

# ROOF MAKER

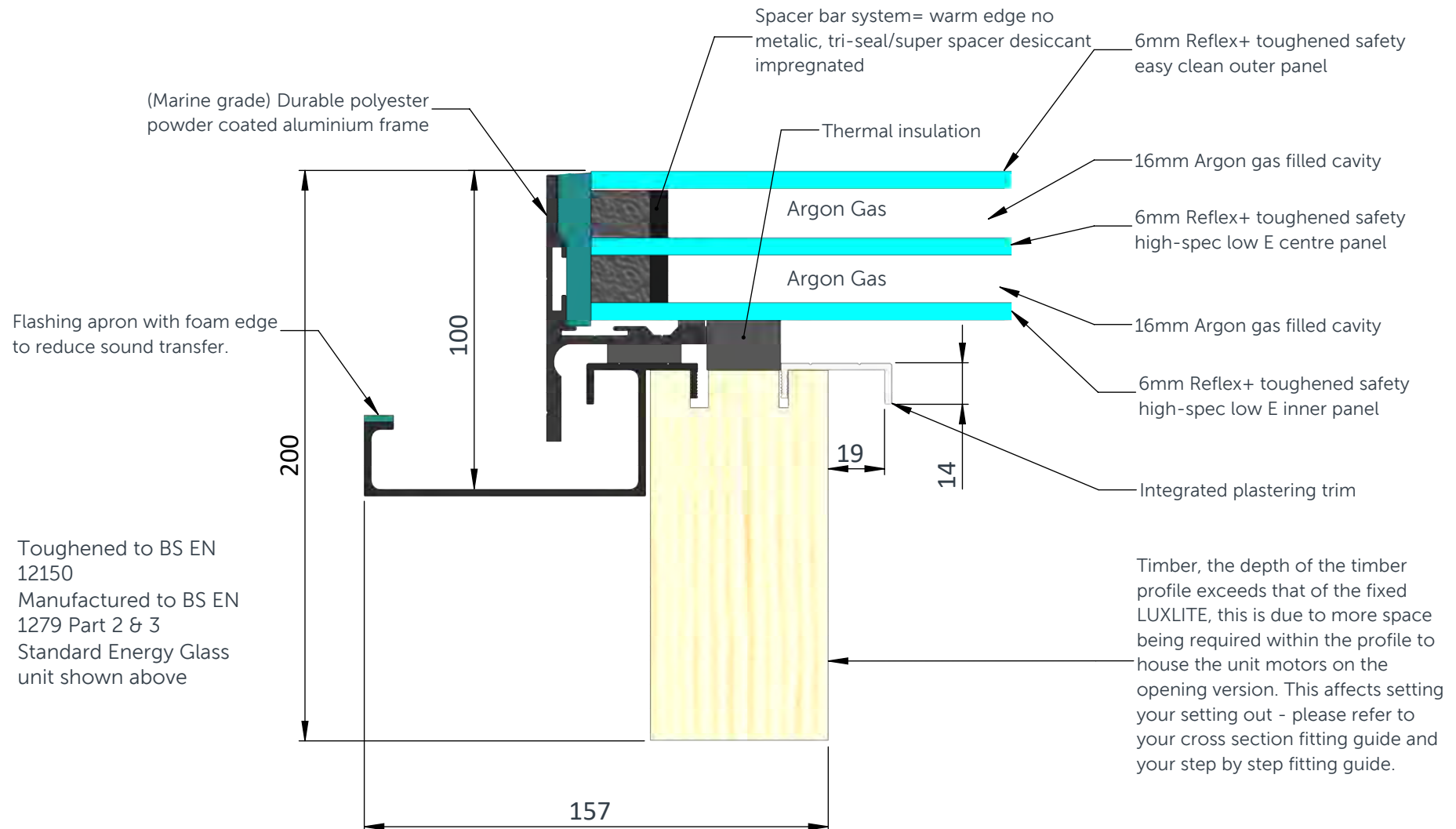
WORLD CLASS ROOFLIGHTS



PRODUCT SPECIFICATION AND INSTALLATION GUIDE

OPENING CONSERVATION LUXLITE™

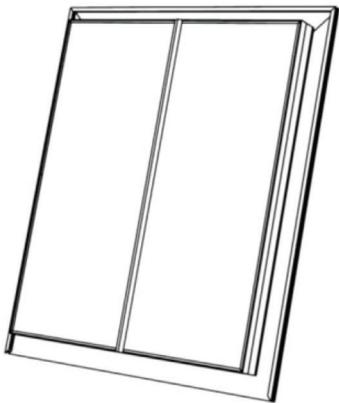
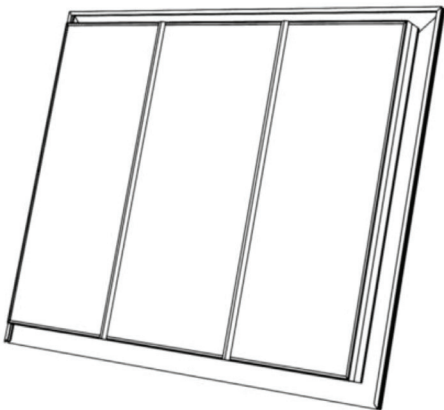
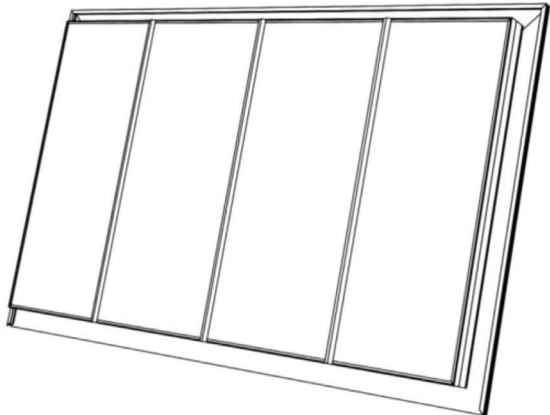
## OPENING CONSERVATION LUXLITE™: STANDARD PRODUCT SPECIFICATION



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

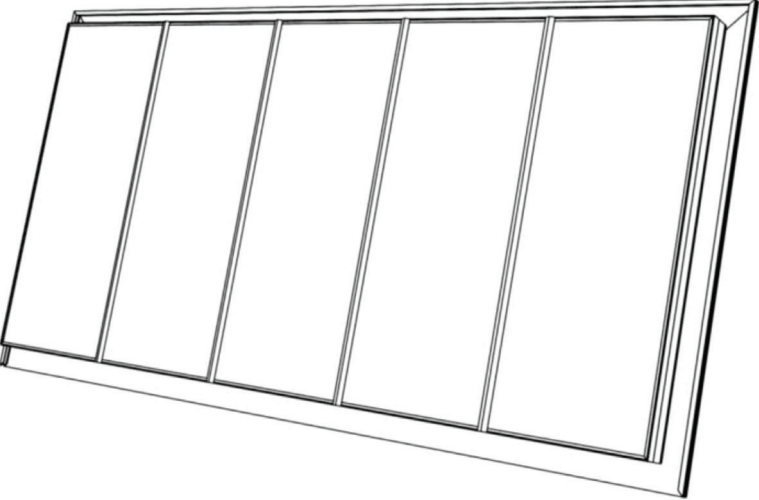
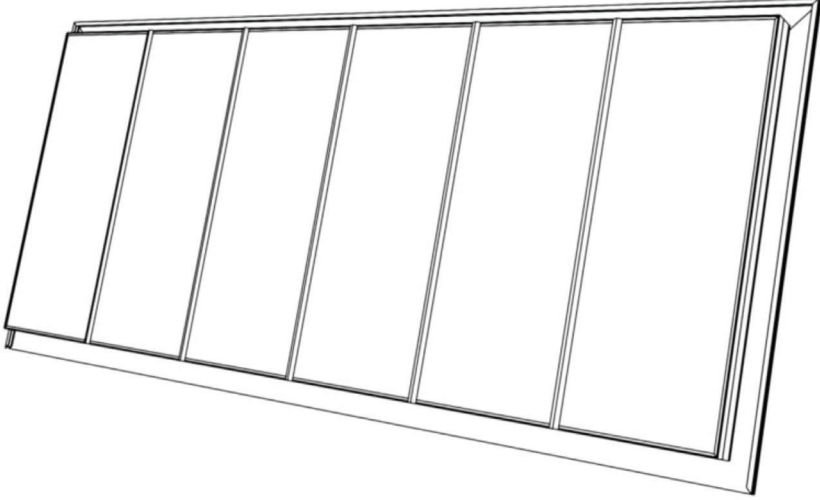
## CONSERVATION LUXLITE™: SPLIT BAR CONFIGURATION GUIDE

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 LUXLITE™: SPLIT BAR CONFIGURATION GUIDE

Number of split bars:	4 splits	5 splits
Width of rooflight:	2001mm - 2500mm	2501mm - 3000mm
Image:	 A perspective line drawing of a rectangular rooflight with a white frame. It is divided into five vertical sections by four vertical split bars. The rooflight is tilted downwards from the top edge.	 A perspective line drawing of a rectangular rooflight with a white frame. It is divided into six vertical sections by five vertical split bars. The rooflight is tilted downwards from the top edge.

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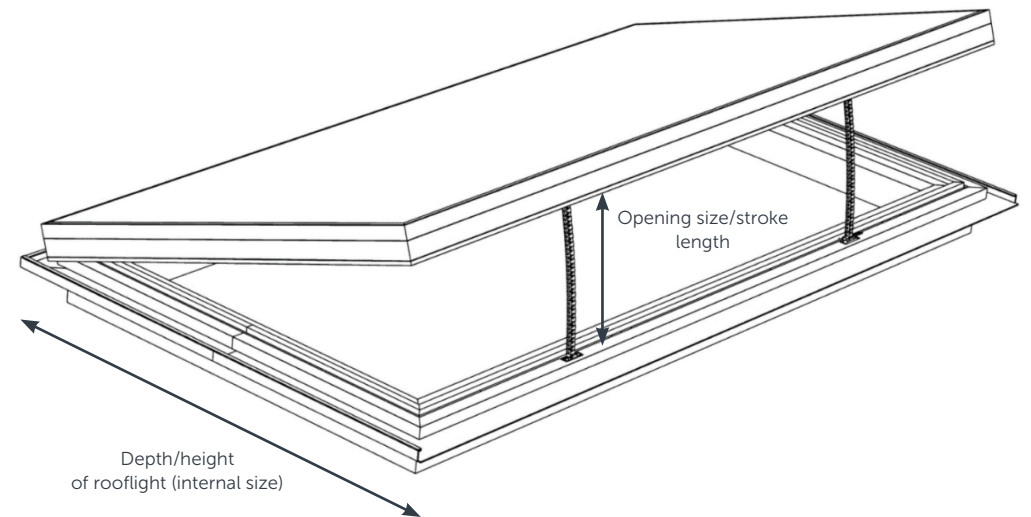
## OPENING SIZE GUIDE FOR THE HINGED OPENING LUXLITE™

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



## OPENING CONSERVATION LUXLITE™: INSTALLATION INSTRUCTIONS



### INSTALLATION GUIDE

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

In addition to your Luxlite™ you will need:

- Silicone Adhesive Sealant (high quality; Dow Corning 791 suggested)
- Drill, bits and screws as required

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

### GUIDE WEIGHTS

Size (mm)	Weight (kg)
400x400	37
600x600	56
900x700	78
1400x700	108
1000x1000	107
1500x1000	143
2000x1000	144
2400x1000	168
3000x1000	201
1500x1200	164
2000x1200	164
2400x1200	189

*PLEASE NOTE - weights stated can vary and work to a +/- 10% tolerance. We can provide weights for sizes not listed.*

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## 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). See the cross section fitting guide at the end of this document for more detail.

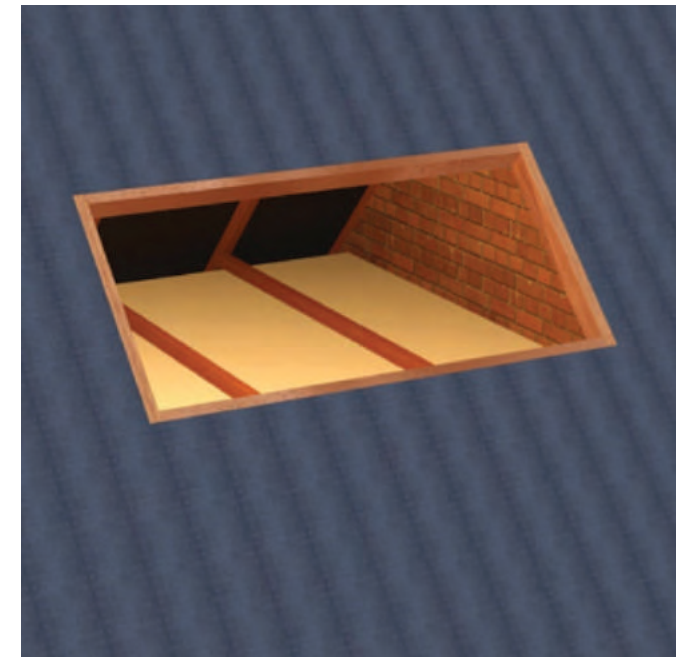
Fit trimmers across the joists adjacent to the aperture, and a beam across the trimmers, as shown. These additional structural members will support the tile battens around the rooflight.



## 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.



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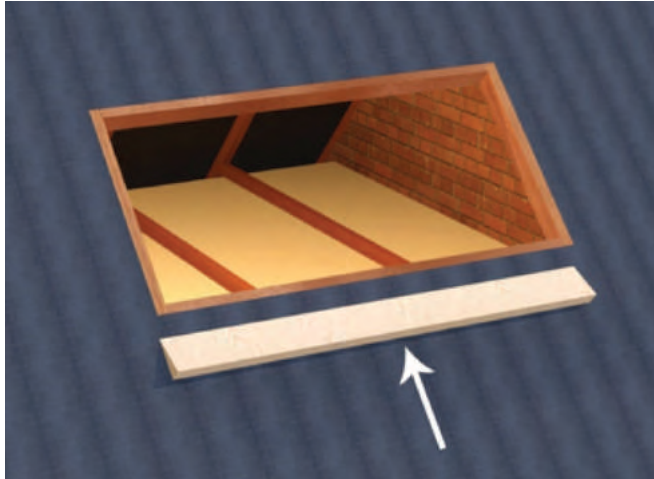
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## STEP THREE

### PREPARE AND FIT A TIMBER WEDGE BELOW THE APERTURE

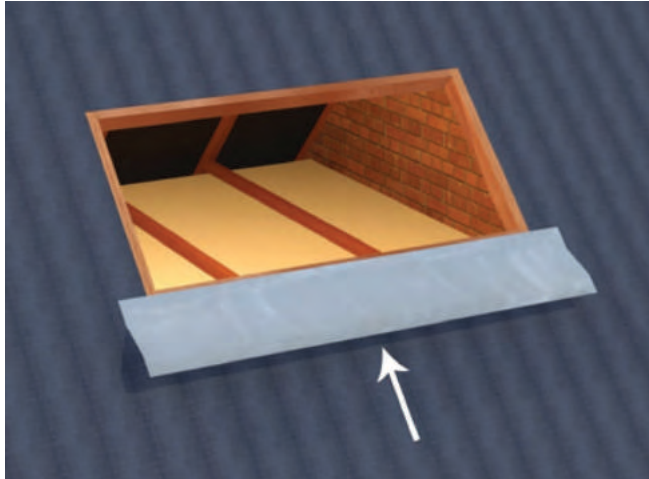
The bottom of the wedge should meet level with the tiles that will be installed later. This can be determined by trial fitting the Luxlite™ assembly.



## 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 Luxlite™ apron. It is also important that the highlighted edge of the flashing (left) is tucked underneath the Luxlite™ apron.

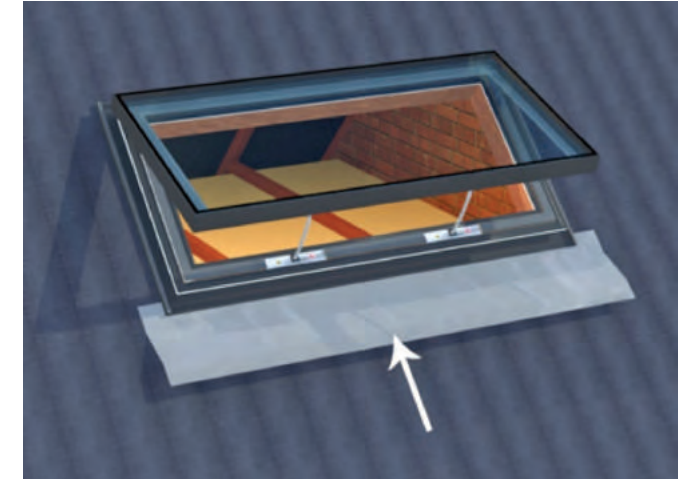


## STEP FIVE

### 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.





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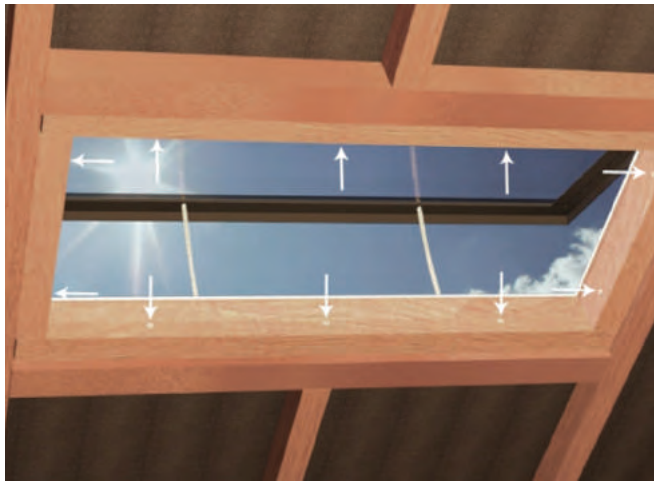
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## STEP SIX

### FIX YOUR LUXLITE™ TO THE ROOF

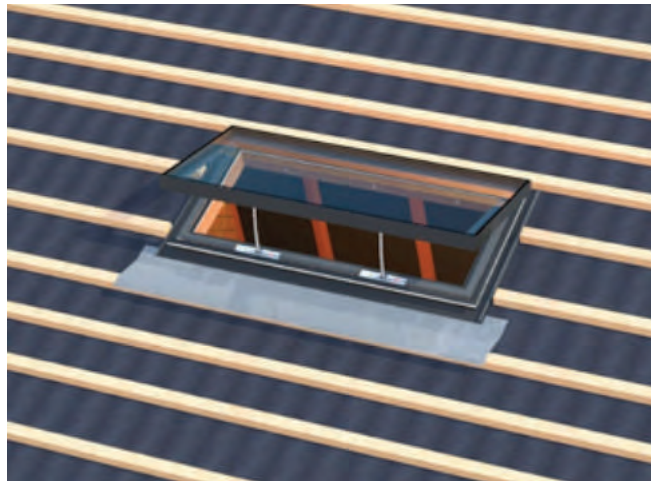
Fix your Luxlite™ to your roof. Refer to the assembly section view in the appendix at the end of this document for more detail.



## STEP SEVEN

### FIT BATTENS TO THE ROOF

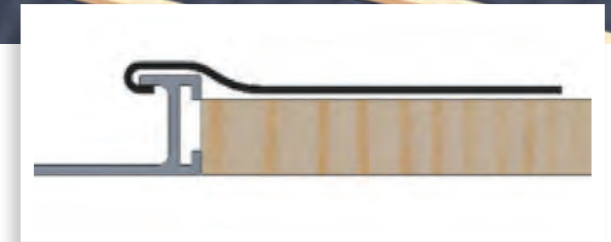
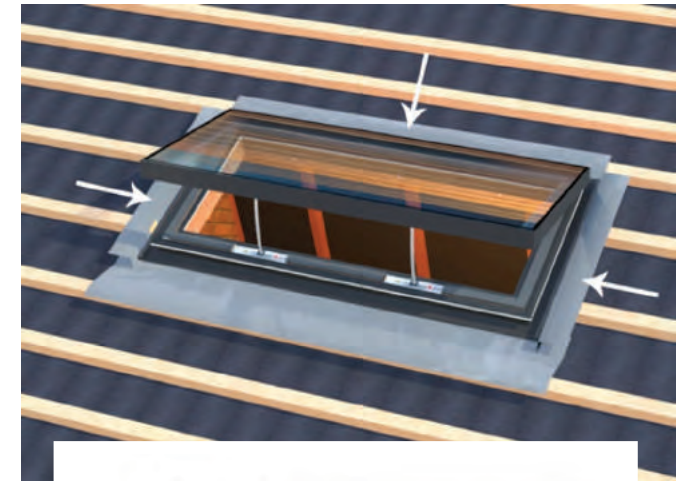
Tile battens can now be fitted to your roof. The battens should be flush with the edge of the Luxlite™ aluminium apron.



## STEP EIGHT

### FIT FLASHING TO COVER THE BATTENS

Seal beneath the lip of the apron, drape over battens. Tiles will sit over this flashing. (Note: side flashing is only required when using pantiles).



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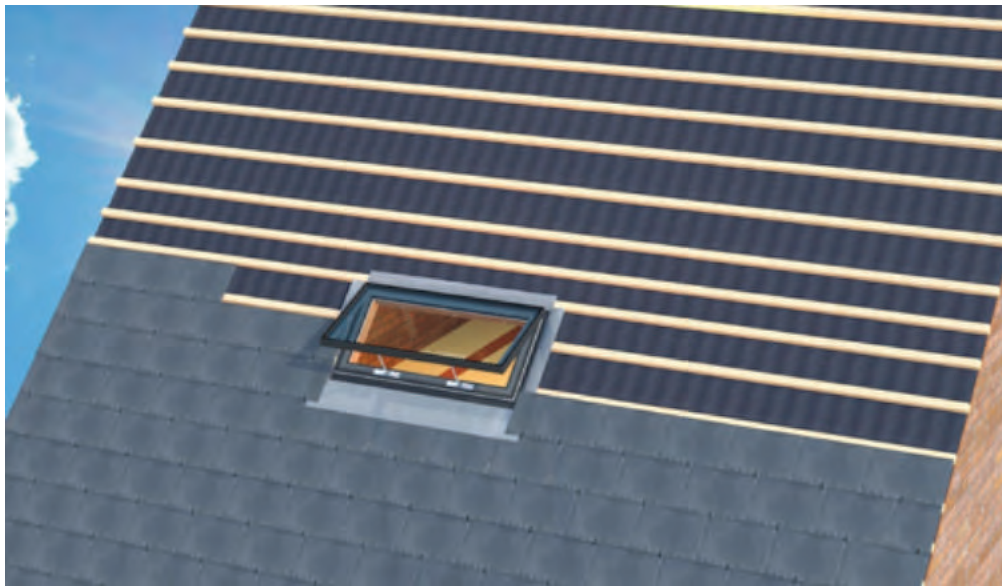
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## STEP NINE

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### 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.



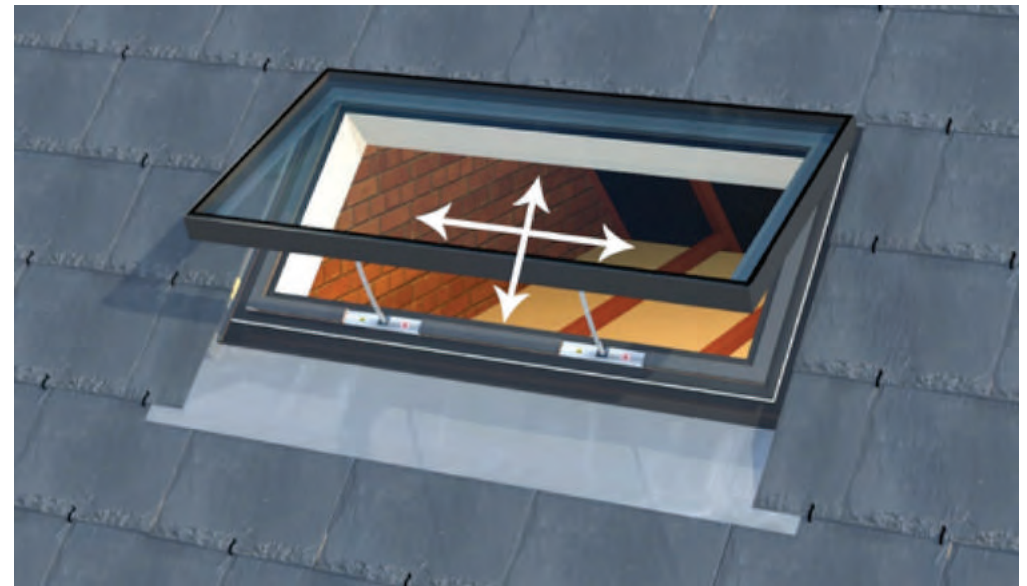
## STEP TEN

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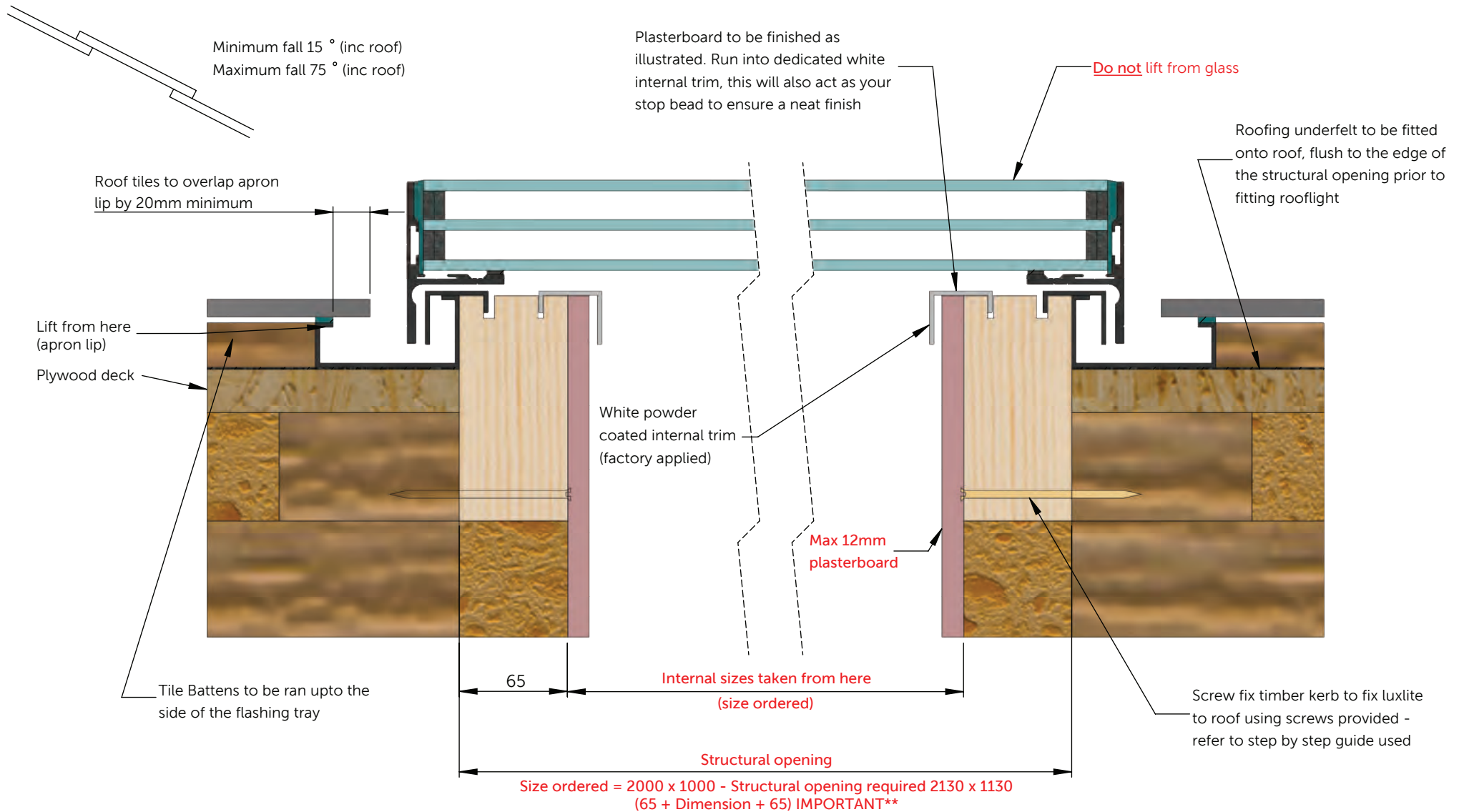
### PLASTERBOARD TO FINISH ASSEMBLY

Apply plasterboard to the internal faces of your aperture. The plasterboard is to be applied up to the internal trim of the Luxlite™ (for plastering finish guidelines, please follow the cross section fitting guide on page 7).

Congratulations! Your Opening Conservation Luxlite™ is now fully installed.



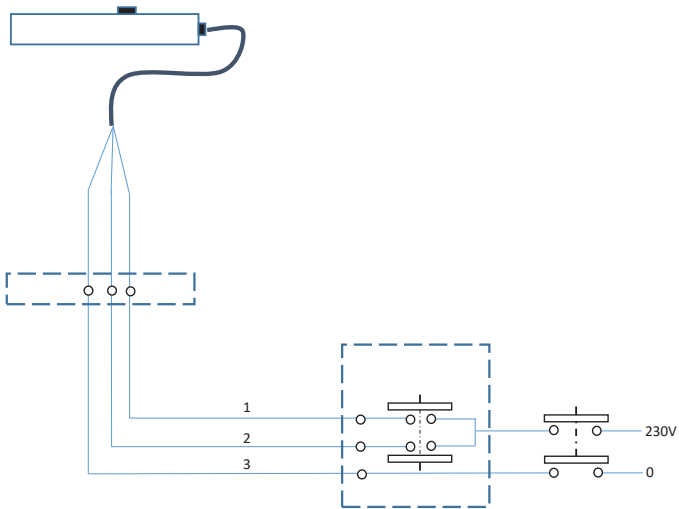
## ROOF SECTION FITTING GUIDE



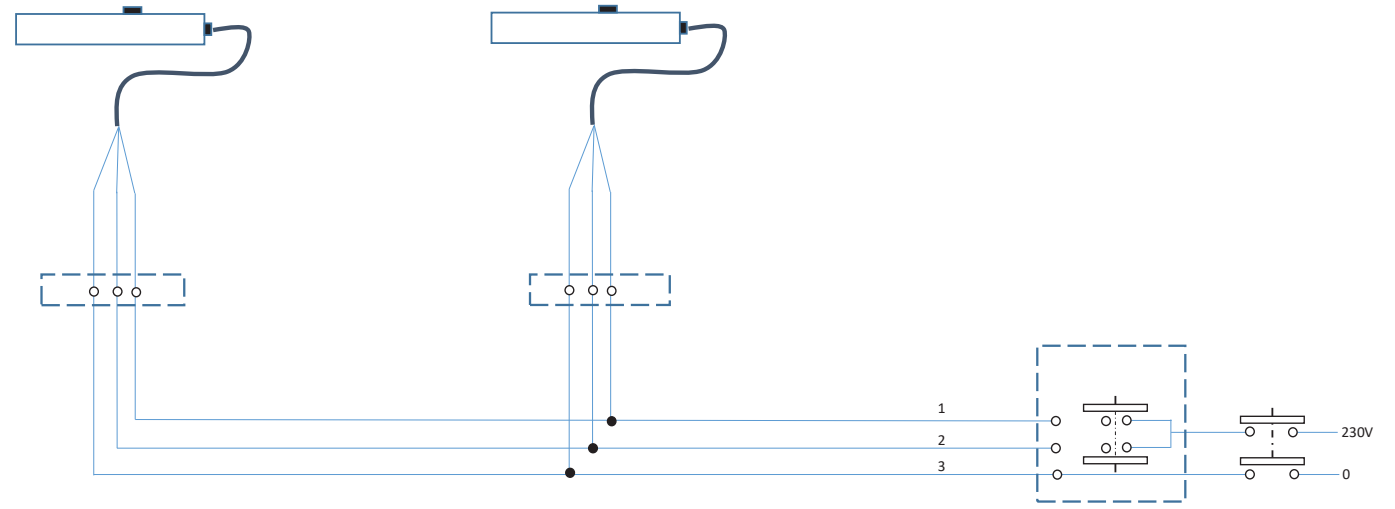
## ROCKER SWITCH WIRING DIAGRAMS (3 CORE)

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

3 core - single motor



3 core - multiple motors



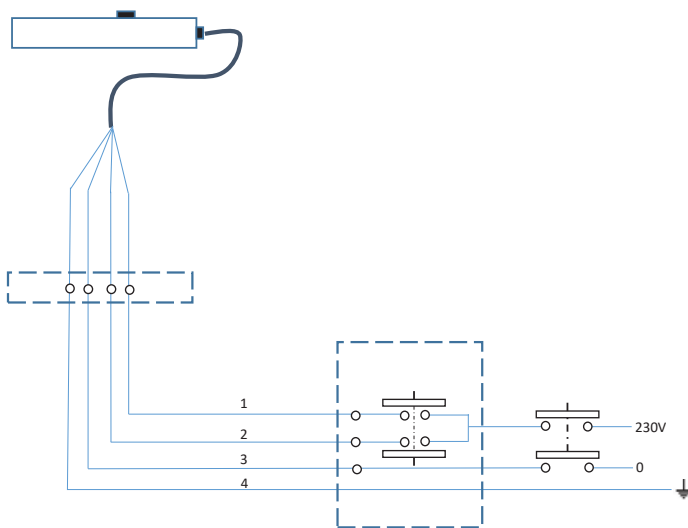
Colour	Number	Signal
Brown	1	Opens
Black	2	Closes
Grey	3	Neutral

Refers to both single and multiple motors.

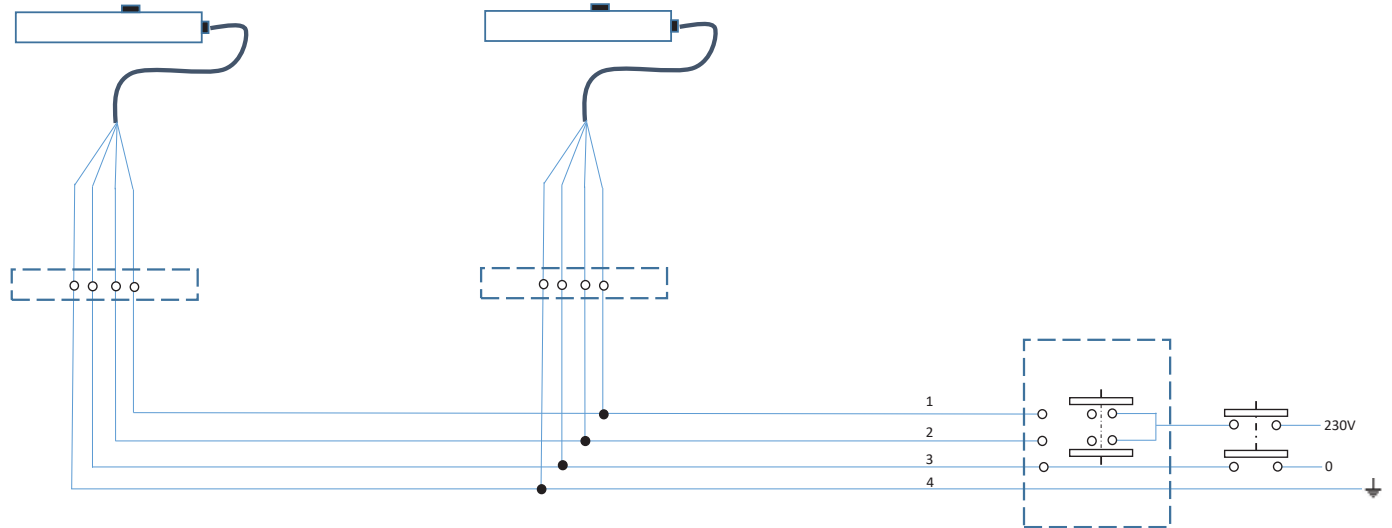
## ROCKER SWITCH WIRING DIAGRAMS (4 CORE)

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	Neutral
Yellow/Green	4	Ground

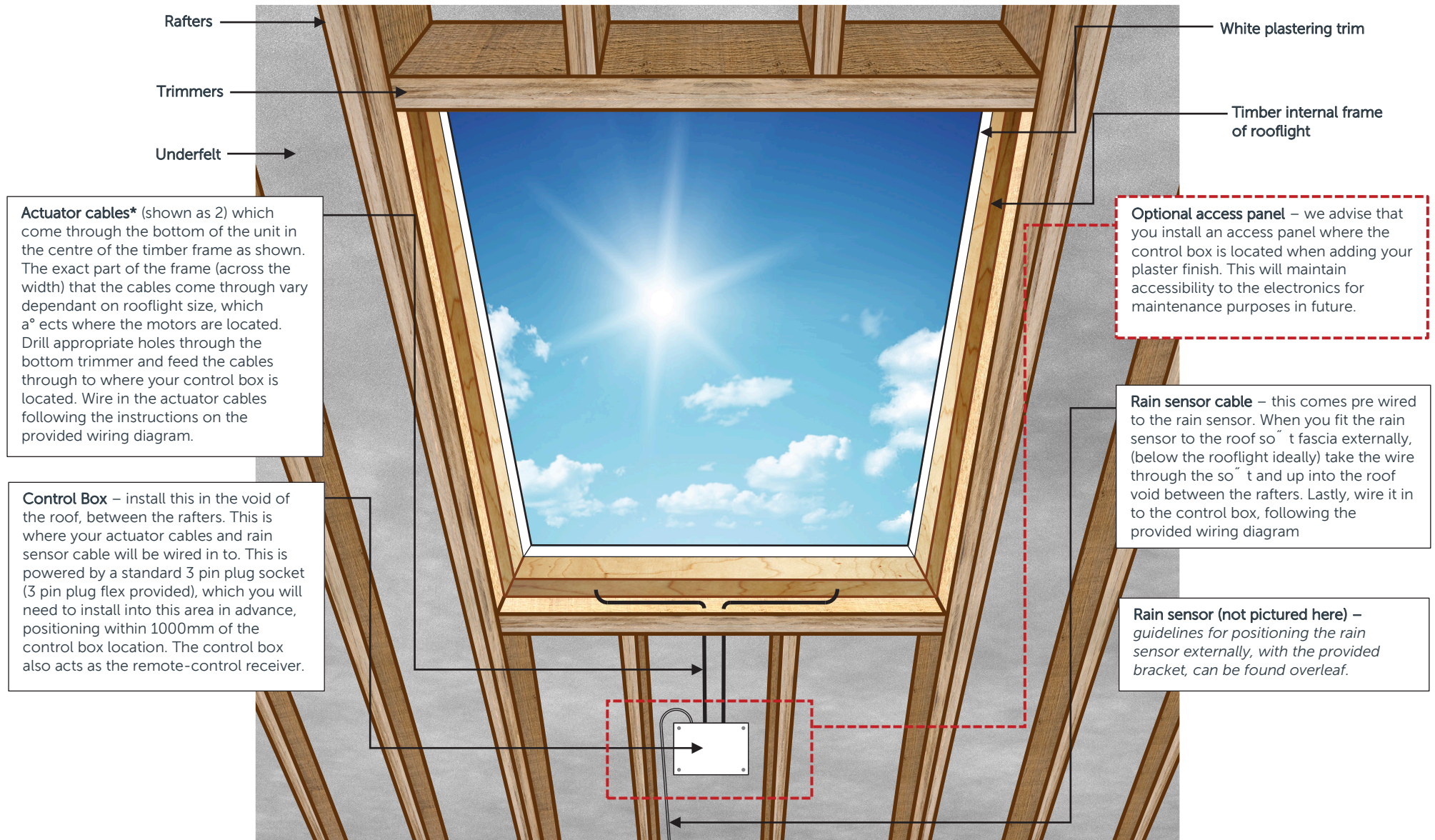
Refers to both single and multiple motors.

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## REMOTE CONTROLLED HINGED OPENING LUXLITE™ – CABLE LOCATION GUIDELINES (not to scale)



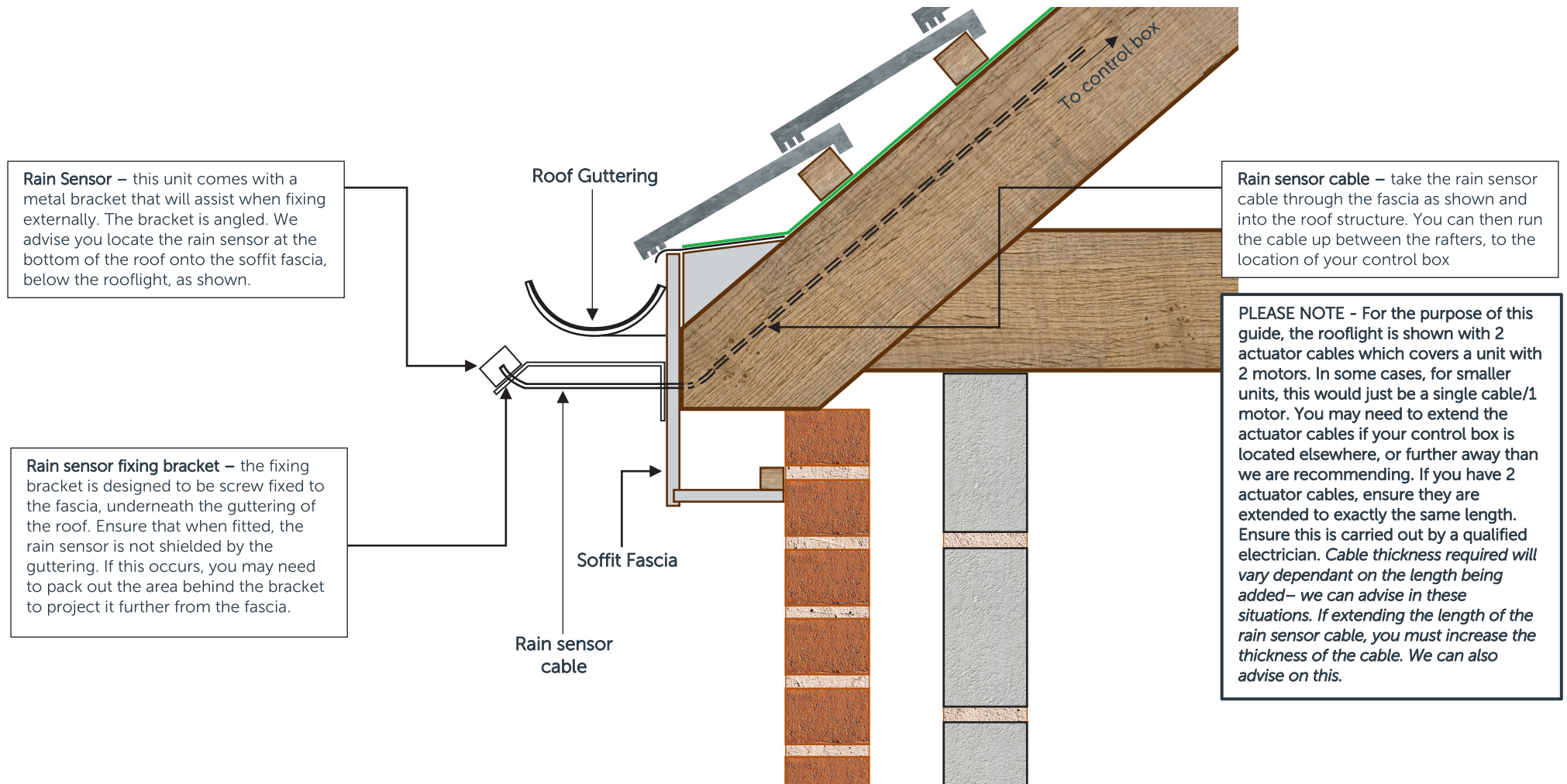
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## REMOTE CONTROLLED HINGED OPENING LUXLITE™ – CABLE LOCATION GUIDELINES (not to scale)

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™

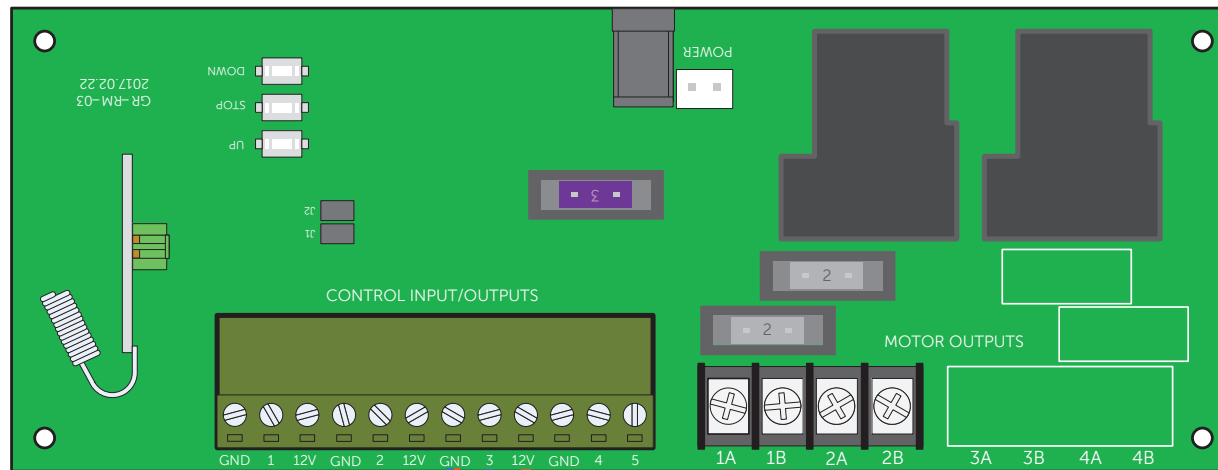


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## REMOTE CONTROLLED ROOFLIGHT WIRING GUIDE



### Control Input/Outputs Key

GND: Ground (-ve)

12V: +12V DC regulated supply

#### 1: Safety Switch Signal Input

Connect to any ground, GND, to stop/switch off the output

#### 2: Thermostat Signal Input

Connect to any ground, GND, to switch output to 'down'

#### 3: Rain Sensor Signal Input

Connect to any ground, GND, to switch output to 'down'

#### 4: Control up

Connect via switch any ground, GND, to switch output to 'UP'

#### 5: Control down

Connect via switch any ground, GND, to switch output to 'DOWN'

### Kemo Rain Sensor

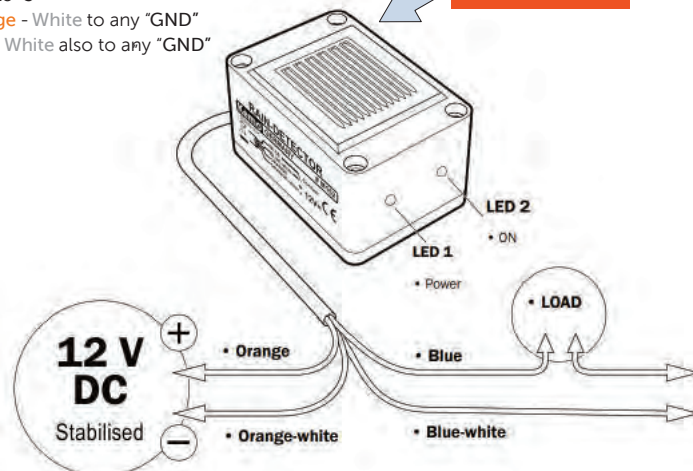
Connect:

Orange to any "12V"

Blue to "3"

Orange - White to any "GND"

Blue - White also to any "GND"



Outputs to actuator(s). If only using one actuator then either of the output pairs 1A and 1B or 2A and 2B can be used. Each numbered output is individually fused and is capable of supplying up to 2.1A continuous at 24VDC. The polarity at each output inverts when swapping between 'up' and 'down'. Outputs 3 and 4 are not used (cables here shown as grey – please see overleaf, which shows where cables need to be wired into the output pairs, which is dependent on the type of rooflight being installed).

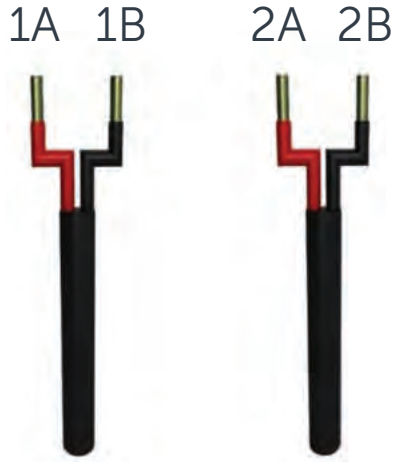
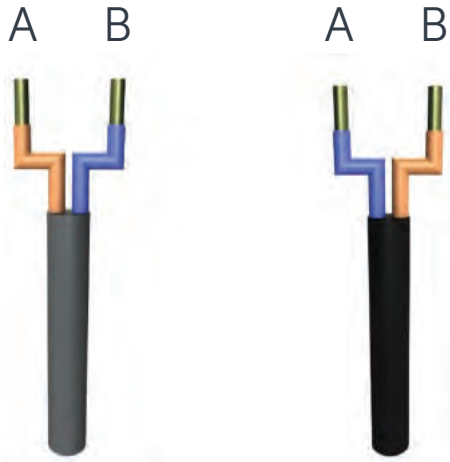

### WARNING

Ensure that the combined load at the three "12V" output terminals does not exceed 1A. A single Kemo rain sensor should consume less than 0.2A, so if using a rain sensor there should be a further 0.8A available at 12VDC (~9W) to also operate thermostats, safety sensor switches and similar devices. DO NOT connect any 12V directly to any GND, or any of 1, 2, 3, 4, 5 to any 12V



## REMOTE CONTROLLED ROOFLIGHT WIRING GUIDE

The chart below shows the different wiring combinations you will be working with, dependant on the type of rooflight you are installing. This is specified below each variation of wire shown. Open-Lite has been shown as 2 cables which will always be the case. For sliding rooflights, there will always be 2 cables that you will wire in to output pairs 1A-1B & 2A-2B. For Flat hinged opening and Luxlite hinged opening rooflights, you will either have 1 set or 2 sets of actuator cables dependant on the amount of motors that your rooflight has been allocated. For single motor units, you can use either 1A-1B or 2A-2B and for 2 motors you will use both output pairings.

	 <p data-bbox="862 1182 1039 1241">If actuator cabling is grey</p> <p data-bbox="1182 1182 1375 1241">If actuator cabling is black</p>	 <p data-bbox="1464 1182 2123 1241">*Communication wires to be connected to each other. All other wires not illustrated above are not required</p>
<p data-bbox="353 1299 517 1378">All Sliding rooflights</p>	<p data-bbox="898 1299 1339 1378">Flat Hinged Opening &amp; Luxlite® Hinged Opening</p>	<p data-bbox="1693 1299 1906 1378">Open-Lite (roof access)</p>