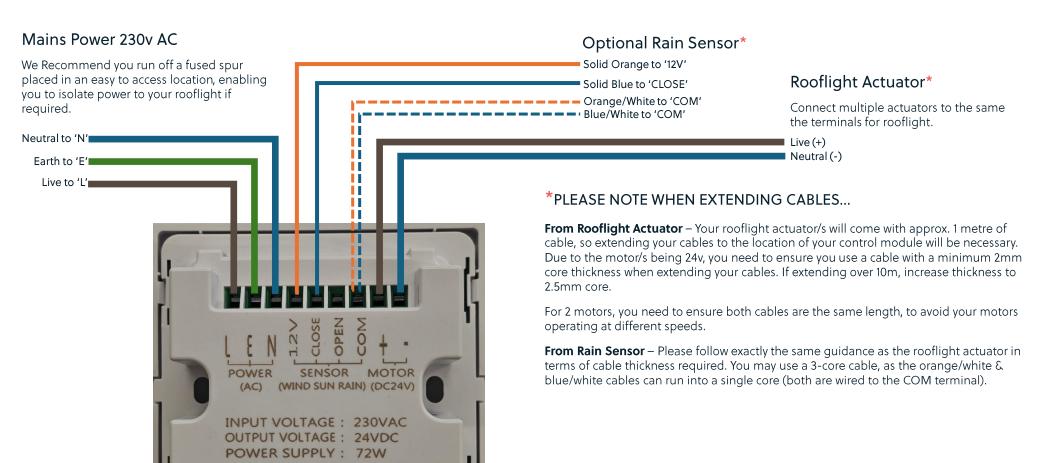


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REMOTE CONTROLLED ROOFLIGHTS: WIRING AND CABLE EXTENSION GUIDE

Wiring Guide - Control Box

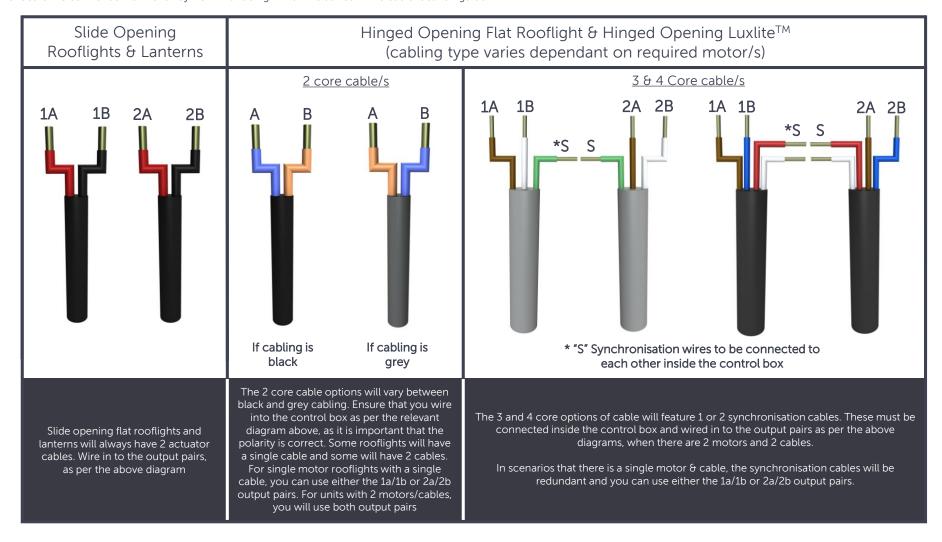
The diagram below shows the PCB located inside the control box. The dimensions of the control box are 200mm x 120mm x 75mm and we advise this to be consealed but kept accessible, as explained in the seperate cable location guide. The diagram below explains how to connect the power supply, the rooflight actuator/s, rain sensor and also covers the wiring for an optional control 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.



REMOTE CONTROLLED ROOFLIGHTS: WIRING AND CABLE EXTENSION GUIDE

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.



REMOTE CONTROLLED ROOFLIGHTS: WIRING AND CABLE EXTENSION GUIDE

Cable Extension Guide

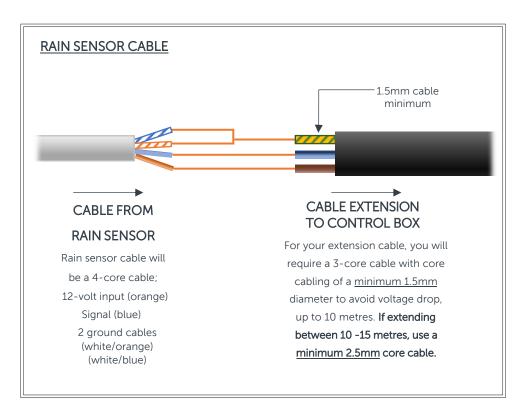
This guide explains how to extend the cabling for opening rooflights, which feature remote controlled operation and rain sensors. In some scenarios, dependant on where your rooflight is located and where you wish to place the control box, extending the cables might be a requirement. Your electrician 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.

2 CORE ACTUATOR CABLE/S -1.5mm cable minimum CABLE FROM ACTUATOR/S CABLE EXTENSION TO CONTROL BOX* For your extension cable, you will require a 2-core cable (minimum) with core cabling of a minimum 1.5mm diameter to avoid voltage drop, up to 10 metres. If extending between 10-15 metres, use a minimum 2.5mm core cable.

*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.

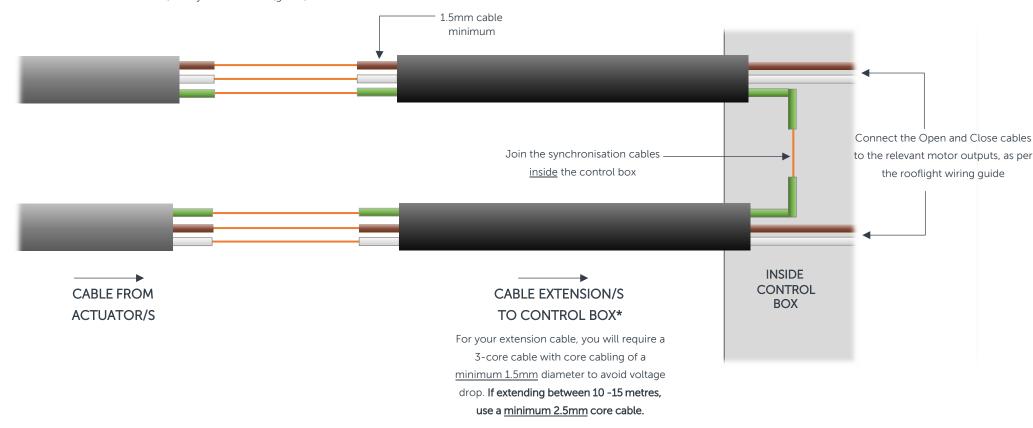




REMOTE CONTROLLED ROOFLIGHTS: WIRING AND CABLE EXTENSION GUIDE

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

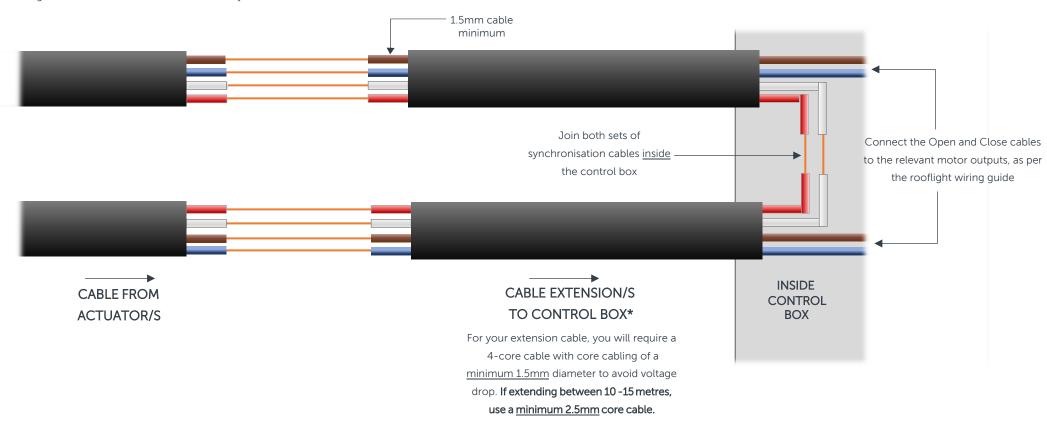


*If your rooflight has 2 actuator cables that need to be extended, please ensure they are extended to exactly the same length to avoid the motors operating at different speeds.

REMOTE CONTROLLED ROOFLIGHTS: WIRING AND CABLE EXTENSION GUIDE

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.



BLACKOUT BLIND CORD CONFIGURATION GUIDE

REFERENCE: PROPOSED CORD & NYLON CONFIGURATION PER ROOF BLIND KEY: Spooling cord – this cord travels through the central section of the fabric. Cords are paired together as an 'extend & return' system. Cord pairs are spaced 20mm apart. Spooling cords are visible when the blind fabric is compressed closed. Support nylon - this semi-transparent nylon cord is fitted to provide fabric support. Nylon cords are visible when the blind fabric is compressed closed. Motor position is defined as looking at the underside of the headrail where the motor and cord spooling componentry are exposed. Motor THIS SET UP APPLIES TO ALL ROOF BLINDS 500MM TO 699MM WIDE Motor THIS SET UP APPLIES TO ALL ROOF BLINDS 700MM TO 1100MM WIDE Motor THIS SET UP APPLIES TO ALL ROOF BLINDS >1100MM TO 1400MM WIDE

THIS SET UP APPLIES TO ALL ROOF BLINDS >1400MM TO 2000MM WIDE

Motor

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CONNECTING YOUR REMOTE-CONTROLLED BLACKOUT BLIND



INTRODUCTION

Thank you for purchasing a blackout blind with your new rooflight. This guide will explain how to install your remote-controlled blackout blind.

WHAT COMES WITH MY BLACKOUT BLIND?

- Blind and motor housing (factory fitted to your rooflight)
- White perimeter blind trim (factory fitted to your rooflight)
- 1 x 2400mm extension cable (factory fitted to your rooflight)
- 1 x boxed, Somfy remote-control. This will be given to you when your rooflight is delivered.
- 1 x boxed, Somfy 3 pin power adapter with 3000mm cable. This will be given to you when your rooflight is delivered.



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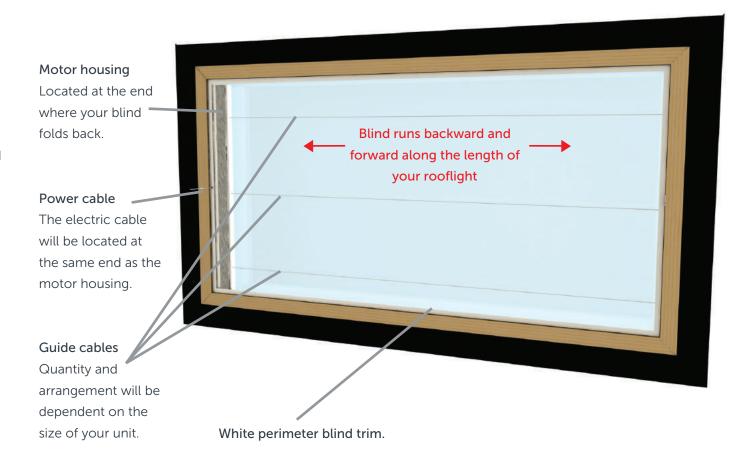
STEP ONE

PREPARATION IS REQUIRED IN THE CEILING VOID OF THE ROOM BELOW YOUR ROOFLIGHT IN ORDER TO PROVIDE A POWER SOURCE TO YOUR BLIND. THIS GUIDE COVERS EACH STEP REQUIRED TO COMPLETE THE SET-UP.

The blackout blind is factory fitted to your rooflight and will be in place when you take delivery of your unit. On the inside of your rooflight, you will see a white surround trim, fitted to the internal perimeter of the built-in upstand/frame. When the blind is fully retracted the blind motor housing will be clearly visible at one end. You will also see guide cables extending from one side to the other. These run the length of the rooflight, with the number and arrangement varying dependent on the size of the blind.

When positioning your rooflight, be careful not to catch these cables or pull them with any force..

ILLUSTRATION SHOWING THE UNDERSIDE OF A LUXLITE™ ROOFLIGHT WITH A BLIND



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STEP TWO

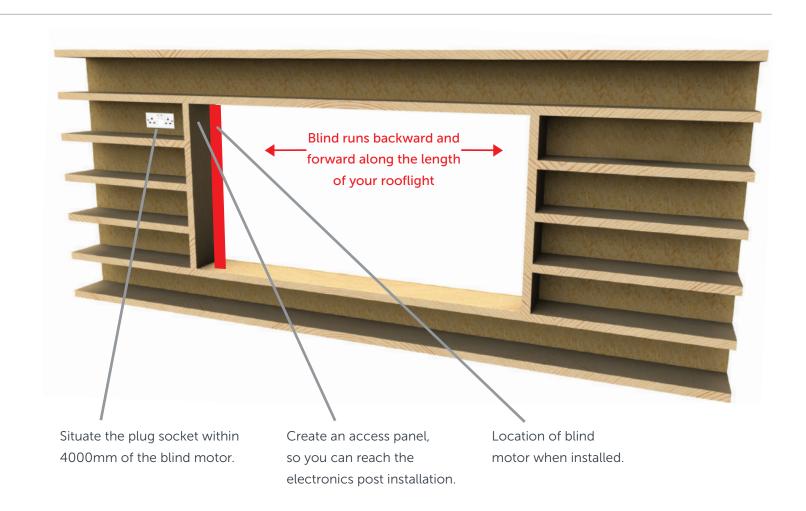
TO POWER THE BLINDS.

A standard 3 pin plug needs to be located in your ceiling void area, within 4000mm of the blind motor.

We recommend creating an access panel so you can easily reach the installed electronics at a later date if required.

We advise that you do not plaster the ceiling in the room below until the rooflight is fitted and the blinds have been wired in. This will provide a clear area to work, allowing you to make last minute adjustments and avoid the blind cables being stretched unnecessarily if you need to achieve more slack.

The blind will move forwards and backwards as the arrows indicate.



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STEP THREE

YOU ARE NOW READY TO INSTALL YOUR ROOFLIGHT.

Once your rooflight has been installed, you will be ready to connect your blinds to your power source. You will see the coiled electrical cabling below your blind motor housing. The cable feeds through a predrilled hole in the white perimeter blind trim, up to the blind motor. This is the 2400mm extension cable. Unwind the cable, ensuring you do not allow the connection in the wiring to be pulled out of the hole.

Run the cable straight down the reveal.

WARNING: You must visibly mark where you have run the wire, to avoid damaging the cable with screws or nails when you fix the plasterboard.

Once you have run the cable up to the joist/rafter, drill a hole through the joist/rafter so you can run the cable into the ceiling void, where you have positioned your 3 pin plug.

THE WIRE CONNECTION MUST STAY ABOVE THE PERIMETER TRIM AS YOU MAY NEED TO LOCATE IT AT A LATER DATE.



Cable coming through trim, no connection visible.



Cable coming through trim with connection visible.

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STEP FOUR

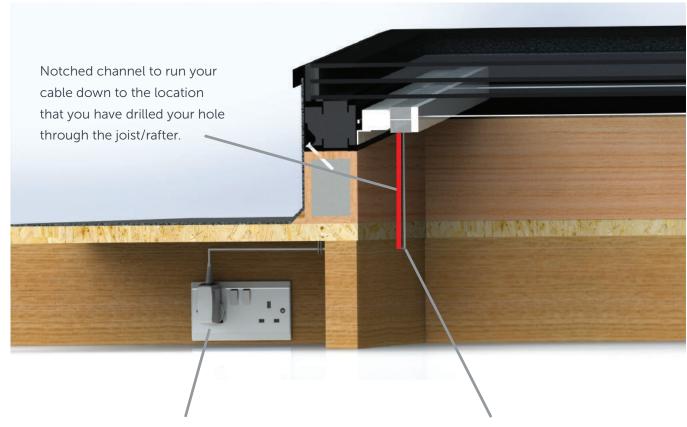
CHANNEL INTO YOUR TIMBER.

You now need to notch a channel into your timber reveal, which will run the length from the hole you have just drilled to the hole where the cable comes through, in the white perimeter blind trim. Running the wire in this channel will ensure your plasterboard can fit flush to the timber. Please ensure the power source is located within 4000mm of where your blind motor will be positioned.

When you have run the cable from your blind into the ceiling void area, through the drilled hole, take the 3000mm power adapter cable provided and connect the 2 cables together. This is a small male/female 'push and click' connection.

Next, plug in the adapter to your 3 pin plug socket that you have located in the ceiling void. Your remote-controlled blackout blind is now connected.

The Somfy remote-control provided with your blind has been synchronised in the factory, so will work as soon as the blind is connected.



Once you have fed the cable through to the void area in your ceiling, connect it to the 3000mm plug adapter cable provided.

Hole in your joist/rafter to feed your cable through to where you have located your 3 pin plug.

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STEP FIVE

PLASTERING. PLEASE ENSURE YOUR BLIND IS FULLY OPERATIONAL BEFORE PLASTERING.

Plaster the ceiling in the room below and the reveals that lead up to the rooflight. The white perimeter blind trim gives you a perfect surface to plasterboard and wet plaster into.

We advise that you cover the retracted blind and motor housing with low adhesive masking tape or equivalent, to prevent you soiling the blinds when applying your wet plaster.

At this stage, you can incorporate an access panel into your ceiling or reveal leading up to the rooflight as mentioned previously.

YOUR BLIND INSTALLATION IS NOW COMPLETE.
WE HOPE YOU ENJOY YOUR NEW ROOFLIGHT
WITH BLACKOUT BLINDS



When you have plastered your reveals leading up to the rooflight, you have the option of installing an access panel in this area.